

44th International
Symposium
on Capillary
Chromatography
and
21st GC×GC
Symposium

Chairman
Prof. L. Mondello

17 - 22 May, 2026

*Palazzo dei Congressi,
Riva del Garda
Italy*

FINAL PROGRAM

INFORMATION

Chromaleont
Tel. (+39)-334-3612788
E-mail: iscc@chromaleont.it

The *Forum on Microcolumn Separations*

**THE '44th INTERNATIONAL SYMPOSIUM
ON CAPILLARY CHROMATOGRAPHY'**

and

THE '21st GC×GC SYMPOSIUM'

May 17 – 22, 2026

Riva del Garda Fierecongressi, Riva del Garda (TN), Italy

The 'M.J.E. Golay Award 2026'

The 'ASAC Fritz Pregl Medal 2026'

The 'Giorgio Nota Award 2026'

The 'GCxGC Lifetime Achievement Award 2026'

The 'John Phillips Award 2026'

The 'Genzo Shimadzu Best Oral Award 2026'

The 'Separations MDPI Best Oral Award 2026: Young Scientist'

The 'Molecules MDPI Best Oral Award 2026: Young Scientist'

The 'Richard Sacks Best Poster Award 2026'

The 'ABC Springer Best Poster Award 2026: Young Scientist'

The 'Analytical Methods RSC Best Poster Award 2026: Young Scientist'

The 'Green Analytical Chemistry Elsevier Best Poster Award'

will be presented

- Conference Address -

Riva del Garda Fierecongressi
Parco Lido
I-38066 Riva del Garda, (TN)
Italy

Tel.: +39-0464-520000 (Info Desk)

E-mail: info@rivaafc.it

Web: <http://www.rivadelgardafierecongressi.it>

- Symposium Office -

The Symposium Office is located in the entrance hall of the Congress Center

Opening Hours:

Sunday, May 17	09:00 until 18:00	GC×GC and LC×LC Courses
	09:00 until 18:00	21 st GC×GC Symposium
Monday, May 18	08:30 until 18:50	21 st GC×GC Symposium
Tuesday, May 19	09:00 until 18:35	44 th ISCC
	11:05 until 18:50	21 st GC×GC Symposium
Wednesday, May 20	09:00 until 18:20	44 th ISCC
Thursday, May 21		
Friday, 22 May	09:00 until 13:15	44 th ISCC

- Posters -

Posters will not be introduced by oral presentation.

For the **44th ISCC**, the posters will be on display from **Tuesday to Friday (8:30 till 11:00)**.

For the **21st GC×GC**, the posters will be on display from **Monday to Friday (8:30 till 11:00)**.

For discussion, please meet the authors at their numbered poster board at the time indicated in the scientific program.

Special stickers to hang up the posters are available at the Registration Desk. The use of pins is not allowed.

- Submission of Manuscripts -

Participants are invited to contribute manuscripts connected to their presented work at the RIVA 2026 Conference for publication in the Journal of Chromatography A (Elsevier) in a Virtual Special Issue (VSI) that is dedicated to the meeting.

Accepted papers will appear together as part of a dedicated collection on Science Direct.

Authors are advised to read carefully the aims and scope of the journal before deciding whether or not to submit their manuscript.

Manuscript submission instructions:

- Submission link: <https://www.sciencedirect.com/journal/journal-of-chromatography-a>
- Click on the "Submit your article" from the top menu;
- Enter your username and password (first time users will need to register);
- After accepting Elsevier's terms and conditions, privacy policy and the Aries privacy policy, please click on "Start a new submission" and select article type "VSI: RIVA 2026";
- Follow the remaining step-by-step instructions to submit your paper.
- Submission Open Date: **1st May 2026**
- Submission deadline **30th November 2026**.

When preparing your manuscript(s), please carefully follow the Guide to Authors of the journal, which you can find on the online submission site. In the cover letter please mention that your manuscript is intended for the **RIVA 2026** Virtual Special Issue.

Please note that all manuscripts will be subjected to the mandatory selection process for the journal selected, including the strict peer review procedure; therefore, acceptance for presentation at the meeting is not a guarantee for publication in the journal.

For any queries regarding the VSI publication, please contact Mr. Wei Yu by wei.yu@elsevier.com. We would like to thank you in advance for your contribution.

The special issue will be handled by guest editors Paola Dugo and Robert Synovec.

Book of Abstracts

The book of abstracts will be delivered on a USB upon registration

- Badges -

Delegates are requested to wear their badges at all times.

Failure to do so will result in refusal of admission to the scientific and social activities.

Blue badges have access to both GC×GC and ISCC Scientific Program. Green badges have access to the Scientific Program of GC×GC and light blue badges to the Scientific Program of ISCC. Participants registered to the GC×GC and LC×LC short courses will receive an additional badge valid only for Sunday MAY 17, 2026. Accompanying persons have no access to the scientific activities.

- Coffee Breaks-

Coffee and soft drinks will be served in the exhibition hall during the coffee break times only.

- Exhibition -

Exhibition opening hours:

Tuesday, May 19	09:00 – 18:50
Wednesday, May 20	09:00 – 18:20
Thursday, May 21	09:00 – 18:25
Friday, May 22	09:00 – 14:00

Exhibiting Companies

ACKISION	LNI SWISSGAS
ANALYTICAL & BIOANALYTICAL CHEMISTRY	MARKES
AGILENT	MERCK
AXCEND	NIMFAST TECHNOLOGIES
BRECHBÜHLER	PEAK SCIENTIFIC
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ENTECH INSTRUMENTS	RESTEK
F-DGSI	RIC group
GERSTEL	SEPSOLVE
GL Sciences	SHIMADZU
IonBench	SPECTRA ANALYSIS
JEOL	SRA INSTRUMENTS
LABOTEC	VUV ANALYTICS
LabTech	Waters
LECO	

- Social Program -

The following program is offered to the delegates:

All Days		Coffee Breaks offered by the Diamond Sponsor Shimadzu Europa GmbH
Sunday, May 17	18:30	Short Courses Cocktail offered by Shimadzu Europa GmbH Location: First floor Congress Centre
Monday, May 18	19:00	Welcome Reception Cocktail offered by Chromaleont, RIC Group and Spectra Analysis Location: Pala Vela Exhibition Hall
Tuesday, May 19	19:00	Cocktail offered PeakScientific Location: Pala Vela Exhibition Hall
Wednesday, May 20	19:00	Wine and Cheese offered by Chromaleont and RIC Group Location: Terrace Hotel Sole, Riva del Garda
Friday, May 22	13:10	Farewell Cocktail offered by Waters Location: Congress Centre

- COMMITTEE MEMBERS -

- Scientific Committee 44th ISCC -

Bicchi Carlo (Italy)
Desmet Gert (Belgium)
Huber Christian (Austria)
Janssen Hans-Gerd (Netherlands)
Kennedy Robert (USA)
Lanças Fernando (Brasil)
Lee Milton (USA)
Marcé Rosa Maria (Spain)
Luong Jim (USA)
Mondello Luigi (Italy)
Pawliszyn Janusz (Canada)
Pichon Valérie (France)
Psillakis Elia (Greece)
Ramsey Michael (USA)
Sandra Koen (Belgium)
Schmitz Oliver (Germany)
Schug Kevin (USA)
Stashenko Elena (Colombia)
Xu Guowang (China)

- Organizing Committee 44th ISCC -

Cappiello Achille (Italy)
Cavazzini Alberto (Italy)
Donato Paola (Italy)
Dugo Paola (Italy)
Gomes da Silva Marco (Portugal)
Rigano Francesca (Italy)
Zoccali Mariosimone (Italy) (Chair)

- Honorary Committee 44th ISCC -

Sandra Pat (Belgium) *Honorary Chairman*
Armstrong Daniel (USA)
Fanali Salvatore (Italy)
Jinno Kiyokatsu (Japan)
Jorgenson Jim (USA)
Myers Peter (USA)
Novotny Milos (USA)
Svec Frantisek (Czech Republic)
Trestianu Sorin (Italy)

- Scientific Committee 21st GC×GC -

Bean Heather (USA)
Cordero Chiara (Italy)
Dorman Frank (USA)
Focant Jef (Belgium)
Górecki Tadeusz (Canada)
Hantao Leandro Wang (Brazil)
Harynuk James (Canada)
Ieda Teruyo (Japan)
Janssen Hans-Gerd (Netherlands)
Marriott Phil (Australia)
Mondello Luigi (Italy)
Purcaro Giorgia (Belgium)
Synovec Rob (USA)
Tranchida Peter (Italy)

- Organizing Committee 21st GC×GC -

Ferracane Antonio (Italy)
Galletta Micaela (Italy)
Zoccali Mariosimone (Italy) (Chair)

- CHAIRMAN AND HONORARY CHAIRMAN -

Luigi Mondello

Messina Institute of Technology c/o Department of Chemical,
Biological, Pharmaceutical and Environmental Sciences, University
of Messina, Viale G. Palatucci 13, 98168 – Messina, Italy

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Pat Sandra

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Ghent University (Belgium);

Tel: +32 56 204031
E-mail: pat.sandra@RIC-group.com
Web: <https://ric-group.com/>

- LOCAL ORGANIZATION -

Margherita Barilà

(margherita.barila@chromaleont.it)

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Chromaleont S.r.l.

c/o Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Viale G. Palatucci 13, 98168 –
Messina, Italy

- SPONSORS RIVA 2026 -

We would like to thank the sponsors for their generous support.

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LCGC International
Separation Science
the Analytical Scientist

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International Union of Pure and Applied Chemistry (IUPAC)
Italian Chemical Society (SCI)
Japanese Society for Chromatographic Sciences (SCS)
Romanian Chemical Society (SChR)
Royal Society of Chemistry (RSC)
Slovenian Chemical Society (SCS)
Spanish Society of Chromatography and Related Techniques (SECyTA)

WITH THE COOPERATION OF:

Analytical Chemistry Division of the Italian Chemical Society
Austrian Society of Analytical Chemistry
Chromatography & Electrophoresis Group of the Czech Chemical Society
Division of Environmental Chemistry and Cultural Heritage of the Italian Chemical Society
EuChemS-DAC Sample Preparation Study Group and Network
EuChemS - Division of Analytical Chemistry
Food Chemistry Division of the Italian Chemical Society
Thematic Group on Separation Science of the Italian Chemical Society

AWARDS

MARCEL GOLAY AWARD

The **Marcel Golay award** was instituted in honor of Marcel Jules Eduard Golay, the inventor of capillary columns. The **Marcel Golay award 2026** is sponsored by **Chromaleont and RIC Group**.



Dr. Golay, one of the **pioneers of gas chromatography**, introduced the theory of dispersion in open tubular columns (capillary columns) and demonstrated their efficacy at the second International Symposium on Gas Chromatography in 1958. Dr. Golay joined PerkinElmer in 1962 as a senior scientist, and invented the Golay infrared sensor, which at the time was the most sensitive infrared sensor available.

Golay's invention helped establish PerkinElmer as a major source of infrared technology. He also extended the theory of preparative columns and examined the properties of various chromatography sampling systems. The open tubular gas chromatography column is the most popular analytical gas chromatography column in use today. Dr. Golay worked as a senior scientist at PerkinElmer up until his death in 1989. The Marcel Golay award is presented to a scientist in recognition of a lifetime of achievement in capillary chromatography.

Carlo Bicchi is Full Professor at the Faculty of Pharmacy of the University of Turin since 1990. His research focuses on the development of advanced analytical technologies for the study of biologically active specialized metabolites in plant matrices, including essential oils, terpenoids, phenolic compounds, and alkaloids, as well as on aroma profiling and fingerprinting of major industrial food crops such as coffee, cocoa, hazelnuts, olive oil, and tea. His work encompasses all aspects of sample preparation, advanced chromatographic techniques, and chemometric methods for profiling and fingerprinting. Prof. Bicchi has actively promoted the development of analytical sciences through international collaboration, mentoring, and participation in scientific boards, conferences, and editorial activities.



GIORGIO NOTA AWARD

The **Giorgio Nota Award** was instituted in honor of Giorgio Nota, who first introduced open tubular LC. The Giorgio Nota award is presented to a scientist in recognition of a lifetime of achievement in capillary liquid chromatography. The **Giorgio Nota Award 2026** is sponsored by **Waters**.



Fernando Mauro Lanças is a full Professor at the Institute of Chemistry of the University of São Paulo at São Carlos, Brazil, where he founded and currently coordinates the Chromatography Laboratory. His commitment to promoting and disseminating the culture of chromatography in Latin America, as founder of the Latin American Congress of Chromatography (COLACRO), the Brazilian Symposium on Chromatography (SIMCRO), and the International Institute of Chromatography (IIC), has made it possible to build a lasting bridge between Latin America and the rest of the world, fostering scientific collaboration, advancing research excellence, and strengthening the global chromatographic community. His primary research interest is currently focused on the complete miniaturization and automation of sustainable sample preparation – chromatography – mass spectrometry techniques and the practical implementation of the Unified Chromatography concept.



GC×GC LIFETIME ACHIEVEMENT AWARD

The award honors an experienced GC×GC scientist who has made significant contributions to the field. The Scientific Achievement Award was instituted in 2011 and recognizes GC×GC scientists who have 15 or more years of continuous contributions in the field.

The **2026 GC×GC Lifetime Achievement Award** is sponsored by **SepSolve Analytical, Markes International and LECO**.

Prof. James Harynuk is currently a Full Professor at the University of Alberta, Canada. His research focuses on developing advanced analytical tools to tackle challenges such as complex samples, faster analysis times, and lower detection limits. He specializes in multidimensional gas-phase separations, including GC×GC, heart-cut GC (GC-GC), and advanced data handling tools. Applications of his work span health research, metabolite profiling, forensic science, petrochemicals, and environmental science.



Christopher Reddy is senior scientist at the Department of Marine Chemistry and Geochemistry at the Woods Hole Oceanographic Institution in Woods Hole, Massachusetts. Reddy received his B.S. degree in chemistry from Rhode Island College and his Ph.D. in chemical oceanography from the Graduate School of Oceanography at the University of Rhode Island. His research focuses on the environmental fate of organic pollutants in the ocean, often using advanced analytical techniques such as GC×GC and compound-specific isotope analysis. Drawing on lessons from past pollution, he works to design safer, more environmentally friendly materials.

Robert K. Nelson is an organic geochemist at the Department of Marine Chemistry & Geochemistry at the Woods Hole Oceanographic Institution in Woods Hole, Massachusetts. He earned a B.A. in biology from Central Connecticut State University and he later expanded his scientific training through additional coursework in organic chemistry at the University of Massachusetts Dartmouth and in physical chemistry at Northeastern University, strengthening his expertise in chemistry as applied to environmental sciences. With an extensive career in organic geochemistry and environmental analysis, Nelson is widely recognized for his contributions to the study of petroleum hydrocarbons and anthropogenic contaminants in the marine environment.



JOHN PHILLIPS AWARD

Comprehensive two-dimensional gas chromatography, or GC×GC, was invented by the late **Professor John Bruce Phillips** of Southern Illinois University at Carbondale and his then graduate student, Dr. Zaiyou Liu. The Phillips Prize will be awarded every other year to individuals who have made outstanding contributions to the field of GC×GC analysis. The Phillips Award first given in 2004 recognizes individuals who have typically worked in the GC×GC field for less than 10 years but have demonstrated good leadership through their scientific peer-reviewed work. The **2026 John Phillips award** is sponsored by **LECO**.



Dr. Meriem Gaida obtained Ph.D. in Analytical Chemistry from the University of Liège (Belgium) in August 2023, specializing in separation science with expertise in GC×GC-ToFMS. Her research focused on advanced analytical strategies for complex chemical profiling and data interpretation, and she further expanded her expertise as a visiting researcher at the University of Washington (USA). After completing her doctorate, she joined SepSolve Analytical Ltd. (UK) as an Applications Specialist, where she developed and optimized customized GC×GC-ToFMS solutions for industrial and academic clients, providing technical support, method development, and training. In September 2024, she moved to LUZI AG (Switzerland), where she currently serves as Product Safety Science Manager, overseeing regulatory compliance, safety assessments of fragrance ingredients, and product safety documentation in line with European regulations.



Petr Vozka is an Associate Professor of Chemistry and Biochemistry at California State University, Los Angeles, where he directs the Complex Chemical Composition Analysis Laboratory (C3AL). He earned a B.S. in Chemistry and Chemical Technologies, and an M.S. in Chemistry and Technology of Fuels and Environment from the University of Chemistry and Technology, Prague, followed by a Ph.D. from Purdue University focused on analytical chemistry of liquid transportation fuels. His research group develops and applies advanced separation and detection strategies, especially comprehensive two-dimensional gas chromatography (GC×GC) coupled with mass spectrometry, to resolve and quantify highly complex mixtures that challenge conventional methods. Application areas include alternative and sustainable fuels, microplastics and related environmental matrices, and forensic analyses such as chemical imaging of fingerprints.



Fritz Pregl Medal of the Austrian Society of Analytical Chemistry

The **Fritz Pregl award of the Austrian Society of Analytical Chemistry (ASAC)** was established in 1955. Since then, it is awarded at irregular intervals primarily at national and international scientific events and symposia.

The medal's namesake, Friedrich Michael Raimund PREGL, received the Nobel Prize in Chemistry in 1923 for his groundbreaking work in the field of microchemical methods, which are closely linked to microanalytical applications. Fritz Pregl is the doyen of Austrian analysts. In his honor, the ASAC established the Pregl Medal, which is awarded to individuals who have made significant and outstanding contributions in the field of analytical chemistry, particularly organic trace analysis.



Prof. Christian Huber is currently professor of chemistry for biosciences at the Paris Lodron University in Salzburg, Austria. After finishing his masters and Ph.D. at the university of Innsbruck he continued as an assistant professor at this university.

In 1996 Prof. Huber spent several months researching at Yale university in the group of Prof. Csaba Horvath. A year later he was appointed Associate Professor in Innsbruck. From 2002 he held the position of Professor of Analytical Chemistry at the Department of Chemistry, Division of Instrumental Analysis and Bioanalysis, Saarland University, Saarbrücken, Germany. From there he moved to Salzburg in 2008. Prof. Huber is a worldwide known researcher with a strong focus on separation sciences in particular for the analysis of large bio-molecules. According to Google Scholar his work has been cited more than 13500 times with an h-index of 63. In recognition of his contributions to HPLC and HPLC-MS, Prof. Huber will receive the Pregl Award Medal from the Austrian Society of Analytical Chemistry.



Genzo Shimadzu selected young oral lecture

Andriy Rebryk, Vrije Universiteit Amsterdam, Netherlands
Apostolia Tsiasioti, Aristotle University of Thessaloniki, Greece
Cristian Reale, University of Messina, Italy
Damien Pierret, University of Liege, Belgium
Elise Hecht, Graz University of Technology, Austria
Enrico Taglioni, Sapienza University of Rome, Italy
Ewenet Yemane Mesfin, University of Alberta, Canada
Giorgio Felizzato, University of Turin, Italy
Sandra Rodríguez Blázquez, Complutense University of Madrid, Spain
Valentin Schierer, Kompetenzzentrum Holz GmbH, Austria

SCHOLARSHIPS

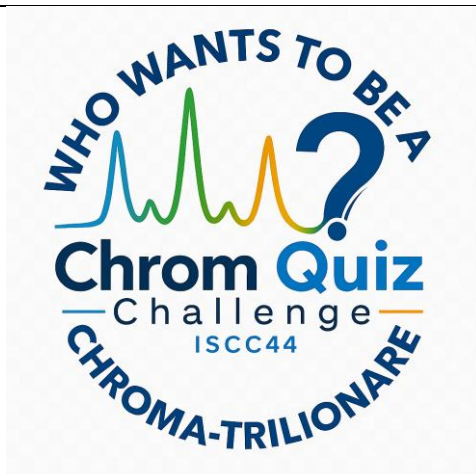
Analytical Chemistry Division of the Italian Chemical Society

Carmela Maria Montone, Sapienza University of Rome, Italy
Fulvia Trapani, University of Turin, Italy
Giulia Giacompo, University of Ferrara, Italy

CHROMALEONT

Marisa Henriques Maria, Centro De Química Estrutural, Portugal
Marta Pavarino, University of Turin, Italy
Nadine Gawlitta, Technical University of Denmark, Denmark
Yuying Feng, Deakin University, Australia

Prize Quiz Initiative – Engaging with Exhibitors



The quiz will take place at 12:10 before the ISCC closing ceremony on Friday 22. Questions will be based on the products presented by the Sponsors throughout the three days of the congress, which will be highlighted to encourage participants to visit the exhibition and learn more about them.

Participants who answer the highest number of questions correctly in the shortest time will be declared the winners.

ChromatoShoot: the highest peak wins



ChromatoShoot the highest peak wins

As part of ISCC & GC×GC, it is time to put your eye for detail to the test, beyond the lab!

Starting from May 16, join "ChromatoShoot: the highest peak wins", the photography contest dedicated to conference participants (attendees and exhibitors). Capture a moment, a detail, or a creative interpretation of conference life (and beyond), and share it with the community.

Upload your photo to the dedicated platform and let others vote: every "like" is a signal... and only the highest peak will rise to the top!

Browse other entries and vote for your favorites

Whether you capture an instrument, a networking moment, a creative detail, or an artistic perspective of the two symposia, this is your chance to stand out.

Separate from the crowd. Reach the highest peak. Shoot, share, win.

Comprehensive Two-Dimensional Chromatography (GC×GC and LC×LC) Courses: Introduction, Advances, and Applications

Sunday, May 17, 2026

GC×GC COURSE

08:00 – 09:00 On-site registration/Welcome - Room RIVA

09:00 – 09:45 **INTRODUCTION AND FUNDAMENTALS**
Tadeus Gorecki
University of Waterloo, Waterloo, Canada

09:45 – 10:30 **OPTIMIZATION**
Hans-Gerd Janssen
Unilever, Vlaardingen, The Netherlands

10:30 – 11:00 **Coffee Break**

11:00 – 11:45 **GC×GC Data**
James Harynuk
University of Alberta, Alberta, Canada

11:45 – 12:45 **APPLICATIONS**
Philip Marriott
Monash University, Clayton, Victoria, Australia

12:45 – 13:00 **Q/A SESSION**

13:15 – 14:15 **Lunch on your own**

LC×LC COURSE

13:30 – 14:15 On-site registration/Welcome - Room RIVA

14:15 – 14:55 **INTRODUCTION – BASIC PRINCIPLES**
Francesco Cacciola
University of Messina, Italy

14:55 – 15:45 **INSTRUMENTATION**
Miguel Herrero
Institute of Food Science Research (CIAL), National Research Council (CSIC), Madrid, Spain

15:45 – 16:10 **Coffee Break**

16:10 – 17:00 **OPTIMIZATION**
Miguel Herrero
Institute of Food Science Research (CIAL), National Research Council (CSIC), Madrid, Spain

17:00 – 17:30 **SELECTED APPLICATIONS: BIO/PHARMA**
Koen Sandra,
R.I.C., Kortrijk, Belgium

17:30 – 18:00 **SELECTED APPLICATIONS: FOOD & NATURAL PRODUCTS**
Francesco Cacciola
University of Messina, Italy

18:00 – 18:30 **Q/A SESSION**

18:30 **Cocktail offered by SHIMADZU Europa GmbH for the GC×GC and LC×LC Courses Participants**

EXHIBITION HALL

44th INTERNATIONAL SYMPOSIUM ON CAPILLARY CHROMATOGRAPHY AND 21st GC×GC SYMPOSIUM Riva del Garda, Italy, 17 - 22 May, 2026

