SCIENTIFIC PROGRAM 21st GC×GC

Monday, May 18, 2026

08:30 – 08:45 **Opening Address 21st GC×GC - Room Garda**
Chairpersons:
Luigi Mondello
University of Messina, Italy

Philip Marriott
Monash University, Australia

08:45 – 10:50 **GC×GC Session 1 – Awards Presentation and Lectures**

08:45 – 09:00 **GC×GC Lifetime Achievement Award Presentation**
Sponsored by SepSolve Analytical, Markes International and LECO

09:00 – 09:20 **Le.01 Award Lecture**
LABRADOR VS. LABORATORY IN ARSON INVESTIGATIONS. GC×GC-TOFMS TO THE RESCUE
James Harynuk
University of Alberta, Alberta, Canada

09:20 – 09:40 **Le.02 Award Lecture**
TARGETED AND NON-TARGETED GC×GC-HRT INVESTIGATIONS OF DDT PESTICIDE MANUFACTURING WASTE PRODUCTS DUMPED OFF THE CALIFORNIA COAST
Robert K. Nelson
Woods Hole Oceanographic Institution, Woods Hole, USA

09:40 – 10:00 **Le.03 Award Lecture**
BEYOND PRETTY CHROMATOGRAMS: HOW GC×GC TRANSFORMED OIL SPILL SCIENCE
Christopher M. Reddy
Woods Hole Oceanographic Institution, Woods Hole, USA

10:00 – 10:10 **John Phillips Award Presentation**
Sponsored by LECO

10:10 – 10:30 **Le.04 Award Lecture**
GC×GC-MS: FROM METHOD DEVELOPMENT TO DATA PROCESSING, FROM ACADEMIA TO INDUSTRY: A FULL CIRCLE SCIENTIFIC JOURNEY
Meriem Gaida
Luzi AG, Zurich, Switzerland

10:30 – 10:50 **Le.05 Award Lecture**
FROM COMPLEX MIXTURES TO CLASSROOM: GC×GC MEASUREMENT SCIENCE FOR (MICRO) PLASTIC WASTE
Petr Vozka
California State University, Los Angeles, USA

10:50 – 11:20 **Coffee Break**

11:20 – 13:15 **GC×GC Session 2 – FUNDAMENTALS 1**
Room Garda
Chairpersons:
Robert E. Synovec, University of Washington, USA
Erwin Rosenberg, TU Wien, Austria

GC×GC Session 3 – FOOD
Room Dolomiti
Chairpersons:
Chiara Cordero, University of Turin, Italy
Peter Q. Tranchida, University of Messina, Italy

11:20

Le.06
INNOVATIONS IN GC×GC MODULATOR DESIGN WITH 3D PRINTING, AND SELECTED NOVEL APPLICATIONS
Philip Marriott[1,2]
[1]Monash University, Melbourne, Australia
[2]Universiti Sains Malaysia, Pulau Penang, Malaysia

Le.13
USING COMPREHENSIVE GCXGC TO IMPROVE THE SENSITIVITY AND TEMPORAL RESOLUTION IN FOOD FLAVOUR ANALYSIS
Hans-Gerd Janssen[1,2]
[1]Wageningen University and Research, Wageningen, The Netherlands
[2]Unilever Research, Wageningen, The Netherlands

11:40

Le.07
MODULATION IN GC×GC: A JOURNEY OVER THREE DECADES
Tadeusz Gorecki
University of Waterloo, Waterloo, Canada

Le.14
LC-GC(×GC) A POWERFUL TOOLBOX IN FOOD ANALYSIS
Giorgia Purcaro
Gembloux Agro-bio Tech, University of Liege, Gembloux, Belgium

