

PROGRAM OVERVIEW

SATURDAY

9:00 AM - 4:30 PM	SHORT COURSES
2:00 - 5:00 PM	REGISTRATION

SUNDAY

9:00 AM - 4:30 PM	SHORT COURSES
10:00 AM - 8:00 PM	REGISTRATION
5:00 - 6:30 PM	<p>TUTORIAL LECTURES, Wells Fargo Theatre</p> <div style="display: flex; align-items: flex-start;"> <div style="width: 100px; text-align: center;">  </div> <div style="padding-left: 10px;"> <p>5:00 - 5:45 pm <i>Good Mass Spectrometry and its Place in Good Science: Sometimes Close Enough Is Really Not Good Enough</i> Mark W. Duncan <i>University of Colorado Denver, Anschutz Medical Campus</i></p> </div> </div> <div style="display: flex; align-items: flex-start;"> <div style="width: 100px; text-align: center;">  </div> <div style="padding-left: 10px;"> <p>5:45 - 6:30 pm <i>LC and MS: A Match Made in Heaven</i> James Jorgenson <i>University of North Carolina</i></p> </div> </div>
6:45 - 7:45 PM	<p>OPENING, Wells Fargo Theatre Susan T. Weintraub, ASMS Vice President for Programs</p> <p>PLENARY LECTURE</p> <div style="display: flex; align-items: flex-start;"> <div style="width: 100px; text-align: center;">  </div> <div style="padding-left: 10px;"> <p>7:00 - 7:45 pm <i>Our Stellar Origins Revealed by Stardust Grains</i> Ernst Zinner <i>Washington University</i></p> </div> </div>
7:45 - 9:30 PM	RECEPTION IN THE POSTER-EXHIBIT HALL , Exhibit Hall C-D

PROGRAM OVERVIEW

MONDAY

7:00 AM - 5:00 PM	REGISTRATION
8:30 - 10:30 AM	<p>ORAL SESSIONS</p> <ul style="list-style-type: none"> • MOA am: Systems Biology/Cellular Pathways, <i>Wells Fargo Theatre</i> • MOB am: H/D Exchange: New Developments in Hardware, Software and Methodology, <i>Room 501</i> • MOC am: Fundamentals of Peptide Fragmentation: Electron-, Photon- and Collision-based Processes, <i>Room 401</i> • MOD am: Imaging MS: Instrumentation and Ionization Sources, <i>Korbel Ballroom 1-2</i> • MOE am: Energy, Petroleum and Biofuels, <i>Korbel Ballroom 3-4</i> • MOF am: Integrated Qualitative and Quantitative LC-MS for Drug Metabolism and Pharmacokinetics, <i>Four Seasons Ballroom 1-2</i> • MOG am: Protein Therapeutics in Drug Discovery and Development: LC-MS Quantification, <i>Four Seasons Ballroom 3-4</i>
10:30 AM - 2:30 PM	<p>POSTER SESSION AND EXHIBITS, <i>Exhibit Hall C-D</i></p> <p>Monday posters begin on page 52.</p>
2:30 - 4:30 PM	<p>ORAL SESSIONS</p> <ul style="list-style-type: none"> • MOA pm: Post-translational Modifications, <i>Wells Fargo Theatre</i> • MOB pm: H/D Exchange for Protein Structure and Function, <i>Room 501</i> • MOC pm: Fundamentals: Ion Spectroscopy, <i>Room 401</i> • MOD pm: Imaging MS: Biological Applications, <i>Korbel Ballroom 1-2</i> • MOE pm: Plant Proteomics, <i>Korbel Ballroom 3-4</i> • MOF pm: High Resolution MS in Drug Metabolism and Pharmacokinetics, <i>Four Seasons 1-2</i> • MOG pm: Biomarker Quantification: Challenges in Regulated Bioanalysis: LC-MS Quantification, <i>Four Seasons Ballroom 3-4</i>
4:45 - 5:30 PM	<p>AWARD LECTURE, <i>Wells Fargo Theatre</i></p> <p>Award for a Distinguished Contribution in Mass Spectrometry <i>Wells Fargo Theatre</i></p>  <p>Robert J. Cotter <i>Johns Hopkins University</i></p>
5:45 - 7:00 PM	<p>WORKSHOPS <i>See page 20.</i> There are light refreshments outside Korbel Ballroom.</p> <ol style="list-style-type: none"> 1. Fundamentals, <i>Room 501</i> 2. Challenges in Polymer Mass Spectrometry, <i>Room 505</i> 3. The Energy Landscape: Alternatives, Economics, and Analytical Problems in Energy, Petroleum, and Biofuels, <i>Room 401</i> 4. Creating a Parts/Knowledge Resource for Older Instruments, <i>Room 405</i> 5. Applied Topics in FTMS, <i>Korbel Ballroom 1-2</i> 6. Computational Methods for the Interpretation of Ion Mobility-Mass Spectrometry Data, <i>Korbel Ballroom 3-4</i> 7. Simultaneous Qual/Quan Workflows: What Are the Optimal Technologies, Methods, Applications and Real-World Productivity Enhancements? <i>Four Seasons Ballroom 1-2</i> 8. Practical ETD, <i>Four Seasons Ballroom 3-4</i> 9. New Methods for Analysis of Foods, Flavors and Fragrances, <i>Room 607</i>
7:00 - 8:00 PM	DINNER BREAK
AFTER 8:00 PM	CORPORATE HOSPITALITY SUITES, <i>Hyatt Regency Hotel</i>

