

**The 47th ASMS
CONFERENCE**

on

**MASS SPECTROMETRY
and ALLIED TOPICS**



**Wyndham Anatole Hotel
Dallas, Texas
June 13 - 17, 1999**

THE 47th ASMS CONFERENCE ON MASS SPECTROMETRY and ALLIED TOPICS
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47th ASMS Conference on Mass Spectrometry and Allied Topics

Welcome to the 47th ASMS Conference on Mass Spectrometry and Allied Topics. All conference sessions are located in the Anatole Hotel. The conference program begins at 8:00 AM each day, Monday through Thursday.

REFRESHMENTS. Light refreshments and cash lunches will be available in the poster hall (Trinity Exhibit Hall). Exit the convention lobby near the Wedgewood Room and follow the covered walkway.

SUNDAY PROGRAM. The tutorial session is 5:00 PM, Sunday, in Grand Ballroom A/B/C. See page 11 for the program.

ORAL PRESENTATIONS. 35 mm slide projectors will be used for oral sessions. A projectionist will be present, but speakers should advance their own slides using the control on the podium. **Presenters must arrive 30 minutes prior to the start of the session** to turn in loaded slide trays. Presenters have been advised to use landscape orientation for slides. Overhead projectors are also available. Speakers who choose to use overhead projection must have someone available to change transparencies as the projector is located on the floor and the speaker podium is on the stage.

SLIDE PREVIEW ROOM. Slides may be previewed in the Opal Room (near the conference registration area). The room will be open 3 to 7 PM on Sunday and 7 AM to 5 PM Monday through Thursday. The room is equipped to load slides and to review their orientation and sequence.

POSTER PRESENTATIONS. Posters must be in place by 8:00 AM on the day scheduled and removed at 9:00 PM that day (Thursday posters must be removed by 6 PM). **REFER TO THE POSTER NUMBER IN THIS FINAL PROGRAM FOR BOARD ASSIGNMENTS.** Authors are expected to supply their own push pins to mount their posters.

POSTER ATTENDANCE.

- **ODD-NUMBERED POSTERS:** Authors must be present 8:45 - 10:15 AM on the day scheduled.
- **EVEN-NUMBERED POSTERS:** Authors must be present 1:30 - 3 PM on the day scheduled. All poster authors are encouraged to be present during the lunch break on the day of their posters.

WORKSHOPS. Workshops are scheduled as follows:

- **Monday Workshops, 5:30 - 7 PM, 8 - 9:30 PM**
- **Tuesday Workshops, 5:30 - 7 PM, 8 - 9:30 PM**

INTEREST GROUP MEETINGS. Interest Group meetings are scheduled during the lunch break, Monday through Thursday.

EMPLOYMENT CENTER. The employment center is located in the Ruby Room. Candidates may register with the center beginning at 3 PM on Sunday, June 13. You must have at least 20 copies of your résumé. The center will be open Monday through Wednesday, 8:00 AM to 5:30 PM, and Thursday 8:00 AM to noon. Employers should come to the Ruby Room to review a searchable database of candidates and schedule interviews. Interview booths are located in the Coral Room. The center is being coordinated by David A. Weil of 3M Company.

CONFERENCE PROCEEDINGS. The conference proceedings will be published on CD ROM after the conference. Manuscripts on diskette must be submitted by 12:30 PM on Tuesday. The submission office is located at the Atrium Registration counter.

CONFERENCE REGULATIONS.

- **Name badges** must be worn to all conference activities, including corporate hospitality suites.
- **NO SMOKING** is permitted in any conference area.
- **The placement of advertising** in the meeting area is strictly limited to Corporate Members. There are poster boards in the poster hall for corporate member notices. No signs on easels are permitted.
- No hardware, terminals, accessories, or any items for sale may be displayed in any area of the conference, except in corporate suites.
- There may be no organized activities (even off-site) other than those sponsored by ASMS during conference week.
- **No corporate or institutional logos** may appear on slides or posters in technical sessions.

CORPORATE HOSPITALITY SUITES. Corporate member hospitality suites are located on the conference and mezzanine levels. Please refer to page 7 for locations.

CORPORATE POSTERS. Corporate member posters are located in the poster hall (Trinity Exhibit Hall).

SPECIAL EVENTS FOR REGISTRANTS.

- **Sunday, June 13, 7:30 - 9:30 PM. Welcome Mixer, Chantilly Ballroom**
- **Wednesday, June 16, 6:30 - 9:30 PM. The Sixth Floor Museum, \$10 per person.** There is a continuous shuttle to and from the museum featuring "John F. Kennedy and the Memory of a Nation". Price includes transportation and museum entrance. Buses depart from the Clock Tower entrance.
- **Thursday, June 17, 5 - 6:30 PM. Chemistry of Wine and Wine Tasting, Chantilly East**
- **Thursday, June 17, 6:30 - 8:30 PM. Texas Barbecue (Conference Finale), \$10 per person, Anatole Park.** Join us to celebrate the end of a successful meeting and say good bye 'til next year.

COMPANION REGISTRATION. Companion registration is \$60 per person and includes the following:

- **Sunday, June 13, 7:30 - 9:30 PM. Welcome Mixer, Chantilly Ballroom**
- **Monday, June 14, 9:30 - 11:30 AM. Continental Breakfast** in the President's Suite, Room 2472 of the Anatole Towers.
- **Tuesday, June 15, 10:00 AM - 4:00 PM. Dallas Landmark Tour.** Guided motor coach tour of Dallas, including a visit to the Sixth Floor Museum housed in the School Book Depository. The tour includes lunch. Buses depart from the Clock Tower entrance.

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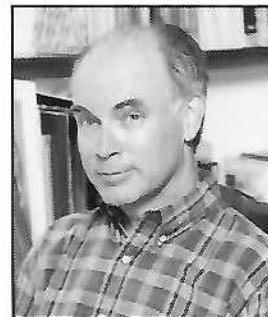
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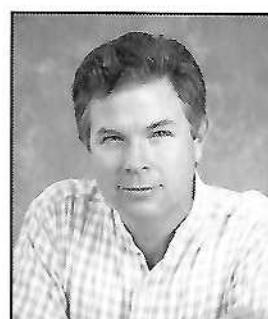
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Jennifer Watson

ASMS

announces the election of the following members to
the ASMS Board of Directors



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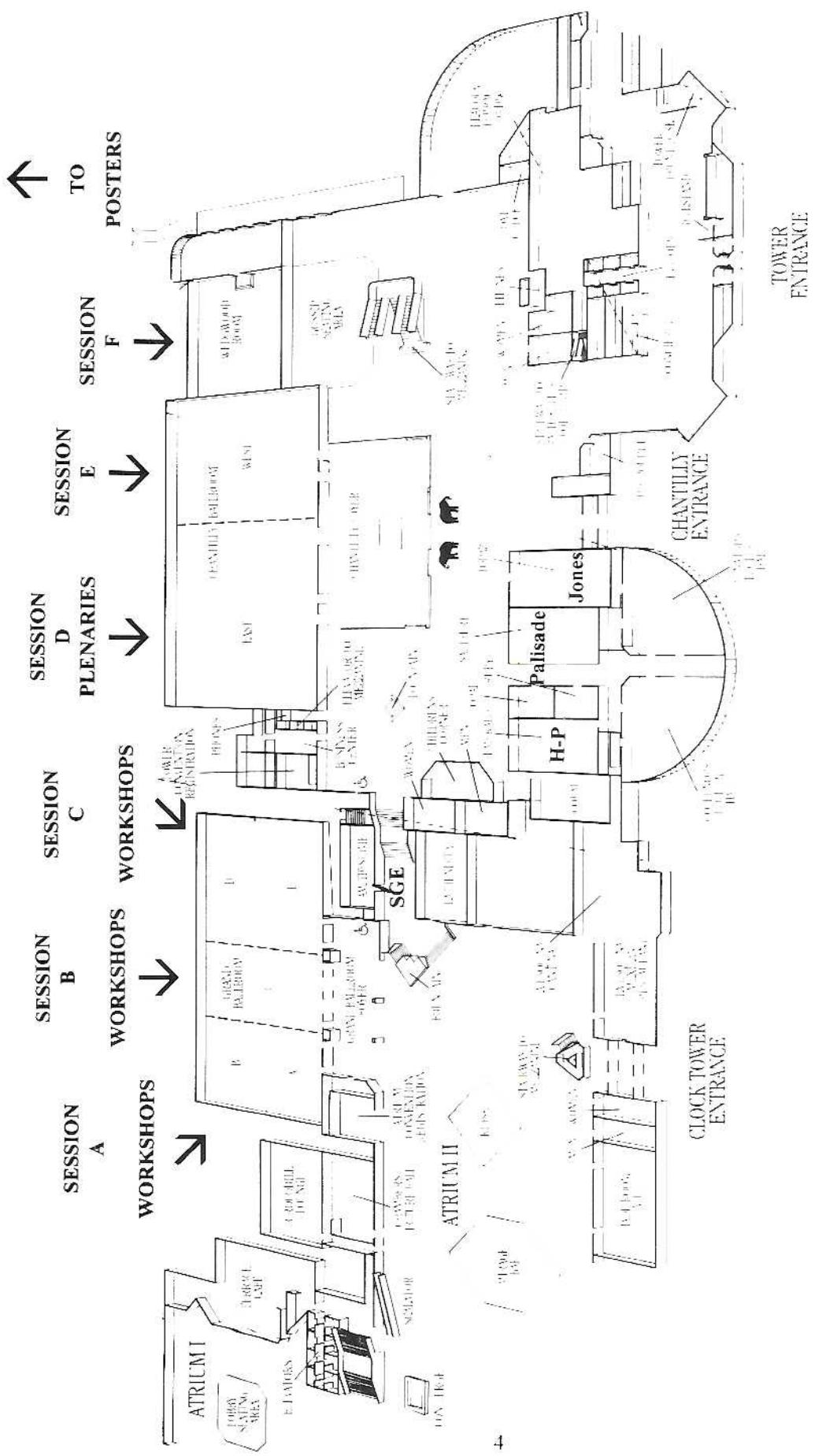


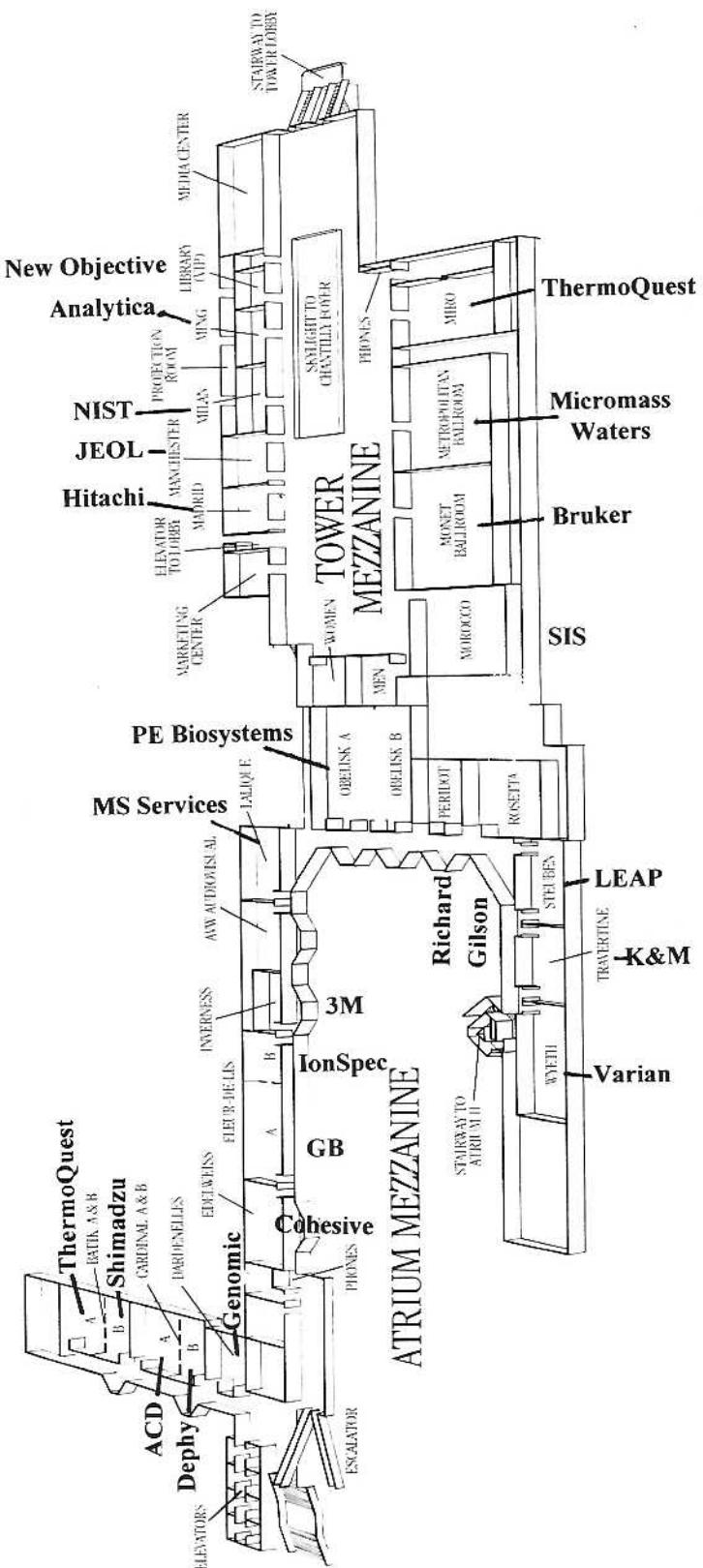
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ANATOLE CONFERENCE LEVEL





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<i>Surface Science</i>	Gary Groenewold Idaho Nat'l Engin & Envir Lab		
<i>TOF MS</i>	Werner E. Ens University of Manitoba		
<i>Young Mass Spectrometrists</i>	David C. Muddiman Virginia Commonwealth Univ.		

CORPORATE MEMBERS

Be sure to visit the corporate suites and posters. Suites are located on the conference level and the mezzanine level directly above. The corporate posters are located in Trinity Exhibit Hall.

3M Filtration Products	Inverness, Atrium mezzanine	LEAP Technologies.....	Steuben, Atrium mezzanine
ABB Extrel		Lab Connections	
Advanced Chemistry Development	Cardinal A, mezzanine	Linden-Chromasspec	
Analytica.....	Ming, Towers mezzanine	Los Gatos Circuits (LGC)	
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Chem-Space Associates		Maxxam Analytics	
ChemSW, Inc		Merck Research Laboratories	
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Covance		Micromass/Waters	Metropolitan, Towers mezzanine
Dephy Technologies	Cardinal B, Atrium mezzanine	Millipore Corporation.....	Atrium Parlor
Detector Technology, Inc.		NIST	Milan, Towers mezzanine
EG&G Ortec		New Objective, Inc.....	Library, Towers mezzanine
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GB Scientific.....	Fleur de Lis A, Atrium mezzanine	PE Biosystems	Obelisk A & B, Atrium mezzanine
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Hitachi Instruments Inc.....	Madrid, Towers mezzanine	Scientific Glass Engineering.....	Amethyst, conference lobby
IonSpec Corporation	Fleur de Lis B, Atrium mezzanine	Scientific Instrument Services ...	Morocco, Towers mezzanine
Ionwerks, Inc.		Shimadzu Scientific Instr.....	Batik B, Atrium mezzanine
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JEOL USA, Inc.....	Manchester, Towers mezzanine	Supermass	
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PROGRAM ACKNOWLEDGEMENTS

Richard M. Caprioli, Vice President for Programs
Veronica M. Bierbaum, Past President
Hilkka Kenttämaa, Member at Large for Publications

STUDENT ASSISTANTS

Graduate students are assisting with all aspects of the conference, including registration, oral and poster sessions, Proceedings submissions, and the employment center. The students each receive a stipend to assist with their conference expenses. The stipends are provided through the generous support of

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AWARDS

Award for a Distinguished Contribution in Mass Spectrometry



Melvin B. Comisarow



Alan G. Marshall

The ASMS Award for a Distinguished Contribution in Mass Spectrometry recognizes a focused singular achievement in or contribution to fundamental or applied mass spectrometry. The 1999 Award is presented jointly to **Professor Melvin B. Comisarow**, University of British Columbia, and **Professor Alan G. Marshall**, Florida State University/National High Magnetic Field Laboratory, for the invention and development of Fourier transform ion cyclotron resonance mass spectrometry (FT-ICR MS).

FT-ICR is best known for its ultrahigh mass resolution, which exceeds that of any other type of mass spectrometer. More than 260 FT-ICR MS systems, representing a capital investment of \$100M in current dollars, have been installed worldwide. Comisarow's group is involved with the development and exploitation of FT-ICR mass spectrometry, fundamental research on Fourier methods in spectrometry and application of these techniques to problems in chemistry. Marshall and co-workers have provided comprehensive theoretical treatment of FT-ICR MS, introduced the stored-waveform inverse Fourier transform (SWIFT) technique (for optimal mass-selection), and ion traps which achieve near-optimum performance. Both groups have carried out extensive work with the required computer technology and mathematical algorithms for enhanced spectral resolution and accuracy.

The award will be presented at 8:00 AM, Tuesday, June 15, Chantilly Ballroom.

The Biemann Medal



Matthias Mann

The Biemann Medal recognizes a significant achievement in basic or applied mass spectrometry made by an individual early in his or her career. The award is presented in honor of Professor Klaus Biemann and is endowed by contributions from his students, postdoctoral associates and friends. The 1999 award is presented to **Professor Matthias Mann** from the University of Southern Denmark - Odense for his ingenious applications of mass spectrometry to protein chemistry and molecular biology.