12:00	**Le.08** **COMPREHENSIVE TWO DIMENSIONAL GAS CHROMATOGRAPHY VS MULTIPLEX GAS CHROMATOGRAPHY AKA CORRELATION CHROMATOGRAPHY – MICROBIAL VOC DETECTION AS A CASE STUDY** *Robert A. Shellie* *University of Tasmania, Launceston, Australia*	**Le.15** **COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY WITH SULFUR AND MASS SELECTIVE DETECTION FOR THE IDENTIFICATION OF ODOR ACTIVE SULFUR COMPOUNDS** *Erich Leitner* *Graz University of Technology, Institute of Analytical Chemistry and Food Chemistry, Graz, Austria*
12:15	**Le.09** **HYPERFAST COMPREHENSIVE GC: FUNDAMENTALS, EXPERIMENTAL SETUP AND MEASUREMENTS** *Peter Boeker* *University of Bonn, Bonn, Germany*	**Le.16** **CHARACTERIZATION AND QUANTIFICATION OF MINERAL OIL AROMATIC HYDROCARBONS (MOAH) BY NUMBER OF AROMATIC RINGS AND DEGREE OF ALKYLATION IN CONTAMINATED FOODS USING GC×GC-FID/MS** *Maurus Biedermann* *Official Food Control Authority of the Canton of Zurich, Zurich, Switzerland*
12:30	**Le.10** **METHOD TRANSLATION AND PERFORMANCE OF HYDROGEN CARRIER GAS FOR GC×GC** *Katelynn A. Perrault Uptmor* *William & Mary, Williamsburg, USA*	**Le.17** **GC×GC-TOFMS USE FOR THE INVESTIGATION OF CHEESE VOLATILOME COMPLEXITY** *Henryk H. Jeleń* *Poznań University of Life Sciences, Poznań, Poland*
12:45	**Le.11** **MINIATURIZATION OF COLUMNS FOR COMPREHENSIVE GC** *Pascal Cardinael* *University of Rouen Normandy, Rouen, France*	**Le.18** **A NOVEL ANALYTICAL SYSTEM FOR COMBINING ENANTIOSELECTIVE GC×GC-MS AND LOW-PRESSURE GC-MS THROUGH A SWITCHING VALVE** *Mariosimone Zoccali* *University of Messina, Messina, Italy*
13:00	**Le.12** **CHROMATOGRAPHIC FUSION: AN INTEGRATED WORKFLOW FOR GC×GC-FID/MS DATA** *Daniela Peroni* *SRA Instruments, Cernusco sul Naviglio, Italy*	**Le.19** **"PRENDIAMO UN CAFFÈ?" GCXGC-HRTOFMS ANALYSIS OF ROASTED COFFEE AROMA WITH AI-ASSISTED STRUCTURE ANALYSIS FOR UNKNOWN COMPOUNDS** *Robert B. Cody* *JEOL USA Inc., Peabody, USA*
13:15 – 14:15	**Lunch Break**	
14:15 – 16:10	**GC×GC Session 4 – ENVIRONMENTAL** **Room Garda** *Chairpersons: James Harynuk, University of Alberta, Canada* *Tadeusz Gorecki, University of Waterloo, Canada*	**GC×GC Session 5 – BIO-ANALYTICAL –ARTIFICIAL INTELLIGENCE** **Room Dolomiti** *Chairpersons:* *Philip Marriott, Monash University, Australia* *Mariosimone Zoccali, University of Messina, Italy*
14:15	**Le.20** **DETECTION OF ORGANOHALOGEN COMPOUNDS IN AN ARCHIVED SEDIMENT CORE SAMPLE OF THE JAPAN SEA USING GC×GC-HRTOFMS AND GC-HRMS** *Teruyo Ieda* *National Institute for Environmental Studies (NIES), Tsukuba, Japan*	**Le.27** **GC×GC-(HR)TOFMS VOLATOLOMICS: ADVANCES IN DISEASE DIAGNOSIS** *Jean-François Focant* *University of Liège, Liège, Belgium*
14:35	**Le.21** **ADVANCING POPS ANALYSIS THROUGH UNIFIED GC×GC-MS WORKFLOWS** *Flavio A. Franchina* *University of Ferrara, Ferrara, Italy*	**Le.28** **EARLY LIFE EXPOSURE TO MICROPLASTICS AND PLASTICS ADDITIVES STUDIED BY NOVEL COMPREHENSIVE TWO- AND THREE-DIMENSIONAL SEPARATION TECHNIQUES** *Karl J. Jobst* *Memorial University of Newfoundland, St. John's, Canada*
14:50	**Le.22** **AN AUTOMATED, RAPID, IN-SITU TECHNIQUE FOR AGING AND CHEMICAL EVALUATION OF HIGH EXPLOSIVES USING GC×GC-HRMS** *Chris Freye* *Los Alamos National Laboratory, Los Alamos, USA*	**Le.29** **DEVELOPMENT OF FULL MULTI-OMICS WORKFLOWS FOR MICROBIOME SAMPLES BY GC×GC-MS** *Pierre-Hugues Stefanuto* *University of Liège, Liège, Belgium*