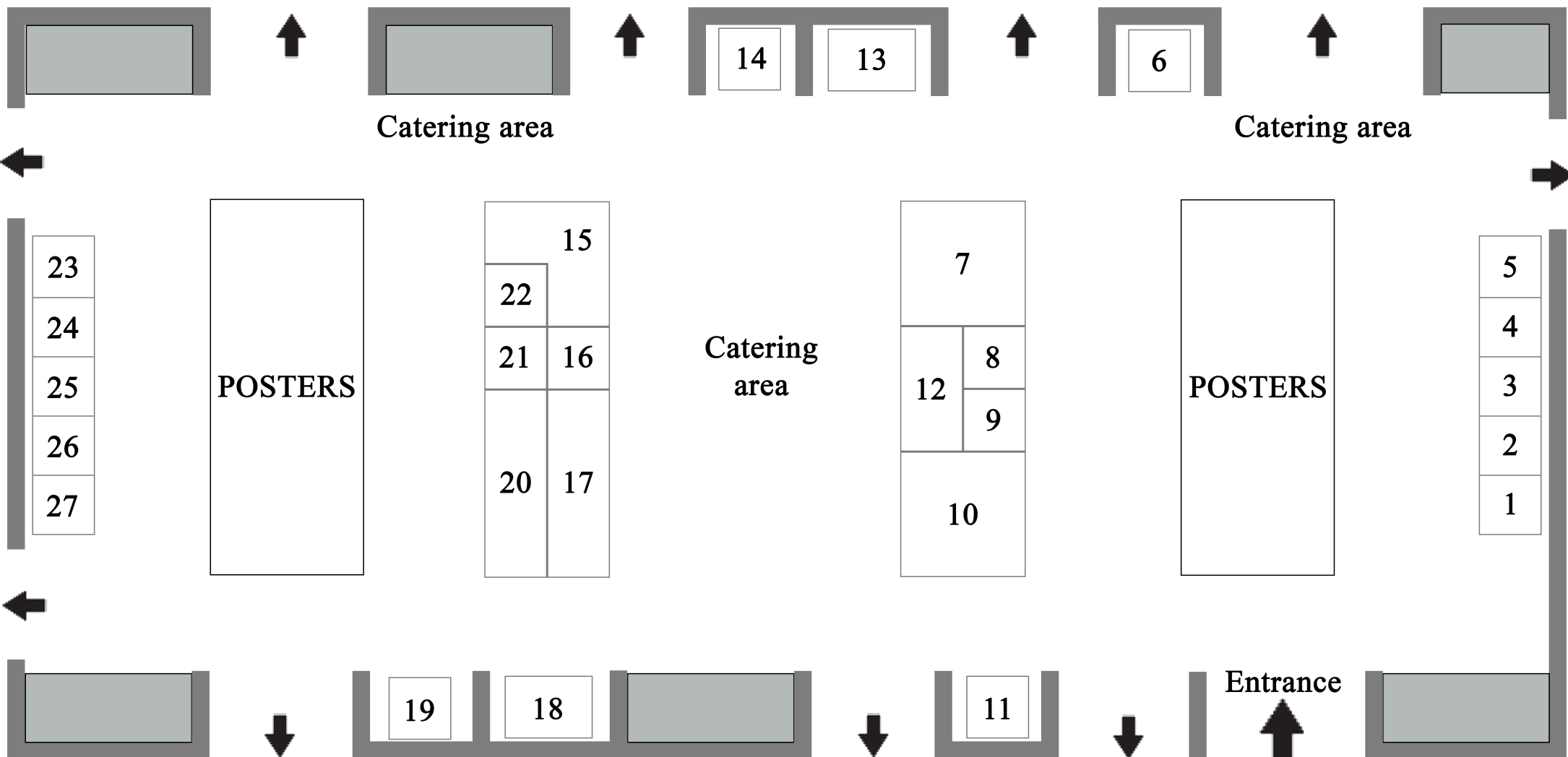


- 1 Nimfast
- 2 Ion Bench
- 3 Peak Scientific
- 4 Gerstel
- 5 Brechbühler
- 6 Entech Instruments
- 7 LECO

- 8 VUV Analytics
- 9 GL Sciences
- 10 Shimadzu
- 11 Axcend
- 12 Waters
- 13 Markes
- 14 Labotec

- 15 LNI Swissgas Generators
- 16 JEOL
- 17 Merck KGaA
- 18 Lab Tech
- 19 Pic Solution
- 20 Agilent
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- 22 RESTEK
- 23 Da Vinci Laboratory Solution
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- 26 Spectra Analysis
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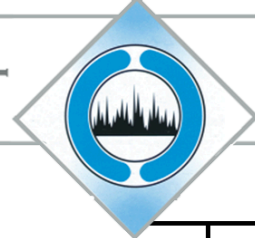


K35	K34	K1		E2	E1	B3	B2
K36	K33	K2	H19	E3		B4	B1
K37	K32	K3	H18	E4	D17	B5	
K38	K31	K4	H17	E5	D16	B6	A14
K39	K30	K5	H16	E6	D15	B7	A13
K40	K29	K6	H15	E7	D14	B8	A12
K41	K28	K7	H14		D13	B9	A11
K42	K27	K8	H13	F1	D12		A10
K43	K26	K9	H12	F2	D11	C1	A9
K44	K25	K10	H11	F3	D10	C2	A8
K45	K24	K11	H10	F4	D9	C3	A7
K46	K23	K12	H9	F5	D8	C4	A6
K47	K22	K13	H8	F6	D7	C5	A5
K48	K21	K14	H7		D6	C6	A4
K49	K20	K15	H6	H1	D5	C7	A3
K50	K19	K16	H5	H2	D4	D1	A2
	K18	K17	H4	H3	D3	D2	A1

Poster Presentation: *Tuesday p.m.: A, B, C, D, E, F, H, K*

Wednesday, May 20th
 Thursday, May 21st

EXHIBITION HALL



N45	N44	N11	N10		L11	L10	I1
N46	N43	N12	N9		L12	L9	I2 G16
N47	N42	N13	N8		L13	L8	I3 G15
N48	N41	N14	N7		L14	L7	I4 G14
	N40	N15	N6		L15	L6	I5 G13
	N39	N16	N5		L16	L5	I6 G12
	N38	N17	N4		L17	L4	I7 G11
	N37	N18	N3		L18	L3	I8 G10
	N36	N19	N2		L19	L2	I9 G9
	N35	N20	N1		L20	L1	I10 G8
	N34	N21			L21		I11 G7
	N33	N22	O5			J10	I12 G6
	N32	N23	O4		M1	J9	G5
	N31	N24	O3		M2	J8	J1 G4
	N30	N25	O2		M3	J7	J2 G3
	N29	N26	O1		M4	J6	J3 G2
	N28	N27			M5	J5	J4 G1

Poster Presentation: *Wednesday a.m.: G, I p.m.: J, L*
Thursday a.m.: M, O p.m.: N

SCIENTIFIC PROGRAM 21st GC×GC

Monday, May 18, 2026

08:30 – 08:45	Opening Address 21st GC×GC - Room Garda <i>Chairpersons:</i> <i>Luigi Mondello</i> <i>University of Messina, Italy</i> <i>Philip Marriott</i> <i>Monash University, Australia</i>
08:45 – 10:50	GC×GC Session 1 – Awards Presentation and Lectures
08:45	GC×GC Lifetime Achievement Award Presentation Sponsored by SepSolve Analytical, Markes International and LECO
09:00	Le.01 Award Lecture LABRADOR VS. LABORATORY IN ARSON INVESTIGATIONS. GC×GC-TOFMS TO THE RESCUE <i>James Harynuk</i> <i>University Of Alberta, Alberta, Canada</i>
09:20	Le.02 Award Lecture TARGETED AND NON-TARGETED GC×GC-HRT INVESTIGATIONS OF DDT PESTICIDE MANUFACTURING WASTE PRODUCTS DUMPED OFF THE CALIFORNIA COAST <i>Robert K Nelson, Christopher M Reddy</i> <i>Department of Marine Chemistry and Geochemistry, MA, United States</i>
09:40	Le.03 Award Lecture BEYOND PRETTY CHROMATOGRAMS: HOW GC×GC TRANSFORMED OIL SPILL SCIENCE <i>Christopher M Reddy, Robert K Nelson</i> <i>Department of Marine Chemistry and Geochemistry, MA, United States</i>
10:00	John Phillips Award Presentation Sponsored by LECO
10:10	Le.04 Award Lecture GC×GC-MS: FROM METHOD DEVELOPMENT TO DATA PROCESSING, FROM ACADEMIA TO INDUSTRY: A FULL CIRCLE SCIENTIFIC JOURNEY <i>Meriem Gaida</i> <i>Luzi AG, Zurich, Switzerland</i>
10:30	Le.05 Award Lecture FROM COMPLEX MIXTURES TO CLASSROOM: GC×GC MEASUREMENT SCIENCE FOR (MICRO) PLASTIC WASTE <i>Petr Vozka</i> <i>California State University, Los Angeles, Los Angeles, United States (US)</i>
10:50 – 11:20	Coffee Break

<p>11:20 – 13:15</p>	<p>GC×GC Session 2 – FUNDAMENTALS 1 Room Garda Chairpersons: Robert E. Synovec, University of Washington, USA Erwin Rosenberg, TU Wien, Austria</p>	<p>GC×GC Session 3 – FOOD Room Dolomiti Chairpersons: Chiara Cordero, University of Turin, Italy Peter Q. Tranchida, University of Messina, Italy</p>
<p>11:20</p>	<p>Le.06 INNOVATIONS IN GC×GC MODULATOR DESIGN WITH 3D PRINTING, AND SELECTED NOVEL APPLICATIONS Philip Marriott^{1,2}, Ian J. Wittman¹ ¹Monash University, Melbourne, Melbourne, Australia ²Universiti Sains Malaysia, Pulau Penang, Malaysia</p>	<p>Le.13 USING COMPREHENSIVE GCXGC TO IMPROVE THE SENSITIVITY AND TEMPORAL RESOLUTION IN FOOD FLAVOUR ANALYSIS Hans-gerd Janssen^{1,2}, Fulvia Trapani³, Herral Steenbergen² ¹Wageningen University And Research, Wageningen, Netherlands ²Unilever Research, Wageningen, Netherlands ³University Of Turin, Turin, Italy</p>
<p>11:40</p>	<p>Le.07 MODULATION IN GC×GC: A JOURNEY OVER THREE DECADES Tadeusz Gorecki University Of Waterloo, Waterloo, Canada</p>	<p>Le.14 LC/GC(×GC) A POWERFUL TOOLBOX IN FOOD ANALYSIS Giorgia Purcaro¹, Aleksandra Gorska¹, Damien Pierret¹, Carlo Bellinghieri^{2,1}, Marco Beccaria² ¹Gembloux Agro-bio Tech, University Of Liège, Gembloux, Belgium ²University Of Ferrara, Ferrara, Italy</p>
<p>12:00</p>	<p>Le.08 COMPREHENSIVE TWO DIMENSIONAL GAS CHROMATOGRAPHY VS MULTIPLEX GAS CHROMATOGRAPHY AKA CORRELATION CHROMATOGRAPHY – MICROBIAL VOC DETECTION AS A CASE STUDY Robert A Shellie¹, Wan Sin Heng², Snehal Jadhav³, Maiken Ueland⁴ ¹University Of Tasmania, Launceston, Australia ²Trajan Scientific And Medical, Ringwood, Australia ³Deakin University, Burwood, Australia ⁴University Of Technology Sydney, Ultimo, Australia</p>	<p>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, Graz, Austria</p>
<p>12:15</p>	<p>Le.09 HYPERFAST COMPREHENSIVE GC: FUNDAMENTALS, EXPERIMENTAL SETUP AND MEASUREMENTS Peter Boeker¹, Jan Leppert¹, Matthias Wüst¹, Nick Bukowski², Steve Smith² ¹University Of Bonn, Bonn, Germany ²Sepsolve Analytical Ltd., Bridgend, United Kingdom</p>	<p>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</p>
<p>12:30</p>	<p>Le.10 METHOD TRANSLATION AND PERFORMANCE OF HYDROGEN CARRIER GAS FOR GC×GC Katelynn A. Perrault Uptmor, Kira Fisher, Barbara Grace Saunders, Emma Macturk William & Mary, Williamsburg, United States</p>	<p>Le.17 GCXGC-TOFMS USE FOR THE INVESTIGATION OF CHEESE VOLATILOME COMPLEXITY Henryk H. Jeleń, Natalia Drabińska-fois, Martyna N. Wiczorek Poznań University Of Life Sciences, Poznań, Poland</p>

12:45	<p>Le.11 MINIATURIZATION OF COLUMNS FOR COMPREHENSIVE GC <i>Pascal Cardinael</i> <i>University Of Rouen Normandy, Rouen, France</i></p>	<p>Le.18 A NOVEL ANALYTICAL SYSTEM FOR COMBINING ENANTIOSELECTIVE GC×GC-MS AND LOW-PRESSURE GC-MS THROUGH A SWITCHING VALVE <i>Mariosimone Zoccali¹, Giorgia Rinaldi¹, Antonio Ferracane¹, Luigi Mondello^{1,2}</i> ¹<i>University of Messina, Messina, Italy</i> ²<i>Chromaleont S.r.l., Messina, Italy</i></p>
13:00	<p>Le.12 CHROMATOGRAPHIC FUSION: AN INTEGRATED WORKFLOW FOR GC×GC-FID/MS DATA <i>Daniela Peroni¹, Andrea Caratti², Chiara Cordero²</i> ¹<i>SRA Instruments, Cernusco Sul Naviglio, Italy</i> ²<i>Università Degli Studi Di Torino, Torino, Italy</i></p>	<p>Le.19 “PRENDIAMO UN CAFFÈ?” GC×GC-HRTOFMS ANALYSIS OF ROASTED COFFEE AROMA WITH AI-ASSISTED STRUCTURE ANALYSIS FOR UNKNOWN COMPOUNDS <i>Robert B Cody</i> <i>JEOL USA, Inc., Peabody, MA, United States (US)</i></p>
13:15 – 14:15	Lunch Break on your own	
14:15 – 16:10	<p>GC×GC Session 4 – ENVIRONMENTAL Room Garda <i>Chairpersons:</i> <i>James Harynuk, University of Alberta, Canada</i> <i>Tadeusz Gorecki, University of Waterloo, Canada</i></p>	<p>GC×GC Session 5 – BIO-ANALYTICAL AND ARTIFICIAL INTELLIGENCE Room Dolomiti <i>Chairpersons:</i> <i>Philip Marriott, Monash University, Australia</i> <i>Mariosimone Zoccali, University of Messina, Italy</i></p>
14:15	<p>Le.20 DETECTION OF ORGANOHALOGEN COMPOUNDS IN AN ARCHIVED SEDIMENT CORE SAMPLE OF THE JAPAN SEA USING GC×GC-HRTOFMS AND GC-HRMS <i>Teruyo Ieda¹, Shunji Hashimoto¹, Tatsuya Kunisue²</i> ¹<i>National Institute For Environmental Studies (NIES), Ibaraki, Japan</i> ²<i>Center For Marine Environmental Studies (CMES), Ehime University, Ehime, Japan</i></p>	<p>Le.27 GC×GC-(HR)TOFMS VOLATOLOMICS: ADVANCES IN DISEASE DIAGNOSIS <i>Jef Focant</i> <i>University Of Liège, Liège, Belgium</i></p>
14:35	<p>Le.21 ADVANCING POPS ANALYSIS THROUGH UNIFIED GC×GC-MS WORKFLOWS <i>Flavio Antonio Franchina, Maria Chiara Corviseri, Marco De Poli, Monica Romagnoli, Luisa Pasti, Allan Polidoro</i> <i>University Of Ferrara, Ferrara, Italy</i></p>	<p>Le.28 EARLY LIFE EXPOSURE TO MICROPLASTICS AND PLASTICS ADDITIVES STUDIED BY NOVEL COMPREHENSIVE TWO- AND THREE-DIMENSIONAL SEPARATION TECHNIQUES <i>Karl J. Jobst, Justine R. Bissonnette, Nikita E. Harvey, Mikela L. Rowsell, Emmanuel C. Tolefe, Gavyn C. Lastoria, Lindsay S. Cahill</i> <i>Memorial University Of Newfoundland, St. John's, Canada</i></p>
14:50	<p>Le.22 AN AUTOMATED, RAPID, IN-SITU TECHNIQUE FOR AGING AND CHEMICAL EVALUATION OF HIGH EXPLOSIVES USING GC×GC-HRMS <i>Chris Freye, Colleen Ray</i> <i>Los Alamos National Laboratory, Los Alamos, United States</i></p>	<p>Le.29 DEVELOPMENT OF FULL MULTI-OMICS WORKFLOWS FOR MICROBIOME SAMPLES BY GC×GC-MS <i>Pierre-hugues Stefanuto, Thibaut Dejong, Anais Rodrigues, Kinjal Bhatt, Meriem Gaida, Jean-François Focant</i> <i>University Of Liège, Liège, Belgium</i></p>

15:05	<p>Le.23 DETERMINATION OF EMERGENING CONTAMINANTS IN MUNICIPAL WASTEWATER BY COMPREHENSIVE TWO DIMENSIONAL GAS CHROMATOGRAPHY-ORBITRAP HIGH RESOLUTION MASS SPECTROMETRY <i>Liu Xiangping¹, Marriott Philip²</i> ¹Nanjing Municipal Center For Disease Control And Prevention, Nanjing, China ²Monash University, Melbourn, Australia</p>	<p>Le.30 ONE SIZE FITS ALL: SMALL, REUSABLE PDMS BANDS CAPTURE THE HUMAN SKIN VOLATILOME TO FIND DIFFERENTIAL MARKERS OF DISEASE BY GCXGC-TOFMS <i>Yvette Naude^{1,2}, Egmont Rohwer¹</i> ¹University Of Pretoria, Pretoria, South Africa ²University Of Pretoria Institute For Sustainable Malaria Control (UPISMC), Pretoria, South Africa</p>
15:20	<p>Le.24 TWO-DIMENSIONAL GAS CHROMATOGRAPHY AND HIGH-RESOLUTION MASS SPECTROMETRY FOR PFAS SUSPECT SCREENING IN ENVIRONMENTAL SAMPLES <i>Anais Rodrigues¹, Sebastiano Pantò¹, Flavio A. Franchina²</i> ¹LECO European Application & Technology Centre, Berlin, Germany ²University Of Ferrara, Ferrara, Italy</p>	<p>Le.31 EMISSION OF VOLATILE ORGANIC COMPOUNDS FROM RAW MATERIALS POTENTIALLY USED IN HUMAN ODOR SAMPLING <i>Jérôme Vial¹, Elsa Boudard^{1,2}, Nabil Moumane², José Dugay¹, Michel Sablier^{1,3}, Didier Thiebaut^{1,3}</i> ¹ESPCI, Paris, France ²Sensebiotek Health-care, Aigremont, France ³CNRS, Paris, France</p>
15:35	<p>Le.25 IDENTIFYING PREMATURE DETERIORATION IN CEMENTITIOUS MATERIALS USING VOLATILOMICS <i>Jason Henry Ideker¹, Oluwaseun Jegede¹, Jenna Diefenderfer², Heather Bean³</i> ¹Oregon State University, Corvallis, United States (US) ²Arizona State University, Tempe, United States (US) ³Arizona State University, Tempe, United States</p>	<p>Le.32 BRIDGING DIMENSIONS: HOW EXTENDED REALITY ENHANCES GCXGC-MS DATA VISUALISATION AND INTERPRETATION <i>Michael Wilde, Hayley Manners, Shaun Lewin, Bruce Lockie</i> University Of Plymouth, Plymouth, United Kingdom (UK)</p>
15:50	<p>Le.26 REDUCING PLASTIC WASTE IMPACTS THROUGH BETTER CHARACTERISATION OF RECYCLED MATERIALS <i>Lina Mikaliunaite¹, James Ogden², Laura Laura McGregor², Steve Smith², Anthony Buchanan², Matthew Edwards³, Khaled Murtada³</i> ¹Markes International Ltd, 1000B, Central Park, Western Avenue, Bridgend, UK ²Sepsolve Analytical Ltd, Peterborough, UK ³Sepsolve Analytical, Kitchener, Canada</p>	<p>Le.33 PRELIMINARY FEATURE EXTRACTION ALGORITHM FOR COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY <i>Leandro Wang Hantao, Andre Cunha Paiva, Glaucimar Alex Passos Resende, Carlos Alberto Teixeira</i> University Of Campinas, Campinas, Brazil</p>
16:10 – 16:40	Coffee Break	
16:40 – 18:50	<p>GC×GC Young Session 1 Room Garda Chairpersons: <i>Hans-Gerd Janssen, Wageningen University and Research, The Netherlands</i> <i>Flavio A. Franchina, University of Ferrara, Italy</i></p>	<p>GC×GC Young Session 2 Room Dolomiti Chairpersons: <i>Jean-François Focant, University of Liège, Belgium</i> <i>Katelynn A. Perrault Uptmor, William & Mary, USA</i></p>

<p>16:40</p>	<p>YLe.01 NEW DATA ANALYSIS WORKFLOW FOR THE IDENTIFICATION AND PRIORITIZATION OF NEUTRAL PFAS IN ENVIRONMENTAL SAMPLES BY GC×GC-MS <i>Nadine Gawlitta^{1,2}, Oskar Munk Kronik², Phebe Bonilla¹, Giorgio Tomasi², Nikoline Juul Nielsen², Jan H. Christensen², Xenia Trier², Charlotte Scheutz¹</i> ¹Technical University Of Denmark, Lyngby, Denmark ²University Of Copenhagen, Frederiksberg C, Denmark</p>	<p>YLe.14 COMBINING GC-HRMS AND GC×GC-HRMS FOR COMPREHENSIVE ANALYSIS OF BREAST SKIN VOLATILE ORGANIC COMPOUNDS DURING PREGNANCY <i>Serena Reale¹, Matyas Ripszam², Marta Buselli¹, Tommaso Lomonaco¹, Fabio Di Francesco¹</i> ¹University Of Pisa, Pisa, Italy ²Metitech Srl, Pisa, Italy</p>
<p>16:50</p>	<p>YLe.02 GC×GC×CIMS : A COMPREHENSIVE THREE-DIMENSIONAL SEPARATION TECHNIQUE THAT WILL ACCELERATE THE DISCOVERY OF UNDOCUMENTED PER-/POLYFLUOROALKYL SUBSTANCES <i>Emmanuel C. Tolefe¹, Gavyn C. Lastoria¹, Jonathan Grandy², Matthew Edwards², David Megson³, Frank Dorman^{4,5}, Karl J. Jobst¹</i> ¹Memorial University Of Newfoundland, St Johns, Canada ²Sepsolve Analytical, Waterloo, Canada ³Manchester Metropolitan University, Manchester, United Kingdom ⁴Waters Corporation, Milford, United States ⁵Dartmouth College, Hanover, United States</p>	<p>YLe.15 Genzo Shimadzu selected young lecture UNVEIL THE TOXICOLOGICALLY RELEVANT FRACTION OF MINERAL OIL BY ON-COLUMN GC×GC <i>Damien Pierret, Aleksandra Gorska, Giorgia Purcaro</i> <i>University Of Liege (gembloux Agro Bio Tech), Gembloux, Belgium</i></p>
<p>17:00</p>	<p>YLe.03 ADVANCED CHARACTERIZATION OF CONVENTIONAL AND SUSTAINABLE AVIATION FUELS USING COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY <i>Nathan De Souza Coelho¹, Zenilda De Lourdes Cardeal¹, Helvécio Costa Menezes¹, Vânia Marcia Duarte Pasa¹, Paulo Jorge Sanches Barbeira¹, Virgínia Salete Cotta Pereira², Anderson Rouge dos Santos³, Gerson Fernandes Araujo Junior³, Vinicius Marcenos Gonçalves de Souza³</i> ¹UFMG, Belo Horizonte, Brazil ²Federal University of Minas Gerais (UFMG), Belo Horizonte, MG, Brazil ³Petróleo Brasileiro S.A. (Petrobras), Rio de Janeiro, RJ, Brazil</p>	<p>YLe.16 DIVING INTO TIRE WEAR PARTICLES' COMPOSITION USING PYROLYSIS COUPLED TO COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY-(PI/EI) TIME OF FLIGHT MASS SPECTROMETRY <i>Géraldine Dumont^{1,2}, Siebe Lievens¹, Marco Mattonai³, Greta Biale³, Jacopo La Nasa³, Milica Velimirovic², Jan Jordens², Pierre - Hugues Stefanuto¹, Jean-François Focant¹, Francesca Modugno³</i> ¹University Of Liège, Liège, Belgium ²Flemish Institute For Technological Research (VITO), Mol, Belgium ³University Of Pisa, Pisa, Italy</p>
<p>17:10</p>	<p>YLe.04 USING COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY TO UNVEIL LIPID DEOXYGENATION REACTION INTERMEDIATES IN DROP-IN BIOFUELS PROCESS DEVELOPMENT <i>Joana Fernandes, Loïs Morineau, Etienne Girard, Antoine Daudin, Nicolas Boudet</i> <i>IFP Energies Nouvelles, Solaize, France</i></p>	<p>YLe.17 CHARACTERIZATION OF THE VOLATILE FRACTION OF USED WIND TURBINE BLADE PYROLYSIS OIL BY TWO-DIMENSIONAL GAS CHROMATOGRAPHY <i>Tiziana Orlando^{1,2}, Charlotte Mase^{3,4}, Marco Piparo^{3,4}, Callum Branfoot⁵, Jean-François Focant¹, Brice Bouyssiere^{2,4}, Pierre Giusti^{3,4}</i> ¹Université De Liège, Liège, Belgium ²Université De Pau Et Des Pays De L'adour, Pau, France ³Totalenergies, Harfleur, France ⁴International Joint Laboratory – Ic2mc: Complex Matrices Molecular Characterization, Harfleur, France ⁵NCC, Bristol, United Kingdom</p>