Matthias Mann was formerly at the European Molecular Biology Laboratory. While at EMBL, his group pioneered the development of techniques for the ultra-sensitive analysis of gel separated proteins, including nanoelectrospray, peptide sequence tags, instrumental methods in MALDI, and digestion and sample preparation methods. These methods were validated in the first large-scale protein identification project, which determined more than 150 proteins by mass spectrometry alone. From 1995 these techniques were used by the group to solve important and longstanding problems in molecular biology such as the identification of FLICE (a central component in programmed cell death), telomerase (a key component in cancer and aging), and many other proteins of great biological importance.

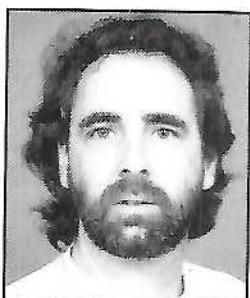
In 1998 Dr. Mann was appointed full professor in bioinformatics at the University of Southern Denmark - Odense. His group plans to completely integrate mass spectrometry into molecular biology. A specific focus is the determination of gene function via the mass spectrometric determination of the components of multiprotein complexes. In addition to his University appointment, Dr. Mann is the research director of Protana A/S, a biotechnology company that he co-founded.

The Biemann Medal will be presented at 8:00 AM, Wednesday, June 16, Chantilly Ballroom.

RESEARCH AWARDS

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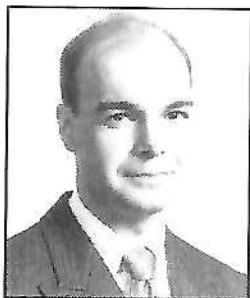


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Michael G. Bartlett

University of Georgia

CALL FOR YEAR 2000 RESEARCH AWARD PROPOSALS

OBJECTIVE To promote academic research by young scientists in mass spectrometry.

ELIGIBILITY Open to academic scientists within four years of joining the tenure track faculty of a North American university. Applicants may not have previously received an award under this program.

APPLICATION Applicants should submit **SEVEN COLLATED SETS** of the following:

1. One page fiscal proposal & justification
2. List of current research support
3. Three page proposal, including references, figures, etc.
4. A vita
5. Two letters of recommendation (may be sent directly to ASMS)

DEADLINE Application materials, including letters of recommendation, must be received in the ASMS office by November 30, 1999. Send to:

ASMS, 1201 Don Diego Avenue, Santa Fe, NM 87505

FISCAL The awards of up to \$25,000 will be made to a university in the name of the selected individual and for the researcher's exclusive use. In accepting this award, the institution will agree not to charge overhead on the funds.

INFORMATION Contact ASMS. Telephone: (505) 989-4517 • Fax: (505) 989-1073 • asms@asms.org

PROGRAM HIGHLIGHTS

SUNDAY TUTORIAL LECTURES, Grand Ballroom A/B/C

- 5:00 PM Michael T. Bowers, University of California at Santa Barbara**
“Anatomy of a Collision and Its Consequences”
5:45 PM Simon J. Gaskell, UMIST, United Kingdom
“Peptide Fragmentation Mechanisms”

7:30 - 9:30 PM Welcome Mixer, Chantilly Ballroom

MONDAY PLENARY LECTURE, Chantilly Ballroom

- 8:00 AM Robert S. Langer, Massachusetts Institute of Technology**
“Biomaterials and How They Will Change Our Lives”
Biomaterials - particularly synthetic polymers - have had a major impact on modern medicine. Two areas of importance for the future are drug delivery and tissue engineering. Studies ranging from basic research to new clinical treatments for cancer, burn injuries, and many other areas will be discussed.

TUESDAY PRESENTATION OF THE AWARD FOR A DISTINGUISHED CONTRIBUTION IN MASS

- 8:00 AM SPECTROMETRY AND PLENARY LECTURE, Chantilly Ballroom**
Melvin B. Comisarow, University of British Columbia
Alan G. Marshall, Florida State University

WEDNESDAY PRESENTATION OF THE BIEMANN MEDAL AND PLENARY LECTURE, Chantilly Ballroom

- 8:00 AM Matthias Mann, University of Southern Denmark - Odense**

WEDNESDAY SHUTTLE BUSES TO SIXTH FLOOR MUSEUM, Clock Tower Entrance

6:30 - 9:30 Informal opportunity to visit the museum at your leisure. Tickets required, \$10 per person.

WEDNESDAY ASMS GENERAL MEETING, Chantilly East

- 5:15 - 6:00 PM**
Research Award presentations
Acknowledgment of the retiring Board members
ASMS News

THURSDAY PLENARY LECTURE, Chantilly Ballroom

- 8:00 AM Richard F. Haglund, Vanderbilt University**
“Harnessing the Light Fantastic for Materials Analysis and Processing”

In the last decade, the laser has become a commercial tool in important areas of materials processing and analysis - such as surface structuring, thin-film deposition and, of course, mass spectrometry. But the laser's past is only prologue: broadly tunable lasers ranging from deep ultraviolet to mid-infrared are already being introduced to deliver undreamed-of intensities at unimaginably short pulse durations. These lasers interact with materials through quite different mechanisms than today's nanosecond, low repetition rate, fixed-frequency devices. The technological drivers for new laser developments, and the potentially revolutionary applications in materials analysis and processing which are already flowing from them, are the subject of this talk.

THURSDAY PLENARY LECTURE, Chantilly East

- 5:00 PM Roger Biringer, San Jose State University and Winemaker, Cordon Creek Winery**
“From the Cradle to the Table: The Chemistry of Wine”
Followed by a wine tasting illustrating the principles discussed.

THURSDAY CONFERENCE FINALE - TEXAS BARBEQUE, Anatole Park

6:30 - 8:30 PM Tickets required: \$10 each.

PROGRAM OVERVIEW - MORNING

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
	Optional Corporate Suite Openings 8 - 8:45 AM PLENARY <i>Chantilly Ballroom</i> Robert Langer	Optional Corporate Suite Openings 8 - 8:45 AM PLENARY <i>Chantilly Ballroom</i> Melvin Comisarow & Alan Marshall Co-Recipients of the Distinguished Contribution Award	Optional Corporate Suite Openings 8 - 8:45 AM PLENARY <i>Chantilly Ballroom</i> Matthias Mann Recipient of the Biemann Medal	Optional Corporate Suite Openings 8 - 8:45 AM PLENARY <i>Chantilly Ballroom</i> Richard Haglund Vanderbilt University
	8:45 - 10:15 POSTER SESSION <i>Trinity Exhibit Hall</i> MPA-Corporate Science MPB-Ion/Molecule Reactions MPC-Gas Phase Ion Chemistry MPD-Laser Desorption/Ionization MPE-Spray Ionization MPF-Isotope Ratios MPG-Industrial Analysis MPI-Drugs & Metabolism MPI-Proteins & Peptides MPJ-Carbohydrates	8:45 - 10:15 POSTER SESSION <i>Trinity Exhibit Hall</i> TPA-Corporate Science TPB-Ion-Activation Dissociation TPC-Instrumentation TPD-Separations TPE-Environmental TPF-Drugs & Metabolism TPG-Proteins & Peptides TPH-Lipids	8:45 - 10:15 POSTER SESSION <i>Trinity Exhibit Hall</i> WPA-Corporate Science WPB-Ion Molecule Reactions WPC-Gas Phase Ion Chemistry WPD-Instrumentation WPE-Separations WPF-Organic Analysis WPG Drugs & Metabolism WPH-Proteins & Peptides WPI-Nucleic Acids	8:45 - 10:15 POSTER SESSION <i>Trinity Exhibit Hall</i> ThPA-Corporate Science ThPB-Trapped Ions ThPC-Laser Desorption Ionization ThPD-Environmental ThPE-Computers ThPI-Drugs & Metabolism ThPG Proteins & Peptides ThPH-Toxicology ThPI-Microbiology ThPJ-Materials
10 AM - 8 PM Registration	10:15 - 12:15 ORAL SESSIONS MOA-Industrial Polymers <i>Grand A/B</i> MOB-Microbiology I <i>Grand C</i> MOC-Computers & Automation <i>Grand D/E</i> MOD-Gas Phase Ion/Molecule Reactions I <i>Chantilly East</i> MOE-Peptide Fragmentation <i>Chantilly West</i> MOF-Natural Products <i>Wedgewood</i>	10:15 - 12:15 ORAL SESSIONS TOA-Biological Methods <i>Grand A/B</i> TOB-Laser Desorp/Ioniz <i>Grand C</i> TOC-New Sampling Techniques <i>Grand D/E</i> TOD-Ion Structure & Energetics I <i>Chantilly East</i> TOE-Pharm Discovery & Development I <i>Chantilly West</i> TOF-Forensic Applications <i>Wedgewood</i>	10:15 - 12:15 ORAL SESSIONS WOA-Pharmacology/ Toxicology I <i>Grand A/B</i> WOB-CE/MS <i>Grand C</i> WOC-Trapped Ions <i>Grand D/E</i> WOD-Ion Activation/ Dissociation I <i>Chantilly East</i> WOE-Non-Covalent Interactions <i>Chantilly West</i> WOF-Process Monitoring <i>Wedgewood</i>	10:15 - 12:15 ORAL SESSIONS ThOA-Multiply Charged Ions <i>Grand A/B</i> ThOB-Nucleic Acid Adducts <i>Grand C</i> ThOC-LC/MS Instrumentation <i>Grand D/E</i> ThOD-Carbohydrates/ Glycobiology I <i>Chantilly East</i> ThOE-Quantitation <i>Chantilly West</i> ThOF-Cluster Ions <i>Wedgewood</i>
	12:15 - 1:30 PM Lunch Break <i>Cash lunches in Trinity Exhibit Hall</i> Informal Poster Viewing Optional Corporate Suite Openings	12:15 - 1:30 PM Lunch Break <i>Cash Lunches in Trinity Exhibit Hall</i> Informal Poster Viewing Optional Corporate Suite Openings	12:15 - 1:30 PM Lunch Break <i>Cash Lunches in Trinity Exhibit Hall</i> Informal Poster Viewing Optional Corporate Suite Openings	12:15 - 1:30 PM Lunch Break <i>Cash Lunches in Trinity Exhibit Hall</i> Informal Poster Viewing Optional Corporate Suite Openings

PROGRAM OVERVIEW - AFTERNOON

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
	12:30 - 1:30 PM INTEREST GROUP Computer Applications <i>Grand A/B</i>	12:30 - 1:30 PM INTEREST GROUP Ion Trap MS <i>Grand A/B</i>	12:30 - 1:30 PM INTEREST GROUP Energy & Petrochemicals <i>Grand A/B</i>	12:30 - 1:30 PM INTEREST GROUPS History of MS <i>Grand A/B</i> Surface Science <i>Grand C</i>
	1:30 - 3 PM Poster Session contd. MPA-Corporate Science MPB-Ion/Molecule Reactions MPC-Gas Phase Ion Chemistry MPD-Laser Desorption/Ionization MPE-Spray Ionization MPF-Isotope Ratios MPG-Industrial Analysis MPH-Drugs & Metabolism MPI-Proteins & Peptides MPJ-Carbohydrates	1:30 - 3 PM Poster Session contd. TPA-Corporate Science TPB-Ion-Activation/Dissociation TPC-Instrumentation TPD-Separations TPE-Environmental TPF-Drugs & Metabolism TPG-Proteins & Peptides TPH-Lipids	1:30 - 3 PM Poster Session contd. WPA-Corporate Science WPB-Ion/Molecule Reactions WPC-Gas Phase Ion Chemistry WPD-Instrumentation WPE-Separations WPF-Organic Analysis WPG-Drugs & Metabolism WPH-Proteins & Peptides WPI-Nucleic Acids	1:30 - 3 PM Poster Session contd. ThPA-Corporate Science ThPB-Trapped Ions ThPC-Laser Desorption/Ionization ThPD-Environmental ThPE-Computers ThPF-Drugs & Metabolism ThPG-Proteins & Peptides ThPH-Toxicology ThPI-Microbiology ThPJ-Materials
	3 - 5 PM ORAL SESSIONS MOA-Oligonucleotides <i>Grand A/B</i> MOB-Microbiology II <i>Grand C</i> MOC-Advances in Instrumentation <i>Grand D/E</i> MOD-Gas Phase Ion/Molecule Reactions II <i>Chantilly East</i> MOE-Combinatorial Chemistry <i>Chantilly West</i> MOF-Elemental Analysis <i>Wedgewood</i>	3 - 5 PM ORAL SESSIONS TOA-Neuropeptides <i>Grand A/B</i> TOB-Peptides & Proteins <i>Grand C</i> TOC-Lipids <i>Grand D/E</i> TOD-Ion Structure & Energetics II <i>Chantilly East</i> TOE-Pharm Discovery & Development II <i>Chantilly West</i> TOF-Isotope Ratios <i>Wedgewood</i>	3 - 5 PM ORAL SESSIONS WOA-Pharmacology/Toxicology II <i>Grand A/B</i> WOB-MALDI <i>Grand C</i> WOC-LC/MS - Applications <i>Grand D/E</i> WOD-Ion Activation/Dissociation II <i>Chantilly East</i> WOE-Non-Covalent Interactions II <i>Chantilly West</i> WOF-Environmental <i>Wedgewood</i>	3 - 5 PM ORAL SESSIONS ThOA-Metal Ions in Biology <i>Grand A/B</i> ThOB-Low Molecular Weight Compounds <i>Grand C</i> ThOC-TOF Instrumentation <i>Grand D/E</i> ThOD-Carbohydrates/Glycobiology II <i>Chantilly East</i> ThOE-ESI - New Applications <i>Chantilly West</i> ThOF-Clinical Applications <i>Wedgewood</i>

PROGRAM OVERVIEW - EVENING

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
5 - 6:30 PM Tutorial Lectures <i>Grand A/B/C</i> Michael Bowers - Anatomy of a Collision & Its Consequences Simon Gaskell - Peptide Fragmentation Mechanisms	5 - 5:30 PM Refreshments 5:30 - 7 PM WORKSHOPS Career Development <i>Grand A/B</i> Ion Properties <i>Grand C</i> Separation Methods <i>w/TOF</i> <i>Grand D/E</i>	5 - 5:30 PM Refreshments 5:30 - 7 PM WORKSHOPS Introducing Metal Containing Species into Gas Phase <i>Grand A/B</i> Internet Computer Applications <i>Grand C</i> Navigating NIH <i>Grand D/E</i>	5:15 - 6 PM GENERAL MEETING & AWARDS	5 - 6 PM PLENARY <i>Chantilly East</i> <i>R. Biringer</i> Cordon Creek Winery Followed by Wine Tasting
	After 5:30 PM Corporate Suite Openings	After 5:30 PM Corporate Suite Openings	After 6 PM Corporate Suite Openings	6:30 - 8:30 PM Texas BBQ
7:30 - 9:30 PM Welcome Mixer	8 - 9:30 PM WORKSHOPS Quantitative Determination of Synthetic Polymer Molecular Mass Distribution <i>Grand A/B</i>	8 - 9:30 PM WORKSHOPS Y2K - Are We Ready? <i>Grand A/B</i>	6:30 - 9:30 PM Informal shuttle buses to 6 th Floor Museum	After 8:30 PM Optional Corporate Suite Openings
After 9:30 PM Optional Corporate Suite Openings	Practical Utilization of Q/TOF Technology <i>Grand C</i>	LC/MS Sample Introduction & Separation Strategies <i>Grand C</i>		
	ASMS Conference: How Should We Grow? <i>Grand D/E</i>			

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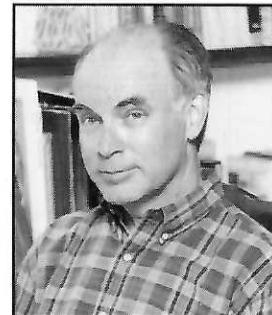
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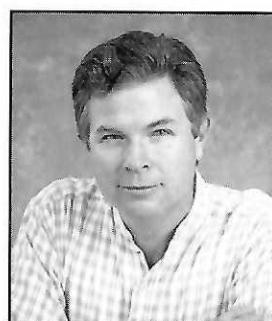
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MONDAY ORAL SESSIONS

INDUSTRIAL POLYMERS

- MOA 10:15 **Gas Phase Conformations of PEG, PPG, and PTMEG Oligomers Cationized by Alkali Ions;** *Gidden, Jennifer; Wyttenbach, Thomas; Jackson, Tony; Scrivens, Jim; Bowers, Michael T.; University of California Santa Barbara, CA.
- MOA 10:35 **Characterization of Low-MW Industrial Polymers Using pcSFC/MS and Image-Analysis-Based Quantitation;** *Pinkston, J. David; Jordan, Glenn; Marapane, Suresh; The Procter & Gamble Company, Miami Valley Laboratories, OH.
- MOA 10:55 **Effect of in-Source Decay on the Characterisation of Hyperbranched Polyesteramides by MALDI-TOF-MS;** Kwakkenbos, Gerard; Muscat, Dirk; van Bentem, Rolf; *de Koster, Chris G.; DSM Research, The Netherlands.
- MOA 11:15 **Fundamental Studies on the Direct Analysis of Wide Polydisperse PMMA Polymers;** *Byrd, H.C. Michelle; Peacock, Patricia; McEwen, Charles; DuPont Central Research, Delaware.
- MOA 11:35 **Post-Source Decay of Polystyrene Ions in Matrix-Assisted Laser Desorption/Ionization;** *Goldschmidt, Robert; Wetzel, Stephanie; Blair, William; Guttman, Charles; National Institute of Standards and Technology, MD.
- MOA 11:55 **Generation of Structural Information from Copolymers using Tandem Mass Spectrometry;** *Jackson, Anthony; Scrivens, James; Simonsick, William; Green, Martin; Bateman, Robert; ICI Technology.