15:05	**Le.23** **DETERMINATION OF EMERGENING CONTAMINANTS IN MUNICIPAL WASTEWATER BY COMPREHENSIVE TWO DIMENSIONAL GAS CHROMATOGRAPHY-ORBITRAP HIGH RESOLUTION MASS SPECTROMETRY** *Liu Xiangping* *Nanjing Municipal Center for Disease Control and Prevention, Nanjing, China*	**Le.30** **ONE SIZE FITS ALL: SMALL, REUSABLE PDMS BANDS CAPTURE THE HUMAN SKIN VOLATILOME TO FIND DIFFERENTIAL MARKERS OF DISEASE BY GC×GC-TOFMS** *Yvette Naude[1,2]* *[1]University of Pretoria, Pretoria, South Africa* *[2]University of Pretoria Institute for Sustainable Malaria Control (UPISMC), Pretoria, South Africa*
15:20	**Le.24** **TWO-DIMENSIONAL GAS CHROMATOGRAPHY AND HIGH-RESOLUTION MASS SPECTROMETRY FOR PFAS SUSPECT SCREENING IN ENVIRONMENTAL SAMPLES** *Anais Rodrigues* *LECO European Application & Technology Centre, Berlin, Germany*	**Le.31** **EMISSION OF VOLATILE ORGANIC COMPOUNDS FROM RAW MATERIALS POTENTIALLY USED IN HUMAN ODOR SAMPLING** *Jérôme Vial* *ESPCI, Paris, France*
15:35	**Le.25** **IDENTIFYING PREMATURE DETERIORATION IN CEMENTITIOUS MATERIALS USING VOLATILOMICS** *Jason Henry Ideker* *Oregon State University, Corvallis, USA*	**Le.32** **BRIDGING DIMENSIONS: HOW EXTENDED REALITY ENHANCES GCXGC-MS DATA VISUALISATION AND INTERPRETATION** *Michael Wilde* *University of Plymouth, Plymouth, United Kingdom*
15:50	**Le.26** **CONTINUOUS JET-MODULATED HEART-CUTTING EVOLVED GAS ANALYSIS FOR POLYMER CHARACTERIZATION** *Matthew Edwards* *SepSolve Analytical Ltd and Markes International, Peterborough, United Kingdom*	**Le.33** **PRELIMINARY FEATURE EXTRACTION ALGORITHM FOR COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY** *Leandro Wang Hantao* *University of Campinas, Campinas, Brazil*
16:10 – 16:40	**Coffee Break**	
16:40 – 18:50	**GC×GC Young Session 1** **Room Garda** *Chairpersons:* *Hans-Gerd Janssen, Wageningen University and Research, The Netherlands* *Flavio A. Franchina, University of Ferrara, Italy*	**GC×GC Young Session 2** **Room Dolomiti** *Chairpersons:* *Jean-François Focant, University of Liège, Belgium* *Katelynn A. Perrault Uptmor, William & Mary, USA*
16:40	**YLe.01** **NEW DATA ANALYSIS WORKFLOW FOR THE IDENTIFICATION AND PRIORITIZATION OF NEUTRAL PFAS IN ENVIRONMENTAL SAMPLES BY GC×GC-MS** *Nadine Gawlitta[1,2]* *[1]Technical University of Denmark, Lyngby, Denmark* *[2]University of Copenhagen, Frederiksberg, Denmark*	**YLe.14** **COMBINING GC-HRMS AND GC×GC-HRMS FOR COMPREHENSIVE ANALYSIS OF BREAST SKIN VOLATILE ORGANIC COMPOUNDS DURING PREGNANCY** *Serena Reale* *University of Pisa, Pisa, Italy*
16:50	**YLe.02** **GC×GC×CIMS: A COMPREHENSIVE THREE-DIMENSIONAL SEPARATION TECHNIQUE THAT WILL ACCELERATE THE DISCOVERY OF UNDOCUMENTED PER-/POLYFLUOROALKYL SUBSTANCES** *Emmanuel C. Tolefe* *Memorial University of Newfoundland, St Johns, Canada*	**YLe.15 Genzo Shimadzu selected young lecture** **UNVEIL THE TOXICOLOGICALLY RELEVANT FRACTION OF MINERAL OIL BY ON-COLUMN GC×GC** *Damien Pierret* *Gembloux Agro-bio Tech, University of Liege, Gembloux, Belgium*
17:00	**YLe.03** **ADVANCED CHARACTERIZATION OF CONVENTIONAL AND SUSTAINABLE AVIATION FUELS USING COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY** *Nathan De Souza Coelho* *UFMG, Belo Horizonte, Brazil*	**YLe.16** **DIVING INTO TIRE WEAR PARTICLES' COMPOSITION USING PYROLYSIS COUPLED TO COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY-(PI/EI) TIME OF FLIGHT MASS SPECTROMETRY** *Géraldine Dumont[1,2]* *[1]University of Liège, Liège, Belgium* *[2]Flemish Institute for Technological Research (VITO), Mol, Belgium*

