SCIENTIFIC PROGRAM 44th ISCC

Tuesday, May 19, 2026

09:00 – 09:25 **Opening Address 44th ISCC - Room Garda**
Chairpersons:
Luigi Mondello
University of Messina, Italy
Pat Sandra
RIC Group, Belgium
Alessio Zanoni
Mayor of Riva del Garda, Italy

09:25 – 10:35 **ISCC Session 1 – Awards Presentation and Lectures**

09:25 – 09:35 **M.J.E. Golay Award Presentation**
Sponsored by Chromaleont and RIC Group
Chairperson:
Pat Sandra
RIC Group, Belgium

09:35 – 10:00 **LE.01 M.J.E. Golay Award Lecture**
PLANT VOLATILES AND CAPILLARY GAS CHROMATOGRAPHY: A NEVER-ENDING STORY OF CONTINUOUS INNOVATION
Carlo Bicchi
University of Turin, Turin, Italy

10:00 – 10:10 **ASAC Fritz Pregl Medal Presentation**
Assigned by Austrian Society of Analytical Chemistry (ASAC)
Chairperson:
Christian W. Klampfl
Johannes Kepler University, Austria

10:10 – 10:35 **LE.02 ASAC Fritz Pregl Medal Lecture**
MICROANALYSIS EMPLOYING MICROSCALE CHROMATOGRAPHY AND MASS SPECTROMETRY: KEY TECHNOLOGIES FOR LISTENING TO COMMUNICATION IN BIOLOGICAL SYSTEMS
Christian Huber
University of Salzburg, Salzburg, Austria

10:35 - 11:05 **Coffee Break - Exhibition**

11:05 – 13:00 **ISCC Session 2 – NANO AND CAPILLARY LIQUID CHROMATOGRAPHY**
Room Garda
Chairpersons:
Michael Ramsey, The University of North Carolina at Chapel Hill, USA
Christian Huber, University of Salzburg, Austria

GC×GC Session 6 – FUNDAMENTALS 2
Room Dolomiti

See GC×GC program for details

11:05 **LE.03**
FUTURE TRENDS IN CAPILLARY NANO-HPLC COLUMN TECHNOLOGY
Gert Desmet
Vrije Universiteit Brussel, Brussel, Belgium

11:25 **LE.04**
NEW APPROACHES TO CAPILLARY LC COLUMN DEVELOPMENT
James Grinias
Rowan University, Glassboro, USA

11:45	**LE.05** **PORTABLE CAPILLARY LIQUID CHROMATOGRAPHY: NEW ENABLING TECHNOLOGIES FOR REAL-TIME ON-SITE AND IN-SITU CHEMICAL ANALYSIS** *Brett Paull* *University of Tasmania, Hobart, Australia*	
12:00	**LE.06** **TRANSFERABILITY OF A QSRR MODELLING STRATEGY ACROSS COLUMN DIMENSIONS AND INSTRUMENTAL CONFIGURATIONS** *Francesca Rigano* *University of Messina, Messina, Italy*	
12:15	**LE.07** **DUAL CAPILLARY ION CHROMATOGRAPHY-MASS SPECTROMETRY FOR THE ANALYSIS OF 26 INORGANIC AND ORGANIC IONS IN HIGH-RESOLVED ANTARCTIC ICE CORE: CONCENTRATIONS, TRENDS, AND SYNERGIES** *Estrella Sanz Rodriguez* *University of Tasmania, Hobart, Australia*	
12:30	**LE.08** **WALL-INDUCED DISPERSION IN MULTICAPILLARY OPEN TUBULAR LC COLUMNS ENABLING TRANSVERSE DIFFUSION** *Alessandra Adrover* *Sapienza University of Rome, Rome, Italy*	
12:45	**LE.09** **ENHANCING ANALYTICAL PERFORMANCE: THE ROLE OF SMALL ID COLUMNS AND INERT HARDWARE IN HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY** *Egidijus Machtejevas* *Merck Life Science KGaA, Darmstadt, Germany*	
13:00 - 14:00	**Lunch Break**	
14:00 - 15:20	**ISCC Session 3 – MULTIDIMENSIONAL AND OTHER COMPREHENSIVE TECHNIQUES** **Room Garda** *Chairpersons:* *Paola Donato, University of Messina, Italy* *Koen Sandra, RIC Group, Belgium*	**GC×GC Session 7 – PETROCHEMICAL** **Room Dolomiti** *See GC×GC program for details*
14:00	**LE.10** **COUPLING LC×LC AND GC WITH SLIM-QTOF-MS FOR A POWERFUL ORTHOGONAL TWO-DIMENSIONAL SEPARATION OF COMPLEX SAMPLES** *Oliver Schmitz* *University of Duisburg-Essen, Essen, Germany*	
14:20	**LE.11** **BIOAVAILABILITY AND METABOLITE PROFILING OF A NEUROPROTECTIVE TANNAT GRAPE POMACE EXTRACT AFTER IN-VITRO SIMULATED DIGESTION** *Miguel Herrero* *Institute of Food Science Research - CIAL (CSIC), Madrid, Spain*	