<p>17:20</p>	<p>YLe.05 ANALYTICAL WORKFLOW FOR PARALLEL ANALYSIS OF MINERAL OIL AND PAHS BY HPLC/GC×GC-TOFMS/FID <i>Carlo Bellinghieri^{1,2}, Aleksandra Gorska², Flavio Antonio Franchina¹, Marco Beccaria¹, Giorgia Purcaro²</i> ¹University Of Ferrara, Ferrara, Italy ²University Of Liege, Gembloux, Belgium</p>	<p>YLe.18 DETAILED CHARACTERIZATION AND CLASSIFICATION OF WASTE TIRE PYROLYSIS OILS FOR HETEROATOM-CONTAINING COMPOUNDS USING GC×GC/TOFMS AND CHEMOMETRIC ANALYSIS <i>Xiangdong Chen^{1,2}, Carlos Rincon², José Dugay¹, Benoît Gadenne², Michel Sablier¹, Jérôme Vial¹</i> ¹LSABM-ESPCI, PARIS, France ²MFP Michelin, Clermont-ferrand CEDEX 09, France</p>
<p>17:30</p>	<p>YLe.06 BEYOND CONVENTIONAL APPROACHES: GC×GC-MS AS A BREAKTHROUGH TOOL FOR ALLERGEN QUANTIFICATION AND CHARACTERIZATION OF NATURAL COMPLEX SUBSTANCES <i>Elsa Boudard¹, Bruna Da Silva Alves¹, Nelly Flores¹, Diana Veronese¹, Thomas Dutriez¹, Eli Wilson², Elise Carenini²</i> ¹Givaudan, Geneva, Switzerland ²Givaudan HoN, Innovation, Vallauris, France</p>	<p>YLe.19 ADVANCED GC×GC-HRMS PROFILING OF OXYGENATED SPECIES IN CO-PROCESSING PETROGENIC AND BIOGENIC STREAMS IN THE FCC PROCESS <i>Vinícius Pereira¹, Natã Madeira¹, Vanessa Dos Santos¹, Robert Cody², Bryan Katzenmeyer², Andrea Pinto³, Raquel Silva¹, Gabriela Vanini¹, Débora De Almeida Azevedo¹</i> ¹Universidade Federal Do Rio De Janeiro, RIO DE JANEIRO, Brazil ²JEOL Instruments, Peabody, MA, United States (US) ³Petrobras, Rio De Janeiro, RJ, Brazil</p>
<p>17:40</p>	<p>YLe.07 DILUTE-AND-INJECT GC×GC-TOFMS FOR UNTARGETED AND TARGETED (PRE- AND POST-) ANALYSIS OF EXTRA-VIRGIN OLIVE OIL: A PRELIMINARY STUDY <i>Micaela Galletta¹, Mariosimone Zoccali¹, Peter Quinto Tranchida¹, Luigi Mondello^{1,2}</i> ¹University of Messina, Messina, Italy ²Chromaleont S.r.l., Messina, Italy</p>	<p>YLe.20 FORENSIC MOLECULAR GEOCHEMISTRY: A CASE STUDY OF AN OIL SPILL ON THE BRAZILIAN COAST <i>Flavia Rodrigues Alvares¹, Vinícius Barreto Pereira¹, Ana Luiza Barboza De Souza Silva¹, Luiz Augusto De Oliveira Costa², Magno Pinto Carrafa², Débora De Almeida Azevedo¹, Francisco Radler De Aquino Neto¹, Gabriela Vanini¹</i> ¹UFRJ, Rio De Janeiro, Brazil ²Ibama, Rio De Janeiro, Brazil</p>
<p>17:50</p>	<p>YLe.08 QUALITY ASSESSMENT OF BRAZILIAN OLIVE OILS BY GC×GC-MS AND CHEMOMETRICS <i>Glaucimar Alex Passos De Resende¹, Andre Cunha Paiva^{2,3}, Luidy Darllan Barbosa², Daniel Lucas Dantas Freitas⁴, Guilherme Post Sabin⁴, Leandro Wang Hantao²</i> ¹Uliège, Liège, Belgium ²Unicamp, Campinas, Brazil ³National Institute Of Science And Technology In Bioanalytics, Campinas, Brazil ⁴Openscience, Campinas, Brazil</p>	<p>YLe.21 Genzo Shimadzu selected young lecture GC×GC-MS-BASED NON-TARGET SCREENING OF HOUSE DUST FROM SEVEN EUROPEAN COUNTRIES <i>Andriy Rebryk¹, Peter Haglund²</i> ¹Vrije Universiteit Amsterdam, Amsterdam, Netherlands ²Umeå University, Umeå, Sweden</p>
<p>18:00</p>	<p>YLe.09 GEOGRAPHICAL DISCRIMINATION OF HONEY SAMPLES FROM THE 23 VIENNESE DISTRICTS EMPLOYING COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY-MASS SPECTROMETRY <i>Natalia Manousi¹, Antonio Ferracane², Apostolia Tsiasioti³, Luigi Mondello^{2,4}, Natasa Kalogiouri³, Erwin Rosenberg¹</i> ¹TU Wien, Vienna, Austria ²Messina Institute Of Technology, Messina, Italy ³Aristotle University Of Thessaloniki, Thessaloniki, Greece ⁴Chromaleont s.r.l., Messina, Italy</p>	<p>YLe.22 ALIGNING PHYSIOLOGICAL AND INSTRUMENTAL SENSITIVITY IN AI-DRIVEN VOLATILOMICS VIA GC×GC-HRMS <i>Andrea Caratti¹, Angelica Fina¹, Sara Tanilli¹, Fulvia Trapani¹, Erica Liberto¹, Giuseppe Genova², Cristina Casetta², Marica Beggio³, Carlo Bicchi¹, Chiara Cordero¹</i> ¹University Of Turin, Turin, Italy ²Soremartec Italia, Alba (CN), Italy ³Agilent Technologies, Cernusco Sul Naviglio (MI), Italy</p>

<p>18:10</p>	<p>YLe.10 DIRECT LIQUID INJECTION IN GC×GC-QTOF QUALITY PROFILING OF COMMERCIAL WHISKIES <i>Brian Van 't Veer^{1,2}, Sander Affourtit², Hans-gerd Janssen^{3,1}</i> ¹<i>Wageningen University & Research, Wageningen, The Netherlands</i> ²<i>Da Vinci Laboratory Solutions, Rotterdam, The Netherlands</i> ³<i>Unilever Foods Innovation Centre, Wageningen, The Netherlands</i></p>	<p>YLe.23 TOWARD ROBUST COMPREHENSIVE GC×GC COMBUSTION ISOTOPE RATIO MASS SPECTROMETRY: DEVELOPMENT OF NICKEL-WALL COATED MICROREACTORS <i>Habib Al-ghoul, Martin Elsner</i> <i>Technical University Of Munich, Garching, Germany</i></p>
<p>18:20</p>	<p>YLe.11 CROSS-SECTIONAL AND LONGITUDINAL VOLATILOMIC PROFILING OF BALSAMIC VINEGARS BY HS-SPME-GC×GC-TOFMS <i>Allan Dos Santos Polidoro, Sofia Malcangi, Monica Romagnoli, Flavio Antonio Franchina</i> <i>Università Degli Studi Di Ferrara, Ferrara, Italy</i></p>	<p>YLe.24 A DOE-BASED APPROACH TO ASSESS RETENTION INDICES VARIABILITY IN GC×GC ACROSS COLUMN PHASES AND OPERATING CONDITIONS <i>Djulia Bensaada¹, Anaïs Rodrigues¹, Jean-marie Dimandja², Jean-françois Focant¹, Pierre-hugues Stefanuto¹</i> ¹<i>Organic And Biological Analytical Chemistry Group, Molsys Research Unit, University Of Liège, Liège, Belgium</i> ²<i>Georgia Institute Of Technology, GW Woodruff School Of Mechanical Engineering, Atlanta, USA</i></p>
<p>18:30</p>	<p>YLe.12 Genzo Shimadzu selected young lecture METABOLOMIC PROFILING FOR SPECIES-LEVEL IDENTIFICATION OF SPF WOOD USING GC×GC-TOFMS <i>Ewenet Yemane Mesfin¹, Seo Lin Nam¹, Lyne Touchette², Isabelle Duchesne², Nathalie Isabel², Martin Williams³, James J. Harynuk¹</i> ¹<i>University Of Alberta, Edmonton, Canada</i> ²<i>Natural Resource Canada, Québec City QC, Canada</i> ³<i>Natural Resource Canada, Fredericton NB, Canada</i></p>	<p>YLe.25 OPTIMIZATION OF DIRECT THERMAL EXTRACTION PARAMETERS FOR ANALYSIS OF HIGH-WATER CONTENT SAMPLES USING COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY <i>Jenna Diefenderfer^{1,2}, Trenton J. Davis², Oluwaseun Jegede³, Jason H. Ideker³, Heather D. Bean^{1,2}</i> ¹<i>Arizona State University, Tempe, United States (US)</i> ²<i>The Biodesign Institute, Tempe, United States (US)</i> ³<i>Oregon State University, Corvallis, United States (US)</i></p>
<p>18:40</p>	<p>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 <i>Apostolia Tsiasioti^{1,2}, Natalia Manousi², Antonio Ferracane³, Luigi Mondello³, Erwin Rosenberg², Natasa P. Kalogiouri¹</i> ¹<i>Aristotle University Of Thessaloniki, Thessaloniki, Greece</i> ²<i>TU Wien, Vienna, Austria</i> ³<i>University Of Messina, Messina, Italy</i></p>	<p>YLe.26 ION APPROACH IN MOLECULAR INVESTIGATION OF MULTIDIMENSIONAL DATA: A NOVEL WAY TO ACCELERATE RESULTS <i>Dayane Magalhães Coutinho¹, Felipe Raposo Passos De Mansoldo¹, Vinícius Barreto Pereira¹, Clarisse Lacerda Torres¹, Daniel Silva Dubois², Gabriela Vanini¹, Débora De Almeida Azevedo¹</i> ¹<i>Federal University Of Rio De Janeiro, Rio De Janeiro, Brazil</i> ²<i>Petrobras - Cenpes, Rio De Janeiro, Brazil</i></p>
<p>19:00</p>	<p>Welcome Reception Cocktail offered by Chromaleont, RIC Group and SPECTRA Analysis</p>	

09:00 – 10:35	Opening Address 44th ISCC - Room Garda ISCC Session 1 – Awards Presentation and Lectures <i>See ISCC program for details</i>	
10:35 – 11:05	Coffee Break – Exhibition	
11:05 – 13:00	GC×GC Session 6 – FUNDAMENTALS 2 AND FOOD 2 Room Dolomiti <i>Chairpersons:</i> <i>Giorgia Purcaro, Gembloux Agro-bio Tech, Belgium</i> <i>Leandro Wang Hantao, University of Campinas, Brazil</i>	ISCC Session 2 – NANO AND CAPILLARY LIQUID CHROMATOGRAPHY Room Garda <i>See ISCC program for details</i>
11:05	Le.34 BEYOND RESOLUTION: GC×GC AS AN ENABLER OF PREDICTIVE, PURPOSE-DRIVEN ANALYTICAL SCIENCE <i>Chiara Cordero¹, Andrea Caratti¹, Erica Liberto¹, Carlo Bicchi¹, Angelica Fina¹, Fulvia Trapani¹, Sara Tanilli¹, Qingping Tao², Stephen E Reichenbach^{2,3}, Carlo Bicchi¹</i> ¹ <i>University Of Turin, Turin, Italy</i> ² <i>GC Image, Lincoln-ne, United States (US)</i> ³ <i>University Of Nebraska, Lincoln-ne, United States (US)</i>	
11:25	Le.35 MAJOR BENEFITS OF USING COMPREHENSIVE 2D GAS CHROMATOGRAPHY-MASS SPECTROMETRY IN FOOD ANALYSIS <i>Peter Q. Tranchida¹, Mariosimone Zoccali¹, Micaela Galletta¹, Alessia Arena², Antonio Ferracane¹, Luigi Mondello^{1,2}</i> ¹ <i>University of Messina, Messina, Italy</i> ² <i>Chromaleont S.r.l., Messina, Italy</i>	
11:45	Le.36 TRANSFERABILITY OF MOAH ANALYSIS FROM THERMAL-MODULATED TO FLOW-MODULATED GCXGC <i>Nancy Wolf, Martin Lommatzsch, Sebastian Säger, Martin Eckardt</i> <i>Laboratory Lommatzsch & Säger, Radebeul, Germany</i>	
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 <i>Laura Barp</i> <i>University Of Udine, Udine, Italy</i>	

12:15	<p>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 <i>Scott James Hoy, Nick Harden, Sofia Nieto, Matthew Curtis</i> <i>Agilent Technologies, Wilmington, United States</i></p>	
12:30	<p>Le.39 ISOLATION STRATEGIES FOR TRI-/POLYAROMATIC HYDROCARBONS AND DETERMINATION VIA GCXGC-MS/FID <i>Martin Lommatzsch¹, Martin Eckardt¹, Sebastian Säger¹, Thomas Simat²</i> ¹Laboratory Lommatzsch & Säger, Cologne, Germany ²Technical University Dresden, Dresden, Germany</p>	
12:45	<p>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 <i>Alexander Montoya-arroyo^{1,2}, Tommy Licht Cederberg¹</i> ¹Technical University Of Denmark, Kgs Lyngby, Denmark ²European Union Reference Laboratory For Processing Contaminants (EURL-PC), Kgs Lyngby, Denmark</p>	
13:00 – 14:00	Lunch Break on your own	
14:00 – 15:20	<p>GC×GC Session 7 – PETROCHEMICAL Room Dolomiti Chairpersons: <i>Robert A. Shellie, University of Tasmania, Australia</i> <i>Robert K. Nelson, Woods Hole Oceanographic Institution, USA</i></p>	<p>ISCC Session 3 – HYPHENATED AND MULTIDIMENSIONAL TECHNIQUES Room Garda <i>See ISCC program for details</i></p>
14:00	<p>Le.41 ADAPTING TILE-BASED DISCOVERY ANALYSIS FOR COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY WITH VACUUM ULTRAVIOLET SPECTROSCOPY (GC×GC-VUV) DATA OF GAS OILS <i>Robert E. Synovec¹, Wenjing Ma¹, Aleksandra Lelevic^{2,3}, Paul-albert A. Schneide^{4,5}</i> ¹University Of Washington, Seattle, United States ²IFP Energies Nouvelles, Solaize, France ³Université Claude Bernard Lyon 1, Villeurbanne, France ⁴University Of Copenhagen, Frederiksberg C, Denmark ⁵BASF SE, Ludwigshafen Am Rhein, Germany</p>	
14:20	<p>Le.42 PREDICTING THE PROPERTIES OF SUSTAINABLE AVIATION FUELS FROM THEIR COMPREHENSIVE ANALYSIS BY GC×GC/MS <i>Erwin Rosenberg¹, Noemae Lim¹, Peter Boerzsei¹, Armig Kabrelian¹, Markus Latschka², Georg Lenk², Markus Maly²</i> ¹TU Wien, Vienna, Austria ²OMV Downstream Gmbh, Vienna, Austria</p>	

14:35	<p>Le.43 THE RESURGENCE OF GC(×GC) IN FUEL ANALYSIS – NEW CHALLENGES IN THE ASSESSMENT OF EMERGING SYNTHETIC FUELS. <i>Thomas Gröger, Hannes Lüdtkke, Samuel Grams, Barbara Giocastro, Thomas Mannsdörfer, Torsten Methling, Georg Eckel, Markus Köhler</i> <i>German Aerospace Center (DLR), Stuttgart, Germany</i></p>	
14:50	<p>Le.44 HOW GC×GC DE-RISKS THE INDUSTRIAL ENERGY TRANSITION: FROM PETROLEUM TO BEYOND <i>Marco Piparo, Pierre Giusti, Marco Beccaria, Charlotte Mase, Caroline Mangote</i> <i>Totalenergies, Rorgerville, France</i></p>	
15:05	<p>Le.45 THE BODY SCENT AS A NON-INVASIVE INDICATOR OF A WOMAN'S AGE <i>Veronika Škeříková, Ulrika Sandra Malá, Lenka Jánošíková, Jana Čechová, Štěpán Urban</i> <i>UCT Prague, Prague, Czech Republic</i></p>	
15:20 – 16:50	Coffee Break – Exhibition – Vendor Seminars – Posters A, B, C, D, E, F, H, K	
15:45 – 16:45	<p>Room Garda Seminar LECO Advancing Complex Sample Analysis with GC×GC-TOFMS <i>Christine Loeb-Stubbins and John Hayes</i> Turning Complexity into Clarity for Forensic and Food Samples Using GC×GC-TOFMS <i>Katelynn Perrault Uptmor</i></p> <p>Thermal vs Flow Modulation in GC×GC: Practical Insights for Environmental and Metabolomics Applications <i>Flavio Antonio Franchina</i></p>	<p>Room Dolomiti Seminar SPECTRA ANALYSIS Solid-deposition FTIR technology for unrivaled identification capability in hyphenated chromatographic applications <i>Paola Donato and William W. Carson</i></p>
16:50 – 18:35	<p>GC×GC Session 8 – INDUSTRY – VOCs Room Dolomiti <i>Chairpersons:</i> <i>Thomas Gröger, German Aerospace Center (DLR), Stuttgart, Germany</i> <i>John Dimandja, Georgia Institute of Technology, USA</i></p>	<p>ISCC Session 4 – SUPERCRITICAL FLUID CHROMATOGRAPHY – CONTAMINANTS Room Garda <i>See ISCC program for details</i></p>
16:50	<p>Le.46 SPECIATION OF N-, O-, AND CL-CONTAMINANTS IN DISTILLED FRACTIONS OF PLASTIC PYROLYSIS OIL: DISTINCT ANALYTICAL METHODS FOR EACH ELEMENT <i>Bruno Da Costa Magalhaes, Pascal Pijcke, Niels Verhoosel, Ron Bassie, Stephen Goethals, Philip Janssen, Cesare Benedetti, Matthijs Ruitenbeek, Georgios Bellos, Melissa N. Dunkle</i> <i>The Dow Chemical Company, Hoek, Netherlands</i></p>	

17:05	<p>Le.47 IMPROVED CHARACTERIZATION OF VOCS IN VIRGIN AND RECYCLED PLASTICS VIA HS-SPME AND GC×GC-MS ANALYSIS <i>Marco Beccaria^{1,2}, Nicola Ruin², Damien Eggermont³, Giorgia Purcaro³, Flavio Antonio Franchina², Luisa Pasti², Alberto Cavazzini², Charlotte Mase⁴, Pierre Giusti⁴, Marco Piparo⁴, Gaetan Burnens¹, Caroline Mangote⁴</i> ¹Totalenergies, Seneffe, Belgium ²University Of Ferrara, Ferrara, Italy ³University Of Liège, Gembloux, Belgium ⁴Totalenergies, Harfleur, France</p>	
17:20	<p>Le.48 CHARACTERIZING SUSTAINABLE AVIATION FUELS: ANALYTICAL CHALLENGES AND OPPORTUNITIES USING GC×GC-VUV <i>Max Jennerwein¹, Anne Rott¹, Michael Becker¹, Christoph Denk²</i> ¹ASG Analytik-Service AG, Neusaess, Germany ²Clariant Produkte (deutschland) Gmbh, Bruckmühl/heufeld, Germany</p>	
17:35	<p>Le.49 AUGMENTING CHEMICAL RECYCLING VIA DATA-DRIVEN MODEL FOR GC×GC BASED GROUP-TYPING ANALYSIS <i>Anupam Giri, Christian Wold, Omid Emamjomeh, Amir Atashin</i> SABIC, Bergen Op Zoom, Netherlands</p>	
17:50	<p>Le.50 COMPARATIVE PROFILING OF OUD (AGARWOOD) SMOKE EMISSIONS USING TD-GC×GC-TOF MS <i>Luciana Da Costa Carvalho¹, Laura Mcgregor², James S. O. Mccullagh¹, Abdossalam M. Madkhali³</i> ¹University Of Oxford, Oxford, United Kingdom (UK) ²Sepsolve Analytical, Peterborough, United Kingdom ³King Saud University, Riyadh, Saudi Arabia</p>	
18:05	<p>Le.51 DIGITAL SCENT SIGNATURE <i>Stepan Urban</i> University Of Chemistry And Technology, Prague, Praha 6, Czech Republic</p>	
18:20	<p>Le.52 IMPROVING SENSORY-CHEMICAL ASSIGNMENTS IN GC-O WORKFLOWS WITH TRAP-BASED ENRICHMENT AND GC×GC <i>Laura Mcgregor¹, Khaled Murtada², Matthew Edwards³, Lucy Hearn⁴, Rachael Szafnauer⁴, Steve Smith¹</i> ¹Sepsolve Analytical, Peterborough, United Kingdom ²Sepsolve Analytical, Kitchener, Canada ³Sepsolve Analytical, Kitchener, United Kingdom ⁴Markes International, Bridgend, United Kingdom</p>	

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)

SCIENTIFIC PROGRAM 44th ISCC

Tuesday, May 19, 2026

<p>09:00 – 09:25</p>	<p>Opening Address 44th ISCC - Room Garda Chairpersons: <i>Luigi Mondello</i> <i>University of Messina, Italy</i> <i>Pat Sandra</i> <i>RIC Group, Belgium</i> <i>Alessio Zanoni</i> <i>Mayor of Riva del Garda, Italy</i></p>	
<p>09:25 – 10:35</p>	<p>ISCC Session 1 – Awards Presentation and Lectures</p>	
<p>09:25</p>	<p>M.J.E. Golay Award Presentation <i>Sponsored by Chromaleont and RIC Group</i> Chairperson: <i>Pat Sandra</i> <i>RIC Group, Belgium</i></p>	
<p>09:35</p>	<p>LE.01 M.J.E. Golay Award Lecture PLANT VOLATILES AND CAPILLARY GAS CHROMATOGRAPHY: A NEVER-ENDING STORY OF CONTINUOUS INNOVATION <i>Carlo Bicchi</i> <i>University Of Turin, Torino, Italy</i></p>	
<p>10:00</p>	<p>ASAC Fritz Pregl Medal Presentation <i>Assigned by Austrian Society of Analytical Chemistry (ASAC)</i> Chairperson: <i>Christian W. Klampfl</i> <i>Johannes Kepler University, Austria</i></p>	
<p>10:10</p>	<p>LE.02 ASAC Fritz Pregl Medal Lecture MICROANALYSIS EMPLOYING MICROSCALE CHROMATOGRAPHY AND MASS SPECTROMETRY: KEY TECHNOLOGIES FOR LISTENING TO COMMUNICATION IN BIOLOGICAL SYSTEMS <i>Christian G. Huber¹, Shubham Kaushik¹, Christof Regl¹, Verena Braunschmid¹, Eva Klinglmayr^{1,2}, Andreas Mar^{1,2}, Tanja Bauer^{1,2}, Ritesh Khanna^{1,2}, Richard Moriggl¹, Patricia Hrasnova¹, Cristian-Tudor Matea¹, Nicole Meisner-Kober¹</i> ¹University of Salzburg, Salzburg, Austria ²University of South Bohemia, České Budějovice, Czech Republic</p>	
<p>10:35 - 11:05</p>	<p>Coffee Break - Exhibition</p>	
<p>11:05 – 13:00</p>	<p>ISCC Session 2 – NANO AND CAPILLARY LIQUID CHROMATOGRAPHY Room Garda Chairpersons: <i>Michael Ramsey, The University of North Carolina at Chapel Hill, USA</i> <i>Christian Huber, University of Salzburg, Austria</i></p>	<p>GC×GC Session 6 – FUNDAMENTALS 2 Room Dolomiti <i>See GC×GC program for details</i></p>

11:05	<p>LE.03 FUTURE TRENDS IN CAPILLARY NANO-HPLC COLUMN TECHNOLOGY <i>Gert Desmet</i> <i>Vrije Universiteit Brussel, Brussel, Belgium</i></p>	
11:25	<p>LE.04 NEW APPROACHES TO CAPILLARY LC COLUMN DEVELOPMENT <i>James Grinias</i> <i>Rowan University, Glassboro, United States</i></p>	
11:45	<p>LE.05 PORTABLE CAPILLARY LIQUID CHROMATOGRAPHY: NEW ENABLING TECHNOLOGIES FOR REAL-TIME ON-SITE AND IN-SITU CHEMICAL ANALYSIS <i>Brett Paull¹, Ibraam Mikhail¹, Andrew Gooley², Shing Lam², Matthew Askeland³, Luca Schippl⁴</i> ¹<i>University Of Tasmania, Hobart, Australia</i> ²<i>Trajan Scientific And Medical, Melbourne, Australia</i> ³<i>ADE Consulting Group, Brisbane, Australia</i> ⁴<i>Philipps University Marburg, Marburg, Germany</i></p>	
12:00	<p>LE.06 TRANSFERABILITY OF A QSRR MODELLING STRATEGY ACROSS COLUMN DIMENSIONS AND INSTRUMENTAL CONFIGURATIONS <i>Francesca Rigano¹, Roberto Laganà Vinci², Katia Arena¹, Luigi Mondello^{1,2}</i> ¹<i>University of Messina, Messina, Italy</i> ²<i>Chromaleont S.r.l., Messina, Italy</i></p>	
12:15	<p>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 <i>Estrella Sanz Rodriguez¹, Mingxia Lai¹, Meredith K. Nation², Christopher T. Plummer², Lenneke M. Jong², Jason L. Roberts², Andrew D. Moy², Andrew R. Bowie¹, Mark A. Curran², Brett Paull¹</i> ¹<i>UTAS, Hobart, Australia</i> ²<i>AAD, Hobart, Australia</i></p>	
12:30	<p>LE.08 WALL-INDUCED DISPERSION IN MULTICAPILLARY OPEN TUBULAR LC COLUMNS ENABLING TRANSVERSE DIFFUSION <i>Alessandra Adrover¹, Bram Huygens², Gert Desmet²</i> ¹<i>Sapienza University Of Rome, Rome, Italy</i> ²<i>Vrije Universiteit Brussel, Brussels, Belgium</i></p>	