17:10	**YLe.04** **USING COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY TO UNVEIL LIPID DEOXYGENATION REACTION INTERMEDIATES IN DROP-IN BIOFUELS PROCESS DEVELOPMENT** *Joana Fernandes* *IFP Energies Nouvelles, Solaize, France*	**YLe.17** **CHARACTERIZATION OF THE VOLATILE FRACTION OF USED WIND TURBINE BLADE PYROLYSIS OIL BY TWO-DIMENSIONAL GAS CHROMATOGRAPHY** *Titziana Orlando[1,2]* *[1]Université de Liège, Liège, Belgium* *[2]Université de Pau et des Pays de L'adour (UPPA), Pau, France*
17:20	**YLe.05** **ANALYTICAL WORKFLOW FOR PARALLEL ANALYSIS OF MINERAL OIL AND PAHS BY HPLC/GC×GC-TOFMS/FID** *Carlo Bellinghieri* *University of Ferrara, Ferrara, Italy*	**YLe.18** **DETAILED CHARACTERIZATION AND CLASSIFICATION OF WASTE TIRE PYROLYSIS OILS FOR HETEROATOM-CONTAINING COMPOUNDS USING GC×GC/TOFMS AND CHEMOMETRIC ANALYSIS** *Xiangdong Chen[1,2]* *[1]LSABM-ESPCI, Paris, France* *[2]MFP Michelin, Clermont-Ferrand, France*
17:30	**YLe.06** **BEYOND CONVENTIONAL APPROACHES: GC×GC-MS AS A BREAKTHROUGH TOOL FOR ALLERGEN QUANTIFICATION AND CHARACTERIZATION OF NATURAL COMPLEX SUBSTANCES** *Elsa Boudard* *Givaudan, Regulatory Affairs - Product Safety Science, Geneva, Switzerland*	**YLe.19** **ADVANCED GC×GC-HRMS PROFILING OF OXYGENATED SPECIES IN CO-PROCESSING PETROGENIC AND BIOGENIC STREAMS IN THE FCC PROCESS** *Vinícius Pereira* *Universidade Federal Do Rio De Janeiro, Rio De Janeiro, Brazil*
17:40	**YLe.07** **DILUTE-AND-INJECT GC×GC–TOFMS FOR UNTARGETED AND TARGETED (PRE- AND POST-) ANALYSIS OF EXTRA-VIRGIN OLIVE OIL: A PRELIMINARY STUDY** *Micaela Galletta* *University of Messina, Messina, Italy*	**YLe.20** **FORENSIC MOLECULAR GEOCHEMISTRY: A CASE STUDY OF AN OIL SPILL ON THE BRAZILIAN COAST** *Flavia Rodrigues Alvares* *UFRJ, Institute of Chemistry, Rio De Janeiro, Brazil*
17:50	**YLe.08** **QUALITY ASSESSMENT OF BRAZILIAN OLIVE OILS BY GC×GC-MS AND CHEMOMETRICS** *Glaucimar Alex Passos De Resende* *Uliège, Liège, Belgium*	**YLe.21 Genzo Shimadzu selected young lecture** **GC×GC-MS-BASED NON-TARGET SCREENING OF HOUSE DUST FROM SEVEN EUROPEAN COUNTRIES** *Andriy Rebryk* *Vrije Universiteit Amsterdam, Amsterdam, The Netherlands*
18:00	**YLe.09** **GEOGRAPHICAL DISCRIMINATION OF HONEY SAMPLES FROM THE 23 VIENNESE DISTRICTS EMPLOYING COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY-MASS SPECTROMETRY** *Natalia Manousi* *TU Wien, Vienna, Austria*	**YLe.22** **ALIGNING PHYSIOLOGICAL AND INSTRUMENTAL SENSITIVITY IN AI-DRIVEN VOLATILOMICS VIA GC×GC–HRMS** *Andrea Caratti* *University of Turin, Turin, Italy*
18:10	**YLe.10** **DIRECT LIQUID INJECTION IN GC×GC–QTOF QUALITY PROFILING OF COMMERCIAL WHISKIES** *Brian Van 't Veer* *Wageningen University & Research, Wageningen, The Netherlands*	**YLe.23** **TOWARD ROBUST COMPREHENSIVE GC×GC COMBUSTION ISOTOPE RATIO MASS SPECTROMETRY: DEVELOPMENT OF NICKEL-WALL COATED MICROREACTORS** *Habib Al-ghoul* *Technical University of Munich, Munich, Germany*
18:20	**YLe.11** **CROSS-SECTIONAL AND LONGITUDINAL VOLATILOMIC PROFILING OF BALSAMIC VINEGARS BY HS-SPME-GC×GC-TOFMS** *Allan Dos Santos Polidoro* *Università degli Studi di Ferrara, Ferrara, Italy*	**YLe.24** **A DOE-BASED APPROACH TO ASSESS RETENTION INDICES VARIABILITY IN GC×GC ACROSS COLUMN PHASES AND OPERATING CONDITIONS** *Djulia Bensaada* *University of Liège, Liège, Belgium*
18:30	**YLe.12 Genzo Shimadzu selected young lecture** **METABOLOMIC PROFILING FOR SPECIES-LEVEL IDENTIFICATION OF SPF WOOD USING GC×GC-TOFMS** *Ewenet Yemane Mesfin* *University of Alberta, Alberta, Canada*	**YLe.25** **OPTIMIZATION OF DIRECT THERMAL EXTRACTION PARAMETERS FOR ANALYSIS OF HIGH-WATER CONTENT SAMPLES USING COMPREHENSIVE TWO-DIMENSIONAL GA** **S CHROMATOGRAPHY** *Jenna Diefenderfer[1,2]* *[1]Arizona State University, Tempe, USA* *[2]The Biodesign Institute, Tempe, USA*