PROGRAM OVERVIEW

TUESDAY

7:00 AM - 5:00 PM	REGISTRATION
8:30 - 10:30 AM	<p>ORAL SESSIONS</p> <ul style="list-style-type: none"> • TOA am: Quantitative Proteomics: Peptides, <i>Wells Fargo Theatre</i> • TOB am: Unknown Environmental Contaminants: Advanced Mass Spectrometry Technologies, <i>Room 501</i> • TOC am: Metabolomics, <i>Room 401</i> • TOD am: Biomolecular Structure Analysis by Covalent Labeling: Future Directions, <i>Korbel Ballroom 1-2</i> • TOE am: Fundamentals: Supramolecular Chemistry/Non-covalent Interactions, <i>Korbel Ballroom 3-4</i> • TOF am: Mass Spectrometry Analysis of Dried Blood Spot Samples, <i>Four Seasons Ballroom 1-2</i> • TOG am: Clinical Chemistry: Advances in Separation Technologies, <i>Four Seasons Ballroom 3-4</i>
10:30 AM - 2:30 PM	<p>POSTER SESSION AND EXHIBITS, <i>Exhibit Hall C-D</i> Tuesday posters begin on page 87.</p>
2:30 - 4:30 PM	<p>ORAL SESSIONS</p> <ul style="list-style-type: none"> • TOA pm: Informatics: Quantification/Validation, <i>Wells Fargo Theatre</i> • TOB pm: Environmental Chemistry and Health, <i>Room 501</i> • TOC pm: Lipids I: Identification and Structural Analysis, <i>Room 401</i> • TOD pm: Protein-Ligand Interactions: Characterization by Mass Spectrometry, <i>Korbel Ballroom 1-2</i> • TOE pm: Ion Traps and Hybrid Instruments: New Developments, <i>Korbel Ballroom 3-4</i> • TOF pm: Imaging MS: Pharmaceutical Applications, <i>Four Seasons Ballroom 1-2</i> • TOG pm: Advances in Micro- and Nano-scale Separations, <i>Four Seasons Ballroom 3-4</i>
4:45 - 5:30 PM	<p>AWARD LECTURE, <i>Wells Fargo Theatre</i></p> <div style="display: flex; align-items: flex-start;">  <div> <p>Biemann Medal <i>Wells Fargo Theatre</i></p> <p>Béla Paizs <i>German Cancer Research Center</i></p> </div> </div>
5:45 - 7:00 PM	<p>WORKSHOPS <i>See page 21.</i> There are light refreshments outside Korbel Ballroom.</p> <ol style="list-style-type: none"> 1. Hydrogen Exchange and Covalent Labeling, <i>Room 501</i> 2. Advances in Mass Spectrometry Driving Drug and Target Identification Efforts, <i>Room 505</i> 3. Trans-Proteomic Pipeline and Related Open-source Proteomics Resources, <i>Room 401</i> 4. NIH Grant Opportunities and Mock Study Section, <i>Room 405</i> 5. Metabolomics Current Challenges & Future Directions, <i>Korbel Ballroom 1-2</i> 6. Clinical Protein and Peptide Analysis: When, Where and How? <i>Korbel Ballroom 3-4</i> 7. Upcoming Challenges and Developments in Regulated LC-MS Bioanalysis: Fit-for-Purpose; Emerging Technologies; Stability Issues, <i>Four Seasons Ballroom 1-2</i> 8. Is a Deeper Understanding of Peptide Fragmentation Chemistry Required to Improve MS/MS-based Protein Identification and Characterization Strategies? <i>Four Seasons Ballroom 3-4</i> 9. LC/MS Library/Libraries for Advancing Environmental Chemistry and Health Sciences, <i>Room 607</i>
7:00 - 8:00 PM	DINNER BREAK
AFTER 8:00 PM	CORPORATE HOSPITALITY SUITES , <i>Hyatt Regency Hotel</i>