12:45	<p>LE.09 ENHANCING ANALYTICAL PERFORMANCE: THE ROLE OF SMALL ID COLUMNS AND INERT HARDWARE IN HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY <i>Egidijus Machtejevas, Petra Lewits</i> <i>Merck Life Science KgaA Darmstadt Germany, Darmstadt, Germany</i></p>	
13:00 - 14:00	Lunch Break on your own	
14:00 - 15:20	<p>ISCC Session 3 – HYPHENATED AND MULTIDIMENSIONAL TECHNIQUES Room Garda <i>Chairpersons:</i> <i>Paola Donato, University of Messina, Italy</i> <i>Koen Sandra, RIC Group, Belgium</i></p>	<p>GC×GC Session 7 – PETROCHEMICAL Room Dolomiti <i>See GC×GC program for details</i></p>
14:00	<p>LE.10 HIGH THROUGHPUT METABOLOMICS WITH MICROCHIP CE-MS AND AUTOMATED ANALYSIS <i>Michael Ramsey^{1,2}, J Scott Mellors², J Will Thompson², James Campbell²</i> ¹<i>The University Of North Carolina At Chapel Hill, North Carolina, Chapel Hill, United States (US)</i> ²<i>Move Analytical, LLC, Carrborro, United States (US)</i></p>	
14:20	<p>LE.11 BIOAVAILABILITY AND METABOLITE PROFILING OF A NEUROPROTECTIVE TANNIN GRAPE POMACE EXTRACT AFTER IN-VITRO SIMULATED DIGESTION <i>Miguel Herrero¹, Mikaela Rajchman², Adrián Aicardo², Rafael Radi², Lidia Montero¹</i> ¹<i>Institute Of Food Science Research - CIAL (CSIC), Madrid, Spain</i> ²<i>Universidad De La República, Montevideo, Uruguay</i></p>	
14:35	<p>LE.12 APPLICATION OF MULTIDIMENSIONAL CHROMATOGRAPHIC TECHNIQUES TO THE STUDY OF THE STEROLS CONTENT IN HIGH VALUE EDIBLE OILS <i>Pierluigi Delmonte</i> <i>US Food And Drug Administration, College Park, United States</i></p>	
14:50	<p>LE.13 ADDRESSING THE PURITY-YIELD TRADE-OFF IN OLIGONUCLEOTIDE PURIFICATION BY INTEGRATED TWO-DIMENSIONAL CHROMATOGRAPHY ON SEMI-REPREPARATIVE SCALE <i>Chiara De Luca¹, Chiara Nosengo¹, Desiree Bozza¹, Giulio Lievore², Sebastian Vogg², Martina Catani¹, Alberto Cavazzini^{1,3}, Thomas Müller-späth², Simona Felletti¹</i> ¹<i>University Of Ferrara, Ferrara, Italy</i> ²<i>YMC Chromacon, Zurich, Switzerland</i> ³<i>Council For Agricultural Research And Economics, Rome, Italy</i></p>	

15:05	<p>LE.14 APPLICATION OF ONLINE COUPLED LC-GC-FID TO DETERMINE SPECIFIC MIGRATION OF POTENTIALLY HARMFUL CYCLIC SILOXANES FROM FOOD CONTACT SILICONE ELASTOMERS <i>Martin Eckardt¹, Sebastian Säger¹, Martin Lommatzsch¹, Annkathrin Seidel², Thomas J Simat²</i> ¹Laboratory Lommatzsch And Säger Gmbh, Cologne, Germany ²Technical University Dresden, Dresden, Germany</p>	
15:20 – 16:50	Coffee Break – Exhibition – Vendor Seminars – Posters A, B, C, D, E, F, H, K	
15:45 – 16:45	<p>Room Garda Seminar LECO Advancing Complex Sample Analysis with GC×GC-TOFMS Christine Loeb-Stubbins and John Hayes</p> <p>Turning Complexity into Clarity for Forensic and Food Samples Using GC×GC-TOFMS Katelynn Perrault Uptmor</p> <p>Thermal vs Flow Modulation in GC×GC: Practical Insights for Environmental and Metabolomics Applications Flavio Antonio Franchina</p>	<p>Room Dolomiti Seminar SPECTRA ANALYSIS Solid-deposition FTIR technology for unrivaled identification capability in hyphenated chromatographic applications Paola Donato and William W. Carson</p>
16:50 – 18:35	<p>ISCC Session 4 – SUPERCRITICAL FLUID CHROMATOGRAPHY AND CONTAMINANTS Room Garda <i>Chairpersons:</i> <i>Fabrice Gilles Ernest Gritti, Waters Corporation, USA</i> <i>Rosa Maria Marcé, Universitat Rovira i Virgili, Spain</i></p>	<p>GC×GC Session 8– INDUSTRY - VOCs Room Dolomiti <i>See GC×GC program for details</i></p>
16:50	<p>LE.15 IMPROVING THE GREENNESS OF SFC SEPARATIONS FOR THE ANALYSIS OF NATURAL SAMPLES <i>Paola Donato¹, Cristian Reale¹, Luigi Mondello^{1,2}</i> ¹University of Messina, Messina, Italy ²Chromaleont S.r.l., Messina, Italy</p>	
17:05	<p>LE.16 DEVELOPMENT AND OPTIMIZATION OF A 2D SFC SYSTEM IN MULTIPLE HEART-CUT MODE <i>Clément De Saint Jores, Laurine Réset, Caroline West</i> <i>Université D'orléans, Orléans, France</i></p>	
17:20	<p>LE.17 THERMODYNAMIC ASPECTS IN SUPERCRITICAL FLUID CHROMATOGRAPHY FOR CHIRAL SEPARATIONS <i>Simona Felletti¹, Amirmohammad Faraji Shovey¹, Chiara De Luca¹, Martina Catani¹, Alberto Cavazzini^{1,2}</i> ¹University Of Ferrara, Ferrara, Italy ²Council For Agricultural Research And Economics, Rome, Italy</p>	

17:35	<p>LE.18 IS SFC A GREENER, ECO-FRIENDLY AND COST-EFFECTIVE CHROMATOGRAPHY TECHNIQUE? <i>Gerard Rosse</i> <i>PIC Solution, Inc., San Diego, United States (US)</i></p>	
17:50	<p>LE.19 ARE THERE ANY BENEFITS WITH PFAS TESTED CONSUMABLES? <i>Patrik Appelblad¹, Lara Rosenberger², Lena Werner³, Patric Klein², Michael Schulz², Romana Rigger⁴</i> ¹<i>Merck Life Science AS, Oslo, Norway</i> ²<i>Merck Life Science Kgaa, Darmstadt, Germany</i> ³<i>Merck Life Science Kgaa, Darmstadt, German</i> ⁴<i>Merck Chemicals And Life Science Gmbh, Wien, Austria</i></p>	
18:05	<p>LE.20 BEYOND QUANTIFICATION: LINKING CHEMICAL CHARACTERIZATION AND GENOTOXICITY IN MOSH/MOAH ASSESSMENT <i>Andrea Hochegger¹, Aleksandra Górska², Christian Kirchnawy³, Giorgia Purcaro²</i> ¹<i>University Of Technology Graz, Graz, Austria</i> ²<i>University Of Liège, Gembloux, Belgium</i> ³<i>Österreichisches Forschungsinstitut Für Chemie Und Technik, Vienna, Austria</i></p>	
18:20	<p>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 <i>Maurizio Piergiovanni¹, Simone Squara², Marco Fontanarosa¹, Cristian Maffezzoni¹, Nicolò Riboni¹, Antonella Cavazza¹, Monica Mattarozzi¹, Federica Bianchi¹, Michele Suman^{2,1}, Maria Careri¹</i> ¹<i>University Of Parma, Parma, Italy</i> ²<i>Barilla G.R. F.lli Spa, Parma, Italy</i></p>	
19:00	<p>Cocktail offered PeakScientific, Pala Vela Exhibition Hall</p>	

<p>09:00 – 10:50</p>	<p>ISCC Session 5 - CAPILLARY GC 1 Room Garda <i>Chairpersons:</i> <i>Chiara Cordero, University of Turin, Italy</i> <i>Nicholas Snow, Seton Hall University, USA</i></p>	<p>ISCC Session 6 – HYPHENATED TECHNIQUES Room Dolomiti <i>Chairpersons:</i> <i>Oliver Schmitz, University of Duisburg-Essen, Germany</i> <i>James Grinias, Rowan University, USA</i></p>
<p>09:00</p>	<p>LE.22 FROM FLAME TO FAME: STRATEGIES TO ELEVATE THE SENSITIVITY AND RELIABILITY OF GC-FID <i>Jim Luong^{1,2}, Ronda L Gras^{1,2}, Yujuan Hua¹, Grace XH Yang³, Peilin Yang⁴</i> ¹Dow Chemical Canada, Fort Saskatchewan, Canada ²University Of Tasmania, Hobart, Australia ³Dow Chemical China, Shanghai, China ⁴Dow Chemical USA, Lake Jackson, United States (US)</p>	<p>LE.29 COUPLING LCXLC AND GC WITH SLIM-QTOF-MS FOR A POWERFUL ORTHOGONAL TWO-DIMENSIONAL SEPARATION OF COMPLEX SAMPLES <i>Oliver J. Schmitz, Cedric Thom, Priscilla Nhan, Sven Meckelmann</i> <i>University Of Duisburg-essen, Essen, Essen, Germany</i></p>
<p>09:20</p>	<p>LE.23 IMPROVING CHIRAL SEPARATION OF TERPENES IN CITRUS ESSENTIAL OILS BY USING CONVENTIONAL AND TANDEM CHIRAL COLUMNS <i>Danilo Sciarrone¹, Lorenzo Cucinotta¹, Francesca Cannizzaro¹, Luigi Mondello^{1,2}</i> ¹University Of Messina, Messina, Italy ²Chromaleont S.r.l., Messina, Italy</p>	<p>LE.30 COLD EI – THE WAY TO IMPROVE GC-MS AND INCREASE ITS RANGE OF APPLICATIONS <i>Aviv Amirav</i> <i>Tel Aviv University, Tel Aviv, Israel</i></p>
<p>09:35</p>	<p>LE.24 AN ULTIMATE ANALYTICAL CHALLENGE: GC-BASED MOLECULAR CHARACTERIZATION OF NITROGEN- AND OXYGEN-RICH BIO-OILS <i>Jan H Christensen¹, Josephine S. Lübeck¹, Jason Devers¹, Nikoline J. Nielsen¹, Asger B Hansen¹, Johanna I Al-hag^{1,2}, Christian S Pedersen², Giorgio Tomasi¹</i> ¹University Of Copenhagen, Frederiksberg, Capital Region Of Denmark, Denmark ²Topsoe, Kongens Lyngby, Denmark</p>	<p>LE.31 INVESTIGATION OF TRANSITION METAL COMPLEXES BY COMBINING HPLC, ION MOBILITY AND HIGH RESOLUTION MASS SPECTROMETRY <i>Christian W Klampfl¹, Laura Zellner¹, Markus Himmelsbach¹, Julian Suess¹, Samuel Vorbach¹, Uwe Monkowius¹, Stephan Hann²</i> ¹Johannes Kepler University, Linz, Austria ²BOKU University, Vienna, Austria</p>
<p>09:50</p>	<p>LE.25 GC-HRMS-BASED METABOLOMICS WITH CHEMOMETRIC DISCRIMINATION OF TREATMENT EFFECTS IN CANNABIS SATIVA <i>Michal Stupák, Maria Filatova, Zuzana Bínová, Jana Hajšlová</i> <i>UCT Prague, Prague, Czech Republic</i></p>	<p>LE.32 ¹³C TRACER ANALYSIS FOR MICROBIAL METABOLOMICS: THE ROLE OF GC-(Q)TOFMS IN IDENTIFYING PATHWAYS FOR CO₂ FIXATION <i>Christina Troyer, Teresa Steininger - Mairinger, Bernd M Mitic, Özge Ata, Michael Baumschabl, Thomas Gassler, Diethard Mattanovich, Stephan Hann</i> <i>BOKU University, Vienna, Austria</i></p>
<p>10:05</p>	<p>LE.26 COMPOUND-SPECIFIC ISOTOPE ANALYSIS BY GAS CHROMATOGRAPHY-COMBUSTION-CAPILLARY ABSORPTION SPECTROSCOPY (GC-C-CAS) FOR EDIBLE OIL AUTHENTICATION <i>Taylor Hayward¹, Connor Beach¹, Andrew Jones¹, Andrew Farhrland², Jason Kriesel²</i> ¹Activated Research Company, Eden Prairie, United States (US) ²Guiding Photonics, Torrence, United States</p>	<p>LE.33 HIGH-RESOLUTION MASS SPECTROMETRY WORKFLOW FOR PENDIMETHALIN BIOTRANSFORMATION PATHWAY ELUCIDATION IN THE ZEBRAFISH MODEL <i>Federico Fanti¹, Fabiola Eugelio¹, Marinella Tano¹, Sara Palmieri¹, Carmine Merola¹, Giampiero Scortichini², Michele Del Carlo¹, Dario Compagnone¹</i> ¹University Of Teramo, Teramo, Italy ²Istituto Zooprofilattico Sperimentale Dell'abruzzo E Molise "G. Caporale", Teramo, Italy</p>

<p>10:20</p>	<p>LE.27 HIGHLY PARALLEL METABOLITE PROFILING OF POLAR EXTRACTS USING GC-MS/MS TECHNOLOGY WITH AUTOMATED METHOD DEVELOPMENT AND TBDMS DERIVATIZATION <i>Vladimir Shulaev, Debasish Ghosh</i> <i>University Of North Texas, Denton, United States (US)</i></p>	<p>LE.34 EVALUATION OF GREEN SOLVENTS RETENTION BEHAVIOUR IN REVERSED-PHASE HPLC FOR THE ANALYSIS OF CONTAMINANTS <i>Danilo Donnarumma¹, Katia Arena¹, Antonio Ferracane¹, Luigi Mondello^{1,2}</i> ¹<i>University of Messina, Messina, Italy</i> ²<i>Chromaleont S.r.l., Messina, Italy</i></p>
<p>10:35</p>	<p>LE.28 GEDI: A NOVEL INDEX TOWARDS SUSTAINABLE ANALYTICAL METHOD DEVELOPMENT <i>Natasa Kalogiouri, Maria Kousi, Victoria Samanidou</i> ARISTOTLE UNIVERSITY OF THESSALONIKI, THESSALONIKI, GREECE</p>	<p>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 <i>Andrea Castellaneta¹, Vito Nettis¹, Noa Ndimurwanko^{2,3}, Francesco Greco^{2,4}, Elisa Giovannetti^{2,5}, Liam A. McDonnell², Arnold Zöldhegyi⁶, Zuzana Hrušovská⁶, Imre Molnár⁶, Hans-jürgen Rieger⁶, Ilario Losito^{1,7}, Cosima Damiana Calvano^{1,7}, Tommaso R.I. Cataldi^{1,7}</i> ¹<i>University Of Bari Aldo Moro, Bari, Italy</i> ²<i>Fondazione Pisana Per La Scienza ONLUS, San Giuliano Terme, Italy</i> ³<i>Scuola Normale Superiore, Pisa, Italy</i> ⁴<i>Fondazione Toscana Gabriele Monasterio, Pisa, Italy</i> ⁵<i>VU University Medical Center, Amsterdam, Netherlands</i> ⁶<i>Molnár-institute For Applied Chromatography, Berlin, Germany</i> ⁷<i>Centro Interdipartimentale SMART, Bari, Italy</i></p>
<p>10:50 – 12:50</p>	<p>Coffee Break – Vendor Seminars – Exhibition – Posters G, I</p>	
<p>10:50 – 11:50</p>	<p>Room Garda Seminar SHIMADZU Reversed fill/flush flow modulator GC×GC-MS to unravel complex samples <i>Giorgia Purcaro</i></p> <p>Supercritical Fluid Extraction in Food: A Case Study on Multi-Class Bioactives and Pesticides <i>Alessia Arena</i></p> <p>Japan meets Europe-the aroma of sake and wine <i>Erich Leitner</i></p>	<p>Room Dolomiti Seminar RESTEK Unleash Your Performance with the Next Generation GC Column <i>Victoria Zeger</i></p>
<p>10:50 – 11:50</p>	<p>Room Riva Seminar ENTECH INSTRUMENTS Emerging Green Sample Preparation for GCMS and GCMSMS Analysis of PFAS, VOCs, and SVOCs in Air, Water, Soil, and Food Samples <i>Daniel B Cardin</i></p>	
<p>11:50 – 12:50</p>	<p>Room Garda Seminar LNI SWISSGASGas diluters, permeation and controlled humidification systems <i>Riccardo Donato</i> Improvement of Gas Generator Technology <i>Luigi Innocenti</i></p>	<p>Room Dolomiti Seminar GERSTEL SBSE performance enhancement: New phase materials widen the polarity range <i>Frank Jacobs</i></p>

11:50 – 12:50	Room Riva Seminar NIMFAST TECHNOLOGIES Explore new experiences of multi-dimensional GC (MDGC) Zhijun Zhao	
13:00 – 14:00	IUPAC Project Round Table Discussion: Greenness of official sample preparation methods Room Dolomiti Moderator: Prof. Elia Psillakis , <i>Technical University of Crete, Greece</i> Panelists: Prof. Stig Pedersen-Bjergaard , <i>University of Oslo, Norway</i> Prof. František Švec , <i>Charles University, Czech Republic</i> Dr. Björn Erxleben , <i>Shimadzu Europa, Germany</i> Dr. Frank Michel , <i>Merck KGaA, Germany</i> Dr. Massimo Santoro , <i>Markes International, UK</i>	
12:30 – 14:00	Lunch Break on your own	
14:00 – 15:20	ISCC Session 7 – COLUMN TECHNOLOGY Room Garda <i>Chairpersons:</i> <i>Gert Desmet, Vrije Universiteit Brussel, Belgium</i> <i>František Švec, Charles University, Czech Republic</i>	ISCC Session 8 – BIO/PHARMA Room Dolomiti <i>Chairpersons:</i> <i>Elena E. Stashenko, Universidad Industrial de Santander, Colombia</i> <i>Guowang Xu, Dalian Institute of Chemical Physics, China</i>
14:00	LE.36 SLALOM CHROMATOGRAPHY RETURNS: POWERING BREAKTHROUGHS IN LARGE DNA/RNA CHARACTERIZATION FOR CELL AND GENE THERAPY <i>Fabrice Gilles Ernest Gritti, Kennedy Sawyer, Jamuna Vaishnav, Balasubrahmanyam Addepali, Matthew Lauber, Kevin Wyndham Waters Corporation, Milford, United States (US)</i>	LE.41 HIGH THROUGHPUT LIQUID CHROMATOGRAPHY <i>Robert Kennedy</i> <i>University Of Michigan, Ann Arbor, Michigan, Ann Arbor, United States (US)</i>
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 <i>Gustavo Serrano Izaguirre¹, Ngoc-a Dang², Ashlee Gerardi¹</i> ¹ <i>Agilent Technologies, Wilmington, United States (US)</i> ² <i>Agilent Technologies, Middelburg, Netherlands</i>	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 <i>David Victor Mccalley</i> <i>UWE Bristol, Bristol, United Kingdom (UK)</i>
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 <i>Martina Catani¹, Davide Barboni¹, Desiree Bozza¹, Nicoletta Bianchi¹, Brunilda Myftari², Damiana Natasha Spadafora¹, Chiara De Luca¹, Simona Felletti¹, Alberto Cavazzini^{1,3}</i> ¹ <i>University Of Ferrara, Ferrara, Italy</i> ² <i>University Of Tirana, Tirana, Albania</i> ³ <i>Council For Agricultural Research And Economics, Rome, Italy</i>	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 <i>Peter Bystricky¹, Ivana Cizmarova¹, Zuzana Zelinkova^{1,2}, Peter Mikus¹</i> ¹ <i>Faculty Of Pharmacy Comenius University Bratislava, Bratislava, Slovakia</i> ² <i>Nemocnica Bory – Penta Hospitals, Bratislava, Slovakia</i>

14:50	<p>LE.39 TRIMAX DEACTIVATION: ADVANCEMENTS IN LOW-LEVEL ANALYSIS FOR CAPILLARY GAS CHROMATOGRAPHY <i>Victoria R Zeger, Daniel Shollenberger, Erica Pack, Tim Liddicoat</i> <i>Restek Corporation, Bellefonte, United States</i></p>	<p>LE.44 FETAL EXPOSURE TO DRUGS OF ABUSE: A COMPARATIVE STUDY BETWEEN MATERNAL SELF-REPORT AND THE PRESENCE OF SUBSTANCES IN BIOLOGICAL SAMPLES <i>Bruno Spinosa De Martinis¹, Júlia Soares Melo², Sara Emanuele Silva Santos², Geraldo Duarte², Márcia Mussi², Fábria Pereira Martins-celini², Nayna Candida Gomes¹</i> ¹University Of Sao Paulo, Ribeirão Preto, Brazil ²University Of Sao Paulo, Ribeirao Preto, Brazil</p>
15:05	<p>LE.40 WEAK π INTERACTIONS AS A DRIVING FORCE IN ADVANCED LIQUID CHROMATOGRAPHIC SEPARATIONS <i>Takuya Kubo¹, Sayaka Konishi-yamada¹, Eisuke Kanao²</i> ¹Kyoto Prefectural University, Kyoto, Japan ²Kyoto University, Kyoto, Japan</p>	<p>LE.45 HOW NATURAL DEEP EUTECTIC SOLVENTS SHAPE THE LC-HRMS CHROMATOGRAPHIC FINGERPRINTS OF BIOACTIVE NATURAL PRODUCTS. <i>Gerardo Álvarez Rivera¹, Matteo Federico Capietti², Anna Stasiłowicz Krzemień³, Juan F. Grisales Mejía⁴, Marta Lores¹</i> ¹Universidad De Santiago De Compostela, Santiago De Compostela, Spain ²Università Degli Studi Di Milano-bicocca, Milano, Italy ³Poznan University Of Medical Sciences, Poznan, Poland ⁴Universidad Nacional De Colombia, Palmira, Colombia</p>
15.20 – 16:40	Coffee Break – Seminars – Exhibition – Posters J, L	
15:40 – 16:40	<p>Room Garda Seminar AGILENT GCxGC and the Future of Cleaner Aviation <i>Julio Llorca Porcel</i></p> <p>Method Optimization and Workflow Strategies for Achieving Long-Term Success with Practical Flow-Modulated GCxGC <i>Scott Hoy</i></p>	<p>Room Dolomiti Seminar VUV Analytics From Photons to Insights: the expanding role of Vacuum Ultraviolet (VUV) Spectroscopy in Today's lab <i>Sean Jameson</i></p>
15:40 – 16:40	<p>Room Riva Seminar Da Vinci Double your GC Capability without a second GC <i>Balt Hagens</i></p>	
16:40 – 18:10	<p>ISCC Young Scientists 1 Room Garda <i>Chairpersons:</i> <i>Marco Gomes Da Silva, NOVA University Lisbon, Portugal</i> <i>Marco Beccaria, Totalenergies, Belgium</i></p>	<p>ISCC Young Scientists 2 Room Dolomiti <i>Chairpersons:</i> <i>Erica Liberto, University of Turin, Italy</i> <i>Martina Catani, University of Ferrara, Italy</i></p>
16:40	<p>YLE.01 INCREASING DETECTION SENSITIVITY IN GAS CHROMATOGRAPHY BY COOLING A NANO-GRAVIMETRIC DETECTOR <i>Ambroisine Michel¹, Guy Raffin¹, David Sanz², Régis Barattin², Eric Colinet², Jérôme Randon¹</i> ¹Institut Des Sciences Analytiques - Université Claude Bernard Lyon 1 - CNRS, Villeurbanne, France ²APIX Analytics, Grenoble, France</p>	<p>YLE.10 COMPLEMENTARY VOLATILOMIC PROFILING OF UNESCO RECOGNIZED KHAWLANI ARABICA COFFEE BY GC-EI-QTOF AND ATMOSPHERIC-PRESSURE IONIZATION-SLIM-QTOF MASS SPECTROMETRY <i>Yassine Oulad El Majdoub¹, Abdalla A Elbashir², Oliver J Schmitz¹</i> ¹University Duisburg Essen, Essen, Germany ²King Faisal University, Hofuf, Saudi Arabia</p>