OLIGONUCLEOTIDES

- MOA 3:00 **Controlling Charge States of Large Ions;** Sealf, Mark; Westphall, Michael S.; *Smith, Lloyd M.; University of Wisconsin-Madison.
- MOA 3:20 **Retrieval of DNA after Mass Analysis in ESI-FTICR by Soft-landing for Enzymatic Manipulation;** *Feng, Bingbing; Wunschel, David S.; Masselon, Christophe; Pasa-Tolic, Ljiljana; Smith, Richard D.; Pacific Northwest National Laboratory.
- MOA 3:40 **Stabilisation and Detection of Double Stranded DNA in IR-MALDI Mass Spectrometry;** Kirpekar, Finn; Berkenkamp, Stefan; *Hillenkamp, Franz; Institute of Medical Physics and Biophysics, Univ. of Muenster, Germany.
- MOA 4:00 **High Throughput Genotyping by MALDI-TOF Mass Spectrometry;** *Wang, Bing; Olson, Jeffery; Belenky, Alexei; Stanton, Vincent; Dykes, Colin; Variagenics, Inc., Massachusetts, U.S.A.
- MOA 4:20 **Why MALDI-TOF Mass Spectrometry is the Method of Choice for Analysis of Single Nucleotide Polymorphisms;** *Ross, Philip; Smirnov, Igor; Hall, Laura; Haff, Lawrence; PE Biosystems (Division of Perkin-Elmer).
- MOA 4:40 **SNP Determination Using Cleavable Primers and Mass Spectrometry;** Butler, John M.; Royer, Stephanie; *Hunter, Joanna M.; Lin, Hua; Becker, Christopher H.; GeneTrace Systems Inc.

MICROBIOLOGY I

- MOB 10:15 **Complete Sequence Determination of Some Plant Virus Coat Proteins;** She, YM; Haber, S; Seifers, DL; Loboda, A; Krutchinsky, AN; Perreault, H; Ens, W; *Standing, KG; University of Manitoba, Canada.
- MOB 10:35 **MALDI-MS Reports Mutagenized Bact. Pilus-Subunit Derivatives, Revealing their Maturation and Circular Structure;** *Kalkum, Markus; Eisenbrandt, Ralf; Reinhardt, Richard; Lanka, Erich; Max-Planck-Institute for Molecular Genetics.
- MOB 10:55 **Detection of Biological Agent as Toxins and Identification of Active Sites Using LC/ESI-ITMS;** *Tabet, Jean-Claude; Fournier, Françoise; Breton, Patrick; Afonso, Carlos; Université Pierre et Marie Curie - France.
- MOB 11:15 **Analysis of Structurally Similar PCR Products of the 16S-23S rRNA Interspace Region of Bacilli by Electrospray-Quadrupole Mass Spectrometry;** *Johnson, Yevette; Krahmer, Mark; Walters, James; Fox, Karen; Fox, Alvin; Nagpal, Madan; University of South Carolina.
- MOB 11:35 **Characterization of Two Component Signal Transduction Pathways in *S. aureus*: the ResDE System;** Zappacosta, Francesca; Throup, John; Burnham, Martin; Lonsdale, John; Lunsford, Dwayne; McDevitt, Damien; Carr, Steven; *Annan, Roland; SmithKline Beecham Pharm, King of Prussia, PA.
- MOB 11:55 **A Novel Microspray-IT MS/MS Method for Field Identification of Simulants of Biological Agents;** *Nair, Hari; Eng, Jimmy; Yates III, John; Krishnamurthy, Thaiya; US Army ERDEC-biopolymer facility, Aberdeen Proving Ground, MD.

MICROBIOLOGY II

- MOB 3:00 **Applications of Gas-Phase Ion Chemistry: Protein Identification in Pathogenic Microorganisms;** *Stephenson, James; McLuckey, Scott; Cargile, Benjamin; Oak Ridge National Laboratory.
- MOB 3:20 **Observation of *E. coli* ribosomal proteins and their post-translational modifications by MALDI-MS;** *Arnold, Randy; Reilly, James; Indiana University, Indiana.
- MOB 3:40 **Probing the structural integrity of fusion proteins by limited proteolysis and mass spectrometry;** *Bantscheff, Marcus; Perraud, Anne-Laure; Gross, Roy; Glocker, Michael O.; University Konstanz.
- MOB 4:00 **Nano ESI Multistage (MS/MS/MS/MS) and MALDI PSD Experiments With Murein Fragments Isolated From *Bacillus*;** Bacher, Gerold; Koerner, Roman; Atri, Abdel; Foster, Simon; Ingendoh, Arndt; Roepstorff, Peter; *Allmaier, Guenter; University of Vienna/Austria.
- MOB 4:20 **Analysis of Proteasome-independent Epitopes in the MHC Class I Processing Pathway;** *Marto, Jarrod A.; Luckey, John C.; White, Forest M.; Lippolis, John D.; Shabanowitz, Jeffrey; Engelhard, Victor H.; Hunt, Donald F.; University of Virginia.

MOB 4:40 **MALDI-MS Investigations of Pathogens (Giardia and Cryptosporidium) in Drinking Water Resources;** *Krishnamurthy, Thaiya; Nair, Hari; Jabbour, Rabih; Richardson, Susan; Kryak, David; Ware, Michael; Schaefer, III, Frank; US Army ERDEC-biopolymer facility, Aberdeen Proving Ground, MD.

COMPUTERS AND AUTOMATIONS

MOC 10:15 **SIMION Version 7.0;** *Dahl, David; Idaho National Engineering and Environmental Lab.

MOC 10:35 **The Analytical Ion Chromatogram: A New Approach to Viewing the Complex Data of Fast GC/MS Analysis;** *Artaev, Viatcheslav; McNitt, Kevin; Merrick, Mark; Mitchell, Joel; LECO Corporation, MI.

MOC 10:55 **Extracting Information from Mass Spectral Data using Correlation Analysis;** *Owens, Kevin; Drexel University, PA.

MOC 11:15 **A Cross Platform Solution for Custom Data Analysis Applications;** *Fenn, Thomas; Xu, Keyang; Blair, Ian A.; University of Pennsylvania, PA.

MOC 11:35 **A Novel LC-MS Background Subtraction Technique for the Detection of Drug Metabolites in Biological Samples;** *Yu, Xiao; Pearson, Paul; Merck & Co., PA.

MOC 11:55 **Automatic de Novo Sequencing of Proteins by Differential Scanning with a Quadrupole Time of Flight Instrument;** *Wilm, Matthias; Neubauer, Gitte; Bachi, Angela; European Molecular Biology Laboratory, Germany.

ADVANCES IN INSTRUMENTATION

MOC 3:00 **Atmospheric Pressure, 3-Dimensional Ion Trapping Using High Field Asymmetric Waveform Ion Mobility Spectrometry;** *Roger, Guevremont, David; Barnett, Luyi; Ding, Randy; Purves; National Research Council of Canada, Ottawa, Canada.

MOC 3:20 **The Orbitrap: A Novel High-Performance Electrostatic Trap;** *Makarov, Alexander; HD Technologies Ltd.

MOC 3:40 **Efficient Multiple Fragmentation (MSⁿ) Using Resonance Excitation in Flow-Through RF Ion Guides;** *Cousins, Lisa M.; Thomson, Bruce A.; SCIEX.

MOC 4:00 **Charge Reduction Electrospray Mass Spectrometry (CREMS);** *Scalf, Mark; Westphall, Michael S.; Smith, Lloyd M.; University of Wisconsin-Madison.

MOC 4:20 **Membranes as an Ion Source for Mass Spectrometry and an Interface for Liquid Separations;** *Olivares, Jose; Los Alamos National Laboratory, New Mexico.

MOC 4:40 **Desorption/Ionization Mass Spectrometry on Silicon;** *Siuzdak, Gary; Buriak, Jillian; Wei, Jing; The Scripps Research Institute.

GAS PHASE ION MOLECULE REACTIONS I

MOD 10:15 **The Experimental Characterization of Hydrogen Bonded and Salt Bridge Complexes in Reactions of Ammonia with Protonated Diglycine and Protonated Betaine.;** *Lifshitz, Chava; Koster, Grielof; The Hebrew University of Jerusalem, Israel.

MOD 10:35 **Chiral Mass Spectrometry;** *Ramirez, Javier; Grigorean, Gabriela; Ahn, Seonghee; Lebrilla, Calito; Chemistry Dept., University of California-Davis, CA.

MOD 10:55 **Derivatization of Protonated Peptides for Sequence Analysis via Gas Phase Ion-Molecule Reactions with Ketones;** *Reid, Gavin; O'Hair, Richard; University of Melbourne, Parkville, Victoria, Australia.

MOD 11:15 **Gas Phase Reactions of Salts: Complexes of Dianions and Tetraalkylammoniums;** *Gronert, Scott; Azebu, Janice; Fong, Lil-Myra; San Francisco State University.

MOD 11:35 **Neutralization - Reionization M.S. and Computational Study of Cytosine and Uracil;** *Wolken, Jill; Frantisek, Turecek; University of Washington.

MOD 11:55 **Gas-Phase Hydrogen/Deuterium Exchange Reactions of Non-Covalent Complexes;** *Brodbelt, Jennifer; Reyzer, Michelle; Kempen, Esther; University of Texas at Austin.

GAS PHASE ION MOLECULE REACTIONS II

MOD 3:00 **SIFT Studies of Hydroxyl Cation and Ionized Water with Ethylene;** *Fishman, Vyacheslav; Grabowski, Joseph; Department of Chemistry University of Pittsburgh.

MOD 3:20 **Detection of Isomeric Species with an In Situ Infrared Radiation Source: Acetophenone vs. Butyrophenone;** *Peterman, Scott; Russell, David; Laboratory for Biological Mass Spectrometry/Dept. of Chem/Texas A&M Uni.

MOD 3:40 **Gas-Phase Synthesis and Characterization of the Phenylcarbyne Anion;** Seburg, Randal A.; *Hill, Brian T.; Jesinger, Rachel A.; Squires, Robert R.; Purdue University.

MOD 4:00 **Reactions of the 3,5-Dehydrophenyl Cation;** *Nelson, Eric D.; Kenttamaa, Hilkka I.; Purdue University, IN.

MOD 4:20 **Reactions of N2+ and O2+ with Benzene Vapor from 250-1400 K;** Arnold, Susan; *Williams, Skip; Midey, Anthony; Dotan, Itzhak; Morris, Robert; Viggiano, Albert; Air Force Research Laboratory.

MOD 4:40 **Reactions of the Radical Cations of Five-Membered Heterocyclic Aromatic Compounds with Neutral Alkynes, Alkenes, and Dienes;** *Cheng, Changfu; Gross, Michael; Washington University, MO.

PEPTIDE FRAGMENTATION MECHANISMS				NATURAL PRODUCTS			
MOE	10:15	The Complementary Role of Enzymatic and Mass Spectrometric Fragmentation in Sequencing Bioactive Peptides.; *Ramirez, Suzanne; Woods, Amina; Cotter, Robert; <i>The Johns Hopkins University School of Medicine.</i>	MOF	10:15	Natural Product Dereplication and Structural Elucidation Using LC/MS Combined With Accurate Mass LC/MS and LC/MS/MS.; *Gilbert, Jeffrey; Lewer, Paul; Carr, Andy; Snipes, Carl; Balcer, Jesse; <i>Dow AgroSciences.</i>		
MOE	10:35	Sequencing of Argentinated Peptides by Means of Electrospray Tandem Mass Spectrometry; *Chu, Ivan K.; Xu, Gau; Lau, Tai-Chu; Siu, Michael K.W.; <i>York University, Toronto, ON, Canada, City University of Hong Kong.</i>	MOF	10:35	MALDI and ESI FT-ICR MS Investigations of Saponins from <i>Quillaja saponaria</i> Molina; Muehlecker, Walter; *Costello, Catherine; <i>Boston University School of Medicine, Massachusetts.</i>		
MOE	10:55	Formation and Fragmentation of b_n Ions: An Ab Initio Study; *Paizs, Béla; Lendvay, György; Csonka, István; Vékey, Káoly; Suhai, Sándor; <i>German Cancer Research Center, Germany.</i>	MOF	10:55	Rapid Identification of Natural Products Using a Modified Ion Trap Mass Spectrometer and MS/MS Spectral Library Searching.; *Sanders, Mark; Josephs, Jonathan; DiDonato, Gerald; Tymiak, Adrienne; <i>Bristol-Myers Squibb.</i>		
MOE	11:15	The Structure of b_n Ions from Protonated Peptides; *Ren, Da; Wesdemiotis, Chrys; <i>The University of Akron, Ohio.</i>	MOF	11:15	High Resolution Tandem FTICR/MS of Natural Products; *Guan, Ziqiang; Zink, Deborah; Liesch, Jerrold; <i>Merck & Co., Inc.</i>		
MOE	11:35	Enhanced Cleavage at Asp-Xxx in Fixed-Charge Derivatives of Asp-Containing Peptides; *Gu, Chungang; Tsaprailis, George; Wysocki, Vicki H.; <i>University of Arizona.</i>	MOF	11:35	Structural Elucidation Studies on Rapamycin by Electrospray MS.; *Reather, James; Gates, Paul; Boehm, Guenter; Leadlay, Peter; Staunton, Jim; <i>University of Cambridge, United Kingdom.</i>		
MOE	11:55	Long Range Interactions During Fragmentation of Protonated Peptides Studied By CID and Deuterium Labeling.; *Vaisar, Tomas; Urban, Jan; <i>Molecumetics Ltd.</i>	MOF	11:55	The Characterization of Natural Product Extracts using a Tandem Quadrupole/Time-of-Flight Mass Spectrometer; *Plomley, Jeff; Wang, Xiaomin; <i>MDS Sciex, Canada.</i>		
COMBINATORIAL CHEMISTRY				ELEMENTAL ANALYSIS			
MOE	3:00	Towards Eliminating the Analytical Bottleneck in Drug Discovery: New Solutions for Characterizing, Purifying and Profiling Compound Libraries; *Kassel, Daniel B.; Zambias, Rob; Zeng, Lu; Wang, Tao; Xu, Ron; Gubernator, Klaus; <i>CombiChem, Inc.</i>	MOF	3:00	Elimination of Isobaric Interferences in Plasma Mass Spectrometry; *Weir, Douglas; Barinaga, Charles; Eiden, Gregory; Koppenaal, David; <i>Pacific Northwest National Laboratory, WA.</i>		
MOE	3:20	Ultra-High Throughput API-TOF MS for Accurate Mass Screening of Combinatorial Libraries; *Takach, Edward; Peltier, John; Kehoe, Terry; Zhou, Joe; Deutschman, Robert; Chen, Xunning; Martin, Stephen; <i>PE Biosystems, MA.</i>	MOF	3:20	Collisionally Activated Dissociation of Diatomic Ions in Quadrupole Ion Traps; *Duckworth, Douglas C.; Goeringer, Douglas E.; McLuckey, Scott A.; <i>Oak Ridge National Laboratory, Tennessee.</i>		
MOE	3:40	Completely Automated High Throughput LC/MS Characterization of a Collection of Synthetic Compounds (Compound Libraries); *Issakova, Olga; Sepetov, Nikolai; <i>Nanoscale Combinatorial Synthesis Inc. Tucson AZ.</i>	MOF	3:40	Electrothermal Atomization as a Sample Introduction Strategy for a Helium Gas Sampling Glow Discharge Coupled to the Time-of-Flight Mass Spectrometer; *Guzowski Jr., John P.; Broekaert, J.A.C.; Hieftje, Gary M.; <i>Indiana University, Laboratory for Spectrochemistry.</i>		
MOE	4:00	Simultaneous Analysis of Combinatorial Libraries for Identification, Purity and Concentration; *Lewis, Ken; Phelps, Dean; <i>Glaxo Wellcome.</i>	MOF	4:00	Simultaneous Mass and Energy Analysis Using a Linear Time-of-Flight Mass Spectrometer; *Knippel, Brad; Christopher, Steve; Marcus, Kenneth; <i>Clemson University.</i>		
MOE	4:20	Qualitative and Quantitative Analysis of Single Beads from Combinatorial Libraries; *Wagner, David; Shampine, Larry; Wild, Jennifer; Kinsey, Ken; Patel, Hari; Schoenen, Frank; Geysen, Mario; <i>GlaxoWellcome NC.</i>	MOF	4:20	Analysis of Collected Airborne Particles Using TOF-SIMS; *Cable, Paula; Carlson, Clifton; Halverson, Justin; <i>Savannah River Technology Center.</i>		
MOE	4:40	High Throughput Screening of Inhibitor Combinatorial Libraries Using Immobilized Enzymes with ESI-ITMS and FTMS; *Cancilla, Mark; Berg, Christian; Leary, Julie; <i>UC Berkeley.</i>	MOF	4:40	A Tandem Differential Mobility Analyzer - Inductively Coupled Plasma Mass Spectrometer System for Particulate Matter Characterization; *Nam, Paul; Dawson, Peter; Hagen, Don; Kapila, Shubhen; Whitefield, Philip; <i>University of Missouri - Rolla, O.</i>		

TUESDAY ORAL SESSIONS

EMERGING METHODS IN BIOLOGY

- TOA 10:15 **Protein Cleavage on a Gel-Wide Scale;**
*Ogorzalek Loo, Rachel; Parke-Davis
Pharmaceutical Research.
- TOA 10:35 **Proteome analysis: comparison of gene expression via CIEF FTICR-MS;** *Pasa Tolic, Ljiljana; Jensen, Pamela; Martinovic, Suzana; Peden, Kim; Lipton, Mary; Anderson, Gordon; Tolic, Nikola; Smith, Richard; Pacific Northwest National Laboratory, Richland, WA.
- TOA 10:55 **Functional Analysis of Multiprotein Complexes by Nanoelectrospray Quadrupole TOF Mass Spectrometry;** *Mann, Matthias; Andersen, Jens; Kuster, Bernhard; Rappsilber, Juri; King, Angus; Lamond, Angus; University of Southern Denmark.
- TOA 11:15 **Towards the Determination of Global, Quantitative Protein Expression Profiles: A New Method for the Quantitation and Identification of Proteins in Complex Mixtures;** *Gygi, Steven; Rist, Beate; Han, David; Aebersold, Ruedi; Department Molecular Biotechnology, University of Washington.
- TOA 11:35 **Site-Specific Fluorescence Labeling of Proteins and Mass Spectrometric Analyses; An Integrated Approach to Proteome Research;** *Glockner, Michael O.; Bantscheff, Marcus; Kalkum, Markus; Lorenz, Peter; Thiesen, Hans-Juergen; Przybylski, Michael; University of Konstanz, Germany.
- TOA 11:55 **Accurate Quantitation of Protein Expression and Site-Specific Phosphorylation;** *Chait, Brian; Oda, Yoshiya; Cowburn, David; Huang, Kim; Cross, Fred; Rockefeller University.