14:35	**LE.12** **APPLICATION OF MULTIDIMENSIONAL CHROMATOGRAPHIC TECHNIQUES TO THE STUDY OF THE STEROLS CONTENT IN HIGH VALUE EDIBLE OILS** *Pierluigi Delmonte* *US Food and Drug Administration, College Park, USA*	
14:50	**LE.13** **ADDRESSING THE PURITY-YIELD TRADE-OFF IN OLIGONUCLEOTIDE PURIFICATION BY INTEGRATED TWO-DIMENSIONAL CHROMATOGRAPHY ON SEMI-PREPARATIVE SCALE** *Chiara De Luca* *University of Ferrara, Ferrara, Italy*	
15:05	**LE.14** **APPLICATION OF ONLINE COUPLED LC-GC-FID TO DETERMINE SPECIFIC MIGRATION OF POTENTIALLY HARMFUL CYCLIC SILOXANES FROM FOOD CONTACT SILICONE ELASTOMERS** *Martin Eckardt* *Laboratory Lommatzsch and Säger Gmbh, Cologne, 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	**ISCC Session 4 – SUPERCRITICAL FLUID CHROMATOGRAPHY AND CONTAMINANTS** **Room Garda** *Chairpersons:* *Fabrice Gilles Ernest Gritti, Waters Corporation, USA* *Rosa Maria Marcé, Universitat Rovira i Virgili, Spain*	**GC×GC Session 8– INDUSTRY - VOCs** **Room Dolomiti** *See GC×GC program for details*
16:50	**LE.15** **IMPROVING THE GREENNESS OF SFC SEPARATIONS FOR THE ANALYSIS OF NATURAL SAMPLES** *Paola Donato* *University of Messina, Messina, Italy*	
17:05	**LE.16** **DEVELOPMENT AND OPTIMIZATION OF A 2D SFC SYSTEM IN MULTIPLE HEART-CUT MODE** *Clément De Saint Jores* *Université D'orléans, Orléans, France*	
17:20	**LE.17** **THERMODYNAMIC ASPECTS IN SUPERCRITICAL FLUID CHROMATOGRAPHY FOR CHIRAL SEPARATIONS** *Simona Felletti* *University of Ferrara, Ferrara, Italy*	
17:35	**LE.18** **IS SFC A GREENER, ECO-FRIENDLY AND COST-EFFECTIVE CHROMATOGRAPHY TECHNIQUE?** *Gerard Rosse* *PIC Solution, Inc., San Diego, USA*	

17:50	**LE.19** **ARE THERE ANY BENEFITS WITH PFAS TESTED CONSUMABLES?** *Patrik Appelblad* *Merck Life Science Oslo, Norway*	
18:05	**LE.20** **BEYOND QUANTIFICATION: LINKING CHEMICAL CHARACTERIZATION AND GENOTOXICITY IN MOSH/MOAH ASSESSMENT** *Andrea Hochegger* *University of Technology Graz, Graz, Austria*	
18:20	**LE.21** **COMPLEMENTARITY OF GC-ORBITRAP-HRMS AND GC×GC-TOF-MS FOR THE COMPREHENSIVE CHARACTERIZATION OF INTENTIONALLY AND NON-INTENTIONALLY ADDED SUBSTANCES IN BIO-BASED FOOD CONTACT MATERIALS** *Maurizio Piergiovanni* *University of Parma, Parma, Italy*	
19:00	**Cocktail offered PeakScientific, Congress Centre**	

Wednesday, May 20, 2026

09:00 – 10:50	**ISCC Session 5 - CAPILLARY GC 1** **Room Garda** *Chairpersons:* *Chiara Cordero, University of Turin, Italy* *Nicholas Snow, Seton Hall University, USA*	**ISCC Session 6 – HYPHENATED TECHNIQUES** **Room Dolomiti** *Chairpersons:* *Oliver Schimtz, University of Duisburg-Essen, Germany* *James Grinias, Rowan University, USA*
09:00	**LE.22** **FROM FLAME TO FAME: STRATEGIES TO ELEVATE THE SENSITIVITY AND RELIABILITY OF GC-FID** *Jim Luong[1,2]* *[1]Dow Chemical Canada, Fort Saskatchewan, Canada* *[2]University of Tasmania, Hobart, Australia*	**LE.29** **HIGH THROUGHPUT METABOLOMICS WITH MICROCHIP CE-MS AND AUTOMATED ANALYSIS** *Michael Ramsey[1,2]* *[1]The University of North Carolina at Chapel Hill, Chapel Hill, USA* *[2]Move Analytical, Carrborro, USA*
09:20	**LE.23** **IMPROVING CHIRAL SEPARATION OF TERPENES IN CITRUS ESSENTIAL OILS BY USING CONVENTIONAL AND TANDEM CHIRAL COLUMNS** *Danilo Sciarrone* *University of Messina, Messina, Italy*	**LE.30** **COLD EI – THE WAY TO IMPROVE GC-MS AND INCREASE ITS RANGE OF APPLICATIONS** *Aviv Amirav* *Tel Aviv University, Tel Aviv, Israel*
09:35	**LE.24** **AN ULTIMATE ANALYTICAL CHALLENGE: GC-BASED MOLECULAR CHARACTERIZATION OF NITROGEN- AND OXYGEN-RICH BIO-OILS** *Jan H Christensen* *University of Copenhagen, Frederiksberg, Denmark*	**LE.31** **INVESTIGATION OF TRANSITION METAL COMPLEXES BY COMBINING HPLC, ION MOBILITY AND HIGH RESOLUTION MASS SPECTROMETRY** *Christian W Klampfl* *Johannes Kepler University, Linz, Austria*
09:50	**LE.25** **GC-HRMS-BASED METABOLOMICS WITH CHEMOMETRIC DISCRIMINATION OF TREATMENT EFFECTS IN CANNABIS SATIVA** *Michal Stupák* *UCT Prague, Prague, Czech Republic*	**LE.32** **13C TRACER ANALYSIS FOR MICROBIAL METABOLOMICS: THE ROLE OF GC-(Q)TOFMS IN IDENTIFYING PATHWAYS FOR CO2 FIXATION** *Christina Troyer* *BOKU University, Vienna, Austria*
10:05	**LE.26** **COMPOUND-SPECIFIC ISOTOPE ANALYSIS BY GAS CHROMATOGRAPHY–COMBUSTION–CAPILLARY ABSORPTION SPECTROSCOPY (GC-C-CAS) FOR EDIBLE OIL AUTHENTICATION** *Taylor Hayward* *Activated Research Company, Eden Prairie, United States*	**LE.33** **HIGH-RESOLUTION MASS SPECTROMETRY WORKFLOW FOR PENDIMETHALIN BIOTRANSFORMATION PATHWAY ELUCIDATION IN THE ZEBRAFISH MODEL** *Federico Fanti* *University of Teramo, Teramo, Italy*
10:20	**LE.27** **A POLAR GAS PHASE APPROACH FOR DIRECT GC–MS ANALYSIS OF PRIMARY AND SECONDARY AMINES** *Vladimir Shulaev* *University of North Texas, Denton, USA*	**LE.34** **EVALUATION OF GREEN SOLVENTS RETENTION BEHAVIOUR IN REVERSED-PHASE HPLC FOR THE ANALYSIS OF CONTAMINANTS** *Danilo Donnarumma* *University of Messina, Messina, Italy*
10:35	**LE.28** **THE BODY SCENT AS A NON-INVASIVE INDICATOR OF A WOMAN'S AGE** *Veronika Škeříková* *UCT Prague, Prague, Czech Republic*	**LE.35** **COMBINING INFORMATION FROM MULTIPLE STATIONARY PHASES AND IN-SOURCE FRAGMENTATION DATA FOR THE UNAMBIGUOUS HRMS-BASED PROFILING OF OXYSTEROLS IN HEALTHY AND PANCREATIC TUMOUR CELLS** *Andrea Castellaneta* *University of Bari Aldo Moro, Bari, Italy*
10:50 – 12:30	**Coffee Break – Vendor Seminars – Exhibition – Posters**	