<p>16:50</p>	<p>YLE.02 INERTIAL GAS CHROMATOGRAPHY Valentina Biagioni Sapienza University Of Rome, Rome, Italy</p>	<p>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 Giacoppo¹, Carlo Bellinghieri^{1,2}, Flavio Antonio Franchina¹, Luisa Pasti¹, Alberto Cavazzini¹, Marco Beccaria¹ ¹University Of Ferrara, Ferrara, Italy ²University Of Liège, Gembloux, Belgium</p>
<p>17:00</p>	<p>YLE.03 DEVELOPMENT OF CHIRAL GAS CHROMATOGRAPHY COLUMNS BASED ON MEMS TECHNOLOGIES DEDICATED TO SPACE EXPLORATION Gabin Bergerot¹, Malak Rizk-bigourd², Cyril Szopa², Valérie Peulon Agasse¹, Pascal Cardinael¹ ¹Université De Rouen, Mont-saint-aignan, France ²UVSQ Université Paris-saclay, Sorbone Université, Guyancourt, France</p>	<p>YLE.12 NON-TARGETED VOLATILOMICS IN FOOD AUTHENTICITY: BRIDGING RESOURCE-EFFICIENT HS-GC-IMS AND HIGH-RESOLUTION GC-MS Lukas Bodenbender^{1,2}, Sascha Rohn², Philipp Weller¹ ¹Technische Hochschule Mannheim, Mannheim, Germany ²Technische Universität Berlin, Berlin, Germany</p>
<p>17:10</p>	<p>YLE.04 ENHANCING COVERAGE FOR ORGANELLE-LEVEL METABOLOMICS BY MICROBORE HILIC-HRMS Danila La Gioia, Eduardo Maria Sommella, Pietro Campiglia University Of Salerno, Fisciano (SA), Italy</p>	<p>YLE.13 MICROBORE-UHPLC-4D-TIMS FOR IMPROVED UNTARGETED LIPIDOMICS OF PATIENT DERIVED ORGANOIDS Fabrizio Merciai, Eduardo Maria Sommella, Pietro Campiglia University Of Salerno, Fisciano, Italy</p>
<p>17:20</p>	<p>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, Erich Leitner, Andrea Hochegger Graz University Of Technology, Graz, Austria</p>	<p>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, Eloisa Bagnulo, Giorgia Botta, Andrea Caratti, Giulia Tapparo, Carlo Bicchi, Chiara Cordero, Erica Liberto University Of Turin, Turin, Italy</p>
<p>17:30</p>	<p>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 Nevola¹, Adriana Arigo¹, Giorgio Famigliani¹, Achille Capiello^{1,2}, Timothy Naimi³, Chris Gill^{2,3} ¹University Of Urbino Carlo Bo, Urbino, Italy ²Vancouver Island University, Nanaimo (BC), Canada ³University Of Victoria, Victoria (BC), Canada</p>	<p>YLE.15 TARGETED GC-MS/MS METABOLOMICS FOR PROFILING ACUTE CELLULAR METABOLIC PERTURBATIONS INDUCED BY PHTHALATE EXPOSURE Nayara Silva Fraga, Josimar Marques Batista, Michele Angela Rodrigues, Dawidson Assis Gomes, Zenilda De Lourdes Cardeal, Helvécio Costa Menezes Universidade Federal De Minas Gerais, Belo Horizonte, Brazil</p>
<p>17:40</p>	<p>YLE.07 ALTERNATIVE METHODS FOR EVALUATING MOSH AND MOAH Aleksandra Gorska¹, Damien Pierret¹, Andrea Hochegger², Giorgia Purcaro¹ ¹University Of Liège, Gembloux, Belgium ²University Of Technology Graz, Graz, Austria</p>	<p>YLE.16 ANALYTICAL STRATEGIES FOR MONITORING DYNAMIC AROMA RELEASE IN A SIMULATED MOUTH SYSTEM Fulvia Trapani¹, Boudewijn Hollebrands^{2,3}, Herral Steenbergen², Chiara Cordero¹, Hans-gerd Janssen^{2,3} ¹University Of Turin, Turin, Italy ²Unilever Foods R&D, Wageningen, The Netherlands ³Wageningen University, Wageningen, The Netherlands</p>

<p>17:50</p>	<p>YLE.08 CONTINUOUS MONITORING OF BIOGENIC VOLATILE ORGANIC COMPOUNDS IN AIR AT PPT-PPB LEVELS USING ONLINE GAS CHROMATOGRAPHY <i>Ali Ghaddar^{1,2}, Damien Bazin², Jean-philippe Amiet², Stéphane Le Calvé¹</i> ¹Institute Of Chemistry And Processes For Energy, Environment And Health (ICPEES, UMR 7515), Strasbourg, France ²Chromatotec, Saint-andré-de-cubzac, France</p>	<p>YLE.17 COMPREHENSIVE INSTRUMENTAL ANALYSIS OF CHILDHOOD BODY ODOR BY GC-O, GC-MS, AND 2D-GC-MS/O <i>Laleh Kiavar¹, Sarah Weißhart², Ilona Croy², Helene Loos^{1,3}</i> ¹Friedrich-alexander University (FAU) Erlangen-nuremberg, Erlangen, Germany ²Friedrich-schiller University Jena, Jena, Germany ³Rheinische Friedrich-wilhelms-university Bonn, Bonn, Germany</p>
<p>18:00</p>	<p>YLE.09 BEYOND FRAGMENTATION: GC-HRMS WITH DIELECTRIC BARRIER DISCHARGE SOFT IONIZATION FOR THE ANALYSIS OF PLASTIC MIGRANTS <i>Javier Blázquez-Martín^{1,2}, Jorge García-barrasa², María Teresa Tena¹</i> ¹University Of La Rioja, Logroño, Spain ²National Center For Packaging Technologies - CENTIDE, Calahorra, Spain</p>	<p>YLE.18 ANALYTICAL WORKFLOW FOR HIGH-THROUGHPUT CHEMICAL CHARACTERIZATION OF ADVANCED BIO-OILS <i>Johanna Iman Al- Hag^{1,2}, Christian Schack Pedersen², Josephine Lübeck¹, Jan H. Christensen¹</i> ¹University Of Copenhagen, Frederiksberg C, Denmark ²Topsoe A/S, Kongens Lyngby, Denmark</p>
<p>19:00</p>	<p>Wine and Cheese at Terrace Hotel Sole offered by Chromaleont and RIC Group</p>	

Thursday May 21, 2026

09:00 – 11:05	<p>ISCC Session 9 – DAC SAMPLE PREPARATION STUDY GROUP AND NETWORK Room Garda <i>Chairpersons:</i> <i>Valérie Pichon, Sorbonne University, France</i> <i>Giorgia Purcaro, Gembloux Agro-bio Tech, Belgium</i></p>	<p>ISCC Session 10 – CAPILLARY GC 2, AUTOMATION AND SAMPLING SYSTEM Room Dolomiti <i>Chairpersons:</i> <i>Carlo Bicchi, University of Turin, Italy</i> <i>Jim Luong, Dow Chemical Canada, Canada</i></p>
09:00	<p>LE.46 GREENER BY DESIGN: TRANSFORMING ANALYTICAL CHEMISTRY WITH PURPOSE <i>Elia Psillakis</i> <i>Technical University Of Crete, Chaniá, Chania, Greece</i></p>	<p>LE.54 CHALLENGING TODAY'S PERCEPTIONS AND ASSUMPTIONS ABOUT GOOD 'OLE GC <i>Nicholas Snow</i> <i>Seton Hall University, South Orange, United States (US)</i></p>
09:20	<p>LE.47 ELECTROMEMBRANE EXTRACTION – PRINCIPLES AND APPLICATIONS <i>Stig Pedersen-bjergaard</i> <i>University Of Oslo, OSLO, Norway</i></p>	<p>LE.55 INNOVATIONS IN HYDROGEN CYANIDE DETECTION: A NOVEL APPROACH TO REALIZE ENHANCED SELECTIVITY AND SENSITIVITY <i>Ronda Gras^{1,2}, Jim Luong^{3,2}, Robert A. Shellie⁴</i> ¹<i>Dow Canada, Fort Saskatchewan, Alberta, T8L 2P4, Canada</i> ²<i>Australian Centre for Research on Separation Science (ACROSS), Hobart, Australia</i> ³<i>Dow Canada ULC, Alberta, Canada</i> ⁴<i>Centre for Food Safety and Innovation, Tasmanian Institute of Agriculture, Tasmania, Australia</i></p>
09:35	<p>LE.48 RETHINKING SAMPLE PREPARATION FOR SUSTAINABLE FRAGRANCE QUALITY CONTROL <i>Cecilia Cagliero</i> <i>Università Di Torino, Torino, Italy</i></p>	<p>LE.56 COMPARATIVE EVALUATION AND OPTIMISATION OF SORPTIVE SAMPLING SYSTEMS FOR VOC PROFILING BY GC-MS IN COMPLEX NATURAL MATRICES <i>Natasha D. Spadafora¹, Valentina Braghin¹, Kainat Rao¹, Sadia Kanwal¹, Simona Felletti¹, Chiara De Luca¹, Tatiana Chenet¹, Claudia Stevanin¹, Giorgia Serra², Alberto Cavazzini^{1,2}, Martina Catani¹, Paola Tedeschi¹, Luisa Pasti¹</i> ¹<i>University Of Ferrara, Ferrara, Italy</i> ²<i>CREA Council For Agricultural Research And Economics, Bologna, Italy</i></p>
09:50	<p>LE.49 INSIGHTS INTO PRESENT AND NEXT-GENERATION METRICS <i>Francisco Pena Pereira</i> <i>University Of Vigo, Vigo, Spain</i></p>	<p>LE.57 EXTRACTIVE-LIQUID SAMPLING ELECTRON IONIZATION MASS SPECTROMETRY (E-LEI-MS): FUNDAMENTALS AND APPLICATIONS <i>Adriana Arigò¹, Giovanna Nevola¹, Giorgio Famigliani¹, Achille Cappiello^{1,2}</i> ¹<i>University Of Urbino Carlo Bo, Urbino, Italy</i> ²<i>Vancouver Island University, Nanaimo, Canada</i></p>

<p>10:05</p>	<p>LE.50 METAL-ORGANIC FRAMEWORK-BASED MIXED MATRIX MEMBRANES FOR THIN-FILM SOLID-PHASE MICROEXTRACTION <i>Verónica Pino, Irina Guerra-martín, Jorge Pasán</i> <i>University Of La Laguna, La Laguna, Spain</i></p>	<p>LE.58 PRELIMINARY RESULTS OF SENSORY AND AROMA PROFILE MEASUREMENTS IN THE COFFEE DENOMINATION OF ORIGIN FOR TWO REGIONS OF RIO DE JANEIRO STATE <i>Ademario Iris Da Silva Junior¹, Michelle Costa Da Silva², Alexandre Alves Catão³, João Batista Pavesi Simão⁴, Gledison Vital De França³, Moisés Gimenes Malhão Costa², José Yan Oliveira Marques Gonçalves², Ian Luiz Willach Galliez⁵, Henrique Marcelo Gualberto Pereira⁶, Everardo Tardin Erthal⁷, Marcelo Assis De Mello⁸, Philip John Marriott⁹</i> ¹IFRJ, Rio De Janeiro, Brazil ²IFRJ, Nilópolis - RJ, Brazil ³IFRJ, Rio De Janeiro, Brasil ⁴IFES, Alegre - ES, Brazil ⁵El Colegio De La Frontera Sur, Coordinadoria Do Curso Superior De Tecnologia Em Cafeicultura, Chiapas, Mexico ⁶UFRJ, Rio De Janeiro, Brazil ⁷ASCARJ, Rio De Janeiro, Brazil ⁸Prefeitura Municipal De Duas Barras, Duas Barras, RJ, Brazil ⁹Monash University, Melbourne, Australia</p>
<p>10:20</p>	<p>LE.51 AUTOMATED SAMPLE PREPARATION ON-LINE COUPLED TO THE SEPARATION IN SEQUENTIAL INJECTION OR LIQUID CHROMATOGRAPHY SYSTEMS <i>Hana Sklenářová, Burkhard Horstkotte, Petr Chocholouš, Dalibor Šatínský, František Švec</i> <i>Charles University, Faculty Of Pharmacy, Hradec Králové, Czech Republic</i></p>	<p>LE.59 PHARMACEUTICAL BIOMARKER ANALYSIS: TIME-CONTROLLED ONLINE SPE-HPLC-MS/MS FOR N-ACYLETHANOLAMINE QUANTIFICATION IN LIPID-RICH BIOLOGICAL MATRICES <i>Valentina Greco, Nicoletta Gatti, Alessandro Giuffrida</i> <i>University Of Catania, Catania, Italy</i></p>
<p>10:35</p>	<p>LE.52 AUTOMATED PROCESSING OF SERUM PROTEINS FROM DRIED PLASMA SPOTS <i>Helena Hrušková, Miloš Dvořák, Pavel Kubáň</i> <i>Institute Of Analytical Chemistry Of The CAS, Brno, Czech Republic</i></p>	<p>LE.60 DETECTION OF TRACE LEVELS OF FENTANYL IN URINE USING SEMI-AUTOMATED CAPILLARY SPE-LC ANALYSIS <i>Samuel Foster¹, John Boughton², Tai Truong¹, Milton Lee^{1,3}, James Grinias²</i> ¹Axcend, Lehi, United States (US) ²Rowan University, Glassboro, United States ³Brigham Young University, Provo, United States</p>
<p>10:50</p>	<p>LE.53 CENTRIFUGATION-ASSISTED MICRO-EXTRACTION USING FUNCTIONALIZED GLASS BEADS FOR RAPID HPLC ANALYSIS <i>František Švec¹, Jakub Erben², Lenka Kujovská Krčmová^{1,3}, Petr Matouš¹, Kateřina Matoušová¹, Nikola Přívratská^{1,3}, Dalibor Šatínský¹</i> ¹Charles University, Hradec Kralove, Czech Republic ²Technical University Of Liberec, Liberec, Czech Republic ³University Hospital Hradec Králové, Hradec Králové, Czech Republic</p>	<p>LE.61 CHARACTERIZING HYDROCARBON CONTENT OF WASTE PLASTIC PYROLYSIS STREAMS BY GC-VUV: A TRILATERAL ENDEAVOR <i>Alex Hodgson¹, Anupam Giri², Beate Gruber³, Sean Jameson¹, Christian Wold², Mara Silber³</i> ¹VUV Analytics, Inc., Cedar Park, United States (US) ²SABIC, Bergen Op Zoom, The Netherlands ³BASF SE, Ludwigshafen Am Rhein, Germany</p>
<p>11:05 – 12:30 Coffee Break – Vendor Seminars – Exhibition – Posters M, O</p>		

11:20 – 12:20	Room Garda Seminar MERCK Becoming more sustainable with Green Analytical Chemistry Frank Michel	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
11:20 – 12:20	Room Riva Seminar JEOL Advanced qualitative analysis of unknown compounds using GC-HRTOFMS and AI-driven software Koji Okuda The Little Mass Spec that Could: GCxGC Applications and Other Fun Things to do with a Quadrupole Mass Spectrometer Kirk Jensen JEOL MS solutions Overview Robert Green	
12:30 – 13:30	Capillary LC Separations - On the Horizon and Beyond Room Dolomiti Organized by James Grinias , <i>Rowan University (USA)</i> and Milton Lee , <i>Brigham Young University (USA)</i>	
12:30 – 14:00	Lunch Break on your own	
14:00 – 15:20	ISCC Session 11 – MINIATURIZED SAMPLE PREPARATION 1 Room Garda <i>Chairpersons:</i> <i>Elia Psillakis, Technical University of Crete, Greece</i> <i>Victoria Samanidou, Aristotle University of Thessaloniki, Greece</i>	ISCC Session 12 – METABOLOMICS AND ARTIFICIAL INTELLIGENCE Room Dolomiti <i>Chairpersons:</i> <i>Paola Dugo, University of Messina, Italy</i> <i>Robert Kennedy, University of Michigan, USA</i>
14:00	LE.62 FUNCTIONALIZED AND MINIATURIZED MONOLITHS FOR SAMPLE PREPARATION COUPLED ON-LINE TO LIQUID CHROMATOGRAPHY <i>Valérie Pichon^{1,2}, Israel D. De Souza², Alice Raxil--paloc², Nathalie Delaunay², Audrey Combès²</i> ¹ <i>Sorbonne University, Paris, France</i> ² <i>ESPCI, Paris, France</i>	LE.67 TOWARDS THE THIRD GENERATION OF NEW METABOLOMICS ANALYSIS TECHNOLOGY <i>Guowang Xu, Xin Lu, Xinyu Liu</i> <i>Dalian Institute Of Chemical Physics, Chinese Academy Of Sciences, Dalian, China</i>
14:20	LE.63 MAKING OFFICIAL ANALYTICAL METHODS MORE SUSTAINABLE USING SPME AS AN ALTERNATIVE SAMPLE PREPARATION TECHNIQUE <i>Frank Michel</i> <i>Merck Kgaa, Taufkirchen, Germany</i>	LE.68 ADVANCING TARGETED AND UNTARGETED HIV METABOLOMICS USING MICRO PILLAR ARRAY COLUMN-BASED NANO-LC-HRMS WORKFLOWS <i>Lander Iterbeke¹, Jeff Op De Beeck², Linos Vandekerckhove¹, Loic Schrooyen¹, Frédéric Lynen¹</i> ¹ <i>Ghent University, Ghent, Belgium</i> ² <i>Thermo Fisher Scientific, Ghent, Belgium</i>

14:35	<p>LE.64 NEXT-GENERATION NANOFIBROUS SORBENTS – EXPLOITING MODIFICATIONS AND HYBRID NANOFIBERS COUPLED WITH LIQUID CHROMATOGRAPHY <i>Dalibor Šatínský, Ewelina Czyz, František Švec</i> <i>Faculty Of Pharmacy, Charles University, Hradec Králové, Czech Republic</i></p>	<p>LE.69 AUTOMATED SEQUENTIAL DERIVATISATION FOR HUMAN BLOOD-BASED GC-HRMS METABOLOMICS <i>Akrem Jbebli, Elliott James Price, Kateřina Coufalíková</i> <i>Masaryk University, Brno, Czech Republic</i></p>
14:50	<p>LE.65 ADVANCED SORBENT PHASES FOR MINIATURIZED SAMPLE PREPARATION TECHNIQUES APPLIED TO THE DETERMINATION OF ANTIBIOTICS IN BOVINE MILK SAMPLES BY LC-MS/MS <i>Andréa Rodrigues Chaves¹, Tauã E Silva², Tiago M Lacerda³, João Victor B Assis¹, Eduardo L Nascimento¹, Heloisa S Santos¹, Julio Cesar O Ribeiro¹, Simone Nascimento⁴</i> ¹Universidade Federal De Goiás, Goiânia, Brazil ²Universidade Federal De Jataí, Jataí, Brazil ³Instituto Federal De Goiás, Inhumas, Brazil ⁴Agilent Brazil, Goiânia, Brazil</p>	<p>LE.70 AN INTEGRATED APPROACH BASED ON GC×GC-HRMS, SFC-HRMS, UHPLC-HRMS, AND MACHINE LEARNING FOR QUALITY ASSESSMENT OF COSMETIC PACKAGING <i>Nicolo' Riboni¹, Erika Ribezzi¹, Selina Tisler², Giorgio Tomasi², Jason Devers², Anna Gatti³, Lorenzo Cortesi¹, Maurizio Piergiovanni¹, Monica Mattarozzi¹, Federica Bianchi¹, Maria Careri¹, Jan H Christensen²</i> ¹University Of Parma, Parma, Italy ²University Of Copenhagen, Copenhagen, Denmark ³Davines Spa, Parma, Italy</p>
15:05	<p>LE.66 STILL STIRRED, NOT SHAKEN? NEW DEVELOPMENTS IN STIR BAR SORPTIVE EXTRACTION <i>Christophe Devos, Tatiana Cucu, Koen Sandra, Pat Sandra</i> <i>RIC Group, Kortrijk, Belgium</i></p>	<p>LE.71 AUTONOMOUS SUMMARIES OF SAMPLE MIXTURES IN SELF-ORGANIZING MAPS <i>Stefan Böhmendorfer, Matthias Guggenberger, Chrysoula Karageorgiou, Barbora Benetková, Antje Potthast, Thomas Rosenau</i> <i>BOKU University, Tulln, Austria</i></p>
15:20 – 16:55	Coffee Break – Vendor Seminars – Exhibition – Posters N	
15:45 – 16:45	<p>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</p> <p>Pesticides: Improve Gas Chromatography Analysis of Pesticide Residues Making Use of Atmospheric Pressure Chemical Ionization</p> <p>Dioxins: Discover the four reasons why APGC will change the game for your pesticide and dioxin analysis <i>Andrea Perissi</i></p>	<p>Room Dolomiti Seminar SEPSOLVE/MARKES INTERNATIONAL From polluters to mediators: The role of aged microplastics in the fight against organic contamination <i>Elia Psillakis</i></p> <p>Unlocking more from your data: Latest advances in GCxGC software <i>Laura McGregor</i></p> <p>Optimising untargeted screening of leachates from tyre wear particles and microplastics by DI-SPME-GCxGC-TOFMS <i>Michael Wilde</i></p>
15:45 – 16:45	<p>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. <i>Fabienne Palge, Damien Steyer, David Benanou</i></p>	

16:55 – 18.25	ISCC Young Scientists 3 Room Garda <i>Chairpersons:</i> Francesca Rigano, University of Messina, Italy Danilo Corradini, CNR - Consiglio Nazionale delle Ricerche, Italy	ISCC Young Scientists 4 Room Dolomiti <i>Chairpersons:</i> Anna Laura Capriotti, Sapienza University of Rome, Italy Danilo Sciarone, University of Messina, Italy
16:55	YLE.19 PROGRESS IN HPLC-XRF AND THE POTENTIAL OF MINIATURISATION FOR SENSITIVITY IMPROVEMENTS <i>Gaëlle Spileers, Pieter Tack, Laszlo Vincze, Frédéric Lynen</i> Ghent University, Ghent, Belgium	YLE.28 CLICK CHEMISTRY FOR THE DEVELOPMENT OF NOVEL SORBENTS FOR SOLID-PHASE MICROEXTRACTION <i>Carmela Maria Montone, Federica Gorgone, Aldo Laganà, Anna Laura Capriotti</i> Sapienza, University Of Rome, Roma, Italy
17:05	YLE.20 LC-LEI-HRMS TO UNVEIL PAHS PHOTO-OXIDATION PHENOMENA IN A MARS-LIKE ENVIRONMENT <i>Tommaso Grazioso¹, Adriana Arigò¹, Giorgio Famigli¹, Andrew Alberini², Teresa Fornaro², John Robert Brucato², Achille Cappiello^{1,3}</i> ¹ University Of Urbino, Urbino, Italy ² Osservatorio Astrofisico Di Arcetri, Firenze, Italy ³ University Of Vancouver Island, Vancouver Island, Canada	YLE.29 MESOPOROUS CARBON-BASED STIR-BAR SORPTIVE MICROEXTRACTION FOR TRACE PESTICIDE ANALYSIS IN WATER BY GC/MS <i>Gabriel Pardini Coelho¹, Nayara Silva Fraga², Ana Paula Teixeira², Zenilda De Lurdes Cardeal², Gustavo Henrique Oliveira Santos², Rayane Cristian Silva³, Helvécio Costa Menezes²</i> ¹ Universidade Federal De Minas Gerais, Belo Horizonte, Brazil ² UFMG, Belo Horizonte, Brazil ³ UFBA, Ondina, 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 <i>Sandra Rodríguez-Blázquez, Esther Gómez-mejía, Noelia Rosales-conrado</i> 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 <i>Lorenzo Cucinotta, Yuanpeng Wang, Janusz Pawliszyn</i> University Of Waterloo, Waterloo, Canada
17:25	YLE.22 PREDICTING PHENOLIC RETENTION IN CAPILLARY LC: QSRR MODELS FOR RELIABLE IDENTIFICATION <i>Roberto Laganà Vinci¹, Katia Arena², Francesca Rigano², Roberta La Tella¹, Paola Dugo^{2,1}, Luigi Mondello^{2,1}</i> ¹ Chromaleont S.r.l., Messina, Italy ² University of Messina, 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. <i>Tara Murphy, Fadi Ahwal, Lucy Carpenter, Stuart Lacy, Alastair Lewis, Killian Murphy, Stephen J. Andrews</i> University Of York, York, United Kingdom (UK)

