

ISCC 2017 PRELIMINARY SCHEDULE

Tuesday, May 16th - Crystal Ballroom A

CRYSTAL BALLROOM A

8:30AM	9:45AM	75min	Awards Sessions (Crystal D)	CRYSTAL D
9:45AM	10:30AM	45min	Coffee Break	CRYSTAL B/C
10:30AM	12:00PM	90 min	Plenary Session 1 (Crystal D)	CRYSTAL D
12:00PM	1:30PM	90 min	SepSolve Vendor Seminar & Lunch	CRYSTAL A
1:30PM	3:00PM	90 min	GCxGC Session 6:	CRYSTAL A
3:00PM	3:40PM	40 min	Coffee Break	CRYSTAL B/C
3:40PM	5:20PM	100 min	GCxGC Session 7:	CRYSTAL A

Tuesday, May 16th - Crystal Ballroom D

CRYSTAL BALLROOM D

Awards Session

8:30AM	8:45AM	15 min	ISCC & General Welcome & Introductory Remarks	D.W. Armstrong
8:45AM	8:55AM	5 min	Golay Award to L. Mondello	Presented by A. Tipler
8:55AM	9:10AM	15 min	Golay Award to L. Mondello	M. Novotny
9:10AM	9:50AM	40 min	Golay Award Lecture From two- to five-dimensional separation techniques: a personal journey towards the ultimacy of chromatography and hyphenated detection	L. Mondello
9:45AM	10:30AM	45 min	Coffee Break	CRYSTAL B/C

Plenary Session 1

10:30AM	11:30AM	60 min	Plenary Lecture I	Using Mass Spectrometry for Chemical Analysis, Drop by Drop	R.N. Zare
11:30AM	12:00PM	30 min	ISCC & GCxGC Keynote Lecture Joint Session	Understanding and Extending the Effective Peak Capacity in GC – TOFMS	R.E. Synovec
12:00PM	1:30PM	90 min	Shimadzu Vendor Seminar & Lunch		CRYSTAL D

Session 1 Microanalysis I (Session Chairman J. Anderson)

1:30PM	2:00PM	30 min	Lecture 1 (Keynote)	Microfabricated GC-HPMS	J.M. Ramsey
2:00PM	2:20PM	20 min	Lecture 2 (Keynote)	Integrated Microfluidic Systems for the Analysis of a Panel of Preterm Birth Biomarkers	A.T. Woolley
2:20PM	2:40PM	20 min	Lecture 3	Chromatographic Resolution of Complex Glycan Isomeric Mixtures and Their Mass Spectrometric Characterization	M. Novotny
2:40PM	3:00PM	20 min	Lecture 4	Novel high-throughput screening consumables that leverage existing laboratory tools	V. Remcho
3:00PM	3:40PM	40 min	Coffee Break		CRYSTAL B/C

Session 2 Theory & Applications of Ion Separations (Session Chairman H. Cortes)

3:40PM	3:50PM	10 min	Giorgia Nota Award Presentation to P.K. Dasgupta		Presented by H. Cortes
3:50PM	4:20PM	30 min	Giorgia Nota Award Lecture 5 (Keynote)	Open Tubular Ion Chromatography. Two Decades of Pursuit: Quo Vadis Domine?	P.K. Dasgupta
4:20PM	4:40PM	20 min	Lecture 6	Application of Dual Capillary Electrolytic Eluent Generation to the Separation of Glycans in Capillary Mode Using High pH Anion Exchange	C. Pohl
4:40PM	5:00PM	20 min	Lecture 7	Fast Switching Ion Mobility Spectrometer for Simultaneous PPTV-Level Detection of Proton and Electron Affine Compounds in Gas Chromatography	A.S. Kirk
5:00PM	5:20PM	20 min	Lecture 8	Analysis of Trace Ions by Matrix Elimination Ion Chromatography and Suppressed Conductivity Detection	K. Srinivasan

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Wednesday, May 17th - Crystal Ballroom A