NEUROPEPTIDES

- TOA 3:00 **In Vivo Processing of Opioid Neuropeptides in Animal Models of Parkinsonism Determined by Microdialysis-MS;** *Andren, Per E.; Bennmarker, Rebecka; Bondesson, Ulf; Uppsala University, Sweden.
- TOA 3:20 **ESI-Mass Spectrometric Studies on Synaptic Metabolism of Neuropeptides In Vitro;** *Prokai, Laszlo; Zharikova, Alevtina; Center for Drug Discovery, University of Florida, Gainesville, FL.
- TOA 3:40 **Delta Opioid Receptor Characterization: Molecular Mechanisms of Desensitization;** *Becklin, Robert; Desiderio, Dominic; University of Tennessee, Memphis.
- TOA 4:00 **Direct de Novo Neuropeptide Sequencing in Neuronal Tissue By Nano-ESI-TOF MS;** *Verhaert, Peter; Raymackers, Jos; Van Mechelen, Eugeen; Meheus, Lydie; Innogenetics Belgium.
- TOA 4:20 **Characterization of Neuropeptides in Single Cells and Biological Tissues Using MALDI Mass Spectrometry;** *Li, Lingjun; Garden, Rebecca; Floyd, Philip; Rubakhin, Stanislav; Sweedler, Jonathan; Dept. of Chemistry & Beckman Institute, University of Illinois, IL.
- TOA 4:40 **Off-Line CE MALDI MS: Sample Deposition Strategies for Cellular Assays;** *Page, Jason; Garden, Rebecca; Li, Lingjun; Sweedler, Jonathan; University of Illinois at Urbana-Champaign, Illinois.

FUNDAMENTALS OF LASER DESORPTION IONIZATION

- TOB 10:15 **Early Stages of the Plume Dynamics in Matrix-Assisted Laser Desorption Ionization;** Moskovets, Eugene; Sadeghi, Mehrnoosh; Bencsura, Akos; *Vertes, Akos; George Washington University.
- TOB 10:55 **Mechanisms of Infrared Laser Desorption and Ionization;** *Papantonakis, Michael; Baltz-Knorr, Michelle; Ermer, David; Haglund, Richard; Vanderbilt University and W. M. Keck Free Electron Laser Center, TN.
- TOB 11:15 **Ionization Processes in MALDI Mass Spectrometry;** *Knochennuss, Richard; Karbach, Volker; Breuker, Kathrin; Lehmann, Edda; Zenobi, Renato; Department of Chemistry, ETH Zurich.
- TOB 11:35 **Interactions of the Matrix and Analyte in MALDI;** *Land, Mark; Kinsel, Gary; University of Texas at Arlington, Texas.
- TOB 11:55 **Attempts to Photoionize Peptides Using Photoionization Tags;** Houston, Christopher; *Reilly, James; Indiana University, Department of Chemistry.

PEPTIDES AND PROTEINS

- TOB 3:00 **Embryonic Schwann Cell Proteomics: Identification of Secreted Proteins;** *O'Connell, Kathy; King, Kathleen; Mather, Jennie; Anderson, Leigh; Stults, John; Genentech, Inc., South San Francisco, CA.
- TOB 3:20 **Identification and Characterization of Apoptosis Suppressor BclX_L-Associated Proteins: Analysis by LC-MS/MS;** *Han, David; Gygi, Steven; Aebersold, Ruedi; Department of Molecular Biotechnology, University of Washington, Seattle, WA.
- TOB 3:40 **Identification of Mitochondrial Proteins From Alzheimer Patients Using Multiple Mass Spectrometry Strategies;** Scheffler, N. Karoline; Carroll, Amy K.; Miller, Scott W.; Davis, Robert E.; Ghosh, Soumitra S.; Falick, Arnold M.; Settinelli, Christine A.; *Gibson, Bradford W.; University of California at San Francisco.
- TOB 4:00 **Protein Identification From Mixtures Using a Chemical Derivatization/Precursor Ion Strategy;** *Ferro, Myriam; Sangvanich, Polkit; Hubbard, Simon J.; Beynon, Robert J.; Gaskell, Simon J.; UMIST, United Kingdom.
- TOB 4:20 **A Theoretical Study of Fragmentation Products of Silver-Containing Small Peptides;** *Shoeib, Tamer; F. Rodriguez, Chris; K. Chu, Ivan; C. Hopkinson, Alan; Siu, K. W. Micheal; York University, Ontario, Canada.
- TOB 4:40 **De novo Sequencing of Peptides by Low-energy CID;** *Naven, T.; Canas, B.; Rahman, D.; Bartlet-Jones, M.; Jeffrey, W.; Pappin, D.; Imperial Cancer Research Fund.

NEW SAMPLING TECHNIQUES

- TOC 10:15 **A New Purge-and-Membrane Mass Spectrometric System for the Analysis of Volatile Organic Compounds from Soil Samples;** *Ketola, Raimo; Ojala, Marja; Mattila, Ismo; Särme, Timo; Kotiaho, Tapio; VTT Chemical Technology, Finland.

TOC	10:35	Sampling and Analysis of Particulate Matter by Glow Discharge Mass Spectrometry; *Gibeau, Terri; Dempster, Melissa; Reynolds, Elizabeth; Marcus, Kenneth; Clemson University, South Carolina.
TOC	10:55	Blood-Brain-Barrier Transport and In Vivo Metabolism of Angiotensin IV Receptor Analogues; *Bennmarker, Rebecka; Andren, Per E.; Karlen, Anders; Hallberg, Anders; Nyberg, Fred; Bondesson, Ulf; Uppsala University, Sweden.
TOC	11:15	On-line Coupling of Solid-Phase Extraction with Mass Spectrometry for the Analysis of Biological Samples; *de Jong, G.J.; Jeronimus, M.; Bruins, C.H.P.; van Dongen, W.D.; Ensing, K.; University Centre for Pharmacy, Groningen, The Netherlands.
TOC	11:35	Direct Temperature Resolved Mass Spectrometric Studies of Paintings by Sir Joshua Reynolds (1723-1792).; *Boon, Jaap J.; Townsend, Joyce; Jones, Rica; FOM Institute for Atomic and Molecular Physics, Netherlands.
TOC	11:55	Evaluation of a Novel Non-Porous Membrane Extraction Probe to Determine Sulfonylureas in Plasma with analysis by LC-MS/MS; *Mullins, Frank; Medeval Ltd., England.

LIPIDS

TOC	3:00	High and Low Resolution GC/MS Techniques for the Identification of Positional Isomers of Conjugated Linoleic Acid (CLA) in Biological Extracts; *Roach, John; U.S. Food and Drug Administration, Washington, DC.
TOC	3:20	A CI-MS/MS Method for Double Bond Localization in Fatty Acid Methyl Esters; *Van Pelt, Colleen K.; Brenna, J. Thomas; Cornell University.
TOC	3:40	Unique Pathway of Copper-Induced Radical Peroxidation of Plasmenyl Glycerophosphocholine Containing Esterified Arachidonate; *Khaselev, Nona; Murphy, Robert C.; National Jewish Medical and Research Center.
TOC	4:00	Characterization of Phosphatidylinositol and Phosphatidylcholine from MCF-7 Human Breast Carcinoma Cells Using Electrospray Ionization Tandem Mass Spectrometry; *Shaffer, Scott; Nudelman, Ed; Finney, Robert; Cell Therapeutics, Inc. Seattle, WA.
TOC	4:20	FT-ICR MS Characterization of Membrane Lipids from Rhodococcus Hydrocarbon-Degrading Bacteria; *Blumer, Erin; Rodgers, Ryan; Emmett, Mark; Marshall, Alan; Florida State University, Florida.
TOC	4:40	Determination of Sphingoid Structures by FAB CID-MS/MS; *Ohashi, Yoko; Tanaka, Takashi; Akashi, Satoko; Nagai, Yoshitaka; Kishimoto, Yasuo; FRP, RIKEN (Japan), The Kennedy Inst. JHU (U.S.A.), RIKEN (Japan).

ION STRUCTURE AND ENERGETICS I

TOD	10:15	Electron Capture Dissociation: Large Molecules Can Yield Odd-Electron Ions; *McLafferty, Fred W.; Zubarev, Roman A.; Horn, David M.; Fridriksson, Einar K.; Kruger, Nathan A.; Carpenter, Barry K.; Cornell University, Ithaca, NY.
TOD	10:35	The Energetics of Zwitterions and Salt Bridges in the Gas Phase; *Williams, Evan R.; Strittmatter, Eric F.; Jockusch, Rebecca A.; Wong, Richard I.; University of California, Berkeley.
TOD	10:55	Involvement of Zwitterionic Structures in the Binding of Arginine to Alkali Metal Ions; *Wesdemiotis, Chrys; Cerda, Blas A.; The University of Akron.
TOD	11:15	Binding of Sodium and Potassium Ions to Aromatic Amino Acids; *Dunbar, Robert C.; Ryzhov, Victor; Cerda, Blas A.; Wesdemiotis, Chrys; Case Western Reserve University, Ohio.
TOD	11:35	Absolute Metal Ion Binding Affinities of Azines Determined by Threshold Collision-Induced Dissociation; Amunugama, E. R.; Stanley, J. S.; *Rodgers, M. T.; Wayne State University.
TOD	11:55	Absolute Binding Energies of Sodium Ions to Small Molecules; *Armentrout, Peter; Rodgers, Mary; Chemistry Department, University of Utah, UT.

ION STRUCTURE AND ENERGETICS II

TOD	3:00	An Absolute Scale of Gas Phase Sodium Ion Affinities; Hoyau, Sophie; Norrman, Kim; *McMahon, Terry; Ohanessian, Gilles; Ecole Polytechnique; France.
TOD	3:20	Determination of Metal Ion-Ligand Bond Energies: Significance for Metallo-Enzymes and Proteins; Peschke, Michael; Blades, Arthur; *Kearle, Paul; University of Alberta, Canada.
TOD	3:40	ESI-FTICR Studies of Microsolvated Host-Guest Systems; *Dearden, David; Meibos, Sarah; Brigham Young University, Provo, UT.
TOD	4:00	Gas-Phase Acidities of Alcohols: Bimolecular Endoergic Proton Transfer versus CID of Proton-Bound Complexes; DeTuri, Vincent F.; *Ervin, Kent M.; University of Nevada, Reno.
TOD	4:20	4-Membered Cyclic Halonium Ions; *Morton, Thomas; Dept. of Chemistry, University of California, Riverside.
TOD	4:20	A Sequence/Structure Database for Predictions of Peptide Collision Cross Section; *Valentine, Stephen; Clemmer, David; Indiana University, Indiana.

PHARMACEUTICAL DISCOVERY AND DEVELOPMENT I

TOE	10:15	Mass Spectrometry on the Critical Path to Drug Discovery and Development; *Carr, Steven A.; Annan, Roland S.; Chen, Susan L.; Huddleston, Michael J.; Hemling, Mark E.; James, Carl; Zappacosta, Francesca; Zhang, Xiaolong; SmithKline Beecham Pharmaceuticals, King of Prussia, PA.
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TOE	10:35	Rapid Pharmacokinetic Screening in the Mouse using Sample Pooling and HPLC-API/MS/MS; *Bryant, Matthew; Hsieh, Yunsheng; Liu, Ming; Korfsmacher, Walter; Gruela, Grace; Wang, Shiyong; Wolf, Frederick; Yaremko, Bohdan; Schering-Plough Research Institute, Kenilworth, NJ.	TOF	10:35	Chemical Ionization Membrane Introduction Mass Spectrometry of Involatile and Polar Species; Soni, Manish; Gardner, William; Callahan, John; *McElvany, Stephen; Naval Research Laboratory, Washington, D.C.
TOE	10:55	Integration of FTICR-MS Technology into the Drug Development Process; *Winger, Brian; Cooke, Gary; Kemp, Craig; Dorman, Douglas; Lilly Research Laboratories, Indiana.	TOF	10:55	MALDI-TOF Analysis of Potential Protein BW Agents; *Darby, Shauna M.; Miller, Mark L.; Allen, Ralph O.; University of Virginia.
TOE	11:15	The Automation of a Caco-2 Absorption Screen; *Richards, Don; Pfizer Central Research.	TOF	11:15	Methods for Assessing Fetal Exposure to Drugs of Abuse; *Bartlett, Michael; University of Georgia.
TOE	11:35	A Generic LC-MS/MS Method to Assess the Extent of Acyl Glucuronide Formation In Vitro and In Vivo; *Hop, Cornelis E.; Wang, Zhen; Pang, Jianmei; Lyons, Kathy; Leung, Kwan H.; Merck Research Laboratories.	TOF	11:35	Solid Phase Extraction and MALDI-Ion Trap Mass Spectrometry for the Determination of Benzoyllecgonine in Urine; *Hall, Brad; Brodbelt, Jennifer; University of Texas at Austin.
TOE	11:55	Automation of the Analytical Mass Spectrometry Laboratory for the Pharmaceutical Sciences; Tong, Hui; Bell, Duncan; Huang, Nelson; Tabei, Keiko; Kruppa, Gary; *Siegel, Marshall; Wyeth-Ayerst Research, NY.	TOF	11:55	Discrimination Power of ICP-MS in the Forensic Analysis of Glass Fragments; *Almirall, José; Bouza, Angela; Furton, Kenneth; Duckworth, Douglas; Morton, Shelby; Bayne, Charles; Koons, Robert; International Forensic Research Institute/Florida International University.

PHARMACEUTICAL DISCOVERY AND DEVELOPMENT II

TOE	3:00	Rapid and Sensitive CE-FTICR Mass Spectrometry of Proteomes; *Smith, Richard; Pasa Tolic, Ljiljana; Anderson, Gordon; Bruce, James; Lipton, Mary; Martinovic, Suzana; Jensen, Pamela; Udseth, Harold; Pacific Northwest National Laboratory.
TOE	3:20	Screening for Xenobiotic Electrophilic Metabolites Using Pulsed Ultrafiltration Mass Spectrometry; *van Breeman, Richard B.; Nikolic, Dejan; Fan, Peter W.; Bolton, Judy L.; University of Illinois at Chicago.
TOE	3:40	Protein Fingerprint of Recombinant Adenovirus Type 5 Vector by Mass Spectrometry in Combination with In-Gel Digestion and Database Search; *Liu, Yan-Hui; Mirza, Ujoor; Bondoc, Larry; Porter, Fred; Tang, John; Pramanik, Birendra N.; Schering-Plough Research Institute.
TOE	4:00	Applications of LC/MS in Real World Drug Discovery Metabolism Studies; *Yergey, James; Nicoll-Griffit, Deborah; Li, Chun; Chauvet, Nathalie; Silva, Jose; Trimble, Laird; Merck Frosst Canada.
TOE	4:20	Specific Affects of Antiviral Agents on Viral Structure Mobility; *Wei, Jing; Schneemann, Anette; Chiang, Jay; Johnson, Jack; Stuzdak, Gary; The Scripps Research Institute.
TOE	4:40	Detection of Drug-Drug Interactions by ESI-FTMS; *Lorenz, Sarah; Wood, Troy; State University of New York at Buffalo.

FORENSIC APPLICATIONS

TOF	10:15	The Role of Forensic Mass Spectrometry in Counterterrorism; *Fetterolf, Dean; FBI Laboratory.
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ISOTOPE RATIO ANALYSIS

TOF	3:00	Effect of Collisional Damping on the Precision of Isotope Ratio Measurement by Quadrupole MS; *Bandura, Dmitry R.; Baranov, Vladimir I.; Tanner, Scott D.; PE-SCIEX, Concord, Ontario, Canada.
TOF	3:20	Disappearance of the Concentration Dependence of Methyl Palmitate Isotope Ratios by MAB Ionization: A New Ionization Technique for Stable Isotope Mass Spectrometry; *Fagerquist, Clifton K.; Faubert, Denis; Bertrand, Michel J.; University of California, Berkeley, CA.
TOF	3:40	Measurement of Intracellular Homocysteine Kinetics in Humans using Stable Isotope Tracers and Mass Spectrometry; *MacCoss, Michael J.; Fukagawa, Naomi K.; Matthews, Dwight E.; University of Vermont, Departments of Medicine and Chemistry.
TOF	4:00	Specific and sensitive assay for 3-Nitro-tyrosine in Biological Tissues and Fluids by LC/MS/MS; *Yi, Donghui; Ingelse, Benno; Duncan, Mark; Smythe, George; Ray Williams Biomedical Mass Spectrometry Facility, UNSW, NSW, Australia.
TOF	4:20	CRIMS with nitrogen reactant gas: A new strategy for measuring hydrogen and deuterium; Lecchi, Paolo; *Abramson, Fred P.; George Washington University School of Medicine, Washington DC.