<p>17:35</p>	<p>YLE.23 ANALYSIS OF CHIRAL AND ACHIRAL PESTICIDES IN WHITE WINE BY ENANTIOSELECTIVE LOW-PRESSURE GC-MS/MS <i>Giorgia Rinaldi¹, Mariosimone Zoccali¹, Peter Q. Tranchida¹, Luigi Mondello^{1,2}</i> ¹University of Messina, Messina, Italy ²Chromaleont S.r.l, Messina, Italy</p>	<p>YLE.32 INTEGRATED ENVIRONMENTAL MONITORING IN ST JOHN'S CO-CATHEDRAL (LA VALLETTA, MALTA, UNESCO WORLD HERITAGE SITE) <i>Francesca Cannizzaro¹, Alfred Micallef², Maria Ricciardi³, Lorenzo Cucinotta¹, Adam Gauci², Jgor Arduini⁴, Maria Letizia Amadori⁴, Adriana Alescio⁵, Oriana Motta², Antonio Proto³, Sebastiano D'Amico², Luigi Mondello^{1,6}, Danilo Sciarrone¹</i> ¹University Of Messina, Messina, Italy ²University of Malta, Msida, Malta ³University of Salerno, Salerno, Italy ⁴University of Urbino, Urbino, Italy ⁵St John's Co-Cathedral Foundation, Malta, Malta ⁶Chromaleont S.r.l., Messina, Italy</p>
<p>17:45</p>	<p>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) <i>Daniel Bona, Marina Di Carro, Barbara Benedetti, Emanuele Magi</i> University Of Genoa, Genoa, Italy</p>	<p>YLE.33 FLOWING INSIGHTS: AUTOMATED MICROFLUIDIC ENZYME SCREENING WITH ONLINE HPLC-MS <i>Sanjay Lama¹, Hannes Westphal¹, Rico Warias¹, Simon Schmidt¹, Tanja Gulder², Detlev Belder¹</i> ¹Leipzig University, Leipzig, Germany ²Saarland University, Saarbrücken, Germany</p>
<p>17:55</p>	<p>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 <i>Enrico Taglioni</i> Sapienza University of Rome, Rome, Italy</p>	<p>YLE.34 FLUOROTELOMER ALCOHOL REMOVAL BY MCM-41: A GC-MS STUDY <i>Francesco Pio Paci¹, Claudia Stevanin¹, Tatiana Chenet¹, Caterina D'anna¹, Anne Galarneau², Ahmad Mehd², Silvia Anna Frisario³, Marco Tagliabue³, Luisa Pasti¹</i> ¹University Of Ferrara, Ferrara, Italy ²ICGM, Univ Montpellier, CNRS, ENSCM, Montpellier, France ³Eni S.p.a, San Donato Milanese, Italy</p>
<p>18:05</p>	<p>YLE.26 MODULAR MICROFLUIDICS AS A KEY TECHNOLOGY IN MODERN ANALYTICS: SHOWCASING CHIP-BASED SFC-MS AND SFC-IMS <i>Julius Heinrich Schwieger¹, Klaus Welters¹, Christian Thoben², Alexander Nitschke², Gian-luca Gloeden², Stefan Zimmermann², Detlev Belder¹</i> ¹Leipzig University, Leipzig, Germany ²Leibniz University Hannover, Hannover, Germany</p>	<p>YLE.35 Genzo Shimadzu selected young lecture GREEN ANALYTICAL METHODS FOR EXTRACTION-CHROMATOGRAPHY BY MEANS OF SUPERCRITICAL FLUIDS AND BIO-SOLVENTS <i>Cristian Reale¹, Paola Donato¹, Luigi Mondello^{1,2}</i> ¹University of Messina, Messina, Italy ²Chromaleont S.r.l., Messina, Italy</p>
<p>18:15</p>	<p>YLE.27 Genzo Shimadzu selected young lecture TRANSFORMATIONS OF ODOR PROFILES IN PINE WOOD DUE TO THERMAL DEGRADATION OF FATTY ACIDS <i>Valentin Schierer^{1,2}, Cornelia Rieder-gradinger¹, Erwin Rosenberg²</i> ¹Kompetenzzentrum Holz Gmbh, Linz, Austria ²TU Wien, Vienna, Austria</p>	<p>YLE.36 HOLLOW-FIBER FLOW FIELD-FLOW FRACTIONATION AS A SWISS ARMY KNIFE FOR ADDRESSING KEY CHALLENGES IN PHARMACEUTICAL AND NANOSCIENCE APPLICATIONS <i>Stefano Giordani^{1,2}, Valentina Marassi^{1,2}, Anna Placci^{1,2}, Virginia Rondinini², Andrea Zattoni^{1,2}, Barbara Roda^{1,2}, Pierluigi Reschiglian^{1,2}</i> ¹Byflow S.r.l., Bologna, Italy ²University Of Bologna, Bologna, Italy</p>

<p>09:00 – 10:20</p>	<p>ISCC Session 13 – INSTRUMENTATION Room Garda <i>Chairpersons:</i> <i>Achille Cappiello, University of Urbino Carlo Bo, Italy</i> <i>Stig Pedersen-bjerggaard, University of Oslo, Norway</i></p>	<p>ISCC Session 14 – MINIATURIZED SAMPLE PREPARATION 2 Room Dolomiti <i>Chairpersons:</i> <i>Peter Q. Tranchida, University of Messina, Italy</i> <i>Verónica Pino, University of La Laguna, Spain</i></p>
<p>09:00</p>	<p>LE.72 WHOLE COLUMN IMAGING ICIEF COUPLED TO MS FOR CHARACTERIZATION OF NATIVE PROTEINS <i>Janusz Pawliszyn</i> <i>University Of Waterloo, Waterloo, Canada</i></p>	<p>LE.77 NEW MATERIALS FOR THE SELECTIVE EXTRACTION OF EMERGING CONTAMINANTS FROM ENVIRONMENTAL SAMPLES <i>Rosa Maria Marcé, Abril Trullàs, Alberto Moral, Francesc Borrull, Núria Fontanals</i> <i>Universitat Rovira I Virgili, Tarragona,, Spain</i></p>
<p>09:20</p>	<p>LE.73 GC-COMBUSTION-MS AS A UNIVERSAL AND ELEMENT-SELECTIVE DETECTOR FOR THE QUANTITATIVE CHARACTERIZATION OF HETEROATOM-CONTAINING COMPOUNDS IN COMPLEX MATRICES <i>Pierre Giusti^{1,2}, Tiziana Orlando^{3,2}, Montserrat Redondo-velasco⁴, Mariella Moldovan⁴, Marco Piparo^{1,2}, Suzuki Takamasa⁵, King Gregory⁵, Ryo Takechi⁵, Brice Bouyssiere³, Jorge Ruiz Encinar⁴</i> ¹Totalenergies, ROGERVILLE, France ²International Joint Laboratory–ic2mc: Complex Matrices Molecular Characterization, Rogerville, France ³Universite De Pau Et Des Pays De L’adour, Pau, France ⁴University Of Oviedo, Oviedo, Spain ⁵Shimadzu Corporation, Kyoto, Japon</p>	<p>LE.78 MICROEXTRACTION APPROACHES TOWARDS GREEN(ER) BIOANALYSIS <i>Victoria Samanidou</i> <i>Aristotle University of Thessaloniki, Thessaloniki, Greece</i></p>
<p>09:35</p>	<p>LE.74 GC-MS WITH A SUPERSONIC MOLECULAR BEAM INTERFACE – MOLECULAR IONS ENHANCEMENT AND ITS BENEFITS <i>Alexander Fialkov, Aviv Amirav</i> <i>Tel Aviv University, Tel Aviv, Israel</i></p>	<p>LE.79 USING MULTIPLE CAPILLARY GC COLUMNS OF INCREASING PHASE STRENGTHS IN SERIES TO PERFORM HEADSPACE EXTRACTIONS PRIOR TO SPLITLESS GCMS INJECTION AND ANALYSIS <i>Daniel B. Cardin¹, Victoria Vogel¹, Weier Hao², Daniel J. Cardin²</i> ¹Entech Instruments, Simi Valley, United States (US) ²Entech Instruments, Simi Valley, United States</p>
<p>09:50</p>	<p>LE.75 A TRUE NON-RADIOACTIVE ALTERNATIVE TO CLASSICAL ELECTRON CAPTURE DETECTORS: HERE DEMONSTRATED FOR HALOGEN-SPECIFIC TRACE ANALYSIS <i>Maximilian Johannes Kueddelsmann^{1,2}, Daniel Claassen¹, Martin Lippmann¹, Stefan Zimmermann^{2,1}</i> ¹Hummex Analytics Gmbh, Hannover, Germany ²Leibniz University Hannover, Hannover, Germany</p>	<p>LE.80 DEVELOPMENT OF A CAPILLARY MONOLITHIC OLIGOSORBENT–HPLC–MS METHOD FOR QUANTIFYING ALZHEIMER’S DISEASE BIOMARKERS IN BIOLOGICAL FLUIDS <i>Israel Donizeti De Souza¹, Valérie Pichon¹, Maria Eugenia Costa Queiroz², Audrey Combès¹</i> ¹École Supérieure De Physique Et De Chimie Industrielles De La Ville De Paris, Paris, France ²University Of Sao Paulo, Ribeirão Preto, Brazil</p>

10:05	<p>LE.76 NOVEL DEVELOPMENTS IN ENANTIO-SELECTIVE DETECTION OF CHIRAL MOLECULES BY LASER-BASED MASS SPECTROMETRY – PHOTOELECTRON CIRCULAR DICHROISM Maurice H.M. Janssen¹, Hugo Maurer², Wim Roeterdink³, Wybren Jan Buma², Ivan Powis⁴, Harald Homulle⁵, Ivan Michel Antolovic⁵ ¹Massspecpecd BV, Enschede, The Netherlands ²University Of Amsterdam, Amsterdam, The Netherlands ³Vrije Universiteit, Amsterdam, The Netherlands ⁴University Of Nottingham, Nottingham, United Kingdom ⁵Pi Imaging Technology SA -a ZEISS Company, Lausanne, Switzerland</p>	<p>LE.81 APPLICATION OF MINIATURISATION OF SAMPLE PREPARATION FOR DETERMINATION OF MYCOTOXIN CONTAMINATION OF SELECTED AROMATIC PLANTS Marijana Sokolovic¹, Viktoria F. Samanidou², Natasa Kalogiouri², Camelia Tulcan³, Roberta Tripon³, Camen Dorin³, Marija Berendika¹ ¹Croatian Veterinary Institute - Poultry Centre, Zagreb, CROATIA ²Aristotle University Of Thessaloniki, Thessaloniki, GREECE ³University Of Life Sciences King Michai I From Timisoara, Timisoara, ROMANIA</p>
10:20 – 10:50	Coffee Break – Exhibition	
10:50 – 12:10	<p>ISCC Session 15 – NATURAL PRODUCTS, FOOD, FLAVOURS AND FRAGRANCES Room Garda Chairpersons: Marina Russo, University of Messina, Italy Cecilia Cagliero, University of Turin, Italy</p>	<p>ISCC Session 16 – ELECTROMIGRATION METHODS Room Dolomiti Chairpersons: Brett Paull, University of Tasmania, Hobart, Australia Janusz Pawliszyn, University of Waterloo, Canada</p>
10:50	<p>LE.82 THE APPLICATION OF DIFFERENT CHROMATOGRAPHIC METHODS TO THE STUDY OF TROPICAL VEGETAL BIODIVERSITY Elena Stashenko Universidad Industrial de Santander, Bucaramanga, Colombia</p>	<p>LE.87 EMERGING APPLICATIONS OF CE-MS AND MULTIDIMENSIONAL LC-MS IN BIOPHARMACEUTICAL ANALYSIS Koen Sandra, Jasmin Schairer, Gianni Vandenberghe, Liesa Verscheure, Evert Van Hoestenbergh, Jelle De Vos, Shauni Detremmerie, Eline De Rore, Mabelle Meersseman, Pat Sandra RIC Group, Kortrijk, Belgium</p>
11:10	<p>LE.83 CHARACTERIZATION OF YLANG-YLANG KEY ODORANTS BY GC-OLFACTOMETRY EXPERIMENTS AND REFORMULATION STUDIES Nicolas Baldovini¹, Maxence Lalis¹, Abacar Chakira² ¹Université Côte D'azur, Nice, France ²Université Des Comores, Moroni, Union Des Comores</p>	<p>LE.88 FINGERPRINTING OF SECONDARY METABOLITES OCCURRING IN SELENIUM ENRICHED CABBAGE BY CAPILLARY ZONE ELECTROPHORESIS Danilo Corradini¹, Giovanni D'Orazio¹, Enrica Donati¹, Zeineb Aturki¹, Ewa Babkiewicz², Ewa Bulska² ¹CNR - Consiglio Nazionale Delle Ricerche, Montelibretti, Italy ²University of Warsaw, Warsaw, Poland</p>
11:25	<p>LE.84 ARTIFACT FORMATION IN THE INJECTOR – AN UNDERESTIMATED PROBLEM IN GC ANALYSIS OF ODORANTS Martin Steinhaus^{1,2}, Julian Reinhardt^{2,1} ¹Leibniz Institute For Food Systems Biology At The Technical University Of Munich (leibniz-lsb@tum), Freising, Germany ²Technical University Of Munich, Garching, Germany</p>	<p>LE.89 METHOD OPTIMIZATION FOR CAPILLARY ELECTROPHORESIS USING DESIGN OF EXPERIMENTS (DOE) Andreas Zemann¹, Felix Lackner¹, Irene Rohregger² ¹University Innsbruck, Innsbruck, Austria ²Medel, Innsbruck, Austria</p>

11:40	<p>LE.85 DRYING-INDUCED CHANGES IN MICROBIAL LOAD AND VOLATILE ORGANIC COMPOUNDS OF SHRIMP: A COMPARISON OF SC-CO₂, HOT-AIR, AND FREEZE DRYING <i>Eugenio Aprea¹, Faezeh Khoobakht¹, Elena Santoro^{1,2}, Gasperi Flavia¹, Zambon Alessandro³, Zulli Riccardo², Guidi Margherita², Spilimbergo Sara²</i> ¹University Of Trento, San Michele All Adige, Italy ²University Of Padova, Padova, Italy ³University Of Bologna, Bologna, Italy</p>	<p>LE.90 CE-MS METABOLOMIC AND LC-MS PROTEOMIC ANALYSES OF BREAST CANCER EXOSOMES REVEAL ALTERATIONS IN PURINE AND CARNITINE METABOLISM <i>Maxim Berezovski</i> <i>University Of Ottawa, Ottawa, Canada</i></p>
11:55	<p>LE.86 NAVIGLIO EXTRACTOR®: MEDICINAL PLANT EXTRACTS FOR RAPID PRODUCTION OF SUPPLEMENTS AND BEVERAGES. INTRODUCING THE NEW BITTER LIQUEUR: “AMARO DELLE DONNE.” <i>Daniele Naviglio</i> <i>University Of Naples Federico II, Naples, Italy</i></p>	<p>LE.91 WHEN SURFACES LIE: USING CAPILLARY SEPARATIONS TO VALIDATE MOLECULAR RECOGNITION <i>Sergey N. Krylov¹, Quan Duc Le¹, An Thi Hoai Le¹, Tong Ye Wang¹, Noah A. Clark², David Seghetti-hebble², Svetlana M. Krylova¹</i> ¹York University, Toronto, Canada ²Illumina, Boulder, United States (US)</p>
12:10 – 12:40	<p>Quiz Game Who Wants to Be a Chroma-Trillionaire</p>	
12:40 – 13:10	<p>Closing Address 44th ISCC Room – Garda Chairperson: <i>Luigi Mondello, University of Messina, Italy</i> <i>Pat Sandra, RIC Group, Belgium</i></p> <p>Presentation of the: GENZO SHIMADZU Oral Awards (Young Scientists) ABC Springer Best Poster Award (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</p>	
13:10	<p>Farewell Cocktail, offered by Waters Corporation, Conference Center</p>	

A. CAPILLARY GAS CHROMATOGRAPHY

A.01 GAS CHROMATOGRAPHIC AND MICROBIOLOGICAL ANALYSIS OF 25-YEAR-OLD LEMON ESSENTIAL OILS: WHAT TO EXPECT?

Daniele Naviglio¹, Paolo Trucillo², Alessandro Salvati¹, Federica Carraturo³, Michela Salamone³, Marco Guida³, Rita Pagano¹, Armando Zarrelli¹, Monica Gallo⁴

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⁴ University of Naples Federico II, Department of Molecular Medicine and Medical Biotechnology, Via Pansini 5, 80131 Naples, Italy

A.02 FLOW-FIELD THERMAL GRADIENT GC: BALANCING SPEED, RESOLUTION AND ENERGY EFFICIENCY

Lina Mikaliunaite¹, Laura Mcgregor², Matt Edwards³, Anthony Buchanan², Ricardo Roque², James Ogden², Nick Bukowski², Peter Boeker⁴

¹ Markes International, 1000B Central Park, Western Avenue, CF31 3RT Bridgend, United Kingdom

² Sepsolve Analytical, 4 Swan Court, PE78GX Peterborough, United Kingdom

³ Sepsolve Analytical, 1060 Guelph St, N2B 2E3 Kitchener, Canada

⁴ University of Bonn, Käthe-Kümmel-str. 1, 51177 Bonn, Germany

A.03 RELATIONSHIP BETWEEN RETENTION PARAMETERS AND RETENTION INDICES IN GAS CHROMATOGRAPHY

Jan Leppert, Tillman Brehmer, Peter Boeker, Matthias Wüst

University of Bonn, Institute of Nutritional and Food Sciences, Käthe-Kümmel-strasse 1, 53115 Bonn, Germany

A.04 PREPARATIVE MULTIDIMENSIONAL GAS CHROMATOGRAPHY FOR THE ISOLATION OF SPECIFIC TERPENE FAMILIES FROM SPICES' ESSENTIAL OILS

Danilo Sciarrone¹, Lorenzo Cucinotta¹, Marta Pavarino², Francesca Cannizzaro¹, Barbara Sgorbin², Patrizia Rubiolo², Luigi Mondello^{1,3}

¹ University of Messina, Messina Institute of Technology, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, Viale G. Palatucci 13, 98168 Messina, Italy

² University of Turin, Department of Drug Science and Technology, Via Pietro Giuria 9, 10125 Turin, Italy

³ Chromaleont S.r.l., C/o Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Viale G. Palatucci, 13, 98168 Messina, Italy

A.05 PROMOTING THE TRANSITION AWAY FROM FOSSIL FUELS IN GAS CHROMATOGRAPHY: NITROGEN AS ALTERNATIVE CARRIER GAS FOR GC ANALYSIS OF ESSENTIAL OILS

Filippo Alibrando¹, Federica Vento², Ivana Lidia Bonaccorsi², Giuseppe Micalizzi², Luigi Mondello^{1,2}

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A.06 HEADSPACE SPME-GC-MS CHARACTERIZATION OF MUSHROOMS AND AGRO-INDUSTRIAL BY-PRODUCTS FOR SUSTAINABLE FOOD PROTEIN DEVELOPMENT

Giorgia Botta, Giorgio Felizzato, Eloisa Bagnulo, Giulia Tapparo, Andrea Caratti, Chiara Cordero, Erica Liberto

University of Turin, Department of Drug Science and Technology, Via Pietro Giuria 11, 10125 Torino, Italy

A.07 IMPORTANCE OF GC COLUMN DEACTIVATION TECHNOLOGY FOR THE ANALYSIS OF CHALLENGING ANALYTES

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A.08 COMPARISON OF VOCS PROFILE IN CHAI MASALA SPICE BLEND USING VARIOUS COLUMN SETUPS WITH COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY

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A.09 CAN VOLATILES ACT AS BIOMARKERS IN INSECTS? STRATEGIES FOR MICROEXTRACTION AND VOLATILOME ANALYSIS BY GC-MS FROM ANDEAN ORCHID BEES.

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A.10 THE IMPACT OF LINER GEOMETRY ON THE VAPORIZATION PROCESS IN GC INJECTION

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- A.11 DETAILED CHARACTERISATION OF SOUTH AFRICAN OLD VINE CHENIN BLANC AROMA USING MULTIPLE SAMPLE PREPARATION METHODS IN COMBINATION WITH GC-MS AND GC×GC-HR-TOFMS AND CORRELATION TO SENSORY DATA**
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- A.12 PRINTING REGIMES AND THEIR INFLUENCE ON POTENTIAL MIGRANTS IN FOOD CONTACT MATERIAL**
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- A.13 IMPACT OF THE 2025 USP UPDATE ON THE SELECTIVITY OF G43 COLUMNS: RESOLUTION OF THE CRITICAL PAIR PYRIDINE-CYCLOPENTYL METHYL ETHER USING AN ULTRA INERT 6% CYANOPROPYL PHENYL 94% DIMETHYLPOLYSILOXANE GC COLUMN**
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- A.14 RELATIVE RESPONSE FACTOR IN GAS CHROMATOGRAPHY-FLAME IONIZATION DETECTOR: A COMPLEX TASK**
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B. NANO AND CAPILLARY LIQUID CHROMATOGRAPHY

- B.01 COMPACT CAPILLARY LC FOR THE ANALYSIS OF SAMPLES WITH COMPLEX MATRICES**
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- B.02 CAPILLARY LC-DAD-MS AS A POWERFUL TOOL FOR THE INDIVIDUAL PROFILING OF BIOACTIVE COMPOUNDS IN AGRI-FOOD WASTE EXTRACTS**
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- B.03 DEVELOPMENT OF HARDWARE AND SOFTWARE APPROACHES TO COMPREHENSIVE CAPILLARY 2D-LC**
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- B.04 AUTOMATED ONLINE SPE PAIRED WITH CAPILLARY LC-UV SYSTEM FOR LOW CONCENTRATION DETECTION OF ILLICIT DRUGS IN URINE**
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- B.05 PREPARATION OF CAPILLARY LC COLUMNS IN TUBE-IN-MANIFOLD MICROFLUIDIC DEVICES**
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- B.06 IMPLEMENTING CAPILLARY LC INTO RADIOPHARMACEUTICAL WORKFLOWS**
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- B.07 FIVE-MINUTE MICRO-LC METHODS FOR GREEN ANALYSIS OF XENOBIOTIC AND BIOACTIVE COMPOUNDS IN FOODSTUFFS**
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B.08 HAND-PORTABLE CAPILLARY LIQUID CHROMATOGRAPHY FOR THE DETERMINATION OF PARABENS IN COSMETICS USING POROUS GRAPHITIC CARBON STATIONARY PHASES

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B.09 RAPID ON-SITE PFAS PROFILING USING PORTABLE LCMS: A MULTI-MATRIX CASE STUDY FROM CAMBRIDGE, TAS, AUSTRALIA

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C. COLUMN TECHNOLOGY

C.01 INTRODUCTION AND CHARACTERIZATION OF HALOGEN BONDING LIQUID CHROMATOGRAPHY: SEPARATIONS BASED ON NOVEL CHEMICAL INTERACTIONS AND MECHANISMS

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C.02 ENGINEERING ULTRA-LOW-BLEED, ULTRA-INERT GC COLUMNS FOR SUPERIOR SENSITIVITY, STABILITY, AND REPRODUCIBILITY

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C.03 RECENT ADVANCEMENTS IN NEW POLYETHYLENE GLYCOL (WAX) GC COLUMNS WITH ULTRA-LOW BLEED AND ULTRA-INERT CHARACTERISTICS FOR IMPROVED RESULT RELIABILITY AND COLUMN LIFETIME

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C.04 FUNDAMENTAL INVESTIGATION OF THE DISPERSION IN RANDOMLY PACKED CHROMATOGRAPHIC MEDIA

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C.05 HIGH-SENSITIVITY GC/MS/MS DETERMINATION OF PHTHALATES IN CONSUMER PLASTICS USING AN ADVANCED ULTRA LOW-BLEED 5% PHENYL GC COLUMN

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C.06 THE INFLUENCE OF BIOINERT COLUMN HARDWARE ON HPLC-MS SEPARATION OF LOW MOLECULAR WEIGHT POLAR METABOLITES

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C.07 A DUAL-SELECTIVITY STRATEGY FOR GC: CYCLODEXTRINS MEET IONIC LIQUIDS

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D. HYPHENATED TECHNIQUES

D.01 AZA-PATERNÒ-BÜCHI REACTION FOR THE REGIOISOMER-RESOLVED ANNOTATION OF CHOLESTERYL ESTERS BY NEGATIVE-ION-MODE LC-MS/MS

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- D.02 DERIVATIZATION-FREE DOUBLE-BOND ASSIGNMENT OF FATTY ACIDS USING GC-APCI-MS**
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- D.03 BACTERIAL IDENTIFICATION USING PYROLYSIS-GAS CHROMATOGRAPHY-ION MOBILITY SPECTROMETRY**
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- D.04 ENHANCING CONFIDENCE IN HYDROCARBON IDENTIFICATION IN GAS CHROMATOGRAPHY THROUGH COMPLEMENTARY FT-IR INFORMATION AND DEDICATED SPECTRAL LIBRARIES**
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- D.05 GC-MS WITH A SUPERSONIC MOLECULAR BEAM AND ITS ENHANCEMENT TECHNOLOGIES**
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- D.06 TO DERIVATIZE, OR NOT DERIVATIZE**
Federico Cozzi, Adrian Ernst Godfrey, Georg Weingart
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- D.07 MONITORING CHEMICAL INTEGRITY AND ADDITIVE TRANSFORMATION IN IMMERSION COOLING FLUIDS USING GAS CHROMATOGRAPHY AND MASS SPECTROMETRY WORKFLOWS**
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- D.08 RAPID ONE-STEP UHPLC-HRMS METHOD FOR MULTIRESIDUE PESTICIDE ANALYSIS IN HAZELNUT-BASED BEVERAGES**
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- D.09 TENTATIVE IDENTIFICATION OF BRANCHED ALKANE ISOMERS BY GC-FTIR, USING RETENTION INDICES AND CH₃/CH₂ STRETCHING RATIOS**
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- D.10 GC-BASED ELUCIDATION OF BACTERIAL FATTY ACID PROFILES FOR CHEMOTAXONOMIC CHARACTERIZATION**
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- D.11 HIGH RESOLUTION-ELECTROSPRAY-TANDEM MASS SPECTROMETRY (HR-ESI-MS/MS) SPECTRAL DATABASE DEVELOPMENT OF MEDICINAL PLANTS METABOLOME FOR THEIR RAPID AND ACCURATE IDENTIFICATION**
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- D.12 MACHINE LEARNING-ASSISTED UHPLC-Q-ORBITRAP-HRMS METABOLOMICS FOR SAFFRON TRACEABILITY**
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- D.13 BENCHMARKING UHPLC-MS/MS VS SFC-MS/MS FOR TARGETED GLYCOSPHINGOLIPIDOMICS**
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- D.14 DRAMATICALLY IMPROVED HYDROCARBONS ANALYSIS USING GC-MS WITH COLD EI**
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D.15 LABWARE LEACHABLES AS A SOURCE OF ARTEFACTS IN UNTARGETED METABOLOMICS USING LC-SLIM-QTOF

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D.16 DEVELOPMENT AND VALIDATION OF A GC-MS/MS METHOD FOR THE DETERMINATION OF NITAZENE ANALOGUES