10:50 – 11:50	**Room Garda** **Seminar** **SHIMADZU**	**Room Dolomiti** **Seminar** **RESTEK**
	Room Belvedere RIVA **Seminar** **ENTECH INSTRUMENTS**	
11:50 – 12:50	**Room Garda** **Seminar** **LNI SWISSGAS**	**Room Dolomiti** **Seminar** **GERSTEL** *SBSE performance enhancement: New phase materials widen the polarity range.* Frank Jacobs
	Room Belvedere RIVA **Seminar** **NIMFAST TECHNOLOGIES** *DUO-Thru® microfluidics — Explore new experiences of capillary column connect and multi-dimensional GC.* Zhijun Zhao	

12:30 – 13:30 **IUPAC Project Round Table Discussion: Greenness of official sample preparation methods**
Room Dolomiti

Moderator:
Prof. Elia Psillakis, *Technical University of Crete, Greece*
Panelists:
Prof. Stig Pedersen-Bjergaard *University of Oslo, Norway*
Prof. František Švec *Charles University, Czech Republic*
Dr. Björn Erxleben *Shimadzu Europa, Germany*
Dr. Frank Michel *Merck KGaA, Germany*
Dr. Massimo Santoro *Markes International, UK*

12:30 – 14:00 **Lunch Break**

14:00 – 15:20	**ISCC Session 7 – COLUMN TECHNOLOGY** **Room Garda** *Chairpersons:* *Gert Desmet, Vrije Universiteit Brussel, Belgium* *František Švec, Charles University, Czech Republic*	**ISCC Session 8 – BIO/PHARMA** **Room Dolomiti** *Chairpersons:* *Elena E. Stashenko, Universidad Industrial de Santander, Colombia* *Guowang Xu, Dalian Institute of Chemical Physics, China*
14:00	**LE.36** **SLALOM CHROMATOGRAPHY RETURNS: POWERING BREAKTHROUGHS IN LARGE DNA/RNA CHARACTERIZATION FOR CELL AND GENE THERAPY** *Fabrice Gilles Ernest Gritti* *Waters Corporation, Milford, USA*	**LE.41** **HIGH THROUGHPUT LIQUID CHROMATOGRAPHY** *Robert Kennedy* *University of Michigan, Ann Arbor, USA*
14:20	**LE.37** **ULTRA-LOW BLEED AND HIGH INERTNESS IN THE NEXT GENERATION OF 5%-PHENYL GC COLUMNS: IMPROVING TRACE-LEVEL QUANTIFICATION IN GC/MS**	**LE.42** **ANALYSIS OF OLIGONUCLEOTIDES BY HPLC-UV AND HPLC-MS WITHOUT USING TOXIC ORGANIC SOLVENTS AND ADDITIVES OR INVOLATILE BUFFERS IN THE MOBILE PHASE**

	Gustavo Serrano Izaguirre *Agilent Technologies, Wilmington, USA*	*David Victor McCalley* *UWE Bristol, United Kingdom*
14:35	**LE.38** **EXPLORING RETENTION PROPERTIES AND SELECTIVITY OF DIFFERENT STATIONARY PHASES FOR THE CHARACTERIZATION OF NATURAL EXTRACTS THROUGH ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED TO HIGH RESOLUTION MASS SPECTROMETRY** *Martina Catani* *University of Ferrara, Ferrara, Italy*	**LE.43** **DEVELOPMENT OF VALIDATED PROTOCOL BASED ON MICRO-SPE SAMPLE PREPARATION AND HPLC-MS/MS ANALYSIS FOR MONITORING OF TOFACITINIB, UPADACITINIB AND FILGOTINIB LEVELS IN THE SERUM OF PATIENTS TREATED FOR INFLAMMATORY BOWEL DISEASE** *Peter Bystricky* *Faculty of Pharmacy Comenius University in Bratislava,Bratislava, Slovakia*
14:50	**LE.39** **TRIMAX DEACTIVATION: ADVANCEMENTS IN LOW-LEVEL ANALYSIS FOR CAPILLARY GAS CHROMATOGRAPHY** *Victoria R Zeger* *Restek Corporation, Bellefonte, United States*	**LE.44** **FETAL EXPOSURE TO DRUGS OF ABUSE: A COMPARATIVE STUDY BETWEEN MATERNALSELF-REPORT AND THE PRESENCE OF SUBSTANCES IN BIOLOGICAL SAMPLES** *Bruno Spinosa De Martinis* *University of Sao Paulo, Brazil*
15:05	**LE.40** **WEAK Π INTERACTIONS AS A DRIVING FORCE IN ADVANCED LIQUID CHROMATOGRAPHIC SEPARATIONS** *Takuya Kubo* *Kyoto Prefectural University, Kyoto, Japan*	**LE.45** **HOW NATURAL DEEP EUTECTIC SOLVENTS SHAPE THE LC–HRMS CHROMATOGRAPHIC FINGERPRINTS OF BIOACTIVE NATURAL PRODUCTS** *Gerardo Alvarez Rivera* *Universidade de Santiago de Compostela, Santiago de Compostela, Spain*
15.20 – 16:40	**Coffee Break – Seminars – Exhibition – Posters**	
15:40 – 16:40	**Room Garda** **Seminar** **AGILENT** *GC×GC and the Future of Cleaner Aviation.* Julio Llorca Porcel *Method Optimization and Workflow Strategies for Achieving Long-Term Success with Practical Flow-Modulated GCxGC.* Scott Hoy	**Room Dolomiti** **Seminar** **VUV Analytics** *Title: From Photons to Insights: the expanding role of Vacuum Ultraviolet (VUV) Spectroscopy in Today's lab.* Sean Jameson
	Room Riva **Seminar** **Da Vinci** *Double your GC Capability without a second GC.* Balt Hagens	
16:40 – 18.10	**ISCC Young Scientists 1** **Room Garda** *Chairpersons:* *Marco Gomes Da Silva, NOVA University Lisbon, Portugal* *Marco Beccaria*, *Totalenergies, Belgium*	**ISCC Young Scientists 2** **Room Dolomiti** *Chairpersons:* *Erica Liberto, University of Turin, Italy* *Martina Catani, University of Ferrara, Italy*
16:40	**YLE.01** **INCREASING DETECTION SENSITIVITY IN GAS CHROMATOGRAPHY BY COOLING A NANO-GRAVIMETRIC DETECTOR** *Ambroisine Michel* *Institut des Sciences Analytiques, Villeurbanne,*	**YLE.10** **COMPLEMENTARY VOLATILOMIC PROFILING OF UNESCO RECOGNIZED KHAWLANI ARABICA COFFEE BY GC–EI–QTOF AND ATMOSPHERIC-PRESSURE IONIZATION-SLIM–QTOF MASS SPECTROMETRY** *Yassine Oulad El Majdoub*