PHARMACOLOGY AND TOXICOLOGY I

WOA	10:15	Mass Spectrometry of Biology Active Lipid Mediators Derived from Arachidonic Acid; *Murphy, Robert C.; National Jewish Medical & Research Center
WOA	10:35	HILIC Chromatography/ESI/MS in Pharmacological Studies of NAD Formation in Cultured Cells; Wang, Tao-Chin; Gallagher, Patrick; Heyes, Melvyn; *Markey, Sanford; National Institute of Mental Health.

WOA 10:55	Analytical Approaches for the Identification of Novel and Unusual Drug Metabolites; *Prakash, Chandra; Amin, Kamel; Kim, Johnson; Zhuang, Miao; Kevin, Colizza; Pfizer Central Research, CT.
WOA 11:15	Atmospheric Pressure Negative Chemical Ionization Mass Spectrometry in Pharmacology and Toxicology; *Singh, Gurkeerat; Fenn, P. Thomas; Blair, Ian A.; University of Pennsylvania, PA.
WOA 11:35	Applications of size exclusion chromatography and CRIMS.; *Lecchi, Paolo; Abramson, Fred P.; George Washington University School of Medicine.
WOA 11:55	Drug Metabolites - Another Caveat of LC-MS/MS Analysis; *Zhang, Kanyin; Vekich, Sylvia; Kaminetz, Josh; Creegan, James; Hidy, Bruce; Agouron Pharmaceuticals, Inc., CA and PPD Pharmaco, VA.

PHARMACOLOGY AND TOXICOLOGY II

WOA 3:00	Novel Approaches to the Quantitative Determination of Drugs; *Henion, Jack; Analytical Toxicology, Cornell University.
WOA 3:20	Molecular Dosimetry Of 1,3-Butadiene Using LC/API/MS/MS.; *Chaudhary, A.K.; Oe, T.; Kambouris, S.J.; Blair, I.A.; Eli Lilly and Company.
WOA 3:40	Application of Accelerator Mass Spectrometry (AMS) in Human Subjects Research; *Turteltaub, Kenneth; Vogel, John; Dingley, Karen; Bench, Graham; Lang, Nickolas; Roberts, Mark; Lawrence Livermore National Laboratory.
WOA 4:00	Detection of In-Vitro and In-Vivo DNA Adducts by Capillary Separation Techniques Coupled to ESI-MS; *Gangl, Eric; Turesky, Robert; Vouros, Paul; Northeastern U. Chemistry Dept. and Barnett Institute, MA.
WOA 4:20	Analysis of the N-oxidation Metabolite of MelQx in Human Urine; *Stillwell, W. G.; Turesky, R. J.; Sinha, R.; Tannenbaum, S. R.; Massachusetts Institute of Technology, Massachusetts.
WOA 4:40	LC/MS Analysis of in-vivo Catechol Estrogen Adducts; *Zhao, Jiang; Zhang, Likang; Devanesan, Prabu; Todorovic, Rosa; Li, Kaiming; Rogan, Eleanor; Cavalieri, Ercole; Gross, Michael; Washington University, MO and Eppley Institute for Research in Cancer, NE.

CE/MS INSTRUMENTATION AND METHODS

WOB 10:15	Capillary Electrophoresis/Mass Spectrometry: From One-Meter Capillaries to Chip-Based Devices; *Henion, Jack; Heinig, Katja; Wachs, Tim; Schultz, Gary; Corso, Tom; Cornell University and Advanced BioAnalytical Services
WOB 10:35	CE-ESI/TOFMS and CE-ESI/MS/MS Analysis of Protein Digests; McComb, Mark E.; Krutchinsky, Andrew; Ens, Werner; Standing, Kenneth G.; *Perreault, Helene; University of Manitoba, Canada.
WOB 10:55	Microchip ESI Source for Capillary Electrophoresis Time-of-Flight Mass Spectrometry; *Lazar, Julia M.; Jacobson, Stephen C.; Foote, Robert S.; Ramsey, J. Michael; Ramsey, Roswitha S.; Oak Ridge National Laboratory, TN.

WOB 11:15	A Microfabricated Device for Coupling for Capillary Electrophoresis and MALDI-MS; *Lebrilla, Carlito; Liu, Jun; Tseng, Ken; Department of Chemistry, University of California, Davis, CA.
WOB 11:35	On-Line Multiplex CE-MALDI/TOF MS Using a Capillary Array Interface; *Preisler, Jan; Hu, Ping; Karger, Barry; Barnett Institute/Northeastern University, MA.
WOB 11:55	Chip-CE-ESMS for Rapid Separation of Trace Level Protein Digests; *Li, Jianjun; Thibault, Pierre; Chernushevich, Igor; Wang, Can; Skinner, Cameron; Harrison, Jed; Kelly, John; Institute for Biological Sciences/100 Sussex Dr./Ottawa, Ontario.

MALDI APPLICATIONS AND METHODS

WOB 3:00	Quantitative Matrix-Assisted Laser Desorption Ionization Mass Spectrometry; *Ammon, Daniel; Soltys, Christine; Valint, Paul; Grobe, George; Gardella, Joseph; Wood, Troy; Bausch & Lomb Healthcare/SUNY-Buffalo.
WOB 3:20	A New Method for High-Sensitivity Peptide Sequencing Using Postsource Decay MALDI Mass Spectrometry; *Keough, Thomas; Youngquist, Scott; Lacey, Martin; The Procter and Gamble Company.
WOB 3:40	Micro-Pipette Tip Affinity Columns for MS; *Hornshaw, Martin; Perkin Elmer Biosystems MA.
WOB 4:00	Phosphatase Kinetics Measured by MALDI-TOFMS; *Houston, Christopher; Taylor, William; Widlanski, Theodore; Reilly, James; Indiana University, Indiana.
WOB 4:20	Post-Source Decay Characterization of Macromolecular Complexes; *Nicola, Anthony J.; Johnston, Murray V.; Larsen, Barbara S.; Dept. of Chemistry and Biochemistry, University of Delaware, Newark, DE.
WOB 4:40	Protein Fingerprinting of Tissue Slices by MALDI Time-Of-Flight Mass Spectrometry; *Chaurand, Pierre; Masumori, Naoya; Matusik, Robert J.; Kasper, Susan; Stoeckli, Markus; Coffey Jr, Robert J.; Caprioli, Richard M.; Mass Spectrometry Research Center, Vanderbilt University School of Medicine.

FUNDAMENTALS OF TRAPPED IONS

WOC 10:15	Fragile Ions in the Quadrupole Ion Trap Mass Spectrometer; *McClellan, Joseph E.; Mulholland, Joseph J.; Murphy III, James P.; Yost, Richard A.; University of Florida.
WOC 10:35	Chemical Mass Shifts in Ion Trap Mass Spectrometry; *Wells, J. Mitchell; Plass, Wolfgang R.; Patterson, Garth E.; Ouyang, Zheng; Badman, Ethan R.; Cooks, R. Graham; Purdue University Department of Chemistry, W. Lafayette, IN.
WOC 10:55	Application of a Thermal Kinetic Model for Ion Trap CID to Diatomic Ions; *Goeringer, Douglas; Duckworth, Douglas; McLuckey, Scott; Oak Ridge National Laborator.

WOC 11:15	Ghost Peaks Resulting from Non-Linear Resonances Demonstrate Interferences Between Multipole Fields; *Gonnet, Florence; Favre, Amélie; Kocher, Florence; Tabet, Jean-Claude; Université Pierre et Marie Curie, Paris, France.
WOC 11:35	Modifications to an Internal Ionization Quadrupole Ion Trap to Implement Negative Ion Chemical Ionization; *Lynn, Bert; Sichilongo, Kwenga; Mississippi State University.
WOC 11:55	Dual-Ended FT Non-Destructive Detection in Hyperbolic and Cylindrical Quadrupole Ion Traps; *Badman, Ethan R.; Patterson, Garth E.; Wells, J. Mitchell; Cooks, R. Graham; Purdue University Department of Chemistry, West Lafayette, IN.

APPLICATIONS OF LC/MS

WOC 3:00	Developments in Hydrophilic Interaction Chromatography - Electrospray Mass Spectrometry for Drug Discovery; *Strege, Mark; Eli Lilly and Company, Indiana.
WOC 3:20	Establishing LC-MS Confirmation Criteria; *Goodenow, Dayan; Duffy, Michael; DuPont Agricultural Products.
WOC 3:40	Simultaneous Determination of Zearalenone and its Metabolites .alpha- and .beta-Zearalenol in Different Beers by HPLC-MS/MS; *Zöllner, Peter; Berner, Diana; Jodlbauer, Justus; Lindner, Wolfgang; University of Vienna, Austria.
WOC 4:00	Determination of Tetracyclines in Kidney by LC/MS/MS with On-Line Extraction and Clean-Up; *Van Eeckhout, Nico; Castro Perez, José; Claereboudt, Jan; Van Peteghem, Carlos; Laboratory of Food Analysis - University of Ghent - Belgium.
WOC 4:20	Development of Single-Bead LC/UV/MS Methods for Drug Discovery; *Tang, Liang; Fitch, Bill; Affymax Research Institute, California.
WOC 4:40	Analysis of Naturally Processed MHC Class II Peptides from Exogenous and Endogenous Proteins; *White, Forest M., Marto, Jarrod A.; Lippolis, John; Luckey, C. John; Shabanowitz, Jeffrey; Engelhard, Victor H.; Hunt, Donald F.; Dept. of Chemistry, University of Virginia, Virginia.

FUNDAMENTALS OF ION ACTIVATION & DISSOCIATION I

WOD 10:15	Methods for Ion Activation to Achieve Structurally Useful Fragmentation; *Boyd, Robert K.; National Research Council Canada
WOD 10:35	High-Energy [C,H₃,N,O] Cations and Molecules; Polasek, Miroslav; *Turecek, Frantisek; University of Washington, Seattle, WA.
WOD 10:55	Vibrational Activation Dissociation of [M + nH]⁽ⁿ⁻¹⁾⁺. Peptide Radical Cations Produced by Electron Capture Dissociation; *Zubarev, Roman; Chemistry Department, Odense University, Denmark.
WOD 11:15	Generation and Characterization of Metallated Radical Cations From Di- and Tripeptides; *Talley, Jody M.; Polce, Michael J.; Wesdemiotis, Chrys; The University of Akron.

WOD 11:35	The Dissociation and Molecular Modeling of [M-nH]ⁿ⁺ for Insulin Chain A, Hirudin and Fibrinopeptide B; *Ewing, Nigel; Cassady, Carolyn; Miami University, Ohio.
WOD 11:55	Infrared Multiphoton Dissociation for Multiplexed Tandem Fourier Transform Mass Spectrometry of Peptides; *Masselon, Christophe; Anderson, Gordon A.; Harkewicz, Richard; Bruce, James E.; Pasa-Tolic, Ljiljana; Smith, Richard D.; Pacific Northwest National Laboratory, WA.

FUNDAMENTALS OF ION ACTIVATION & DISSOCIATION II

WOD 3:00	Energetics From IR Laser Photodissociation in Fourier-Transform Mass Spectrometry; *Jockusch, Rebecca A.; Paech, Kolja; Williams, Evan R.; University of California, Berkeley.
WOD 3:20	Determination of Collisional Energy Transfer Efficiency by FTICRMS With a Novel Pump-Probe Method; *Heeren, Ron M.A.; Koster, Sander; Drahos, Laszlo; Vekey, Karoly; FOM Institute for Atomic and Molecular Physics, Netherlands.
WOD 3:40	Surface Modification using Low Energy Reactive Ion Beams for Halogen Transfer and C-C Bond Formation; *Cooks, R. Graham; Shen, Jianwei; Grill, Verena; Evans, Chris; Wade, Nathan; Thomas, Peter; Purdue University.
WOD 4:00	Surface-Induced Dissociation for Tandem Time-of-Flight Mass Spectrometry; *Haney, Lisa; Leigh, Nathan; Riederer, Donald; University of Missouri-Columbia.
WOD 4:20	In-source decay of MALDI-TOF Ions Utilizing Short Desorption Laser Wavelengths; *Harris, William; Reilly, James; Indiana University, IN.
WOD 4:40	Photodissociation of Peptide-Copper Complexes in a Time-of-Flight Mass Spectrometer; *Barbacci, Damon; Hettick, Justin; Shields, Sharon; Russell, David; Texas A&M University.

NON-COVALENT INTERACTIONS I

WOE 10:15	Massively Parallel High-throughput Screening Using Mass Spectrometry. Utility for Drug Discovery Against RNA Targets; *Griffey, Richard; Ecker, David; Sasmor, Henri; Manalili, Sheri; Hofstadler, Steven; Lowery, Kristen; Crooke, Stanley; Ibis Therapeutics, Carlsbad, CA.
WOE 10:35	Microdialysis-electrospray Ionisation Mass Spectrometry as a New Tool in Protein-ligand Binding Studies; *Boehm, Guenter; Schneider, Klaus; SmithKline Beecham Pharmaceuticals, UK.
WOE 10:55	Noncovalent Complexes of BPTI and Its Target Enzymes: Gas-phase Stability Studied by Nano&ESI MS/MS; *Nesati, Victor; Chen, Yu-Luan; Collings, Bruce; Douglas, Donald; University of British Columbia, Vancouver, Canada.
WOE 11:15	Study of the Noncovalent Structure of Proteasome Activator Proteins by ESI-TOF MS; *Krutchinsky, Andrew; Standing, Kenneth; Zhang, Zhiguo; Rechsteiner, Martin; Huang, Lan; Yao, Yi; Wang, C.C; Burlingame, A.L.; Physics Dept, University of Manitoba, Winnipeg, MB, Canada.

- WOE 11:35 **Characterization of 'Helix Clamp' by ESI and MALDI-TOF MS;** *Lin, Shanhua; Cotter, Robert; Woods, Amina; *The Johns Hopkins University School of Medicine.*
- WOE 11:55 **High Resolution Tandem Mass Spectrometry of IgE Antibodies (190 kDa) and their Receptorbinding;** *Fridriksson, Einar; Horn, David; Holowka, David; Baird, Barbara; McLafferty, Fred; *Cornell University, NY.*

NON-COVALENT INTERACTIONS II

- WOE 3:00 **Noncovalent Glyoxalase I (*E. coli*) - Inhibitor Interactions Studied by Nanoflow ESI-MS;** Ellen, Stokvis; Versluis, Cees; Clugston, Susan; Honek, John; *Heck, Albert; *Biomolecular Mass Spectrometry, Utrecht University.*
- WOE 3:20 **Probing Non-Covalent Complexes Formed By Partial Peptides of the p24 Protein Family Using Nano ESI-MS;** *Fligge, Thilo A.; Reinhard, Constanze; Harter, Cordula; Wieland, Felix; Przybylski, Michael; *University of Konstanz, Germany.*
- WOE 3:40 **Study of Non-Covalent Cyclodextrin Inclusion Complexes by Ionspray Mass Spectrometry;** *Raffaelli, Andrea; Pucci, Sergio; Lucarotti, Simone; Salvadori, Piero; *Centro CNR Macromolecole Stereordinate ed Otticamente Attive, Pisa, Italy.*
- WOE 4:00 **Analysis of Vitamin D Receptor and Retinoid X Receptor Transcription Complexes by Micro ESI-MS;** *Craig, Theodore A.; Benson, Linda M.; Tomlinson, Andy J.; Veenstra, Timothy D.; Kumar, Rajiv; Naylor, Stephen; *Mayo Foundation.*
- WOE 4:20 **Dynamics of GroEL Examined by Hydrogen Exchange;** *Chen, Jiwen; Smith, David; *University of Nebraska.*
- WOE 4:40 **Detection of Macromolecular Complexes within an Electrospray Time of Flight Mass Spectrometer;** Rostom, Adam; Tito, Mark; *Robinson, Carol; *Oxford University.*

PROCESS MONITORING

- WOF 10:15 **CE, EI, and MIP Ionization of Volatile, Semivolatile, and Organometallic Compounds using MIMS;** Allen, T. M.; Cisper, M. E.; Hemberger, P. H.; *Wilkerson, Jr., C. W.; *Los Alamos National Laboratory.*
- WOF 10:35 **Portable Mass Spectrometers and Ion Mobility Spectrometers for On-Site Analysis of VOCs;** *Volmer, Dietrich A.; Lehmann, Martin; Merck Analytical Research, Darmstadt, Germany.
- WOF 10:55 **Mass Spectrometric Analysis of Isomers in Complex Process Streams;** *Bennett, Kevin; Cook, Kelsey; *Department of Chemistry, University of Tennessee - Knoxville, TN.*
- WOF 11:15 **Analysis of Ultra High Purity Chemicals Used in Semiconductor Applications by ICP-MS;** *Scott, Anderson, David; Bollinger, Anthony; Schleisman, Air Liquide Electronics Chemicals & Services.

- WOF 11:35 **Simplified Identification of Monoclonal Antibodies and Glycoproteins by Mass Spectrometry for Production Control Systems;** Truong, Long; Chin, Ed; Shyong, Baojen; Herrmann, Joerg; Harris, Reed; *Ling, Victor; Genentech, Inc., So. San Francisco, CA.
- WOF 11:55 **Mobile REMPI-TOFMS Instrumentation Applied for On-Line Trace Analysis for Process Control and Applied Research;** *Ralf, Zimmermann; Hans-Jörg, Heger; Ralph, Dorfner; Martin, Blumenstock; Antonius, Kettrup; GSF-Forschungszentrum für Umwelt und Gesundheit.