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D.17 ENHANCED MONITORING OF POLYCYCLIC AROMATIC HYDROCARBONS IN ENVIRONMENTAL SAMPLES USING A THERMALDESORPTION-CRYOGENIC ZONE COMPRESSION GC-QqQMS APPROACH

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E. COUPLED AND MULTIDIMENSIONAL TECHNIQUES

E.01 ONLINE LC-GC-QQMS APPROACH FOR THE DETERMINATION OF 16 PAHS IN EXTRA VIRGIN OLIVE OIL

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E.02 COMPREHENSIVE ANALYSIS OF VOLATILE ORGANIC COMPOUNDS IN ROASTED COFFEE ACROSS DIFFERENT GEOGRAPHICAL ORIGINS

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E.03 A MULTI-DIMENSION SWITCH THAT UNIFIES HEART-CUTTING AND COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY

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E.04 A CONFIGURABLE GRADIENT SCORE CRITERION FOR TARGETED LC-MS/MS OPTIMIZATION VIA MIN-MAX NORMALIZATION

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E.05 STATIONARY PHASE SCREENING TO IMPROVE MINERAL OIL HYDROCARBON ANALYSIS

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E.06 COMPREHENSIVE CHEMICAL CHARACTERIZATION OF JASMINUM GRANDIFLORUM L. ABSOLUTE BY INTEGRATED GAS CHROMATOGRAPHIC APPROACHES

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- E.07 OPTIMIZATION OF THERMAL DESORPTION TUBE LOADING FOR MULTICLASS VOCs VIA DOE AND GCXGC-TOFMS**
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F. SAMPLING SYSTEMS

- F.01 A FAST AND SENSITIVE METHOD FOR THE QUANTIFICATION OF DIOXIN LIKE POLYCHLORINATED BIPHENYLS IN RECYCLED MATERIALS USING ARROWS-SPME-GC-MSMS**
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- F.02 PHASE-TRANSITION-DRIVEN EXTRACTIONS: THERMORESPONSIVE ADSORBENTS FOR SIMPLIFIED, LOW-WASTE ANALYTICAL WORKFLOWS**
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- F.03 SIMPLIFYING PFAS ANALYSES WITH AN IMPROVED DUAL BED SOLID-PHASE EXTRACTION METHOD**
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- F.04 A SAMPLING SYSTEM FOR MULTI-COLUMN CAPILLARY GAS CHROMATOGRAPHY USING SILICON PNEUMATIC MICROVALVES**
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- F.05 INNOVATIVE 3D-PRINTED BIODEGRADABLE AND BIOCOMPATIBLE SWAB (ECOBIOSAL) FOR FORENSIC AND CLINICAL ORAL FLUID ANALYSIS**
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- F.06 LARGE-VOLUME SPE-BASED SAMPLING DEVICE FOR TRACE-LEVEL SCREENING OF ORGANIC CONTAMINANTS IN ENVIRONMENTAL WATERS**
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G. MINIATURIZED SAMPLE PREPARATION

- G.01 IN-VIAL ONE-STEP FAME DERIVATIZATION IN BIOLOGICAL SAMPLES FOLLOWED BY GC-FID AND GC×GC-MS ANALYSIS**
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- G.02 OPTIMIZATION OF VAC-HS-SPME-GC×GC-QMS FOR THE SIMULTANEOUS QUANTIFICATION OF 5-HMF AND VOLATILE PROFILING IN HONEY**
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- G.03 OPTIMIZED AND MINIATURIZED GC-MS/SPME METHOD FOR ROCKET FUEL IN SOIL**
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- G.04 UNRAVELLING THE DISPLACEMENT EFFECT COMPLEXITY IN SOLID-PHASE MICROEXTRACTION WHEN USING METAL-ORGANIC FRAMEWORKS AS FIBER COATINGS**
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- G.05 CHEMICAL CHARACTERIZATION AND ISOLATION OF ANTIOXIDANT MOLECULES IN MEDITERRANEAN MACROALGAE THROUGH CHROMATOGRAPHIC TECHNIQUES**
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- G.06 3D-PRINTED TPMS DEVICES COATED WITH MOLECULARLY IMPRINTED POLYMERS FOR THE MICROEXTRACTION AND UHPLC-MS/MS DETERMINATION OF MELATONIN AND ITS METABOLITES IN URINE**
Maria Eugênia Costa Queiroz, Deyber Arley Vargas Medina, Johana Catalina Rosero Rosero
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- G.07 NANOFIBER-BASED SORBENTS: A NOVEL APPROACH FOR EXTRACTION OF ENVIRONMENTAL CONTAMINANTS FROM RIVER WATER**
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- G.08 ANALYTE-DISCRIMINATING PHYSICO-CHEMICAL DIFFERENCES OF TECHNICAL LIGNINS EXPLOITED IN MICROEXTRACTIONS USING MAGNETIC SUBMICRON-SIZED PARTICLES**
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- G.09 DIRECT AND AUTOMATED DERIVATIZATION OF LIPIDS IN MEDITERRANEAN MACROALGAE FOR GAS CHROMATOGRAPHIC ANALYSIS AND ENRICHMENT OF OMEGA-3 FATTY ACID ETHYL ESTERS BY SUPERCRITICAL FLUID CHROMATOGRAPHY**
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- G.10 AUTOMATED AND MINIATURIZED ONLINE QUECHERS EXTRACTION OF PESTICIDES IN CANNABIS SATIVA L. FLOWERING TOPS FOLLOWED BY GAS CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY ANALYSIS.**
Giuseppe Cirino Presti¹, Danilo Donnarumma¹, Alessandra Trozzi¹, Giuseppe Micalizzi¹, Luigi Mondello^{1,2}
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- G.11 SELECTIVE DETERMINATION OF BASIC PHARMACEUTICALS IN RIVER WATER BY STIR-BAR SORPTIVE EXTRACTION USING A METHACRYLIC ACID-FUNCTIONALIZED MATERIAL**
Rosa María Marcé¹, Abril Trullàs¹, Héctor Martínez-pérez-cerejuela², Mònica Català-icardo³, José Manuel Herrero-martínez², Núria Fontanals¹
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- G.12 DISPOSABLE PIPETTE EXTRACTION OPTIMIZATION FOR FLURALANER QUANTIFICATION IN CATTLE PLASMA BY LC-MS/MS**
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- G.13 DEVELOPMENT OF HYBRID MONOLITHS INCORPORATING METAL-ORGANIC FRAMEWORKS FOR STIR BAR SORPTIVE EXTRACTION COUPLED WITH LIQUID CHROMATOGRAPHY FOR DETERMINATION OF ESTROGEN ENDOCRINE DISRUPTORS IN WATER AND HUMAN URINE SAMPLES**
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- G.14 MONITORING PESTICIDE RESIDUES IN PLANT-BASED MILKS: A RAPID AND GREEN LLE/LTP-LC-MS/MS APPROACH**
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- G.15 A NOVEL UHPLC-MS/MS APPROACH FOR THE SENSITIVE QUANTIFICATION OF ISOPROSTANES IN ORAL FLUID WITH MINIMAL SOLVENT CONSUMPTION**
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- G.16 SPME APPROACHES WITH SELECTIVE SORBENTS FOR LC-MS/MS OR MS/MS METHODS TO DETERMINE NEURODEGENERATIVE DISEASE BIOMARKERS**
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H. TRACE AND PFAS ANALYSIS

- H.01 ASSESSING THE LEVELS AND POSSIBLE HEALTH RISKS OF NEONICOTINOID PESTICIDE RESIDUES IN MUSHROOMS**
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- H.02 DETERMINATION OF PERFLUOROALKYL CARBOXYLIC AND SULFONIC ACIDS IN WASTEWATER SAMPLES USING GC/AED**
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- H.03 QUANTIFICATION OF 7 PRIORITY PFAS ANALYTES IN HUMAN SERUM USING DISPERSIVE MICRO-SOLID PHASE EXTRACTION IN PIPETTE TIPS COMBINED WITH LC-MS/MS**
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- H.04 INTER-LABORATORY EVALUATION OF PFAS BACKGROUND LEVELS IN PRE-CLEANED XAD-2 POLYSTYRENE/DIVINYLBENZENE RESIN FROM VARIOUS MANUFACTURING BATCHES**
Frank Michel¹, Joshua J. Fera², Olga I. Shimelis², Hugh Cramer², M. James Ross²
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- H.05 CRYOGENIC ZONE COMPRESSION AS A FOCUSING STRATEGY FOR ENHANCED DETECTION OF POLYCYCLIC AROMATIC HYDROCARBONS IN EXTRA-VIRGIN OLIVE OIL**
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- H.06 A FAST AND LOW-SOLVENT CONSUMPTION MULTI-RESIDUE METHOD FOR PESTICIDES ANALYSIS IN TABLE GRAPES BY LP-GC-MS/MS**
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- H.07 TRACE ELEMENTS IN CLINICAL SAMPLES: FAST AND SIMPLE ANALYSIS USING QUADRUPOLE ICP-MS**
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- H.08 FULLY AUTOMATED ANALYSIS OF VOLATILE PFAS IN FOOD CONTACT MATERIALS**
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- H.09 DEVELOPMENT AND CHARACTERIZATION OF A TOLUENE PERMEATION TUBE IN A DYNAMIC GAS GENERATION SYSTEM FOR CALIBRATION OF AN ONLINE GAS CHROMATOGRAPHY AT PPB LEVEL**
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- H.10 ADSORPTION AND THERMAL DESORPTION STUDIES OF POLYCYCLIC AROMATIC HYDROCARBONS GENERATED BY PERMEATION TUBES ON IRON OXIDE COMPOSITE NANOMATERIALS, USING GAS CHROMATOGRAPHY**
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- H.11 ONLINE MONITORING OF BIOGENIC VOLATILE ORGANIC COMPOUNDS EMITTED FROM FALL ARMYWORM- INFESTED MAIZE PLANTS WITH TRANSPORTABLE GAS CHROMATOGRAPHY**
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- H.12 PFAS MEASUREMENTS IN AIR: CHALLENGES, STANDARDS, AND ANALYTICAL INNOVATIONS**
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- H.13 FULLY AUTOMATED DERIVATIZATION PROTOCOL FOR ULTRA SHORT-CHAIN PFCAS FOR GC-MS/MS DETECTION.**
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- H.14 TRACE ANALYSIS OF BISPHENOLS AND PARABENS IN HUMAN PLASMA BY RP-HPLC-MS/MS**
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- H.15 LINEAR RETENTION INDEX NORMALIZATION USING A TRIACYLGLYCEROL HOMOLOGOUS SERIES FOR MULTI-CLASS EXTRACTABLES AND LEACHABLES ANALYSIS BY LC-MS SINGLE QUADRUPOLE**
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- H.16 SUPPORTING INVESTIGATIONS OF SERIOUS ENVIRONMENTAL CRIMES THROUGH LC-QTOF-HRMS IMPURITY FINGERPRINTING OF CARBOFURAN FORMULATIONS**
Zdena Skrob¹, Jan Rezek², Genny Grasselli³, Adriana Arigo³, Achille Cappiello³, Artur Sniegon¹, Tomas Cajtham¹
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- H.17 TOWARD ULTRA-TRACE DETECTION: BUCKYPAPER-DRIVEN DISC-SPE INNOVATION**
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- H.18 IMPACT OF COLD SAPONIFICATION CONDITIONS ON THE STABILITY OF STEROL OXIDATION PRODUCTS: IMPLICATIONS FOR TRACE ANALYSIS**
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- H.19 EVALUATION OF IONIZATION SOURCE SELECTION FOR MULTIRESIDUE PESTICIDE ANALYSIS USING ADVANCED GAS CHROMATOGRAPHY–MASS SPECTROMETRY**
Giuseppe Cirino Presti¹, Danilo Donnarumma¹, Giuseppe Micalizzi¹, and Luigi Mondello^{1,2}
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I. AUTOMATION, INSTRUMENTATION AND ARTIFICIAL INTELLIGENCE

- I.01 MODERN APPROACHES TO AUTOMATED ANALYTE ENRICHMENT: ENHANCING TRACE-LEVEL DETECTION IN COMPLEX MATRICES**
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- I.02 AUTOMATED SPLITLESS GCMS INJECTIONS OF LARGE SOLVENT VOLUMES UP TO 1000UL WHILE LEAVING NON-GC COMPATIBLE COMPOUNDS IN THE SAMPLE VIAL RATHER THAN IN THE GC LINER TO REDUCE MAINTENANCE DURING TRACE LEVEL ANALYSIS**
Daniel B. Cardin, Victoria Vogel, Weier Hao
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- I.03 APPLICATION OF NEW SORBENT PHASES FOR ASE AND SBSE ON HARD SELTZER PRODUCTS**
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- I.04 AUTOMATING MATERIAL EMISSIONS TARGETED AND NON-TARGETED DATA ANALYSIS: THE GERSTEL TVOC WIZARD**
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- I.05 AUTOMATED GC-FID ANALYSIS OF FATTY ACID METHYL ESTERS IN OILS USING FULLY INTEGRATED SAMPLE PREPARATION**
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- I.06 ROBUST ON-LINE SAMPLE CLEANUP-LC-MS ANALYSIS OF SMALL MOLECULES IN CELL CULTURE MEDIA**
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- I.07 DECODING COCOA AROMA: LINKING GC-MS FINGERPRINTS TO SENSORY PERCEPTION THROUGH SHAP-INTERPRETABLE MACHINE LEARNING**
Giorgio Felizzato¹, Eloisa Bagnulo¹, Alessandro Guglielmetti², Cristian Bortolin², Andrea Caratti¹, Carlo Bicchi¹, Chiara Cordero¹, Erica Liberto¹
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- I.08 ENHANCING FOOD QUALITY ASSESSMENT THROUGH DATA FUSION AND MACHINE LEARNING: A CASE STUDY ON OFF-FLAVOUR COCOA**
Giorgio Felizzato¹, Eloisa Bagnulo¹, Alessandro Guglielmetti², Cristian Bortolin², Carlo Bicchi¹, Chiara Cordero¹, Erica Liberto¹
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- I.09 ON THE INTRINSIC ABILITY OF GAUSSIAN PROCESSES TO FAITHFULLY RECONSTRUCT CHROMATOGRAPHIC RESPONSE FUNCTION SURFACES**
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- I.10 A CONSTANT-SPLIT-RATIO GC FLOW SPLITTER FOR PARALLEL FID QUANTITATION AND MASS SPECTROMETRIC IDENTIFICATION**
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LECO Corporation, 3000 Lakeview Ave, 49085-2319 St. Joseph, United States (US)
- I.11 AUTOMATION OF SAMPLE PREPARATION AND ANALYSIS OF SVOCs IN WATER BASED ON EPA 8270 METHOD**
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- I.12 ENHANCED AND SELECTIVE VOC DETECTION EXPLOITING GC-QEPAS COMBINED SYSTEMS**
Daniela Peroni¹, Angelo Sampaolo^{2,3}, Lavinia Mongelli², Arianna Elefante^{2,4}, Marilena Giglio², Giansergio Mendun², Damien Fernandez², Jimmy Zanotto⁵, Gianluca Stani^{1,5}, William Whelan Curtin^{6,7}, Vincenzo Spagnolo^{2,3}
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J. ENVIRONMENTAL

- J.01 PYROLYSIS-GAS CHROMATOGRAPHY-MASS SPECTROMETRY AS A RELIABLE TOOL FOR THE IDENTIFICATION AND QUANTIFICATION OF MICROPLASTICS IN WATER AND FOOD SAMPLES**
Massimo Del Bubba¹, Giulia Bonaccorso¹, Giulia Secc², Giuliana Paris²
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- J.02 GREEN GC-MS METHOD FOR THE SIMULTANEOUS DETERMINATION OF PAHS AND PCBS IN DIGESTED SLUDGE AND ASSOCIATED RISK ASSESSMENT**
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- J.03 GREEN SOLVENTS: AN ENVIRONMENTALLY FRIENDLY ALTERNATIVE FOR REVERSED LIQUID CHROMATOGRAPHY**
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- J.04 DEVELOPMENT OF A CHARACTERISATION METHOD FOR D13CINORG ISOTOPIC SIGNATURE USING HEADSPACE GC-C-IRMS COUPLING IN AN ESTUARINE CONTEXT**
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- J.05 MICROWAVE SYNTHESIS OF TPBD-CH3 COF AS MICRO-DISPERSIVE SOLID PHASE EXTRACTION SORBENTS COMBINED WITH GC-MS FOR FAST, SENSITIVE AND SELECTIVE DETECTION OF PHENOLIC ENDOCRINE DISRUPTORS**
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J.06 USE OF A NEW FREE SOFTWARE PACKAGE FOR CHROMATOGRAPHIC DATA PROCESSING IN SOIL PESTICIDE ANALYSIS

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J.07 NON-TARGET SCREENING, SUSPECT SCREENING AND TARGET ANALYSIS OF UV ABSORBING CHEMICALS IN EUROPEAN HOUSE DUST BY GCXGC-MS AND GC-HRMS

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J.08 GAS CHROMATOGRAPHIC MONITORING OF TRIHALOMETHANES IN TAP WATER AND WATER TREATMENT PLANTS OF CYPRUS: METHOD ASSESSMENT USING METRIC TOOLS

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J.09 COMPARATIVE STUDY OF THE IMPACT OF VOLATILE ORGANIC COMPOUNDS ON THE VICINITY OF TWO INDUSTRIAL AREAS IN SPAIN

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J.10 CHARACTERIZATION OF FUNGAL LOW-MOLECULAR-WEIGHT ORGANIC ACIDS FOR THE RECOVERY OF RARE ELEMENTS FROM ELECTRONIC WASTE

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J.11 A COMPARATIVE STUDY FOR ORGANIC UV FILTER DETERMINATION: HPLC- PDA, HPLC-MS/MS AND VOLTAMMETRY

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K. COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY

K.01 CHARACTERIZATION OF VOLATILE OXIDATION AND RANCIDITY COMPOUNDS IN WALNUT OIL BY HEADSPACE SOLID-PHASE MICROEXTRACTION COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY TIME OF FLIGHT MASS SPECTROMETRY WITH TILE-BASED FISHER RATIO ANALYSIS

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K.02 SAMPLING AND GC×GC CHARACTERIZATION OF TRACE VOLATILE ORGANIC COMPOUNDS IN H2 AND CO2 MATRICES FOR RENEWABLE GAS INTEGRATION

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K.03 IDENTIFICATION OF TRACE CONTAMINANTS IN RECYCLED FOOD-CONTACT PLASTICS USING GC×GC-TOFMS

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K.04 SUITABILITY OF POST-CONSUMER RECYCLED PLASTIC AS A FOOD CONTACT MATERIAL

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- K.05 COMPUTER VISION-BASED AUGMENTED VISUALISATION FOR COFFEE ORIGINS IDENTIFICATION USING COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY**
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- K.06 QUICK SNIFF INTO BOAR TAIN USING INTEGRATED VOLATILE AND METABOLOMIC USING GC×GC-MS**
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- K.07 HS-SPME-GC×GC ANALYSIS FOR VOCS PROFILING IN RECYCLED PLASTICS**
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- K.08 TILE-BASED FISHER RATIO APPROACH AS A RAPID SCREENING OF LIGHT HYDROCARBONS IN CRUDE OILS: ADVANCES IN GC×GC-TOFMS DATA ANALYSIS**
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- K.09 EXPLORING THE SKIN VOLATOLOME BY TD-GCXGC-TOFMS TO IDENTIFY SIGNATURES OF SKIN CANCER**
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- K.10 ADVANCED PY-GC×GC-MS CHARACTERISATION OF ARTIFICIALLY AGED TIRE WEAR PARTICLES**
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- K.11 OPTIMIZATION OF SPME EXTRACTION FOR SPECIES-LEVEL IDENTIFICATION OF SPF WOOD AND ANALYSIS BY GC×GC-TOFMS**
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- K.12 GO WITH THE FLOW: USING HIGH-FLOW RATES IN FLOW-MODULATED GCXGC-QUADRUPOLE MASS SPECTROMETRY**
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- K.13 COMPOUNDS BY COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY/TIME-OF-FLIGHT MASS SPECTROMETRY**
Koji Okuda, Azusa Kubota, Ayumi Kubo, Masaaki Ubukata
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- K.14 METHOD DEVELOPMENT AND VALIDATION FOR THE SIMULTANEOUS DETERMINATION AND QUANTIFICATION OF ORGANOTIN COMPOUNDS IN WASTEWATER USING HS-SPME ARROW AND GC×GC-(HR)TOFMS**
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- K.15 FINGERPRINTING OF BIO-OILS FROM DIFFERENT DWARF COCONUT VARIETIES**
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- K.16 FROM VOLATILE TO AGE PREDICTION: GC×GC-DRIVEN BIOMARKERS AND MACHINE LEARNING FOR HAZELNUT SHELF-LIFE MANAGEMENT**
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- K.17 GC×GC-MS FOR QUANTITATIVE NON-TARGET SCREENING OF WASTEWATER: PIXEL-BASED PRIORITIZATION AND DATA-DRIVEN CONTAMINANT FINGERPRINTING**
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- K.18 TWO DECADES OF MULTIRESIDUE PESTICIDES ANALYSIS: A COMPARISON OF PTV-GC×GC-TOF MS AND PTV-GC×GC-TOF BTX INSTRUMENTS**
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- K.19 STATIC HEADSPACE ENANTIOSELECTIVE COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY-TIME-OF-FLIGHT MASS SPECTROMETRY FOR FOOD ANALYSIS: A PROOF-OF-PRINCIPLE STUDY**
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- K.20 GCXGC WITH THE INSIGHT FLOW MODULATOR: PARAMETERS OPTIMIZATION**
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- K.21 HS-SPME-GC×GC-TOFMS METHOD DEVELOPMENT USING AN INSIGHT FLOW MODULATOR FOR GRAPE VOLATILE PROFILING**
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- K.22 DETAILED CHARACTERIZATION OF HVO, SAF, AND RENEWABLE DIESEL BY GC×GC-TOFMS**
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- K.23 A NOVEL GC×GC MODULATOR USING SI MICROVALVES**
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- K.24 CHARACTERIZATION OF LABORATORY-AGED CRUDE OIL AND TAR FROM A POLLUTED COASTAL BEACH USING COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY COUPLED TO TIME-OF-FLIGHT MASS SPECTROMETRY**
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- K.25 CREATING TWO-DIMENSIONAL GAS CHROMATOGRAPHY STRATEGIES FOR THE SPECIATION OF HETEROATOM-CONTAINING COMPOUNDS IN NON-CONVENTIONAL FEEDSTOCKS.**
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- K.26 GOING GREENER AND SMARTER IN GC×GC: FID-MS CHROMATOGRAM FUSION FOR FRAGRANCE ALLERGEN ANALYSIS**
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- K.27 PERFORMANCE COMPARISON OF DIFFERENT GC-HRMS ANALYTICAL METHODS FOR QUANTITATION OF FRAGRANCE ALLERGENS IN PERFUME CONCENTRATES**
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- K.28 ENHANCING SELECTIVITY AND CHARACTERIZATION OF COMPLEX HYDROCARBON MIXTURES BY FLOW-MODULATED GC×GC-VUV**
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- K.29 UNRAVELING PETROCHEMICAL FOULING BY PY-GC×GC FOR ADVANCED MOLECULAR ELUCIDATION**
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- K.30 OPTIMIZATION OF SOLID-PHASE MICROEXTRACTION CONDITIONS FOR THE IDENTIFICATION OF VOLATILE ORGANIC COMPOUNDS IN COFFEE SAMPLES AND COMPARISON OF SAMPLES BASED ON GEOGRAPHICAL ORIGIN USING GCXGC-HRTOF-MS**
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- K.31 SPE-FREE GC×GC FOR TPH-CWG COMPLIANT EPH ANALYSIS: A HIGH-THROUGHPUT, COST-EFFICIENT AND SUSTAINABLE WORKFLOW**
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- K.32 COMPARATIVE ANALYSIS OF PINUS MUGO NEEDLE AND CONE EXTRACTS USING GC-MS AND HPLC-QTOF-MS/MS: PHYTOCHEMICAL PROFILE AND IN VITRO BIOACTIVITY**
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- K.33 EXTRACTION AND CHARACTERIZATION OF NITROGEN AND SULFUR COMPOUNDS FROM LIGHT PETROLEUM DERIVATIVES BY GCXGC-QTOF**
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- K.34 COMPARATIVE ANALYSIS OF WHISKY BY GC×GC-TOF MS: VARIATION ACROSS STYLES AND GEOGRAPHICAL ORIGINS**
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- K.35 DRIVING SUSTAINABILITY THROUGH COMPREHENSIVE CHEMICAL CHARACTERISATION OF PYROLYSIS OILS AND RECYCLED PLASTICS**
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- K.36 FACILITATING INTRODUCTION OF GCXGC-FID FOR ROUTINE PETROCHEMICAL ANALYSIS BY UOP 990-11**
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- K.37 CHARACTERIZATION OF HIGH-PERFORMANCE POLYMERS USING THERMAL DESORPTION/PYROLYSIS, ENHANCED CHROMATOGRAPHY, AND HIGH-RESOLUTION MASS SPECTROMETRY**
Joe Binkley, David E Alonso, John Hayes
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- K.38 GREATER INSIGHTS INTO DISTILLED SPIRITS USING HEADSPACE SPME-GCXGC-MS**
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- K.39 APPLYING COMPUTER VISION TO AUTOMATE ROUTINE GCXGC ANALYSIS**
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 GC Image, LLC, PO Box 57403, 68505 Lincoln, United States (US)
- K.40 STATISTICAL DIFFERENTIATION OF TEQUILA SPIRITS USING SPME-GCXGC-TOFMS AND CHROMATOF TILE SOFTWARE**
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- K.41 EXPLORATORY ASSESSMENT OF THE ENDOCRINE DISRUPTORS PRESENT IN BRAZILIAN HONEY BY GC/MS AND GC×GC/TOFMS**
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- K.42 DEVELOPMENT AND OPTIMIZATION OF A DERIVATIZATION METHODOLOGY TO UNTARGETED HUMAN EXHALED BREATH CONDENSATION (EBC) USING GC×GC-TOFMS**
Glaucimar Alex Passos De Resende, Thibault Massenet, Djulia Bensaada, Jean-françois Focant, Pierre-hugues Stefanuto
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- K.43 THE EFFECTIVENESS OF A REVERSE FILL/FLUSH DIFFERENTIAL FLOW MODULATOR IN GC×GC WITH PARALLEL MS/FID DETECTION**
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- K.44 FROM WASTE TO RESOURCES: SAMPLE PREPARATION APPROACHES IN COMBINATION WITH GC×GC-TOFMS FOR THE CHARACTERIZATION OF WIND TURBINE BLADE RECYCLING PRODUCTS**
Giulia Giacoppo¹, Charlotte Mase², Marco Piparo², Pierre Giust², Caroline Mangote², Luisa Pasti³, Alberto Cavazzini¹, Giorgia Purcaro⁴, Flavio Antonio Franchina¹, Marco Beccaria^{1,5}
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⁵ Totalenergies Onetech, Zone Industrielle C, 7181 Seneffe, Belgium
- K.45 STUDY OF THE COMPLEMENTARITY OF SUPERCRITICAL FLUID EXTRACTION (SFE) AND DYNAMIC HEAD SPACE (DHS) FOR ANALYSIS OF VOLATILE COMPOUNDS BY GC×GC-HRMS FROM THREE ALGERIAN PLANTS.**
Marie Vaccaro¹, Sofiane Derbouz², Amel Mezziani¹, Hafsa Ameur³, Océane Tirsell¹, Clément De Saint Jores³, Ouassila Feroukhi⁴, Pascal Cardinael¹
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⁴ Ecole Supérieure des Sciences Et Technologies, N°2 Butte Des Deux Bassins, 16104 El Achour, Algérie