CRYSTAL BALLROOM A

8:40AM	9:40AM	60 min	Plenary Lecture II: P. Sandra	CRYSTAL D
9:40AM	10:10AM	30 min	ISCC & GCxGC Keynote Lecture Joint Session: M.L. Lee	CRYSTAL B/C
10:10AM	10:40AM	30 min	Coffee Break	CRYSTAL B/C
10:40AM	12:10PM	90 min	GCxGC Session 8: Health/Metabolomics II	CRYSTAL A
12:10PM	1:40PM	90 min	VUV Vendor Seminar & Lunch	
1:40PM	3:10PM	90 min	ISCC Poster Session (Odd Number Posters)	CRYSTAL B/C
3:10PM	3:40PM	30 min	Coffee Break	CRYSTAL B/C
3:40PM	5:10PM	90 min	GCxGC Session 9: Environmental/Forensics	CRYSTAL A

Wednesday, May 17th - Crystal Ballroom D

CRYSTAL BALLROOM D

Plenary Session 2 (Session Chairman N. Dovichi)

8:40AM	9:40AM	60 min	Plenary Lecture II	Characterizing pharmaceuticals: new opportunities using on-line two-dimensional liquid chromatography	P. Sandra
9:40AM	10:10AM	30 min	ISCC & GCxGC Keynote Lecture Joint Session	Instrumentation for Compact Microchip Thermal Gradient GC	M.L. Lee
10:10AM	10:40AM	30 min	Coffee Break		CRYSTAL B/C

Session 3 LC/LC-MS (Session Chairman M. Worth)

10:40AM	11:10AM	30 min	Lecture 10 (Keynote)	Recycling Chromatography Process to Unlock Challenging Separation Problems	F. Gritti
11:10AM	11:30AM	20 min	Lecture 11	A sub-picoliter pipettor for living-single-cell surgery	A.Chen
11:30AM	11:50AM	20 min	Lecture 12	Characterization of Isomeric Glycans and Glycopeptides by LC-MS/MS	Y. Mechref
11:50AM	12:10PM	20 min	Lecture 13	LC/MS metabolomics in diagnosing and treatment of rare diseases	D. Friedecky
12:10PM	1:40PM	90 min	Millipore Sigma Vendor Seminar & Lunch		CRYSTAL D
1:40PM	3:10PM	90 min	ISCC Poster Session (Odd Number Posters)		CRYSTAL B/C
3:10PM	3:40PM	30 min	Coffee Break		CRYSTAL B/C

Session 4 Capillary Electrophoresis (Session Chairman J. Jorgenson)

3:40PM	4:10PM	30 min	Lecture 14 (Keynote)	Capillary zone electrophoresis as a tool for ultrasensitive bottom-up proteomics	N.J. Dovichi
4:10PM	4:30PM	20 min	Lecture 15	Novel precursor monoliths for post functionalization with the desired interactive chromatographic ligands for liquid phase separations	Z. El Rassi
4:30PM	4:50PM	20 min	Lecture 16	Separation of chiral compounds by using CEC and nano-LC	S. Fanali
4:50PM	5:10PM	20 min	Lecture 17	Photo-induced thiol-ene polymerization of ionic liquids-functionalized polyhedral oligomeric silsesquioxanes hybrid monolithic column for capillary electrochromatography	X. Wu

ISCC 2017 PRELIMINARY SCHEDULE

Thursday, May 18th - Crystal Ballroom A

CRYSTAL BALLROOM A

Session 5 Sample Prep (Session Chairman S. Fanali)

8:30AM	9:00AM	30 min	Lecture 18 (Keynote)	Surfactant Mediated Extraction as a Means of Synthetic and Sample Preparation and Preconcentration	W.L. Hinze
9:00AM	9:20AM	20 min	Lecture 19	Surfactant-Free Coacervation of Natural Cell Membranes for Facile, Selective Extraction, and Enrichment of Integral Membrane Proteins in Proteomics	M. Khaledi
9:20AM	9:40AM	20 min	Lecture 20	Presence of bisphenols in microplastic: dispersive liquid-liquid microextraction followed by gas chromatography-mass spectrometry analysis	S.C. Cunha
9:40AM	10:00AM	20 min	Lecture 21	Microwave-assisted in situ solvent covalent bonding approach to fabricate Metal-organic framework ZIF-90 solid-phase microextraction fibers coating for determination of pesticide residues in vegetables	L. Zhang
10:00AM	10:20AM	20 min	Lecture 22	Ion-tagged Oligonucleotides Coupled with a Magnetic Liquid Support for Sequence-specific Nucleic Acid Extraction	K.D. Clark
10:20AM	10:50AM	30 min	Coffee Break		CRYSTAL B/C

Session 7 Microanalysis II (Session Chairman M. Lee)