ENVIRONMENTAL APPLICATIONS

- WOF 3:00 **Using Mass Spectrometry to Measure Fungal Biomass in Indoor Air;** *Baxter, Christina; DeJesus, Victor; Browner, Richard; Bayer, Charlene; *Georgia Institute of Technology, Georgia.*
- WOF 3:20 **Real-Time Single Particle Analysis of Ambient Aerosols in the San Joaquin Valley;** *Whiteaker, Jeffrey; Suess, David; Prather, Kimberly; UC Riverside, CA.
- WOF 3:40 **GC/ITMS Measurement of Polar and Oxygenated Organics on Fine Particles from Vehicle Exhaust;** *Rao, Xin; Frazey, Paul; Charles, Judith; *University of California-Davis, California.*
- WOF 4:00 **Characterization and Use of a New Air Sampling Module for Direct Sampling Ion Trap Mass Spectrometry;** *Palmer, Peter; Fan, Xinghua; *San Francisco State University.*
- WOF 4:20 **In Situ VOC Detection with Direct Sampling Ion Trap Mass Spectrometry and Direct Push Sampling;** *Davis, William; Furey, John; Costanza, Jed; *U.S. Army Engineering Reserch and Development Center.*
- WOF 4:40 **A Jet Fuel (JP-8) Spill Site: FT-ICR MS Compositional Monitoring of the Weathering Process;** *Rodgers, Ryan; Blumer, Erin; Marshall, Alan; *Florida State University, Florida.*

MULTIPLY CHARGED IONS

- ThOA 10:15 **Ion - Adduct Molecule Bonding in Multiply Charged Ions;** Peschke, Michael; Blades, Arthur; *Kearle, Paul; *University of Alberta, Canada.*
- ThOA 10:35 **Low Energy CAD Studies of Doubly Charged Positive Ions Containing Cu(II) Complexed with Amino Acids;** Seto, Carmai; *John, Stone; Queen's University/Ontario.
- ThOA 10:55 **An ESI-MS Perspective on Protein Refolding;** Zhan, Dongliang; *Fenn, John B.; Virginia Commonwealth University.
- ThOA 11:15 **Correlation between Solution- and Gas-Phase Protein Conformation: H/D Exchange and ESI FT-ICR MS;** *Marshall, Alan; Wang, Fang; Freitas, Michael; Sykes, Brian; *Florida State University, Florida.*
- ThOA 11:35 **Multiply Charged Electrospray Ions Form Via the Dole Mechanism;** *de la Mora, Juan F.; Yale University, Mechanical Engineering.

ThOA 11:55 **The Origin of [M-nH+mX]^{(m-n)+} Ions (X=Alkali metal ions) in Electrospray Mass Spectrometry of Peptides ;** *Siu, K.W. Michael; Rodriguez, Christopher F.; Fournier, Rene; Chu, Ivan K.; Hopkinson, Alan C.; Department of Chemistry, York University, Canada.

METAL IONS IN BIOLOGY

- ThOA 3:00 **Metal (Na, Ca, Mn, Co, Ni, Cu, Zn) Mediated Conformations of Insulin Chain A;** *Taraszka, John; Clemmer, David; Indiana University at Bloomington.
- ThOA 3:20 **ESI-FTICR of Metalloproteins: Metal Binding Effects on the Observed Molecular Weight;** Johnson, Keith; Adams, Michael; *Amster, Jonathan; University of Georgia.
- ThOA 3:40 **Synthesis, Hydrolysis, and Analysis of Metal-Ligand-Oligosaccharide Complexes Using Microwave-MS.;** *Desaire, Heather; Leary, Julie; University of California, Berkeley.
- ThOA 4:00 **Evaluation of Selective Metal-Ion Binding to Phosphorylated Biomolecules;** *Hettich, Robert; Schnier, Paul; Buchanan, Michelle; Oak Ridge National Laboratory.
- ThOA 4:20 **The Copper(I) Ion Affinities of Simple Aliphatic Dipeptides;** *Cerda, Blas A.; Wesdemiotis, Chrys; Chemistry Department, The University of Akron.
- ThOA 4:40 **Detection of Flavonoid Metal Complexes with an Auxiliary Ligand Using HPLC ESI-MS;** *Satterfield, Mary; Brodbelt, Jennifer S.; The University of Texas at Austin.

NUCLEIC ACID ADDUCTS

- ThOB 10:15 **Analysis of Urinary DNA-adducts by LC/Atmospheric Pressure Negative Chemical Ionization/Tandem MS;** *Blair, Ian A.; Rindgen, Diane; Fenn, P. Thomas; Xu, Keyang; Singh, Gurkeerat; University of Pennsylvania, PA.
- ThOB 10:35 **Detection of Bulky DNA Adducts Formed in Human Placenta with Structural Information Using Matrix-Assisted Laser Desorption Ionization and Post-Source Decay;** *Chiarelli, M. Paul; Huffer, Duane M.; Gooden, Jonathon K.; McDaniel, L. Patrice; Beland, Frederick A.; Department of Chemistry, Loyola University.
- ThOB 10:55 **Oxidative Damage of Nucleic Acid Constituents and Oligonucleotides Monitored by ESI-ITMS;** *Harsch, Andreas; Marzilli, Lisa; Vouros, Paul; Barnett Institute, Northeastern University, Boston, MA.
- ThOB 11:15 **Quantitative Analysis of DNA Oxidation Products Using Negative Ion Electrospray LC-MS-MS;** *Wainhaus, Samuel B.; Shen, Lixin; Xiong, Yansan; Xu, Xiaoying; van Breemen, Richard B.; University of Illinois at Chicago, College of Pharmacy.
- ThOB 11:35 **Nuclease P1 Digestion Combined with Tandem Mass Spectrometry for the Structure Determination of DNA Photoproducts;** *Wang, Yinsheng; Taylor, John-Stephen; Gross, Michael L.; Washington University in St. Louis.

ThOB 11:55 **Electrospray and Tandem Mass Spectrometry of Ligand-DNA Complexes;** *Sheil, Margaret; Beck, Jenny; Colgrave, Michelle; Kapur, Amit; Iannitti-Tito, Paula; Wickham, Geoff; University of Wollongong, Australia.

ANALYSIS OF LOW MOLECULAR WEIGHT COMPOUNDS

- ThOB 3:00 **Accurate Mass-based Identification of Small Molecules: Fundamental and Practical Considerations;** *Peltier, John; Takach, Edward; Zhou, Joe; Chen, Xunming; Gabeler, Steve; PE Biosystems.
- ThOB 3:20 **Detection of Chlorination By-products in Drinking Water Using CRIMS;** *Wingate, Julia; Glish, Gary; University of North Carolina, North Carolina.
- ThOB 3:40 **Quantification of Low Mass Analytes in Biological Samples by MALDI-TOF;** *Fung, Kim; Bucknall, Martin; Duncan, Mark; University of New South Wales, Sydney, Australia.
- ThOB 4:00 **Mass Spectra of Malonic Acid Fullerenes;** *Grayson, Michael; Lovett, Eva; Dugan, Laura; Wang, Yinsheng; Gross, Michael; Chemistry Department/Washington/University/St Louis MO.
- ThOB 4:20 **Intermediacy of Ion Neutral Complexes in the Fragmentation of Short-Chain Dialkyl Sulfides;** *Budzikiewicz, Herbert; Filsack, Gunther; Institut fuer Organische Chemie, Universitaet zu Koeln, Germany.
- ThOB 4:40 **Determination of Organic Sulfonates and Sulfates in Aqueous Samples by Combined Ion-Pair Liquid Chromatography and Electrospray-Mass Spectrometry;** Ouyang, Shi; *Vairavamurthy, Murthy; Brookhaven National Laboratory.

LC/MS INSTRUMENTATION AND METHODS

- ThOC 10:15 **UltraHigh Pressure Capillary LC with a Hybrid Quadrupole/TOF Tandem MS for Proteomic Studies;** *Moseley, Arthur; Tolley, Luke; Jorgenson, James; Glaxo Wellcome Research Institute, NC.
- ThOC 10:35 **Low-pressure Nanoscale LC-MS for High Throughput Biomolecule Analysis;** *Valaskovic, Gary; New Objective, Inc.
- ThOC 10:55 **Rapid API TOF State Switching with Fast LC-MS;** *Whitehouse, Craig; Gulcicek, Erol; Andrien, Bruce; Shen, Shida; Analytica of Branford, Inc. Connecticut.
- ThOC 11:15 **Exact mass LC-MS and MS/MS on Orthogonal Time-of-Flight Mass Analyzers Using Automated Rapid Switching Between Separate Sample and Reference Sprays;** *Eckers, Christine; Haskins, Neville; Wolff, Jean-Claude; Bateman, Robert; Hoyes, John; Preece, Stephen; SmithKline Beecham Pharmaceuticals UK and Micromass UK.
- ThOC 11:35 **Evaluation of Electrospray Transport CID for the Generation of Searchable Libraries;** *Hough, Julie; Haney, Carol; Voyksner, Robert; Bereman, Robert; North Carolina State University, North Carolina.

ThOC 11:55 **Fast LC/MS for Combinatorial/ Parallel Synthesis and Open Access Applications;**
**Hayward, Mark; Munson III, James; Hargiss, Leonard; Novartis Pharmaceuticals - Core Technologies - Analytics/BioNMR.*

TOF INSTRUMENTATION

- ThOC 3:00 **Characterization of a Linear Ion Trap Time-of-Flight Mass Spectrometer with MSⁿ Capabilities;**
**Collings, Bruce A.; Campbell, Jennifer M.; Douglas, Donald J.; Dept. of Chemistry, University of British Columbia, B.C., Canada.*
- ThOC 3:20 **High-Resolution Ion Mobility/Time-of-Flight MS;**
**Li, Jianwei; Clemmer, David; Indiana University, Indiana.*
- ThOC 3:40 **Acquisition of High Energy CID and Low Energy SID Spectra on a JEOL Hybrid Sector-TOF Instrument;**
*Nikolaev, Eugene; Somogyi, Arpad; *Vysocki, Vicki; Martin, Charles; Samuelson, Gary; Department of Chemistry, University of Arizona, AZ.*
- ThOC 4:00 **A Hybrid TOF/ESI System for Large Molecule Analysis: Investigations of Chemical Noise Sources in MALDI-MS;**
**Christian, Noah; Reilly, James; Indiana University, Indiana.*
- ThOC 4:20 **High Resolution Ortho-TOF MS Equipped with Molecule-Ion Reactor (MIR) and Electrospray Ion Source;**
**Dodonov, Alexander; Kozlovski, Vyatcheslav; Sulimenkov, Ilia; Raznikov, Valeri; Holomeev, Alexander; Zehn, Zhou; Horwath, Thomas; Wollnik, Hermann; Institute of energy Problems of Chemical Physics(branch) RAS, Russia.*
- ThOC 4:40 **Detailed Performance Characteristics of a New Discrete Dynode TOF Detector;**
**Stresau, Dick; Hunter, Kevin L.; ETP Electron Multipliers.*

CARBOHYDRATES AND GLYCOBIOLOGY I

- ThOD 10:15 **Structural Characterization of *Neisseria gonorrhoeae* LOS;**
**Reinhold, Vernon; Reinhold, Bruce; Ye, Song; Rice, Peter; Stein, Daniel; University of New Hampshire, Boston University, University of Maryland.*
- ThOD 10:35 **Structural Characterization of Metallated Lipooligosaccharides from *Haemophilus influenzae* Using ESI Ion trap and FT-ICR Mass Spectrometry;**
*Mark, Cancilla; Gaucher, Sara; Phillips, Nancy; Gibson, Brad; *Leary, Julie; UC Berkeley/UC San Francisco, California.*
- ThOD 10:55 **Probing Glycosyltransferase Gene Expression in *H. Influenzae* and *N. Meningitidis* Through the Monitoring LPS Biosynthetic Products;**
**Thibault, Pierre; Martin, Adele; Cox, Andrew; Hood, Derek; Moxon, Richard; Richards, James; Institute for Biological Sciences, Ottawa, Ontario*
- ThOD 11:15 **Analysis of *Haemophilus* Carbohydrates Expressed as Chimeric LPS in *E. Coli* by MALDI and ESI-Q-TOF;**
**Phillips, Nancy J.; Baldwin, Michael A.; Apicella, Michael A.; Gibson, Bradford W.; University of California, San Francisco, CA.*

ThOD 11:35 **Glycosylation Protects an Invertebrate Neurotensin from Enzymatic Degradation;**
**A.G., Craig; M., Akhtar; K., Schmidt; T., Norberg; The Salk Institute, La Jolla, CA.*

ThOD 11:55 **Sequencing of Pectin Fragments and its Use to Determine Pectinase Specificities;**
**Koerner, Roman; Limberg, Gerrit; Christensen, Tove M.I.E.; Mikkelsen, Joern Dalgaard; Roepstorff, Peter; Odense University, Department of Molecular Biology.*

CARBOHYDRATES AND GLYCOBIOLOGY II

- ThOD 3:00 **Qualitative and Quantitative Analysis of the Glycosylation Pattern of Recombinant Proteins;**
*Hronowski, Xiaoping; Kaffashan, Azita; Zeng, Chenhui; *Domon, Bruno; Biogen Inc., Cambridge MA.*
- ThOD 3:20 **Structure Analysis of Underivatized Oligosaccharides Using psd with CID Fragmentation in MALDI MS;**
*Cozzolino, Rosaria; *Garozzo, Domenico; Spina, Emanuela; CNR Istituto per la Chimica e la Tecnologia dei Materiali Polimerici.*
- ThOD 3:40 **The Use of MALDI-FTMS to Identify Host-Guest Complexes Involving Lectins;**
**Tseng, Ken; Wang, Hao; Bonnell, Barry; Hedrick, Jerry; Lebrilla, Carlito; Department of Chemistry, University of California, Davis.*
- ThOD 4:00 **Endgroup Analysis of Oligosaccharides: A GC-MS/MS Method to Distinguish Aldohexoses from Ketohexoses;**
*Fang, Tammy; *Bendiak, Brad; University of Colorado Health Sciences Center, Colorado.*
- ThOD 4:20 **Mass Spectrometric Strategies for Characterization of O-glycosylation;**
**Alving, Kim; Paulsen, Hans; Schmidt, Sigrid; Geyer, Hildegard; Geyer, Rudolf; Peter-Katalini, Jasna; Inst.f.Med.Physics and Biophysics, University of Muenster, Germany.*
- ThOD 4:40 **Collision Induced Dissociation of Disaccharide Anomeric Pairs with Incremented Alkyl Substitution;**
**Mendonca, Sanford L.; Zhu, Junhua; Cole, Richard B.; Hammer, Robert P.; Laine, Roger A; Louisiana State University, Louisiana.*

QUANTITATION

- ThOE 10:15 **Eliminating Sample Preparation for LC/MS/MS: A Study of direct Plasma Injections Coupled with On-Line Column Switching;**
**Chun, Donald; Flarakos, Jimmy D.; Reimer, Mark L. J.; Li, Feng; Gritsas, Ari; Lahiae, Mathieu; Moreau, Jean-Pierre; Phoenix International Life Sciences.*
- ThOE 10:35 **A Comparison of Quantitation Results obtained from a Q TOF and Triple Quadrupole Mass Spectrometer;**
**Scott, George; Zhao, Jane; Plomley, Jeff; PE Sciex.*

ThOE 10:55	Investigation of the Quantitative Properties of the Q-TOF™ Mass Spectrometer with Electrospray Ionization Using XTC in Various Biological Matrices of Toxicological Interest; *Clauwaert, Karine; Major, Hilary; Van Boeckelaer, Jan; Claereboudt, Jan; De Letter, Els; Lambert, Willy; VandenEeckhout, Elfride; Van Peteghem, Carlos; Laboratory of Toxicology, Fac. Pharm. Sci., University of Ghent, Belgium.	ThOF 11:15	Direct Observation of the Formation Mechanism of Fullerenes in Soot Particles; *Reilly, Peter T. A.; Gieray, Rainer A.; Whitten, William B.; Ramsey, J. Michael; Oak Ridge National Laboratory, TN.
ThOE 11:15	Relative Ion Abundance Measurements of Electrosprayed Biological Molecules from FTICR Mass Spectra; *Gordon, Eric F.; Muddiman, David C.; Virginia Commonwealth University, Virginia.	ThOF 11:35	The FT-ICR-MS: An Analytical Tool for Nanomaterials; *Gaumet, Jean-Jacques; Chety, Rachel; Muller, Jean-François; Lafargue, Paul-Eric; LSMCL, University of Metz, France.
ThOE 11:35	Quantification of Biomolecules by Automated MALDI-TOF Mass Spectrometry; *Bucknall, Martin; Fung, Kim; Duncan, Mark; University of New South Wales, Sydney, Australia.	ThOF 11:55	An Investigation Of Magnesium-Fatty Acid Adduct Formation in Electrospray Ionization Mass Spectrometry; *Ouyang, Shi; Vairavamurthy, Murthy; Brookhaven National Laboratory.
ThOE 11:55	Quantitative Multiplex Clinical Enzymology by Electrospray Ionization Mass Spectrometry; *Gerber, Scott; Scott, C. Ronald; Gelb, Michael; Turecek, Frantisek; University of Washington, Seattle, WA.		