18:40	**YLe.13 Genzo Shimadzu selected young lecture** **SOLID-PHASE MICROEXTRACTION ARROW COMBINED WITH COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY–MASS SPECTROMETRY FOR THE ELUCIDATION OF THE VOLATILE PROFILE OF PLANT-BASED PROTEIN POWDERS** *Apostolia Tsiasioti[1,2]* *[1]Aristotle University of Thessaloniki, Thessaloniki, Greece* *[2]TU Wien, Vienna, Austria*	**YLe.26** **ION APPROACH IN MOLECULAR INVESTIGATION OF MULTIDIMENSIONAL DATA: A NOVEL WAY TO ACCELERATE RESULTS** *Dayane Magalhães Coutinho* *Federal University of Rio De Janeiro, Rio De Janeiro, Brazil*
19:00	**Welcome Reception Cocktail offered by Chromaleont, RIC Group and SPECTRA Analyisis**	

Tuesday, May 19, 2026

09:00 – 10:35		**Opening Address 44th ISCC - Room Garda** **ISCC Session 1 – Awards Presentation and Lectures** *See ISCC program for details*
10:35 – 11:05	**Coffee Break – Exhibition**	
11:05 – 13:00	**GC×GC Session 6 – FUNDAMENTALS 2 AND FOOD 2** **Room Dolomiti** *Chairpersons:* *Giorgia Purcaro, Gembloux Agro-bio Tech, Belgium* *Leandro Wang Hantao, University of Campinas, Brazil*	**ISCC Session 2 – NANO AND CAPILLARY LIQUID CHROMATOGRAPHY** **Room Garda** *See ISCC program for details*
11:05	**Le.34** **BEYOND RESOLUTION: GC×GC AS AN ENABLER OF PREDICTIVE, PURPOSE-DRIVEN ANALYTICAL SCIENCE** *Chiara Cordero* *University of Turin, Turin, Italy*	
11:25	**Le.35** **MAJOR BENEFITS OF USING COMPREHENSIVE 2D GAS CHROMATOGRAPHY-MASS SPECTROMETRY IN FOOD ANALYSIS** *Peter Q. Tranchida* *University of Messina, Italy*	
11:45	**Le.36** **TRANSFERABILITY OF MOAH ANALYSIS FROM THERMAL-MODULATED TO FLOW-MODULATED GCXGC** *Nancy Wolf* *Laboratory Lommatzsch & Säger, Radebeul, Germany*	
12:00	**Le.37** **MINIATURIZED LIQUID-LIQUID EXTRACTION (LLE)-GC×GC-MS/FID APPROACH FOR SELECTIVE ENRICHMENT AND DETAILED CHARACTERIZATION OF ≥3-RING MOAH IN COMPLEX MINERAL OIL MIXTURES** *Laura Barp* *University of Udine, Udine, Italy*	
12:15	**Le.38** **EVOLVING THE UBIQUITOUS BENCHTOP GC/MS – HOW CONSTANT FLOW SPLITTING AND LOW-COST FLOW MODULATION CAN BRING QUANTITATIVE GCXGC-FID/MSD TO ANY BENCH** *Scott James Hoy* *Agilent Technologies, Wilmington, USA*	