	France	*University Duisburg Essen, Essen, Germany*
16:50	**YLE.02** **INERTIAL GAS CHROMATOGRAPHY** *Valentina Biagioni* *Sapienza University of Rome, Rome, Italy*	**YLE.11** **SAMPLE PREPARATION STRATEGIES FOR LIPIDOMICS INVESTIGATION IN FOOD ANALYSIS. CASE OF STUDY: EXTRACTION AND ANALYTICAL DETERMINATION OF THE LIPID FRACTION IN HIGH-QUALITY FOOD (BRONTE SICILIAN PISTACHIOS)** *Giulia Giacoppo* *University of Ferrara, Ferrara, Italy*
17:00	**YLE.03** **DEVELOPMENT OF CHIRAL GAS CHROMATOGRAPHY COLUMNS BASED ON MEMS TECHNOLOGIES DEDICATED TO SPACE EXPLORATION** *Gabin Bergerot* *Université De Rouen, Mont-saint-aignan, France*	**YLE.12** **NON-TARGETED VOLATILOMICS IN FOOD AUTHENTICITY: BRIDGING RESOURCE-EFFICIENT HS-GC-IMS AND HIGH-RESOLUTION GC-MS** *Lukas Bodenbender* *Technische Mannheim,* *Germany*
17:10	**YLE.04** **ANALYSIS OF CHIRAL AND ACHIRAL PESTICIDES IN WHITE WINE BY ENANTIOSELECTIVE LOW-PRESSURE GC–MS/MS** *Giorgia Rinaldi* *University of Messina, Messina, Italy*	**YLE.13 Genzo Shimadzu selected young lecture** **TRANSFORMATIONS OF ODOR PROFILES IN PINE WOOD DUE TO THERMAL DEGRADATION OF FATTY ACIDS** *Valentin Schierer[1,2]* *[1]Kompettenzzentrum Holz Gmbh, Linz, Austria* *[2]TU Wien, Vienna, Austria*
17:20	**YLE.05 Genzo Shimadzu selected young lecture** **RAPID SOLVENT-FREE SCREENING OF MINERAL OIL HYDROCARBONS IN PULP AND PAPER USING HS-SPME-GC-MS** *Elise Hecht* *Graz University of Technology, Graz, Austria*	**YLE.14 Genzo Shimadzu selected young lecture** **HOW RELIABLE IS AI IN FOOD ANALYSIS? A CRITICAL ASSESSMENT OF MACHINE LEARNING AND DEEP LEARNING METHODOLOGIES** *Giorgio Felizzato* *University of Turin, Turin, Italy*
17:30	**YLE.06** **PAH DETECTION IN ALCOHOLIC BEVERAGES USING CONDENSED PHASE-MEMBRANE INTRODUCTION MASS SPECTROMETRY-LIQUID ELECTRON IONIZATION (CP-MIMS-LEI): A DIRECT MASS SPECTROMETRY APPROACH** *Giovanna Nevola* *University of Urbino Carlo Bo, Urbino, Italy*	**YLE.15** **TARGETED GC–MS/MS METABOLOMICS FOR PROFILING ACUTE CELLULAR METABOLIC PERTURBATIONS INDUCED BY PHTHALATE EXPOSURE** *Nayara Silva Fraga* *Universidade Federal De Minas Gerais, Belo Horizonte, Brazil*
17:40	**YLE.07** **ALTERNATIVE METHODS FOR EVALUATING MOSH AND MOAH** *Aleksandra Gorska* *Gembloux Agro-bio Tech, University of Liège, Gembloux, Belgium*	**YLE.16** **ANALYTICAL STRATEGIES FOR MONITORING DYNAMIC AROMA RELEASE IN A SIMULATED MOUTH SYSTEM** *Fulvia Trapani* *University of Turin, Turin, Italy*
17:50	**YLE.08** **CONTINUOUS MONITORING OF BIOGENIC VOLATILE ORGANIC COMPOUNDS IN AIR AT PPT–PPB LEVELS USING ONLINE GAS CHROMATOGRAPHY** *Ali Ghaddar[1,2]* *[1]Institute of Chemistry and Processes for Energy, Strasbourg, France* [2]Chromatotec, Saint-andré-de-cubzac, France	**YLE.17** **COMPREHENSIVE INSTRUMENTAL ANALYSIS OF CHILDHOOD BODY ODOR BY GC-O, GC-MS, AND 2D-GC-MS/O** *Laleh Kiavar* *Friedrich-alexander University (FAU), Erlangen, Germany*
18:00	**YLE.09** **BEYOND FRAGMENTATION: GC-HRMS WITH DIELECTRIC BARRIER DICHARGE SOFT IONIZATION FOR THE ANALYSIS OF PLASTIC MIGRANTS** *Javier Blázquez-Martín* *University of La Rioja, Logroño, Spain*	**YLE.18** **ANALYTICAL WORKFLOW FOR HIGH-THROUGHPUT CHEMICAL CHARACTERIZATION OF ADVANCED BIO-OILS** *Johanna Iman Al-Hag[1,2]* *[1]University of Copenhagen, Frederiksberg, Denmark* *[2] Topsoe A/S, Kongens Lyngby, Denmark*
	Wine and Cheese offered by Chromaleont, RIC Group and SPECTRA Analysis	