NEW APPLICATIONS OF ELECTROSPRAY IONIZATION	
ThOE 3:00	ESIMS in the Analysis of Trace Species in Gases; *Fuerstenau, Stephen; Kiselev, Pavel; Fenn, John; Jet Propulsion Laboratory, Pasadena, CA.
ThOE 3:20	A Potential Tool for Nanosemiconductor Clusters Analysis: Electrospray Mass Spectrometry; *Gaumet, Jean-Jacques; Strouse, Geoffrey; Pavlovich, James; Univ. of California, Santa Barbara, USA and Univ. of Metz, France.
ThOE 3:40	A Fully Integrated Monolithic Microchip-based Electrospray Device For Microfluidic Separations; *Schultz, Gary A.; Corso, Thomas N.; Advanced BioAnalytical Services, Inc, Ithaca, NY.
ThOE 4:00	Novel Low Flow Sheathless Electrospray Emitters for use in Capillary Elec; *Barnidge, David R.; Nilsson, Stefan; Markides, Karin E.; Department of Analytical Chemistry, Uppsala University, Uppsala Sweden.
ThOE 4:20	Electrospray-Assisted Modification of Proteins; *Maleknia, Simin; Chance, Mark; Downard, Kevin; Albert Einstein College of Medicine.
ThOE 4:40	ESI-MS/MS for Evaluation of Drug Delivery Systems with Anti-Cancer Activity; Boue, Stephen M.; Yang, Ying; Morgan, Lee Roy; *Cole, Richard B.; University of New Orleans, LA.

FUNDAMENTALS OF CLUSTER IONS	
ThOF 10:15	Competitive Processes in Surface-Induced Reactions of Acetone Cluster Ions; *Scheier, Paul; Mair, Christian; Fiegele, Thomas; Biasioli, Franco; Herman, Zdenek; Maerk, Tilmann; Institut fuer Ionenphysik, University Innsbruck.
ThOF 10:35	Ion Storage Techniques at Work in Metal Cluster Research; *Schweikhard, Lutz; Inst. f. Physik, Johannes Gutenberg - Universitat at Mainz/Germany.
ThOF 10:55	Time-Resolved Mass Spectrometric Studies of Fullerenes; *Laskin, Julia; Hadas, Boaz; Maerk, Tilmann; Lifshitz, Chava; Department of Chemistry and Biochemistry, University of Delaware.

CLINICAL APPLICATIONS	
ThOF 3:00	An ESI-TOFMS Method for Detection of Uracil Misincorporation in DNA; *Gimon-Kinsel, Mary; Griener, James; Kamen, Barton; Sensar Larson-Davis (Author 1); UT Southwestern Medical Center at Dallas.
ThOF 3:20	Analysis of Nucleotide Containing Metabolite of Clodronate with Ion-Pair LC-ESI-MS; *Auriola, Seppo; Monkkonen, Hannu; Frith, Julie; Rogers, Michael; Monkkonen, Jukka; University of Kuopio, Finland and University of Aberdeen, UK.
ThOF 3:40	Simultaneous Measurement of Cyclosporin and Tacrolimus in Whole Blood Extracts by LC-MS/MS; *Schnute, W.; Leaver, N.; Wheeler, C.; Dunn, M.; Yacoub, M.; Rose, M.; ThermoQuest Finnigan, San Jose, CA.
ThOF 4:00	Hemoglobin Variant Analysis by MALDI-TOFMS Using Polyurethane Membrane Sample Supports; *McComb, Mark E.; Oleschuk, Richard D.; Bromirski, Maciej P.; Chow, Art; Smith, Moyra; Ens, Werner; Standing, Kenneth G.; Perreault, Helene; University of Manitoba, Canada, University of California, Irvine, CA.
ThOF 4:20	Concurrent Quantification of Quinolinic, Picolinic and Nicotinic acids using ECNI GC-MS; *Smythe, George; Braga, Olga; Grant, Ross; Guillemin, Gilles; Kerr, Steve; Ray Williams Biomedical Mass Spectrometry Facility, UNSW.
ThOF 4:40	Mass Spectrometry for the Standardization of Clinical Chemistry Measurements; *Barr, John; Woolfitt, Adrian; Ospina, Maria; Maggio, Vincent; Vesper, Hubert; Sirimanne, Sarath; Waymack, Parvin; Myers, Gary; Centers for Disease Control and Prevention.

MONDAY POSTERS

Monday posters should be set up 7:30 - 8:00 am and removed after 9:00 pm on Monday. Authors of odd numbered posters will attend their posters 8:45 - 10:15 am. Authors of even numbered posters will attend their posters 1:30 - 3:00 pm. All authors are encouraged to attend their posters during the lunch break on Monday.

SPECIAL TOPICS

- 001 **Further Adventures of the Usenet Newsgroup sci.techniques.mass-spec;** *Bostwick, David; Shealy, Sarah; Bartmess, John; Georgia Institute of Technology, GA and University of Tennessee, TN.
- 002 **Development of a Resource Document to Support Legal and Regulatory Applications of Mass Spectrometry;** Bethem, Robert; Boison, Joe; Chakel, John; *Gale, Jane; Heller, David; Musser, Steven; Bristol-Myers Squibb Co., NJ.

CORPORATE SCIENCE

- MPA 003 **A New Intelligent Annotation Procedure: SNAP;** *Koester, Claus; Holle, Armin; Bruker Daltonik GmbH, Bremen, Germany.
- MPA 004 **Optimizing High Throughput LC/MS Analyses in Drug Discovery;** *Swartz, Michael; Kenney, Beverly; Edwardsen, Brian; Fowler, Patricia; Li, Jeanne; Waters Corporation.
- MPA 005 **New Software Tools to Improve the Throughput of Quantitative Analyses;** *Burton, Lyle; Bonner, Ron; Robson, John; KovariC, Peter; PE Sciex Instruments.
- MPA 006 **Open Access MS/MS on a Triple Quadrupole Mass Spectrometer;** Barry, John P.; *Miller, Jeffrey; Perkin Elmer.
- MPA 007 **TBA**
- MPA 008 **Protein identification using SEQUEST and a Benchtop ion trap mass spectrometer with enhanced sensitivity;** *Chaudhary, Tanuja; Land, Adrian; Mylchreest, Iain; Schwartz, Jae; Senko, Mike; Jardine, Ian; ThermoQuest Finnigan.
- MPA 009 **The Analysis of Amino Acids using APCI LC/MS;** *Schilling, Alexander; Hewlett Packard Co.
- MPA 010 **Optimizing Quadrupole Transmission for Wide Mass Range to 10,000 amu;** *Pedder, Randy; Rodgers, Rich; Wei, Jian; ABB Extrel, Quadrupole Mass Spectrometry, PA, USA.
- MPA 011 **Determination of Protein Sequence Using LC/Ion Trap Mass Spectrometer;** *Lau, Sharon; Szczesniewski, Andre; Chen, Ruidan; Hitachi Instruments, Inc., San Jose, CA.
- MPA 012 **Dual Parallel Probes for Electrospray Sources;** *Shen, Shida; Andrien, Jr., Bruce; Sansone, Michael; Whitehouse, Craig; Analytica of Branford, Inc., CT.
- MPA 013 **Characterization of a Bio-Inert HPLC System Utilizing LC/MS;** *Malikin, Galina; Boyer, Arthur J.; Shimadzu Scientific Instruments, Inc., USA.

ION-MOLECULE REACTIONS

- MPB 014 **A Fourier Transform ICR Mass Spectrometry Study of Fullerene Derivatives;** *Willett, Gary; Zhang, Rui; Gadd, Gerry; Gan, Liangbing; Gao, Zhen; Fisher, Keith; University of NSW.

- MPB 015 **Experimental and Theoretical Studies of Methyl-Cation Transfer among Ar, Kr, Xe, HF, N₂, and CH₃F: Methyl-Cation Affinities;** *Ling, Y.; Cunje, A.; Hopkinson, A. C.; Bohme, D. K.; York University, Canada.
- MPB 016 **Hydration studies of oligonucleotide anions;** Armstrong, Geoff; *Klassen, John; University of Alberta, CANADA.
- MPB 017 **Using Gas Phase Ion-molecule Reactions To Probe Non-Covalent Complexes Of Biomolecules;** *OHair, Richard; Reid, Gavin; University of Melbourne, Victoria, Australia.
- MPB 018 **Gas Phase Reactions of Peptide Dianions;** *Chew, Frank; Gronert, Scott; San Francisco State University.
- MPB 019 **The Use of Linear and Cyclic Oligosaccharide Hosts in Gas Phase Chiral Recognition Reactions;** *Ahn, Seonghee; Ramirez, Javier; Lebrilla, Carlito; Department of Chemistry, University of California, Davis.
- MPB 020 **Gas-Phase Ion Conformations of Bradykinin Detected by Ion/Molecule Reactions with HI;** *Schaaff, Thomas; Stephenson, James; McLuckey, Scott; Oak Ridge National Laboratory.
- MPB 021 **Gas-Phase Thermochemical and Structure Determinations of Mononucleotides;** *Green-Church, Kari B.; Limbach, Patrick A.; Freitas, Mike; Marshall, Alan G.; Louisiana State University.
- MPB 022 **Structural Studies of Metal Complexes Using Ion-Molecule Reactions in a Quadrupole Ion Trap;** *Vachet, Richard; Callahan, John; Naval Research Laboratory, Washington, DC.
- MPB 023 **The Gas-Phase Ligation of Mg⁺, (c-C₅H₅)Mg⁺ and (c-C₅H₅)₂Mg⁺ With Cyanide and Isocyanide Ligands;** *Milburn, R.K.; Baranov, V.I.; Sun, J.; Hopkinson, A.C.; Bohme, D.K.; York University, Canada.
- MPB 024 **Transition Metal Cation Reactions with C₆F₆ in a Fourier Transform Mass Spectrometer;** *Ast, Teodor; Auberry, Ken; Jacobson, Denley; Purdue University, West Lafayette, IN.
- MPB 025 **Ion-molecule and Association Reactions of Tungsten Hexacarbonyl in an ICR Ion Source;** *Westmore, John B.; Willett, Gary D.; Fisher, Keith J.; School of Chemistry, UNSW, Australia.
- MPB 026 **Neutral-Base-Catalyzed Hydrogen-Shift Isomerization of Organic Radical Cations;** *Fridgen, Travis D.; Parnis, J. Mark; Trent University, Peterborough, Ontario, Canada.
- MPB 027 **Denitration of Nitroaromatic Compounds by Arylnitrile Radical Cation;** *Riter, Leah S.; Cooks, R. Graham; Chemistry Department, Purdue University, West Lafayette, IN 47907.
- MPB 028 **Rearrangement and Decomposition of Gaseous Hydroxylated Carbocations;** *Mayer, Philip; Morton, Thomas; Department of Chemistry, University of California, Riverside.
- MPB 029 **Ionization of Fluorinated Phenols in APCI-Mass Spectrometry;** *Eiceman, Gary A.; Bergloff, Jonathan F.; Rodriguez, Jaime E.; Munro, William; Karpas, Zeev; .

MPB 030	Base Catalyzed Keto-enol Isomerization of Aldehyde Radical Cations; <i>van der Rest, Guillaume; Mourgues, Philippe; Nedev, Hristo; *Audier, Henri; Laboratoire des Mécanismes Réactionnels, CNRS UMR 7651, Palaiseau, France.</i>	MPC 046	Mapping the Ion-Zwitterion Proton Transfer Potential Energy Surface; <i>*Price, William; Marshall University, West Virginia.</i>
MPB 031	Reactivity of Graphitic C/H Clusters C_nHx+ from PAHs by Eliminating H Using SORI-CID on FT-ICR; <i>*Guo, Xinghua; Sievers, Heinrich L.; Gruetzmacher, Hans-Friedrich; University of Bielefeld, Bielefeld, Germany.</i>	MPC 047	A Model for Zwitterion and Salt Bridge Formation: Comparison of Experiment and Theory; <i>*Strittmatter, Eric; Wong, Richard; Williams, Evan; University of California.</i>
MPB 032	Novel Rare Gas Species in the Gas Phase; <i>*Koskinen, Jere T.; Cooks, R. Graham; Purdue University, IN, USA.</i>	MPC 048	Generation of Nucleobase Radicals by Neutralization-Reionization Mass Spectrometry; <i>*Polce, Michael; Wesdemiotis, Chrys; The University of Akron, USA.</i>
MPB 033	Reactions of Gas-Phase AlxOy- and SixOy- Anions with Water; <i>*Scott, Jill R.; Groenewold, Gary S.; Gianotto, Anita K.; Kessinger, Glen F.; Benson, Mike; Wright, J.B.; INEEL.</i>	MPC 049	NRMS, Photoexcitation, and Computational Study of [C, H₃, S, O₂]; <i>*Frank, Aaron; Turecek, Frantisek; University of Washington, Washington.</i>
MPB 034	Gas Phase Ion Chemistry of Peroxy Acids; <i>Rappmund, Andreas; *Wanczek, Karl P.; Institute of Inorg. & Phys. Chemistry, University of Bremen, D-28357 Bremen.</i>	MPC 050	Unusual Stereospecific Multi-Step Eliminations Involving 1,4-Alkoxy Transfer from MH+ Ions of Tricyclic Ethers; <i>*Mandelbaum, Asher; Morlender-Vais, Natali; Technion-Israel Institute of Technology.</i>
MPB 035	Computational Studies of Silicon Containing Anions; <i>*Wentholt, Paul; Kasper, Sara; Prater, Reaves; Texas Tech University, Texas.</i>	MPC 051	Fragmentation Mechanisms of Doubly Charged Ions of Phenols in EI-MS; <i>*Konishi, Hideyuki; Suzuki, Masakatsu; Uchida, Kojiro; Murata, Uzuru; Aichi Kyoiku Univ., JAPAN.</i>
MPB 036	The Gas-Phase Reaction of Thiophene and Furan Radical Cations with Acetylene and Propyne; <i>*Giblin, Daryl; Cheng, Chang-fu; Gross, Michael; Washington University, Missouri, USA.</i>	MPC 052	Collision-Induced Dissociation of N₃O₂; <i>*Torchia, John; Sullivan, Kelly; Sunderlin, Lee; Northern Illinois University IL.</i>
MPB 037	Photodissociation and Clustering Reactions of Polycyclic Aromatic Hydrocarbon Ions; <i>*Kage, David; McFarland, Kristen; Szczepanski, Jan; Vala, Martin; Eyler, John; Department of Chemistry, University of Florida, Gainesville, FL.</i>	MPC 053	Stereochemical Differentiation of Four Monosaccharides; <i>*Valerie, Carlesso; Francoise, Fournier; Jean-Claude, Tabet; Laboratoire de Chimie Structurale Organique et Biologique, CNRS UMR 7613.</i>
MPB 038	Reactivity of Charged Radicals Toward Biological Substrates; <i>*Ramirez, Luis E.; Heidbrink, Jenny L.; Kenttamaa, Hilkka I.; Purdue University, Indiana.</i>	MPC 054	A Fast Atom Bombardment and MS/MS Study of Tetraalkyl Ammonium Salts; <i>van Amsterdam, Margot; *Ingemann, Steen; M.M. Nibbering, Nico; Institute of Mass Spectrometry, University of Amsterdam, The Netherlands.</i>
		MPC 055	On a New Mechanism of Activation Particles Rearrangement Processes in Ion Complexes At Low Energy; <i>*Borisenko, Dmitry; Vinogradov, Pavel; Misharin, Alexander; Bassi, Davide; Institute of Energy Problems of Chemical Physics, RAS, Russia.</i>
MPC 039	What's Missing: Ion and Neutral Thermochemistry; <i>*Bartmess, John; Lias, Sharon; Lieberman, Joel; University of Tennessee; NIST; Univ of Maryland-Baltimore</i>	MPC 056	Study of the Reactivity Of Charged 5,7-Didehydroquinoline Biradicals; <i>*Price, Jason; Thoen, Kami; Tichy, Shane; Kenttamaa, Hilkka; Purdue University.</i>
MPC 040	Rigid vs. Polarizable Ion Models for Estimating Cluster Binding; <i>*Wang, Guangdi; Cole, Richard; Xavier University of Louisiana, Louisiana, USA.</i>	MPC 057	A Union of Synchrotron Radiolysis and Mass Spectrometry to Probe Protein Structure on the msec Timescale; <i>Maleknia, Simin; Kislar, Janna; Brenowitz, Michael; Chance, Mark; *Downard, Kevin; Albert Einstein College of Medicine.</i>
MPC 041	Determination of the Gas-Phase Acidities of Naphthalene Using the DePuy Silane Cleavage Method; <i>*Lardin, Harvey A.; Squires, Robert R.; Purdue University, West Lafayette, IN.</i>	MPC 058	Hyperthermal Negative Surface Ionization Mass Spectrometry of Acetyl Derivatives; <i>*Kishi, Hiroshi; Fuji, Toshihiro; Oyama National College of Technology</i>
MPC 042	Proton Affinities of Primary Amines by the Kinetic Method; <i>*Cao, Jie; Holmes, John; University Of Ottawa.</i>	MPC 059	KeV to MeV Energy Gold Clusters to Study Enhancements and Variations with Energy of Total Sputtering and Ion Emission; <i>Andersen, Hans-Henrik; *Brunelle, Alain; Della-Negra, Serge; Depauw, Joel; Jacquet, Dominique; Le Beyec, Yvon; Pautrat, Michèle; Institut de Physique Nucléaire.</i>
MPC 043	Evaluation of Ab Initio Methods for Determining the Binding Energies of Proton-Bound Dimers; <i>*Chapman, Josh; Lindberg, Tonya; Price, William; Marshall University, West Virginia.</i>	MPC 060	The Effect of Extended pi-Systems in LSIMS M⁺ Formation; <i>*Anderson, Richard M.; Bartlett, Michael G.; Melnyk, Michael C.; Busch, Kenneth L.; Georgia Institute of Technology.</i>
MPC 044	Dissociation Dynamics of Ions Derived From Sulfuric Acid; <i>*Pommerening, Cynthia; Bachrach, Steven; Sunderlin, Lee; Northern Illinois University IL.</i>		
MPC 045	Thermochemistry of Hypervalent Bonds in Anions; <i>*Nizzi, Katrina; Walker, Barry; Strukowska, Aleksandra; Heil, Terry; Sunderlin, Lee; Northern Illinois University.</i>		