12:30	**Le.39** **ISOLATION STRATEGIES FOR TRI-/POLYAROMATIC HYDROCARBONS AND DETERMINATION VIA GCXGC-MS/FID** *Martin Lommatzsch* *Laboratory Lommatzsch and Säger Gmbh, Cologne, Germany*	

12:45	**Le.40** **A NEW EUROPEAN GUIDANCE DOCUMENT ON CHARACTERIZATION OF MOSH AND MOAH BY GC×GC FOR THE HARMONIZATION OF THE ANALYSIS OF MINERAL OIL HYDROCARBON CONTAMINATION IN FOODS** *Alexander Montoya-arroyo[1,2]* *[1] Technical University of Denmark, Kgs Lyngby, Denmark* *[2] European Union Reference Laboratory for Processing Contaminants (EURL-PC), Kgs Lyngby, Denmark*	
13:00 – 14:00	**Lunch Break on your own**	
14:00 – 15:20	**GC×GC Session 7 – PETROCHEMICAL** **Room Dolomiti** *Chairpersons:* *Robert A. Shellie, University of Tasmania, Australia* *Robert K. Nelson, Woods Hole Oceanographic Institution, USA*	**ISCC Session 3 – MULTIDIMENSIONAL AND OTHER COMPREHENSIVE TECHNIQUES** **Room Garda** *See ISCC program for details*
14:00	**Le.41** **ADAPTING TILE-BASED DISCOVERY ANALYSIS FOR COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY WITH VACUUM ULTRAVIOLET SPECTROSCOPY (GC×GC-VUV) DATA OF GAS OILS** *Robert E. Synovec* *University of Washington, Seattle, USA*	
14:20	**Le.42** **PREDICTING THE PROPERTIES OF SUSTAINABLE AVIATION FUELS FROM THEIR COMPREHENSIVE ANALYSIS BY GC×GC/MS** *Erwin Rosenberg* *TU Wien, Vienna, Austria*	
14:35	**Le.43** **THE RESURGENCE OF GC(×GC) IN FUEL ANALYSIS – NEW CHALLENGES IN THE ASSESSMENT OF EMERGING SYNTHETIC FUELS** *Thomas Gröger* *German Aerospace Center (DLR), Stuttgart, Germany*	
14:50	**Le.44** **HOW GC×GC DE-RISKS THE INDUSTRIAL ENERGY TRANSITION: FROM PETROLEUM TO BEYOND** *Marco Piparo* *Totalenergies, Rorgerville, France*	
15:05	**Le.45** **GC×GC-TOFMS INSIGHTS INTO AIRCRAFT ENGINE EXHAUST EMISSIONS FROM SUSTAINABLE AVIATION FUELS** *Barbara Giocastro* *German Aerospace Center (DLR), Stuttgart, Germany*	
15:20 – 16:50	**Coffee Break – Exhibition – Vendor Seminars – Posters**	
15:45 – 16:45	**Room Garda** **Seminar** **LECO**	**Room Dolomiti** **Seminar** **SPECTRA ANALYSIS**