10:50AM	11:20AM	30 min	Lecture 28 (Keynote)	Exploiting Potential of Narrow Capillary for Biomolecule Separation	S. Liu
11:20AM	11:50AM	30 min	Lecture 29 (Keynote)	Microchip Electrophoresis for Protein-Protein Interactions and Western Blotting	R.T. Kennedy
11:50AM	12:10PM	20 min	Lecture 30	Microchip Capillary Electrophoresis-Negative Electrospray Ionization-Mass Spectrometry for the Characterization of Anions	J. Godhino
12:10PM	12:30PM	20 min	Lecture 31	Simultaneous enumeration of multiple periodontal pathogens by multi-PCR and quantitative capillary electrophoresis	C. Liu

12:30PM 2:00PM 90 min Restek Vendor Seminar & Lunch

2:00PM 3:30PM 90 min ISCC Poster Session (Even Number Posters)

CRYSTAL B/C

3:30PM 4:00PM 30 min Coffee Break

CRYSTAL B/C

Session 9: Multidimensional LC & LC-GC (Session Chairman V. Remcho)

4:00PM	4:30PM	30 min	Lecture 36 (Keynote)	Novel strategies in comprehensive two-dimensional liquid chromatography for food analysis	P. Dugo
4:30PM	4:50PM	20 min	Lecture 37	Moving into the Mainstream – Recent Advances in Two-Dimensional Liquid Chromatography for the Pragmatist	D.R. Stoll
4:50PM	5:10PM	20 min	Lecture 38	Hyphenated LC-GC and Comprehensive LCxGC with VUV Detection for the Analysis of Aromatic Hydrocarbons in Consumer Products	H-G Janssen
5:10PM	5:30PM	20 min	Lecture 39	Comprehensive Characterization of Synthetic Polymers for Molecular-Weight Distribution, Chemical-Composition Distribution and Functionality-Type Distribution using High Performance Multi-dimensional Separations	P. Yang

ISCC 2017 PRELIMINARY SCHEDULE

Thursday, May 18th - Crystal Ballroom D

CRYSTAL BALLROOM D

Session 6 Gas Chromatography Detectors (Session Chairman F. Gritti)

8:30AM	9:00AM	30 min	Lecture 23 (Keynote)	Discriminating Isomers and Isotopologues using Gas Chromatography – Vacuum Ultraviolet Spectroscopy	K.A. Schug
9:00AM	9:20AM	20 min	Lecture 24	Accurate Mass Discovery Metabolomics Enabled by Orbitrap GC-MS	J.D. Russell
9:20AM	9:40AM	20 min	Lecture 25	A Unified Analytical Approach for Total and Speciated Sulfur Compound Analysis with Microfluidic Enabled Chromatography and Sulfur Chemiluminescence Detection	J. Luong
9:40AM	10:00AM	20 min	Lecture 26	Comprehensive Detection & Confirmation of Explosive Residues in Soil Using a High Performance Benchtop GC-TOFMS	D.E. Alonso
10:00AM	10:20AM	20 min	Lecture 27	Impact of Two Recent Gas Chromatographic Detector Advancements (Polyarc® and Vacuum UV) on Industrial Troubleshooting and Finished Product Applications	W.C. Siegler

10:20AM 10:50AM 30 min Coffee Break

CRYSTAL B/C

Session 8 Ionic Liquids (Session Chairman L. Sidisky)

10:50AM	11:20AM	30 min	Lecture 32 (Keynote)	Magnetic Ionic Liquids as Extraction and Preservation Solvents for Nucleic Acid Sample Preparation	J.L. Anderson,
11:20AM	11:50AM	30 min	Lecture 33 (Keynote)	The Continuing Story of the Unique Selectivity of Ionic Liquid GC Stationary Phases	L.M. Sidisky
11:50AM	12:10PM	20 min	Lecture 34	Molecular insight into separation mechanisms, interaction sites and free energy calculation of alcohols on imidazolium-based ionic liquid stationary phase in gas chromatography	Y. Nolvachai
12:10PM	12:30PM	20 min	Lecture 35	Towards a rapid non-invasive detection method for viral and bacterial respiratory infections using GCxGC TOF MS	G. Purcaro

12:30PM 2:00PM 90 min Agilent Technologies Vendor Lunch & Seminar

2:00PM 3:30PM 90 min ISCC Poster Session (Even Number Posters)