18:45

Thursday May 21, 2026

09:00 – 11:05	**ISCC Session 9 – DAC SAMPLE PREPARATION STUDY GROUP AND NETWORK** **Room Garda** *Chairpersons:* *Valérie Pichon, Sorbonne University, France* *Giorgia Purcaro, Gembloux Agro-bio Tech, Belgium*	**ISCC Session 10 – CAPILLARY GC 2 – AUTOMATION - SAMPLING SYSTEM** **Room Dolomiti** *Chairpersons:* *Carlo Bicchi, University of Turin, Italy* *Jim Luong, Dow Chemical Canada, Canada*
09:00	**LE.46** **GREENER BY DESIGN: TRANSFORMING ANALYTICAL CHEMISTRY WITH PURPOSE** *Elia Psillakis* *Technical University of Crete, Chania, Greece*	**LE.54** **CHALLENGING TODAY'S PERCEPTIONS AND ASSUMPTIONS ABOUT GOOD 'OLE GC** *Nicholas Snow* *Seton Hall University, South Orange, USA*
09:20	**LE.47** **ELECTROMEMBRANE EXTRACTION – PRINCIPLES AND APPLICATIONS** *Stig Pedersen-Bjergaard* *University of Oslo, Oslo, Norway*	**LE.55** **INNOVATIONS IN HYDROGEN CYANIDE DETECTION: A NOVEL APPROACH TO REALIZE ENHANCED SELECTIVITY AND SENSITIVITY** *Ronda Gras[1,2]* *[1]Dow Canada, Alberta, Canada* *[2]Australian Centre for Research on Separation Science (ACROSS), Hobart, Australia*
09:35	**LE.48** **Rethinking sample preparation for sustainable fragrance quality control** *Cecilia Cagliero* *University of Turin, Turin, Italy*	**LE.56** **COMPARATIVE EVALUATION AND OPTIMISATION OF SORPTIVE SAMPLING SYSTEMS FOR VOC PROFILING BY GC-MS IN COMPLEX NATURAL MATRICES** *Natasha D. Spadafora* *University of Ferrara, Ferrara, Italy*
09:50	**LE.49** **INSIGHTS INTO PRESENT AND NEXT-GENERATION METRICS** *Francisco Pena Pereira* *University of Vigo, Vigo, Spain*	**LE.57** **EXTRACTIVE-LIQUID SAMPLING ELECTRON IONIZATION MASS SPECTROMETRY (E-LEI-MS): FUNDAMENTALS AND APPLICATIONS** *Adriana Arigò* *University of Urbino Carlo Bo, Urbino, Italy*
10:05	**LE.50** **METAL-ORGANIC FRAMEWORK-BASED MIXED MATRIX MEMBRANES FOR THIN-FILM SOLID-PHASE MICROEXTRACTION** *Verónica Pino[1,2]* *[1]University of La Laguna, Chemistry, Analytical Chemistry Division, La Laguna, Spain* *[2]University of La Laguna, Unidad de Investigación de Bioanalítica Y Medioambiente, La Laguna, Spain*	**LE.58** **PRELIMINARY RESULTS OF SENSORY AND AROMA PROFILE MEASUREMENTS IN THE COFFEE DENOMINATION OF ORIGIN FOR TWO REGIONS OF RIO DE JANEIRO STATE** *Ademario Iris Da Silva Junior* *IFRJ, Rio De Janeiro, Brazil*
10:20	**LE.51** **AUTOMATED SAMPLE PREPARATION ON-LINE COUPLED TO THE SEPARATION IN SEQUENTIAL INJECTION OR LIQUID CHROMATOGRAPHY SYSTEMS** *Hana Sklenářová* *Charles University, Hradec Králové, Czech Republic*	**LE.59** **PHARMACEUTICAL BIOMARKER ANALYSIS: TIME-CONTROLLED ONLINE SPE-HPLC-MS/MS FOR N-ACYLETHANOLAMINE QUANTIFICATION IN LIPID-RICH BIOLOGICAL MATRICES** *Valentina Greco* *University of Catania, Catania, Italy*
10:35	**LE.52** **AUTOMATED PROCESSING OF SERUM PROTEINS FROM DRIED PLASMA SPOTS** *Helena Hrušková* *Institute of Analytical Chemistry of the CAS, Brno, Czech Republic*	**LE.60** **DETECTION OF TRACE LEVELS OF FENTANYL IN URINE USING SEMI-AUTOMATED CAPILLARY SPE-LC ANALYSIS** *Samuel Foster* *Axcend, Lehi, USA*