16:50 – 18:35	**GC×GC Session 8 – INDUSTRY – VOCs** **Room Dolomiti** *Chairpersons:* *Thomas Gröger, German Aerospace Center (DLR), Stuttgart, Germany* *John Dimandja, Georgia Institute of Technology, USA*	**ISCC Session 4 – SUPERCRITICAL FLUID CHROMATOGRAPHY – CONTAMINANTS** **Room Garda** *See ISCC program for details*
16:50	**Le.46** **SPECIATION OF N-, O-, AND CL-CONTAMINANTS IN DISTILLED FRACTIONS OF PLASTIC PYROLYSIS OIL: DISTINCT ANALYTICAL METHODS FOR EACH ELEMENT** *Bruno Da Costa Magalhaes* *The Dow Chemical Company, Hoek, The Netherlands*	
17:05	**Le.47** **IMPROVED CHARACTERIZATION OF VOCS IN VIRGIN AND RECYCLED PLASTICS VIA HS SPME AND GC×GC-MS ANALYSIS** *Marco Beccaria* *Totalenergies, Seneffe, Belgium*	
17:20	**Le.48** **CHARACTERIZING SUSTAINABLE AVIATION FUELS: ANALYTICAL CHALLENGES AND OPPORTUNITIES USING GC×GC-VUV** *Max Jennerwein* *ASG Analytik-service, Neusaess, Germany*	
17:35	**Le.49** **AUGMENTING CHEMICAL RECYCLING VIA DATA-DRIVEN MODEL FOR GC×GC BASED GROUP-TYPING ANALYSIS** *Anupam Giri* *SABIC, Bergen Op Zoom, The Netherlands*	
17:50	**Le.50** **COMPARATIVE PROFILING OF OUD (AGARWOOD) SMOKE EMISSIONS USING TD–GC×GC–TOF MS** *Luciana Da Costa Carvalho* *University of Oxford, Oxford, United Kingdom*	
18:05	**Le.51** **DIGITAL SCENT SIGNATURE** *Stepan Urban* *University of Chemistry and Technology, Prague, Czech Republic*	
18:20	**Le.52** **IMPROVING SENSORY–CHEMICAL ASSIGNMENTS IN GC–O WORKFLOWS WITH TRAP-BASED ENRICHMENT AND GC×GC** *Laura Mcgregor* *Sepsolve Analytical, Peterborough, United Kingdom*	

18:35 – 18:50 **Closing Address 21st GC×GC – Room Dolomiti**
Chairpersons:

Luigi Mondello, University of Messina, Italy
Philip Marriott, Monash University, Australia

Presentation of the:
RICHARD SACKS BEST POSTER AWARDS (sponsored by LECO)
GENZO SHIMADZU Oral Awards (Young Scientists)
ABC Springer Best Poster Award (Young Scientists)
Separations MDPI Best Oral GC×GC Award (Young Scientists)