PROGRAM OVERVIEW

WEDNESDAY

7:00 AM - 5:00 PM	REGISTRATION
8:30 - 10:30 AM	<p>ORAL SESSIONS</p> <ul style="list-style-type: none"> • WOA am: Intact Proteins: Quantitative and Qualitative Analysis, <i>Wells Fargo Theatre</i> • WOB am: Ion Mobility Separations: Fundamentals and Instrumentation, <i>Room 501</i> • WOC am: Lipids II: Profiling and Quantitation, <i>Room 401</i> • WOD am: Glycoproteins: New Approaches for Structure Analysis, <i>Korbel Ballroom 1-2</i> • WOE am: Instrumentation: New Developments in Ionization, <i>Korbel Ballroom 3-4</i> • WOF am: PK Assays: Novel Approaches to Increase LC-MS Throughput, <i>Four Seasons Ballroom 1-2</i> • WOG am: Protein Therapeutics: Structural Characterization, <i>Four Seasons Ballroom 3-4</i>
10:30 AM - 2:30 PM	<p>POSTER SESSION AND EXHIBITS, Exhibit Hall C-D Wednesday posters begin on page 122.</p>
2:30 - 4:30 PM	<p>ORAL SESSIONS</p> <ul style="list-style-type: none"> • WOA pm: Phosphoproteomics, <i>Wells Fargo Theatre</i> • WOB pm: Ion Mobility Mass Spectrometry: Integration into Structural Biology, <i>Room 501</i> • WOC pm: Fundamentals: Ion-Surface Interactions and Preparative MS, <i>Room 401</i> • WOD pm: Carbohydrates: New Approaches for Structure Analysis, <i>Korbel Ballroom 1-2</i> • WOE pm: Instrumentation: New Developments in Instrumentation, <i>Korbel Ballroom 3-4</i> • WOF pm: Informatics Tools for Pharmaceutical Applications of Mass Spectrometry, <i>Four Seasons Ballroom 1-2</i> • WOG pm: Reactive Metabolites: Novel LC-MS Detection Methods, <i>Four Seasons Ballroom 3-4</i>
4:45 - 5:30 PM	ASMS MEETING, Korbel 1-2
5:45 - 7:00 PM	<p>WORKSHOPS See page 22. There are light refreshments outside Korbel Ballroom.</p> <ol style="list-style-type: none"> 1. Towards Quantitative Imaging, <i>Room 501</i> 2. Nucleic Acids Sequencing: Fundamentals and New Directions, <i>Room 505</i> 3. Applications and Challenges in Forensics and Homeland Security related to Mass Spectrometry, <i>Room 401</i> 4. Quantitative Intact Proteomics (QIP), <i>Room 405</i> 5. Hot Topics in LC-MS Instrumentation Troubleshooting, <i>Korbel Ballroom 1-2</i> 6. Bonding Theory And Application: Algorithm Development and Implementation Licensing, <i>Korbel Ballroom 3-4</i> 7. Qualitative and Quantitative Techniques for Protein Therapeutics, <i>Four Seasons Ballroom 1-2</i> 8. Career Development in Mass Spectrometry Research, <i>Four Seasons Ballroom 3-4</i> 9. Interaction of Metal Ions and Clusters with Biomolecules, <i>Room 607</i> 10. Group Discussion to Generate Workshop Content to Stimulate Undergraduate Student Interest in Mass Spectrometry, <i>Room 711</i>
7:00 - 8:00 PM	DINNER BREAK
AFTER 8:00 PM	CORPORATE HOSPITALITY SUITES, Hyatt Regency Hotel