10:50	**LE.53** **CENTRIFUGATION-ASSISTED MICRO-EXTRACTION USING FUNCTIONALIZED GLASS BEADS FOR RAPID HPLC ANALYSIS** *František Švec* *Charles University, Hradec Kralove, Czech Republic*	**LE.61**
11:05 – 12:30	**Coffee Break – Vendor Seminars – Exhibition – Posters**	
11:20 – 12:20	**Room Garda** **Seminar** **MERCK**	**Room Dolomiti** **Seminar** **SRA Instruments** *Large-Volume/Cool-on-Column injection and LC-GC hyphenation: how to achieve regulations requirements by significantly reduced solvent consumption and automating sample prep.* Andrea Carretta, Daniela Peroni, Fabio Stropeni
	Room Riva **Seminar** **JEOL**	
12:30 – 13:30	**Capillary LC Separations - On the Horizon and Beyond** **Room Dolomiti** **Organized by James Grinias, Rowan University (USA) and Milton Lee, Brigham Young University (USA)**	
12:30 – 14:00	**Lunch Break**	
14:00 – 15:35	**ISCC Session 11 – MINIATURIZED SAMPLE PREPARATION 1** **Room Garda** *Chairpersons:* *Elia Psillakis, Technical University of Crete, Greece* *Victoria Samanidou, Aristotle University of Thessaloniki, Greece*	**ISCC Session 12 – METABOLOMICS AND ARTIFICIAL INTELLIGENCE** **Room Dolomiti** *Chairpersons:* *Marina Russo, University of Messina, Italy* *Robert Kennedy, University of Michigan, USA*
14:00	**LE.62** **MINIATURIZED AND SELECTIVE EXTRACTION DEVICES FOR TRACE ANALYSIS OF TARGET COMPOUNDS IN COMPLEX SAMPLES** *Valérie Pichon[1,2]* *[1]Sorbonne University, Paris, France* *[2]ESPCI, Paris, France*	**LE.68** **TOWARDS THE THIRD GENERATION OF NEW METABOLOMICS ANALYSIS TECHNOLOGY** *Guowang Xu* *Dalian Institute of Chemical Physics, Dalian, China*
14:20	**LE.63** **MAKING OFFICIAL ANALYTICAL METHODS MORE SUSTAINABLE USING SPME AS AN ALTERNATIVE SAMPLE PREPARATION TECHNIQUE** *Frank Michel* *Merck KGaA, Taufkirchen, Germany*	**LE.69** **ADVANCING TARGETED AND UNTARGETED HIV METABOLOMICS USING MICRO PILLAR ARRAY COLUMN-BASED NANO-LC-HRMS WORKFLOWS** *Lander Iterbeke* *Ghent University, Ghent, Belgium*
14:35	**LE.64** **NEXT-GENERATION NANOFIBROUS SORBENTS – EXPLOITING MODIFICATIONS AND HYBRID NANOFIBERS COUPLED WITH**	**LE.70** **AUTOMATED SEQUENTIAL DERIVATISATION FOR HUMAN BLOOD-BASED GC-HRMS METABOLOMICS**

	LIQUID CHROMATOGRAPHY *Dalibor Šatínský* *Faculty of Pharmacy, Hradec Králové, Czech Republic*	*Akrem Jbebli* *Masaryk University, Brno, Czech Republic*
14:50	**LE.65** **ADVANCED SORBENT PHASES FOR MINIATURIZED SAMPLE PREPARATION TECHNIQUES APPLIED TO THE DETERMINATION OF ANTIBIOTICS IN BOVINE MILK SAMPLES BY LC–MS/MS** *Andréa Rodrigues Chaves* *Universidade Federal De Goiás, Goiânia, Brazil*	**LE.71** **AN INTEGRATED APPROACH BASED ON GC×GC-HRMS, SFC-HRMS, UHPLC-HRMS, AND MACHINE LEARNING FOR QUALITY ASSESSMENT OF COSMETIC PACKAGING** *Nicolo' Riboni* *University of Parma, Parma,Italy*
15:05	**LE.66** **STILL STIRRED, NOT SHAKEN? NEW DEVELOPMENTS IN STIR BAR SORPTIVE EXTRACTION** *Christophe Devos* *RIC Group, Kortrijk, Belgium*	**LE.72** **AUTONOMOUS SUMMARIES OF SAMPLE MIXTURES IN SELF-ORGANIZING MAPS** *Stefan Böhmdorfer* *BOKU University, Tulln, Austria*
15:20	**LE.67** **GEDI: A NOVEL INDEX TOWARDS SUSTAINABLE ANALYTICAL METHOD DEVELOPMENT** *Natasa Kalogiouri* *Aristotle University of Thessaloniki, Thessaloniki, Greece*	**LE.73** **HIGH RESOLUTION-ELECTROSPRAY-TANDEM MASS SPECTROMETRY (HR-ESI-MS/MS) SPECTRAL DATABASE DEVELOPMENT OF MEDICINAL PLANTS METABOLOME FOR THEIR RAPID AND ACCURATE IDENTIFICATION** *Syed Ghulam Musharraf* *H.E.J. Research Institute of Chemistry, Karachi, Pakistan*
15:35 – 16:55	**Coffee Break – Vendor Seminars – Exhibition – Posters**	
15:45 – 16:45	**Room Garda** **Seminar** **WATERS** *Volatile PFAS: Benefit from Atmospheric pressure GC (APGC™) coupled to a tandem mass spectrometer for highly selective and sensitive analysis of volatile and neutral PFAS at sub ppt levels.* *Pesticides: Improve Gas Chromatography Analysis of Pesticide Residues Making Use of Atmospheric Pressure Chemical Ionization.* *Dioxins: Discover the four reasons why APGC will change the game for your pesticide and dioxin analysis.* Andrea Perissi	**Room Dolomiti** **Seminar** **SEPSOLVE/MARKES INTERNATIONAL**
	Room Riva **Seminar** **F-DGSi** *The best green solution: 100% autonomous for GC & GC/GC- Thanks to hydrogen and liquid nitrogen generators - Applications and Perspectives.*	

	Fabienne Palge, Damien Steyer, David Benanou	
16:55 – 18.25	**ISCC Young Scientists 3** **Room Garda** *Chairpersons:* *Francesca Rigano, University of Messina, Italy* *Danilo Corradini, CNR - Consiglio Nazionale delle Ricerche, Italy*	**ISCC Young Scientists 4** **Room Dolomiti** *Chairpersons:* *Anna Laura Capriotti, Sapienza University of Rome, Italy* *Danilo Sciarrone, University of Messina, Italy*
16:55	**YLE.19** **PROGRESS IN HPLC-XRF AND THE POTENTIAL OF MINIATURISATION FOR SENSITIVITY IMPROVEMENTS** *Gaëlle Spileers* *Ghent University,Ghent, Belgium*	**YLE.28** **CLICK CHEMISTRY FOR THE DEVELOPMENT OF NOVEL SORBENTS FOR SOLID-PHASE MICROEXTRACTION** *Carmela Maria Montone* *Sapienza University of Rome, Rome, Italy*
17:05	**YLE.20** **LC-LEI-HRMS TO UNVEIL PAHS PHOTO-OXIDATION PHENOMENA IN A MARS-LIKE ENVIRONMENT** *Tommaso Grazioso* *University of Urbino, Urbino Italy*	**YLE.29** **MESOPOROUS CARBON-BASED STIR-BAR SORPTIVE MICROEXTRACTION FOR TRACE PESTICIDE ANALYSIS IN WATER BY GC/MS** *Gabriel Pardini Coelho* *Universidade Federal De Minas Gerais, Belo Horizonte, Brazil*