CRYSTAL B/C

3:30PM 4:00PM 30 min Coffee Break

CRYSTAL B/C

Session 10 Bioanalytical Separations (Session Chairman K. Schug)

4:00PM	4:30PM	30 min	Lecture 40 (Keynote)	LCMS of intact proteins using sub-1 mm particles	M.J. Wirth
4:30PM	4:50PM	20 min	Lecture 41	Glycomic and Proteomic Studies of Human Urinary Exosomes	S. Gaunitz
4:50PM	5:10PM	20 min	Lecture 42	D-Amino Acids in Brain, Blood, & Cancer Cells	C.R. Weatherly
5:10PM	5:30PM	20 min	Lecture 43	Simulation of the electrophoretic peaks by single DNA imaging during sieving molecular capillary electrophoresis	Y. Yamaguchi

Thursday, May 18th - Texas Meeting Room A

TEXAS MEETING ROOM A

Session 11 Young Investigators (Session Chairman D. Stoll)

10:50AM	11:10AM	20 min	Lecture 44	Enhanced Isotopic Ratio Evaluation of Valuable Food Products Exploiting an MDGC-C-IRMS/qMS System	D. Sciarone
11:10AM	11:30AM	20 min	Lecture 45	New Quantitative Techniques and Capabilities in Gas Chromatography with Novel Detection Hardware	D.D. Carlton
11:30AM	11:50AM	20 min	Lecture 46	On-line liquid-liquid-gas chromatography with dual detection for the determination of mineral oil saturated and aromatic hydrocarbons in vegetable oil	M. Zoccali
11:50AM	12:10PM	20 min	Lecture 47	Automated Programmable Preparation of Volatile Eluents in Ion/Liquid Chromatography	P. Shealor
12:10PM	12:30PM	20 min	Lecture 48	The effect of column geometry and carrier gas flow on a thermodynamics-based model for peak width prediction in GC	K. Stevenson

ISCC 2017 PRELIMINARY SCHEDULE

Friday, May 19th - Crystal Ballroom A

CRYSTAL BALLROOM A

Session 12 GC Detection & Applications (Session Chairman J. Luong)

8:30AM	8:50AM	20 min	Lecture 49	Analysis of Trace Water in Petroleum Products by GC	R. Takechi
8:50AM	9:10AM	20 min	Lecture 50	Diode Array Detection with a High Temperature Cell Assembly for Gas Chromatography	R. Gras
9:10AM	9:30AM	20 min	Lecture 51	Investigation of Extracted and Leached Analytes from Packaging Materials with GC-TOFMS	E.M. Humston-Fulmer
9:30AM	9:50AM	20 min	Lecture 52	Simultaneous Determination of UV-filters and Musks in Mussels by Gas Chromatography-Mass Spectrometry	J.O. Fernandez
9:50AM	10:10AM	20 min	Lecture 53	Product Control using Differential GC/MS: a new highly Sensitive Method to Detect and Identify Differential Components	M.A. Ruijken
10:10AM	10:40AM	30 min	Coffee Break		CRYSTAL D
10:40AM	11:45AM	75 min	Plenary Session 3 & Closing		CRYSTAL D

Friday, May 19th - Crystal Ballroom D

CRYSTAL BALLROOM D

Session 13 Stationary Phases (Session Chairman A. Berthod)

8:30AM	9:00AM	30 min	Lecture 54 (Keynote)	Capillary LC with sub-2 micron Particles: Effects of Column Packing Conditions on Column Morphology and Efficiency	J. Jorgensen
9:00AM	9:20AM	20 min	Lecture 55	Effect of Type of Polymer-based Monolithic Column on the Separations in Liquid Chromatography	F. Svec
9:20AM	9:40AM	20 min	Lecture 56	Stationary Phases & Column Geometries for Ultrafast Separation	F.M. Wahab
9:40AM	10:00AM	20 min	Lecture 57	A pH Tunable Water Stationary Phase for Supercritical Fluid and Gas Chromatography	K.B. Thurbide
10:10AM	10:40AM	30 min	Coffee Break		CRYSTAL D

Plenary Session 3

10:40AM	11:40AM	35 min	Plenary III		R.D. Smith
11:40AM	11:50AM	10 min	Leslie S. Etre Award Presentation		Presented by A. Tipler
11:50AM	12:20PM	30 min	Invitation to ISCC & GCxGC 2018		L. Mondello
12:20PM	12:50PM	30 min	Poster Awards & Closing Remarks		D.W. Armstrong