PROGRAM OVERVIEW

THURSDAY

7:00 AM - 5:00 PM	REGISTRATION
8:30 - 10:30 AM	<p>ORAL SESSIONS</p> <ul style="list-style-type: none"> • ThOA am: Informatics: Identification, <i>Wells Fargo Theatre</i> • ThOB am: Fundamentals: Ion Structure and Energetics, <i>Room 501</i> • ThOC am: Synthetic Polymers: New Methods for Analysis, <i>Room 401</i> • ThOD am: Membrane Proteins, <i>Korbel Ballroom 1-2</i> • ThOE am: High Mass Accuracy/High Performance Instrumentation and Applications, <i>Korbel 3-4</i> • ThOF am: Protein Therapeutics: Identification of Metabolites, Impurities and Degradants, <i>Four Seasons Ballroom 1-2</i> • ThOG am: Biomarker Analysis and Metabolomics in Drug Discovery, <i>Four Seasons Ballroom 3-4</i>
10:30 AM - 2:30 PM	<p>POSTER SESSION AND EXHIBITS, Exhibit Hall C-D Thursday posters begin on page 157.</p>
2:30 - 4:30 PM	<p>ORAL SESSIONS</p> <ul style="list-style-type: none"> • ThOA pm: Biomarkers/Disease Signatures, <i>Wells Fargo Theatre</i> • ThOB pm: Fundamentals: Ion/Molecule and Ion/Ion Interactions, <i>Room 501</i> • ThOC pm: Microorganisms: Identification and Characterization, <i>Room 401</i> • ThOD pm: Oligonucleotides: Structure and Reactivity, <i>Korbel Ballroom 1-2</i> • ThOE pm: Metal-Biomolecular Complexes: Structure and Reactions, <i>Korbel Ballroom 3-4</i> • ThOF pm: Biomarkers of Drug/Metabolite Toxicity: LC-MS Methods, <i>Four Seasons Ballroom 1-2</i> • ThOG pm: Ambient Desorption Ionization Techniques: New Developments and Applications, <i>Four Seasons 3-4</i>
4:45 - 5:30 PM	<p>PLENARY LECTURE, Wells Fargo Theatre</p> <div style="display: flex; align-items: center;">  <div> <p><i>Why Are We Surprised by Only Some of the Things that We See? Visual Illusions, the Brain, and Baseball</i> Arthur Shapiro <i>American University</i></p> </div> </div>
5:30 - 6:30 PM	CLOSING TOAST, Wells Fargo Lobby