17:15	**YLE.21 Genzo Shimadzu selected young lecture** **AN INNOVATIVE CAPILLARY LIQUID CHROMATOGRAPHY-DIODE ARRAY DETECTOR COUPLED TO MASS SPECTROMETRY METHOD FOR THE SEPARATION OF BIOACTIVE ANTHOCYANINS FROM SLOE (PRUNUS SPINOSA L.) LIQUEUR RESIDUES** *Sandra Rodríguez-Blázquez* *Complutense University of Madrid, Madrid, Spain*	**YLE.30** **CHARACTERIZATION OF THE VOLATILOME IN NOVEL PROTEIN SOURCES USING DIFFERENT FORMATS OF SOLID PHASE MICROEXTRACTION COUPLED TO GAS CHROMATOGRAPHY/MASS SPECTROMETRY** *Lorenzo Cucinotta* *University of Waterloo, Waterloo, Canada*
17:25	**YLE.22** **PREDICTING PHENOLIC RETENTION IN CAPILLARY LC: QSRR MODELS FOR RELIABLE IDENTIFICATION** *Roberto Laganà Vinci* *Chromaleont S.r.l, Messina, Italy*	**YLE.31** **NEAR-REAL-TIME MASS SPECTROMETRY WITH THE POWER OF GC SEPARATION? AN AIRBORNE TD-GC-TOFMS FOR CONTINUOUS ANALYSIS OF TRACE VOC IN AIR WITH A 60 SECOND INTEGRATED TEMPORAL RESOLUTION.** *Tara Murphy* *University of York, York, United Kingdom*
17:35	**YLE.23** **ENHANCING COVERAGE FOR ORGANELLE-LEVEL METABOLOMICS BY MICROBORE HILIC-HRMS** *Danila La Gioia* *University of Salerno, Fisciano, Italy*	**YLE.32** **ADVANCED GAS CHROMATOGRAPHIC TECHNIQUES FOR VOCS CHARACTERIZATION IN CULTURAL HERITAGE SITES** *Francesca Cannizzaro* *University of Messina, Messina, Italy*
17:45	**YLE.24** **OPTIMIZATION OF LC-Q-TOF MASS SPECTROMETRY AND CHROMATOGRAPHIC PARAMETERS FOR THE DEVELOPMENT OF AN INNOVATIVE METHOD FOR THE DETERMINATION OF PFAS IN FOOD CONTACT MATERIAL (FCMS)** *Daniel Bona* *University of Genoa, Genoa, Italy*	**YLE.33** **FLOWING INSIGHTS: AUTOMATED MICROFLUIDIC ENZYME SCREENING WITH ONLINE HPLC-MS** *Sanjay Lama* *Leipzig University, Leipzig, Germany*

17:55	**YLE.25 Genzo Shimadzu selected young lecture** **OVERCOMING COMPATIBILITY BARRIERS IN ORTHOGONAL 2DLC: A ROBUST IP-RPLC/IP-HILIC PLATFORM FOR IN-DEPTH OLIGONUCLEOTIDE PROFILING** *Enrico Taglioni* *Sapienza University of Rome, Rome, Italy*	**YLE.34** **FLUOROTELOMER ALCOHOL REMOVAL BY MCM-41: A GC–MS STUDY** *Francesco Pio Paci* *University of Ferrara, Ferrara, Italy*
18:05	**YLE.26** **MODULAR MICROFLUIDICS AS A KEY TECHNOLOGY IN MODERN ANALYTICS: SHOWCASING CHIP-BASED SFC-MS AND SFC-IMS** *Julius Heinrich Schwieger* *Leipzig University, Leipzig, Germany*	**YLE.35 Genzo Shimadzu selected young lecture** **GREEN ANALYTICAL METHODS FOR EXTRACTION-CHROMATOGRAPHY BY MEANS OF SUPERCRITICAL FLUIDS AND BIO-SOLVENTS** *Cristian Reale* *University of Messina, Messina, Italy*
18:15	**YLE.27** **MICROBORE-UHPLC-4D-TIMS FOR IMPROVED UNTARGETED LIPIDOMICS OF PATIENT DERIVED ORGANOIDS** *Fabrizio Merciai* *University of Salerno, Fisciano, Italy*	**YLE.36** **HOLLOW-FIBER FLOW FIELD-FLOW FRACTIONATION AS A SWISS ARMY KNIFE FOR ADDRESSING KEY CHALLENGES IN PHARMACEUTICAL AND NANOSCIENCE APPLICATIONS** *Stefano Giordani* [1,2] [1] *Byflow S.r.l., Bologna, Italy* [2] *University of Bologna, Bologna, Italy*