- K.46 ADVANCING QUALITY CONTROL OF CONVENTIONAL, SAF, AND DROP-IN AVIATION FUELS THROUGH GC×GC: METHOD VALIDATION AND PERFORMANCE ASSESSMENT**
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- K.47 MONITORING OF VOLATILE ORGANIC COMPOUNDS RELEASED BY WOOD PYROLYSIS BY SOLID-PHASE MICROEXTRACTION COMBINED WITH ONE AND TWO-DIMENSIONAL GAS CHROMATOGRAPHY**
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- K.48 IDENTIFYING NON-BIOLOGICAL VARIANCE IN NON-TARGETED BREATHVOC METABOLOMICS**
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- K.49 ANALYTICAL CHALLENGES AND OPPORTUNITIES IN THE CHARACTERIZATION OF PYROLYSIS OILS AND OTHER ALTERNATIVE RESOURCES**
Max Jennerwein, Anne Rott, Michael Becker
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- K.50 INVESTIGATING OFF-FLAVOUR VOLATILES IN EXTRUDED MICROALGAE-FAVA BEAN ALTERNATIVE PROTEINS USING GC×GC-TOFMS**
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L. BIOMEDICAL AND PHARMACEUTICAL

- L.01 FFF-MULTIDETECTION CHARACTERIZATION OF FUNCTIONAL NANOPARTICLE AND NANOZYME-BASED SYSTEMS FOR ADVANCED BIOANALYTICAL APPLICATIONS**
Virginia Rondinini¹, Stefano Giordani^{1,2}, Laura Pozzi¹, Silvia Nuti¹, Anna Placci^{1,2}, Valentina Marassi^{1,2}, Luisa Stella Dolci¹, Andrea Zattoni^{1,2}, Pierluigi Reschiglian^{1,2}, Nelsi Zaccheroni^{1,2}, Barbara Roda²
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- L.02 FROM SEPARATION TO DECISIONS IN SCREENING: A HIDDEN MECHANISM FOR LOSING THE BEST COMPOUNDS**
Svetlana M. Krylova, Tong Y. Wang, Sergey N. Krylov, Toby Chan, Victor Jeong
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- L.03 LC-MS/MS-BASED SEPARATION AND DETERMINATION OF POLYSUBSTANCE USE MARKERS IN WHOLE BLOOD**
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³ Department of Forensic Sciences, Division of Laboratory Medicine, Section of Drug Abuse Research, Oslo University Hospital, Section of Drug Abuse Research, Lovisenberggt. 6 Oslo, 0456 Oslo, Norway
- L.04 UPLC-MS/MS AS A SMART BIOANALYTICAL TOOL: INTEGRATION OF GREEN, SUSTAINABLE, WHITE ANALYTICAL CHEMISTRY AND ARTIFICIAL INTELLIGENCE-DRIVEN APPROACHES**
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- L.05 ANALYTICAL PLATFORM FOR HIGH-THROUGHPUT QUANTITATIVE LIPIDOMICS ANALYSIS IN HUMAN BIOLOGICAL SAMPLES BY MIXED MODE HPLC (HILIC+RP) COUPLED TO TRIPLE QUADRUPOLE MASS SPECTROMETRY**
Daniilo Donnarumma¹, Katia Arena¹, Micaela Galletta¹, Antonella Satira¹, Tania Maria Grazia Salerno¹, Giuseppe Micalizzi¹, Luigi Mondello^{1,2}
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- L.06 AIR POLLUTION-INDUCED PULMONARY DISEASES: AN INTEGRATED ANALYTICAL APPROACH FOR THE IDENTIFICATION OF BIOMARKERS**
Tania Maria Grazia Salerno¹, Micaela Galletta¹, Antonella Satira¹, Katia Arena¹, Giuseppe Micalizzi¹, Luigi Mondello^{1,2}
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- L.07 A UHPLC-DAD METHOD FOR QUANTIFICATION OF CURCUMINOIDS AND PIPERINE IN FOOD SUPPLEMENTS BASED ON CURCUMA LONGA EXTRACT AND EVALUATION OF THEIR BIOLOGICAL ACTIVITY ON THE HEP-2 CELL LINES**
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- L.08 DETERMINATION OF SHORT-CHAIN FATTY ACIDS IN HUMAN PLASMA BY MEANS OF FAST-GAS CHROMATOGRAPHY-MASS SPECTROMETRY TECHNIQUE**
Saeed Ahmed¹, Giuseppe Micalizzi¹, Francesco Cacciola¹, Daniela Caccamo², Luigi Mondello^{1,3}
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- L.09 ADVANCED ANALYTICAL APPROACHES FOR THE ANALYSIS OF BIOMARKER AS INDICATORS OF CANCER AND RESPIRATORY DISEASES**
Micaela Galletta¹, Antonella Satira¹, Tania Maria Grazia Salerno¹, Arena Katia¹, Giuseppe Micalizzi¹, Luigi Mondello^{1,2}
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- L.10 CLOG-FREE, HIGH-RECOVERY EV ISOLATION VIA A SPONGY MONOLITHIC POLYMER PLATFORM**
Sayaka Yamada, Takuya Kubo
 Kyoto Prefectural University, 1-5 Shimogamo Hangi-cho, Sakyo-ku, 606-8522 Kyoto, Japan
- L.11 A RAPID AND GREEN HPLC METHOD DEVELOPMENT FOR ABROCITINIB USING DESING OF EXPERIMENTS**
Sakine Atila Karaca, Duygu Yeniceli
 Anadolu University, Faculty of Pharmacy, Department of Analytical Chemistry, Yunus Emre Campus, 26200 Eskişehir, Türkiye
- L.12 ANALYSIS OF LIPID NANOPARTICLE COMPONENTS USING HYDRA™, A NEW VACUUM ULTRAVIOLET DETECTOR FOR LIQUID CHROMATOGRAPHY**
Alex Hodgson, Annika Dombrowski, Dale Harrison
 VUV Analytics, Inc., 1500 Arrow Point Drive, 78613 Cedar Park, United States (US)
- L.13 UNDERIVATIZED AMINO ACIDS ANALYSIS WITH A NOVEL VACUUM ULTRAVIOLET DETECTOR FOR LIQUID CHROMATOGRAPHY**
Alex Hodgson, Annika Dombrowski, Dale Harrison
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- L.14 MULTI-OMICS PROFILING FOR NON-INVASIVE BIOMARKER DISCOVERY OF CARDIAC DAMAGE**
Anna Laura Capriotti¹, Andrea Cerrato², Enrico Taglioni¹, Aldo Laganà²
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- L.15 DEVELOPMENT OF A CZE-MS/MS METHOD FOR THE SIMULTANEOUS DETERMINATION OF FEDRATINIB, GILTERITINIB, PIRTOBRUTINIB AND ASCIMINIB**
Kristian Morić-španić, Zvonimir Mlinarić, Lu Turković, Miranda Sertić
 University of Zagreb Faculty of Pharmacy and Biochemistry, Department of Pharmaceutical Analysis, Ante Kovačića 1, 10000 Zagreb, Croatia
- L.16 DEVELOPMENT OF A NEW METHODOLOGY FOR THE EXTRACTION AND ANALYSIS OF METABOLITES IN EARWAX FOR APPLICATION IN METABOLOMICS STUDIES VIA GC-MS**
Ana Luiza Reis Rodrigues Da Cunha, Dayane Cristina Da Costa, Nelson Roberto Antoniosi Filho
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- L.17 ANALYTICAL QUALITY BY DESIGN-DRIVEN DEVELOPMENT OF A ROBUST CIEF PLATFORM FOR THE CHARGE HETEROGENEITY PROFILING OF MODERATELY BASIC MONOCLONAL ANTIBODIES**
Lucrezia Floris¹, Benedetta Pasquini¹, Serena Orlandini¹, Sandra Furlanetto¹, Roberto Gott²
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- L.18 CLINICAL MONITORING OF TOFACITINIB, UPADACITINIB AND FILGOTINIB LEVELS IN THE SERUM OF PATIENTS TREATED FOR INFLAMMATORY BOWEL DISEASE BY VALIDATED PROTOCOL BASED ON MICROELUTION SPE SAMPLE PREPARATION AND HPLC-MS/MS ANALYSIS**
Peter Bystricky¹, Ivana Cizmarova^{1,2}, Zuzana Zelinkova^{1,3}, Peter Mikus^{1,2}
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³ Nemocnica Bory - Penta Hospitals, Department of Gastroenterology, Ivana Kadlecika 2, 841 03 Bratislava, Slovakia.
- L.19 PLATFORM-DRIVEN IMPROVEMENT OF DETECTION LIMITS IN TRACE NEUROTRANSMITTER ANALYSIS: A COMPARATIVE STUDY OF CE-DAD AND HPLC-QTOF IN ANIMAL BRAIN TISSUE**
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² Universidad De Los Andes, Biology Department / Centro De Investigaciones En Microbiología Y Parasitología Tropical (CIMPAT), Calle 125 #56-67, 111111 Bogotá, Colombia
- L.20 LC-MS ANALYSIS OF OLIGONUCLEOTIDE SAMPLES USING ZIC-CHILIC COLUMNS**
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- L.21 IMPROVING THE GREENNESS OF EUROPEAN PHARMACOPOEIA METHODS FOR ANALYSIS OF ACTIVE PHARMACEUTICAL INGREDIENTS AND RELATED IMPURITIES**
Carmelo Coppolino^{1,2}, Katia Arena², Paola Donato², Francesco Cacciola², Luigi Mondello^{2,3}
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M. ENERGY, PETROCHEMICAL AND INDUSTRIAL

- M.01 INFLUENCE OF CO-PROCESSING FAST AND SLOW PYROLYSIS BIO-OILS WITH PETROGENIC RESIDUE IN THE COKING PROCESS ON THE MOLECULAR COMPOSITION OF LIQUID PRODUCT VIA GC×GC-TOFMS**
Yasmin Guimarães Pedro¹, Nathália Santos Pontes¹, Vinicius Barreto Pereira¹, Raquel Vieira Santana Silva¹, Andrea De Resende Pinho², Adriana Moret Borges², Gabriela Vanini¹, Débora De Almeida Azevedo¹
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- M.02 HYDROCARBON SPACE MAPPING OF HYDROCARBON UVCB SUBSTANCES TO SUPPORT READ-ACROSS UNDER REACH**
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- M.03 ADVANCEMENT IN CHEMICAL RECYCLING WITH GC-VUV**
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- M.04 COMPREHENSIVE GC×GC-FID/TOF-MS CHARACTERIZATION OF PYROLYSIS OIL**
Dmitrii Rakov, Lena Dubois, Sebastiano Pantò
LECO EATC, Max-dohrn-str. 8-10, 10589 Berlin, Germany
- M.05 TRACKING ALKYLATED DECALINS DURING BIODEGRADATION OF A COMPLEX HYDROCARBON SUBSTANCE TO DERIVE PRIMARY HALF-LIFE DATA**
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⁴ Oleolytics LLC, 308 W Prospect Ave, 16801 State College, United States

N. NATURAL PRODUCTS, FOOD, FLAVOURS AND FRAGRANCES

- N.01 REPLACING HELIUM WITH HYDROGEN IN GC-MS: A SUSTAINABLE ALTERNATIVE EVALUATED THROUGH FRAGRANCE ANALYSIS**
Marta Pavarino¹, Gaia Bechis¹, Alessia Arena², Carlo Bicchi¹, Patrizia Rubiolo¹, Mariosimone Zoccali³, Luigi Mondello^{2,4}, Cecilia Cagliero¹
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- N.02 VOLATILOMICS STUDY OF ORANGE WHEAT BLOSSOM MIDGE AND WHEAT INTERACTIONS**
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- N.03 COMPREHENSIVE CHEMICAL PROFILING OF ESSENTIAL OILS FROM OIL-BEARING ROSE SPECIES BY TWO-DIMENSIONAL GAS CHROMATOGRAPHY-MASS SPECTROMETRY**
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- N.04 A SUSTAINABLE REIMS-QTOF APPROACH FOR THE COMPREHENSIVE CHARACTERIZATION OF NATURAL PRODUCTS**
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- N.05 AMBIENT MASS SPECTROMETRY STRATEGIES FOR FINGERPRINTING AND TARGETED ANALYSIS OF MADE IN ITALY FOOD PRODUCTS**
Domenica Mangraviti¹, Francesca Rigano¹, Cinzia Cafarella¹, Katia Arena¹, Paola Dugo^{1,2}, Luigi Mondello^{1,2}
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- N.06 MSME/GC-MS FOR THE IDENTIFICATION AND PREDICTION OF THE CHARACTER OF HERBAL AROMA COMPONENTS**
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- N.07 CHEMOMETRICS LINKS CHROMATOGRAPHY-DERIVED METABOLOMIC PROFILES TO PERCEPTUAL AROMA IN CANNABIS CHEMOTYPES**
Amirmohammad Faraji Shovey¹, Valentina Braghin¹, Chiara De Luca¹, Martina Catani¹, Alberto Cavazzini^{1,2}, Luisa Pasti³, Natasha Damiana Spadafora³, Simona Felletti³
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- N.08 INTEGRATING EXPERIMENTAL AND DATA-DRIVEN RETENTION TIME ANALYSIS FOR QUERCETIN AND ALOE-EMODIN**
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- N.09 FROM LABORATORY GC-MS TO SCALABLE GC PLATFORMS: A ROBUST ALDEHYDE-BASED SCORE FOR HAZELNUT OXIDATION MONITORING**
Sara Tanilli¹, Andrea Caratti¹, Giuseppe Genova², Alex Fissore², Cristina Casetta², Angelica Fina¹, Fulvia Trapani¹, Erica Liberto¹, Chiara Cordero¹
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- N.10 THE ROLE OF UNKNOWN KEY ODORANTS IN ENHANCING ORANGE PRODUCT QUALITY: ISOLATION AND CHARACTERIZATION OF AROMA COMPOUNDS FROM ORANGE PROCESSING BYPRODUCTS**
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- N.11 GC-MS CHEMICAL PROFILING OF THE VOLATILE FRACTION OF HERBAL PLANT EXTRACTS FROM JORDAN AND EGYPT: ENVIRONMENTAL INFLUENCES ON COMPOSITION**
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- N.12 COMPREHENSIVE STUDY OF GRAPE VOLATILES**
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- N.13 VOLATILE PROFILING OF PORTUGUESE MINORITY RED GRAPE CULTIVARS BY GC×GC-TOFMS**
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- N.14 QUANTITATION OF QUINOLIZIDINE ALKALOIDS IN LUPINUS SPP. BY GC METHODS**
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- N.15 GC EVALUATION OF NATURALLY OCCURRING TRITERPENIC SAPOGENINS AND THEIR ARTEFACTS IN TRIFOLIUM SSP.**
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- N.16 PLASTICIZERS IN OLIVE OIL: MONITORING ALONG THE PRODUCTION CHAIN AND DURING STORAGE**
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- N.17 A MULTI-ANALYTICAL GC APPROACH FOR THE IDENTIFICATION OF KEY ODORANTS AND THE CHARACTERIZATION OF AROMA CHANGES DURING POSTHARVEST RIPENING IN GREENHOUSE-GROWN MUSKMELON (CUCUMIS MELO L., CV. 'EARL'S FAVORITE')**
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- N.18 UNDER PRESSURE: CAP OR CORK? A HS/SPME-GC/MS APPROACH TO EVALUATE 10 YEARS OF AROMA EVOLUTION IN SPARKLING WINES**
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- N.19 MONITORING OF SELECTED POTENTIALLY HARMFUL COMPOUNDS IN PROCESSED FOODS WITH ADDED FLAVOURINGS**
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- N.20 CHARACTERIZATION OF VOLATILE COMPOUNDS IN FERMENTED SAUSAGES USING GC×GC- HRMS AND MULTIVARIATE ANALYSIS**
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- N.21 A NOVEL INSIGHT INTO VOLATILE AND POLYPHENOLIC COMPOSITION OF ITALIAN-GROWN ROSA DAMASCENA MILL.**
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- N.22 ROBUST, FAST AND RELIABLE QUALITATIVE AND QUANTITATIVE ANALYSIS OF MINERAL OILS BY GCXGC-TOFMS/FID**
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- N.23 USE OF HYDROGEN AS CARRIER GAS IN COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY WITH FLOW-MODULATION AND DUAL-DETECTION FOR PERFUME FORMULATION**
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- N.24 HYDROPHOBIC DEEP EUTECTIC SOLVENT-BASED MICROEXTRACTION FOR THE SIMULTANEOUS RECOVERY OF VOLATILE AND NON-VOLATILE METABOLITES FROM CITRUS PRUNING RESIDUES**
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- N.25 BEYOND FIRST IMPRESSIONS: TRACKING AROMA PROFILES OVER TIME IN FOOD AND FRAGRANCE APPLICATIONS**
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- N.26 DECODING THE MEAD BOUQUET: MICROBIAL DYNAMICS AND VOLATILOMIC EVOLUTION IN SPONTANEOUS VS. INOCULATED FERMENTATION**
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- N.27 ACCURATE QUANTIFICATION OF CITRUS ESSENTIAL OIL CONSTITUENTS: A COMPARISON OF GAS CHROMATOGRAPHIC APPROACHES**
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- N.28 QSRR-ASSISTED CROSS-SYSTEM RETENTION TRANSFER OF OXYGEN HETEROCYCLIC COMPOUNDS FROM A LITERATURE HPLC METHOD TO A UHPLC PLATFORM**
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- N.29 COMPOSITION AND ANTIMICROBIAL PROPERTIES OF COASTAL TEA TREE ESSENTIAL OIL**
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- N.30 OPTIMIZATION OF SPME FOR VOLATILE PROFILING OF ACACIA CONFUSA AND PICEA ABIES FOR STUDYING ENDOPHYTE-ASSOCIATED RESISTANCE**
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- N.31 HIGH-RESOLUTION MASS SPECTROMETRIC PROFILING OF BIOACTIVE MOLECULES IN AROMATIC PLANTS AND HERBS**
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- N.32 SUSTAINABLE LIPIDOMIC PROFILING OF TRIACYLGLYCEROLS BY SFC-PDA: FROM SEED OIL CHARACTERIZATION TO OLIVE OIL AUTHENTICITY**
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- N.33 ALTERNATIVE GREEN SOLVENTS FOR RP-HPLC-PDA-MS ANALYSIS OF POLYPHENOLS IN NATURAL PRODUCTS**
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- N.34 DOE OPTIMIZATION OF PHENOLIC COMPOUND IONIZATION IN GREENER RP-HPLC-ESI-MS WITH DMC/ETOH ORGANIC PHASE**
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- N.35 BRAZILIAN EXTRA VIRGIN OLIVE OILS: APPLYING THE FATTY ACID PROFILE TO DISCRIMINATE BY GEOGRAPHIC ORIGIN**
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- N.36 PHENOLIC PROFILE IN BRAZILIAN EXTRA VIRGIN OLIVE OILS FROM ARBEQUINA AND KORONEIKI CULTIVARS**
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- N.37 UNDERSTANDING AROMA COMPLEXITY IN PETFOOD USING ORIGINAL GC-INNOCENT FOR CHROMATOGRAPHIC RECOMPOSITION AND ODORANT OMISSION STRATEGIES**
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- N.38 IMPROVED MICROWAVE-ASSISTED SAPONIFICATION FOR RELIABLE MOSH AND MOAH DETERMINATION IN EDIBLE FATS AND OILS**
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- N.39 VOLATILE ORGANIC COMPOUNDS PROFILE AS A POSSIBLE MARKER TO IDENTIFY HONEY FROM STINGLESS BEES OF DIVERSE SPECIES**
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- N.40 DEVELOPMENT AND VALIDATION OF AN ULTRASOUND-ASSISTED EXTRACTION METHOD (UAE) USING NATURAL DEEP EUTECTIC SOLVENTS FOR THE DETERMINATION OF PHENOLIC COMPOUNDS IN MOUNTAIN TEA PRIOR TO LC-MS/MS ANALYSIS**
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- N.41 VOLATILE COMPOUND PROFILING OF CHILI PEPPER (CAPSICUM SPP.) PULP, SEEDS, AND PLACENTA BY HS-SPME-GC ANALYSIS**
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- N.42 UNTARGETED AND TARGETED METABOLOMIC APPROACHES TO INVESTIGATE THE INFLUENCE OF SELENIUM-ENRICHMENT ON THE BIOSYNTHESIS OF HEALTH PROMOTING SECONDARY METABOLITES OF EDIBLE PLANTS.**
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- N.43 VALORIZATION OF INDUSTRIAL HEMP (CANNABIS SATIVA L.) INFLORESCENCES AS A CIRCULAR ECONOMY RESOURCE: CHEMICAL PROFILING AND ANTIMICROBIAL ACTIVITY OF ESSENTIAL OILS**
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- N.44 SUPRAMOLECULAR DEEP EUTECTIC SOLVENTS FOR THE SUSTAINABLE EXTRACTION OF PHENOLIC COMPOUNDS FROM OLIVE POMACE FOLLOWED BY HPLC-MS ANALYSIS**
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- N.45 UHPLC-MS/MS ANALYSIS OF ANTHOCYANINS AND PHENOLIC COMPOUNDS IN FRACTIONATED PIGMENTED WHEAT**
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- N.46 ANALYTE-DEPENDENT OPTIMIZATION OF VAC-SPME-GC-MS**
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- N.47 EVALUATING SEPARATION AND IDENTIFICATION STRATEGIES FOR PHENOLIC COMPOUNDS IN COMPREHENSIVE LC × LC**
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- N.48 LC-ESI-HRMS AS AN ANALYTICAL STRATEGY TO ASSESS THE OCCURRENCE OF POTENTIALLY TOXIC CYANOGENIC GLYCOSIDES IN EDIBLE MICROGREENS**
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O. SUPERCRITICAL FLUID CHROMATOGRAPHY AND EXTRACTION

O.01 FAST LOW-PRESSURE GC-QQQMS FOR MULTI-RESIDUE ANALYSIS OF PESTICIDES IN FOOD

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O.02 CUTTING-EDGE EXTRACTION METHODOLOGY USING SUPERCRITICAL FLUIDS FOR THE RECOVERY OF BIOACTIVE MOLECULES FROM CITRUS PRUNING RESIDUES

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O.03 DEVELOPMENT OF A MULTI-CLASS SUPERCRITICAL FLUID EXTRACTION METHOD FOR BIOACTIVE COMPOUNDS FROM OLIVE PRUNING WASTES

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O.04 NEW STRATEGY FOR QUANTIFYING OLEFINS IN MIDDLE DISTILLATES USING THE SFC-FID METHOD

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O.05 HIGH-THROUGHPUT SCREENING OF PHOTOTOXIC OHCS IN CITRUS ESSENTIAL OILS USING ECO-FRIENDLY SUPERCRITICAL FLUID CHROMATOGRAPHY

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