

January 21st

- 8:30** Registration
- 9:00** Opening - **Rector Pierre Wolper** (University of Liège)
- 9:20** **Frank Dorman** (The Pennsylvania State University) - A decade, or more, of multidimensional chromatography and the Multidimensional Workshop: Where have we been and where are we going?
- 9:50** **Jean-Marie Dimandja** (Georgia Institute of Technology) - The quest towards a regulatory GCxGC/MS method: Advances and perspectives
- 10:10** **Masaaki Ubukata** (JEOL) - Introduction of the ionization techniques for GCxGC/MS
- 10:30** **Catherine Brasseur** (Certech) - Reduction of odour/VOC emissions from biocomposite materials: Selection of suitable additives
- 10:50** **Peter Jürgen Müller** (University of Bonn) - Thermal modulated comprehensive heart-cutting with free programmable and flow decoupled hyper-fast flow-field thermal-gradient GC as second dimension (GC - FF TG GC - MS)
- 11:10** Coffee Break (Sponsored by Merck)
- 11:30** **Court Sandau** (Chemistry Matters Inc.) - Comprehensive fingerprinting of ignitable liquid residues (ILRs) for identification of gasoline used to ignite arsonous wildfires
- 11:50** **Lorne Fell** (LECO Corporation) - Comprehensive non-target environmental exposome sample characterization via GCxGC HR-TOF Mass Spectrometry
- 12:10** **Bart Tienpont** (Research Institute for Chromatograph) - Exploration of low EI-HR-TOFMS for GCxGC
- 12:30** **Chiara Cordero** (University of Turin) - Advanced data elaboration in GCxGC-MS: Challenges and opportunities for effective profiling and fingerprinting
- 12:50** Lunch Break (Sponsored by ExxonMobil and Merck)
- 14:00** **FG1:** Inter-laboratory data processing and software bottlenecks, Moderators: **James Harynuk** (University of Alberta), **Flavio Franchina** (University of Liège) **FG2:** Widespread industry acceptance – What is holding us back? Moderators: **Jean-Marie Dimandja** (Georgia Institute of Technology), **Catherine Brasseur** (Certech)
- 15:00** Coffee Break (Sponsored by Merck)
- Flash Session (8 min each)*
- 15:30** **Ivan Aloisi** (University of Messina) - Flow-modulation comprehensive 2D GC within the context of complex sample analyses
- 15:40** **Benedikt Weggler** (University of Liège)- Unconventional Kendrick Mass Defect as a visualization and rapid screening tool for GCxGC-HR-ToF/MS measurements
- 15:50** **Sarah Prebihalo** (University of Washington) - Recent advances and applications of tile-based Fisher Ratio analysis for discovery-based GCxGC-TOFMS studies
- 16:00** **Nadine Gawlitta** (Joint Mass Spectrometry Centre of the University of Rostock and the Helmholtz Zentrum München) - Evaluation of two newly available software packages for the processing and statistical analysis of comprehensive two-dimensional gas chromatography data
- 16:10** **Daniela Peroni** (JSB) - Evaluation of thermal and flow (forward and reverse fill/flush) modulators for the analysis of complex petrochemical samples

- 16:20 Uwe Käfer** (Joint Mass Spectrometric Centre of the University of Rostock and the Helmholtz Zentrum München (JMSC)) - Comprehensive study of heavy fuel oils by high-resolution mass spectrometry hyphenated to GCxGC and direct inlet probe
- 16:30 Lena Dubois** (University of Liège) - Chocolate aroma analysis, a journey into the Belgian tradition
- 16:40 Roman Jaramillo** (The Pennsylvania State University) - GCxGC chromatogram modeling- Quick and easy GCxGC method evaluation
- 16:50 Lisa Kates** (Chemistry Matters Inc.) - From crime scene to court: Application of GCxGC-TOFMS to arsonous wildfire investigations
- 17:00 Kyra Murrel** (The Pennsylvania State University) - Using GCxGC-TOFMS to track contaminants of emerging concern from the wastewater treatment plant to the crops we eat
- 19:00** Dinner at Le Cadran (Sponsored by JEOL)

January 22nd

- 9:00 Deirdre Cabooter** (KU Leuven) - Outlook of the Belgian CHIMIC team on the upcoming challenges and perspectives in multidimensional chromatography
- 9:30 Anupam Giri** (SABIC, GTC-EUR) - Extent of GCxGC applications in petroleomics
- 9:50 Sebastiaan Eeltink** (Vrije Universiteit Brussels) - Design of a microfluidic chip for spatial three-dimensional liquid
- 10:10 Raphael La Rocca** (Mass Spectrometry Laboratory, MolSys, University of Liege) - High accuracy mass spectrometry, isotopic signature and ion mobility as sources for new descriptors for the identification of small molecules
- 10:30 Daniela Peroni** (JSB) - Improved characterization of polymers with pyrolysis-GCxGC-MS
- 10:50 Dave Borton** (LECO Corporation) - A diverting flow modulator: A different take on flow modulation
- 11:10** Coffee Break (Sponsored by Merck)
- 11:30 Qingping Tao** (GC Image, LLC) - Towards an open and flexible cross-sample analysis workflow with comprehensive two-dimensional chromatography data
- 11:50 Joseph Binkley** (LECO Corporation) - Case Studies in Oil Spill Forensics: Finding Petroleum Biomarkers with GCxGC-TOFMS
- 12:10 Philip Marriott** (Monash University) and **Hans-Gerd Janssen** (University of Amsterdam) - The landmark Volendam 2003 GCxGC-1 meeting: Recollections, reminiscences, and rip-roaring research
- 13:00** Lunch Break (Sponsored by ExxonMobil and Merck)
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| 14:00 | FG3: Publishing GCxGC data: What are we doing well and what can we improve?
Moderators: Jef Focant & Giorgia Purcaro (University of Liège) | FG4: Mass spectrometry: a powerful third dimension, Peter Tranchida (University of Messina), Benedikt Weggler (University of Liège) |
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- 15:00** Coffee Break (Sponsored by Merck)
- 15:30 Laura McGregor** (SepSolve Analytical) - Simplifying GCxGC – Streamlined software for fast characterization of petrochemicals

- 15:50** **Michael Wilde** (University of Leicester) - Large-scale breath metabolomics by two-dimensional gas chromatography (GC×GC) with dual flame ionisation and mass spectrometric detection
- 16:10** **Lourdes Ramos** (Dpt. Instrum. Anal. & Environ. Chem., IQOG-CSIC) - Characterization of (semi-)volatile compounds migrating into food simulants from polypropylene food containers
- 16:20** **Christina Kelly** (LECO Corporation) - Developing a new GC×GC-TOFMS method for quantitation of biofuel components in jet fuel
- 16:40** **Delphine Zanella** (University of Liège) - Breath volatile organic compounds to improve clinical asthma management

January 23rd

- 9:00** Feedback from focus groups (30 min for each topic)
- 11:10** Coffee Break (Sponsored by Merck)
- 11:30** **Gauthier Eppe** (University of Liège) - Towards the use of ion mobility mass spectrometry-derived collision cross section as a screening approach for unambiguous identification of targeted pesticides in food
- 11:50** **Jan Leppert** (University of Bonn) - Simulation of thermal gradient separation as second dimension in a multidimensional GC-system
- 12:10** **Sjaak de Koning** (Da Vinci Laboratory Solutions) - Solid-state modulation: A new GC×GC thermal modulator, 15 years after Volendam
- 12:30** Closing
- 13:00** Depart for lab tour at the University of Liège Sart Tilman campus