Friday, May 22, 2026

09:00 – 10:20	**ISCC Session 13 – NATURAL PRODUCTS, FOOD, FLAVOURS AND FRAGRANCES** **Room Garda** *Chairpersons:* *Paola Dugo, University of Messina, Italy* *Cecilia Cagliero, University of Turin, Italy*	**ISCC Session 14 – MINIATURIZED SAMPLE PREPARATION 2** **Room Dolomiti** *Chairpersons:* *Janusz Pawliszyn, University of Waterloo, Canada* *Verónica Pino, University of La Laguna, Spain*
09:00	**LE.74** **THE APPLICATION OF DIFFERENT CHROMATOGRAPHIC METHODS TO THE STUDY OF TROPICAL VEGETAL BIODIVERSITY** *Elena E. Stashenko* *Universidad Industrial de Santander, Bucaramanga, Colombia*	**LE.79** **NEW MATERIALS FOR THE SELECTIVE EXTRACTION OF EMERGING CONTAMINANTS FROM ENVIRONMENTAL SAMPLES** *Rosa Maria Marcé* *Universitat Rovira I Virgili, Tarragona, Spain*
09:20	**LE.75** **CHARACTERIZATION OF YLANG-YLANG KEY ODORANTS BY GC-OLFACTOMETRY EXPERIMENTS AND REFORMULATION STUDIES** *Nicolas Baldovini* *Université Côte d'azur, Nice, France*	**LE.80** **AROMA PROFILING AS A TOOL TO SUPPORT FOOD SAFETY AND QUALITY** *Tatiana Cucu* *RIC Group, Kortrijk, Belgium*
09:35	**LE.76** **ARTIFACT FORMATION IN THE INJECTOR – AN UNDERESTIMATED PROBLEM IN GC ANALYSIS OF ODORANTS** *Martin Steinhaus* *[1]Leibniz Institute for Food Systems Biology at the Technical University of Munich, Freising, Germany* *[2]Technical University of Munich, Garching, Germany*	**LE.81** **USING MULTIPLE CAPILLARY GC COLUMNS OF INCREASING PHASE STRENGTHS IN SERIES TO PERFORM HEADSPACE EXTRACTIONS PRIOR TO SPLITLESS GCMS INJECTION AND ANALYSIS** *Daniel B. Cardin* *Entech Instruments, Simi Valley, USA*
09:50	**LE.77** **DRYING-INDUCED CHANGES IN MICROBIAL LOAD AND VOLATILE ORGANIC COMPOUNDS OF SHRIMP: A COMPARISON OF SC-CO_2, HOT-AIR, AND FREEZE DRYING** *Eugenio Aprea* *University of Trento, San Michele all Adige, Italy*	**LE.82** **DEVELOPMENT OF A CAPILLARY MONOLITHIC OLIGOSORBENT–HPLC–MS METHOD FOR QUANTIFYING ALZHEIMER'S DISEASE BIOMARKERS IN BIOLOGICAL FLUIDS** *Israel Donizeti de Souza* *ESPCI, Paris, France*
10:05	**LE.78** **NAVIGLIO EXTRACTOR®: MEDICINAL PLANT EXTRACTS FOR RAPID PRODUCTION OF SUPPLEMENTS AND BEVERAGES. INTRODUCING THE NEW BITTER LIQUEUR: "AMARO DELLE DONNE."** *Daniele Naviglio* *University of Naples Federico II, Naples, Italy*	**LE.83** **APPLICATION OF MINIATURISATION OF SAMPLE PREPARATION FOR DETERMINATION OF MYCOTOXIN CONTAMINATION OF SELECTED AROMATIC PLANTS** *Marijana Sokolovic* *Croatian Veterinary Institute, Zagreb, Croatia*
10:20 – 10:50	**Coffee Break – Exhibition**	
10:50 – 12:10	**ISCC Session 15 – INSTRUMENTATION** **Room Garda** *Chairpersons:* *Achille Cappiello, University of Urbino Carlo Bo, Italy* *Stig Pedersen-bjergaard, University of Oslo, Norway*	**ISCC Session 16 – ELECTROMIGRATION METHODS** **Room Dolomiti** *Chairpersons:* *Brett Paull* *University of Tasmania, Hobart, Australia* *Peter Q. Tranchida, University of Messina, Italy*

10:50	**LE.84** **WHOLE COLUMN IMAGING cIEF COUPLED TO MS FOR CHARACTERIZATION OF NATIVE PROTEINS** *Janusz Pawliszyn* *University of Waterloo, Waterloo, Canada*	**LE.89** **EMERGING APPLICATIONS OF CE-MS AND MULTIDIMENSIONAL LC-MS IN BIOPHARMACEUTICAL ANALYSIS** *Koen Sandra* *RIC Group, Kortrijk, Belgium*
11:10	**LE.85** **GC-COMBUSTION-MS AS A UNIVERSAL AND ELEMENT-SELECTIVE DETECTOR FOR THE QUANTITATIVE CHARACTERIZATION OF HETEROATOM-CONTAINING COMPOUNDS IN COMPLEX MATRICES** *Pierre Giusti[1,2]* *[1]Totalenergies, Rogerville, France* *[2]International Joint Laboratory-ic2mc: Complex Matrices Molecular Characterization, Rogerville, France*	**LE.90** **FINGERPRINTING OF SECONDARY METABOLITES OCCURRING IN SELENIUM ENRICHED CABBAGE BY CAPILLARY ZONE ELECTROPHORESIS** *Danilo Corradini* *CNR - Consiglio Nazionale delle Ricerche, Montelibretti, Italy*
11:25	**LE.86** **GC-MS WITH A SUPERSONIC MOLECULAR BEAM INTERFACE – MOLECULAR IONS ENHANCEMENT AND ITS BENEFITS** *Alexander Fialkov* *Tel Aviv University, Tel Aviv, Israel*	**LE.91** **METHOD OPTIMIZATION FOR CAPILLARY ELECTROPHORESIS USING DESIGN OF EXPERIMENTS (DOE)** *Andreas Zemann* *University Innsbruck, Innsbruck, Austria*
11:40	**LE.87** **A TRUE NON-RADIOACTIVE ALTERNATIVE TO CLASSICAL ELECTRON CAPTURE DETECTORS: HERE DEMONSTRATED FOR HALOGEN-SPECIFIC TRACE ANALYSIS** *Maximilian Johannes Kueddelsmann[1,2]* *[1]Hummex Analytics Gmbh, Hannover, Germany* *[2]Leibniz University Hannover, Hannover, Germany*	**LE.92** **CE-MS METABOLOMIC AND LC-MS PROTEOMIC ANALYSES OF BREAST CANCER EXOSOMES REVEAL ALTERATIONS IN PURINE AND CARNITINE METABOLISM** *Maxim Berezovski* *University of Ottawa, Ottawa, Canada*
11:55	**LE.88** **CHARACTERIZING HYDROCARBON CONTENT OF WASTE PLASTIC PYROLYSIS STREAMS BY GC-VUV: A TRILATERAL ENDEAVOR** *Alex Hodgson* *VUV Analytics, Inc., USA*	**LE.93** **WHEN SURFACES LIE: USING CAPILLARY SEPARATIONS TO VALIDATE MOLECULAR RECOGNITION** *Sergey N. Krylov* *York University, Toronto, Canada*
12:10 – 13:15	**Closing Address 44th ISCC Room – Garda** **Chairperson:** *Luigi Mondello, University of Messina, Italy* *Pat Sandra, RIC Group, Belgium* **Presentation of the:** **GENZO SHIMADZU Oral Awards (Young Scientists)** **ABC Springer Best Poster Awards (Young Scientists)** **Analytical Methods RSC Best Poster Award (Young Scientists)** **Green Analytical Chemistry Elsevier Best Poster Awards** **Molecules MDPI Best Oral ISCC Award (Young Scientists)** **Closing Address**	
13:15	**Farewell Cocktail, offered by Waters Corporation, Conference Center**	