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MPC 039	What's Missing: Ion and Neutral Thermochemistry; <i>*Bartmess, John; Lias, Sharon; Lieberman, Joel; University of Tennessee; NIST; Univ of Maryland-Baltimore</i>
MPC 040	Rigid vs. Polarizable Ion Models for Estimating Cluster Binding; <i>*Wang, Guangdi; Cole, Richard; Xavier University of Louisiana, Louisiana, USA.</i>
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MPC 045	Thermochemistry of Hypervalent Bonds in Anions; <i>*Nizzi, Katrina; Walker, Barry; Strukowska, Aleksandra; Heil, Terry; Sunderlin, Lee; Northern Illinois University.</i>

MPC 061	Ion Desorption Stimulated by Inner Shell Ionization of Surface Atoms; *Verkhoturov, Stanislav; Schweikert, Emile; Texas A&M University.	MPD 076	Specific Analysis of Ceramides Using Liquid Chromatography-Electrospray Mass Spectrometry and Tandem Mass Spectrometry and Its Application to Human Skin Ceramides; *Raith, Klaus; Neubert, Reinhard; Martin Luther University, Halle, Germany.
MPC 062	Altering Ion Internal Energy by Using Polyatomic Primary Ions; *Diehnelt, C. W.; Van Stipdonk, M. J.; Schweikert, E. A.; Department of Chemistry, Texas A&M University.	MPD 077	Auto Correlation TOF-MS. A New Method for Addressing Mass Accuracy in MALDI-TOF; Makarov, Alexander; *Davis, Steve; Skea, Bill; Lopez, Mary; HD Technologies Ltd.
MPC 063	TBA	MPD 078	Signal Suppression Effects in the Analysis of Peptides by MALDI MS; *Alvarez, Erwin; Larsen, Barbara; Coldren, Christopher; Rice, Janet; The DuPont Company.
MPC 064	Mass Spectrometric Means for High Resolution Photoelectron Spectroscopy. Mass Selective Study of Neutral Molecules; *Distelrath, Volker; Boesl, Ulrich; Institute of Physical Chemistry, Technische Universitaet Muenchen.	MPD 079	Use of Resonant Laser Ablation for the Generation of Cationization Reagents in Polymer MALDI; *Dogruel, D.; Anderson, J. E.; Wilkerson, Jr., C. W.; Los Alamos National Laboratory.
MPC 065	TBA	MPD 080	Depth Profiling of a MALDI Time of Flight Sample; *Guillot, Stephen; Chaurand, Pierre; Stoeckli, Markus; Caprioli, Richard; Mass Spectrometry Research Center, Vanderbilt University School of Medicine.
	LASER DESORPTION & IONIZATION	MPD 081	MS/MS Analysis of Natural Organic Pigments By Spatially-Resolved Laser Desorption Mass Spectrometry; *Wyplosz, Nicolas; Heeren, Ron; Boon, Jaap; FOM Institute for Atomic and Molecular Physics, The Netherlands.
MPD 066	A New MALDI Time-of-Flight MS-MS System for High Throughput Applications in Proteomics; *Juhasz, Peter; Campbell, Jennifer; Chen, Xunming; Parker, Kenneth; Martin, Steve; Vestal, Marvin; PerSeptive Biosystems.	MPD 082	Bacterial Identification by MALDI-TOF-MS is Cell Wall Dependant; *Evasion, David J; Claydon, Martin A; Gordon, Derek B; Bio-analytical Research Center, Manchester Metropolitan University, UK.
MPD 067	Experimental Strategies for Enhancing Peptide Sequence Analysis; *Montgomery, Helen; Sutton, Chris; Resch, Martin; Kratos Analytical, England.	MPD 083	Determination of Clusters' Origination Under Laser Sputtering of a Target.; *Kozlov, Boris; Mamyrin, Boris; Ioffe Physical-Technical Institute, Russia.
MPD 068	Continuous Flow Infrared MALDI with an Ethanol Matrix; *Lawson, Steven; Murray, Kermit; Emory University.	MPD 084	Monitoring Adsorption Induced Changes in the Structure and Stability of Lysozyme with MALDI and Isotopic Exchange; *Buijs, Jos; Speidel, Michael; Häkansson, Per; Oscarsson, Sven; Mälardalen University, Sweden.
MPD 069	Extending the Applications of MALDI-MS to Include Non-polar and Hydrophobic Molecules; *Limbach, Patrick; Breaux, Gary; Chu, Weizhe; France, Amy; Green-Church, Kari; Macha, Stephen; McCarley, Tracey; Louisiana State University.	MPD 085	On-Line MALDI Sample Introduction with a Rotating Ball Inlet; Orsnes, Henrik; Degn, Hans; *Murray, Kermit; Emory University.
MPD 070	Quantitation of Surface-Protein Binding by MALDI Mass Spectrometry; *Kinsel, Gary; Walker, Angela; Chen, Kathy; Timmons, Richard; Wu, James; Nelson, Kevin; University of Texas at Arlington, Arlington, Texas.	MPD 086	MALDI Mechanism by FT-ICR Laser Microprobe with Photochromic Dyes and Acidic or Basic Matrices; *Jean-François, Muller; Pierre-Jean, Calba; Pierre, Cassat; Lionel, Vernex-Loset; Gabriel, Krier; University of Metz, France.
MPD 071	Analysis of Intact <i>Bacillus anthracis</i> Spores by Using MALDI-TOF MS: Characterization of Inter-Species Similarities; *Stutler, James; Ezzell, John; Bryden, Wayne; Demirev, Plamen; Hathout, Yetrib; Jackman, Joany; .	MPD 087	Improved Spot Homogeneity for DNA MALDI Matrices; *Kim, Yongseong; Hurst, Gregory; Doktycz, Mitchel; Buchanan, Michelle; Oak Ridge National Laboratory.
MPD 072	Fully Automated Peak Detection and Characterization Algorithm; *Jarman, Kristin; Daly, Don; Wahl, Karen; Pacific Northwest National Laboratory.	MPD 088	The identification of <i>Neisseria</i> Species and Potential Typing of <i>N. meningitidis</i> using MALDI-TOF MS; *Ralphson, Kathryn; Edwards-Jones, Valerie; Claydon, Martin; Fox, Andrew; Kratos Analytical, Manchester UK, Manchester Metropolitan University, UK.
MPD 073	Statistical Analysis of MALDI-MS Data for Replicate Bacterial Cultures; *Petersen, Catherine; Jarman, Kristin; Valentine, Nancy; Saenz, Adam; Daly, Don; Wahl, Karen; Pacific Northwest National Laboratory.	MPD 089	DE-MALDI-rTOF of Low Molecular Weight Synthetic Organic Analytes; Agoston, Gregory; Shah, Jamshed; *Treston, Anthony; EntreMed, Inc.
MPD 074	Rapid Identification of Wheat Varieties Using MALDI-TOF; *Znamirowski, Marek; Dworschak, Ragnar; Ens, Werner; Standing, Kenneth; Preston, Ken; University of Manitoba.		
MPD 075	Initial Velocity Distributions of MALDI Ions Desorbed from Single Crystals; *Dworschak, Ragnar; Ens, Werner; Standing, Kenneth; University of Manitoba, Canada.		

MPD 090	MALDI-TOF Analysis of Functional Polymers Synthesised by Atom Transfer Polymerisation.; *Jarvis, Jackie; Jarvis, Adam; Kukulj, Dax; Kelly, Elizabeth; Heming, Alex; Haddleton, David; Bruker UK Limited, United Kingdom.	MPE 104	Investigation of the Electrospray Plume by Laser-Induced Fluorescence Spectroscopy; *Zhou, Shaolian; Edwards, Anna; Van Berkel, Gary; Cook, Kelsey; University of Tennessee.
MPD 091	Laser Desorption on Liquid Beams: Studying Solvation and Nucleation in Solution; *Sobott, Frank; Wattenberg, Andreas; Schunk, Stephan A.; Schüth, Ferdi; Brutschy, Bernhard; J.W. Goethe-Universität Frankfurt/M., Germany.	MPE 105	Discrimination of Analytes by Adsorption to the Glass Capillary Wall in Nano-Electrospray Mass Spectrometry; *Duelcks, Thomas; Thierolf, Michael; Karas, Michael; Div. Analyt. Instrum. Chemistry, University of Frankfurt, Germany.
MPD 092	Laser-Induced Fragmentation, Coalescence and Delayed Ionisation of Nitrogen-Substituted Fullerene Derivatives; *Clipston, Nigel; Brown, Tracy; Barrow, Mark; Drewello, Thomas; Hirsch, Andreas; Herzschuh, Rainer; Gostick, Dominic; Critchley, Glen; University of Warwick, UK.	MPE 106	Mechanistic Studies of Electrospray Ionization Suppression in Biological Sample Extracts; *King, Richard; Bonfiglio, Ryan; Olah, Tim; Merck & Co., Inc.
MPD 093	Enzymatic Reaction Monitoring of Ferulic Acid with Peroxidase by MALDI-MS; *Kim, Sung-Ho; Yoo, Jong Shin; Soonchunhyang University Korea.	MPE 107	Electrospray Mass Spectra of Bile Acids and Related Molecules: Micelles or Aggregates?; *Rodriguez, Alejandra; Yost, Richard; University of Florida, Gainesville, FL.
MPD 094	Fragmentation Analysis of Oligonucleotides by Matrix-assisted Laser Desorption / Ionization (MALDI) Mass Spectrometry; *Li, Y.C.Leo; Chan, T.-W.Dominic; The Chinese University of Hong Kong.	MPE 108	Electrolytic Induced pH Changes in Nano-ESI: Implications for the Appearance of Mass Spectra; *Schnier, Paul; Van Berkel, Gary; Chemical and Analytical Sciences Division, Oak Ridge National Laboratory.
MPD 095	Detection of Pharmaceutical Compounds in Tissue by Matrix-Assisted Laser Desorption Ionization (MALDI) and Laser Desorption / Chemical Ionization (LD/CI) MS/MS with a Quadrupole Ion Trap; *Troendle, Frederick J.; Reddick, Chris; Yost, Richard A.; University of Florida.	MPE 109	Evaluation by ESMS of Chiral Recognition in Host-Guest Complexation; *Nierengarten, Helene; Leize, Emmanuelle; Garcia, Christophe; Jeminet, Georges; Van Dorsselaer, Alain; Strasbourg University, France.
MPD 096	Improvement in Enzymatic Peptide Ladder Sequencing Using UV-MALDI-MS and Peptide Derivatization; *Kratzer, Robert; Lottspeich, Friedrich; Max-Planck-Institute for Biochemistry, Germany.	MPE 110	ESMS Characterization of Synthetic Noncovalent Cadmium Cylinders; *Leize, Emmanuelle; Nierengarten, helene; Garcia, Ana; Lehn, Jean-Marie; Van Dorsselaer, Alain; Strasbourg University, France.
MPD 097	Chiral Amino Acid Recognition in Amino Acid-Cyclodextrin Determined by MALDI-MS; *So, Mei Po; Chan, T.-W. Dominic; Department of Chemistry, The Chinese University of Hong Kong.	MPE 111	Use of Affinity Selection Mass Spectrometry to Screen Organic Compounds of Diverse Structures for Drug Leads; *Yang, Houjun; Cheng, Xueheng; Bakhoum, Abla; Liang, Heng; Hajduk, Philip; Bures, Mark; Lico, Isabella; DeWitte, Robert; Abbott Laboratories, IL 60064, USA.
MPD 098	No Title Provided; *Chan, Pui Kwan; Chan, T. -W. Dominic; Chinese University of Hong Kong.	MPE 112	Multicenter Study on Spectral Reproducibility of Toxicologically Relevant Drugs Generated by API; *Miller, Mark L.; Bogusz, Maciej J.; Webb, Kenneth S.; Maier, Rolf-Dieter; Kruger, Klaus D.; Romeril, Julie; FBI Academy, Virginia.
MPD 099	Automated Measurement and Interpretation of MALDI-PSD Mass Spectra; *Frey, Ruediger; Holle, Armin; Kraeuter, Karl-Otto; Paape, Rainer; Resemann, Anja; Suckau, Detlev; Bruker Daltonik GmbH, Bremen, Germany.	MPE 113	Mass Spectra Libraries by IonSpray-MS and MS/MS with CID in the Transport Region (TRCID) for Drug Screening; *Renz, Michaela; Svoboda, Michal; Eppinger, Beatrix; Weinmann, Wolfgang; Institute of Legal Medicine, Freiburg, Germany.
MPD 100	A MALDI-TOF Instrument for High Throughput Routine Measurements in Genomics and Proteomics; *Holle, Armin E. H.; Hoendorf, Jens; Koester, Claus; Bruker Daltonik GmbH, Bremen, Germany.	MPE 114	Determination of Elemental Compositions by HRMS without Mass Calibrants; *Grange, Andrew H.; Sovocool, G. Wayne; U.S. Environmental Protection Agency, NERL, ORD, ESD, ECB.
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MPE 101	The Electrical Equivalence of Electrospray Ionization; *Enke, Christie; Jackson, George; University of New Mexico.	MPE 116	An Innovative Method for Detecting Thermally Labile Compounds Using a Turbo IonSpray LC/MS Interface; *Brown, Paul; Lin, Patrick; MDS Harris, Inc., Nebraska.
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MPE 118	Strategies for ESI-MS/MS Structural Elucidation of Brevetoxins In Red Tide Algae; *Hua, Yousheng; Cole, Richard B.; University of New Orleans, LA.	MPF 131	Laser Microprobe FT-ICR-MS as a Tool for Inorganic Speciation Studies. Understanding of Cluster Ions Formation; *Frédéric, Aubriet; Benoît, Maunit; Jean-François, Muller; University of Metz - France.
MPE 119	Structural Assignment of Isomeric 2-Pthalimido-quinoline Mono- and Disulfonic Acids by Electrospray-LC/MS/MS; Weisz, Adrian; Andrzejewski, Denis; *Mandelbaum, Asher; Food and Drug Administration, Washington DC and Technion-IIT, Israel.	MPF 132	Enhancement of SIMS-Generated, Oligomeric Oxyanions from Refractory Oxide Surfaces using Cs+ Substitution; *Gary, Groenewold; Glen, Kessinger; Jim, Delmore; Gary, Gresham; Andrew, Shaw; INEEL.
MPE 120	Formation of Ammonium Ion Complexes of Simple Ethers and Its Effect on the Fragmentation Studied by ESI/MS and MSⁿ; *Yim, Yong Hyeon; Lee, Wonjae; Kim, Yong Kook; Cho, Hye-Sung; LG Chemical Research Park, South Korea.	MPF 133	Electrospray Mass Spectrometry of Organometallic Derivatives of the Lanthanide Elements and Yttrium; *Greaves, John; Johnston, Matthew; Evans, William; University of California, Irvine.
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MPE 124	Quantitation of 12-O-Tetradecanoylphorbol-13-Acetate (TPA) in Blood of Leukemia Patients Treated with TPA; *Winnik, Bozena; Conney, Allan; Chang, Richard; Buckley, Brian; EOHSI, Rutgers University.	MPF 137	Recent Developments in Actinide Element Mass Spectrometry; Kelley, James; Petersen, Steven; Bond, Lee; *Wacker, John; Pacific Northwest National Laboratory.
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MPE 128	Metal Complexation of 1,10-Phenanthroline and its Methylated Analogues using LD and ESI in a QIT; *Williams, Sheldon; Satterfield, Mary; Brodbelt, Jennifer S.; The University of Texas at Austin.	MPF 141	Investigations of CF4 / Ar Glow Discharge Plasmas by Mass and Optical Spectroscopies; Barshick, Christopher; Carson, Elizabeth; Hess, Kenneth; Khan, Neetha; Tsirakoglou, Stephanos; *Duckworth, Douglas; Oak Ridge National Laboratory, Tennessee.
MPE 129	A Novel Reference Compound for Electrospray and FAB was Developed for Non-routine LC/MS Studies; *Coddington, Arthur B.; Ramjit, Harri G.; Merck Research Labs, Merck & Co. Inc., West Point, PA.	MPF 142	Peak Splitting with a Quadrupole Mass Filter Operated in the Second Stability Region; *Douglas, Don; Zhaohui, Du; Nikolai, Konenkov; University of British Columbia, Vancouver, BC, Canada.

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MPG 145	Online Measurement of Oil-Compounds in the Exhaust Gas of Combustion Engines by Mass Spectrometry. ; *Gohl, Marcus; Matz, Gerhard; Technical University Hamburg Harburg.	MPG 160	Quantitative Mass Spectrometry in quad MRM Mode: Problems and Practical Solutions; *Singletary, M. Susan; McCaffrey, Mark; ARCO, Texas.
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MPH 175	Determination of the CKD-711 and Its Metabolites Using the On-Line HPLC-ELSD/ESI-MS; <i>*Myung, Seung-Woon; Min, Hye-Ki; Kim, Myungsoo; Hong, Chung Il; Chun, Hyoung Sik; Kwon, Young In; Korea Institute of Science & Technology, Korea.</i>
MPH 176	Electrochemistry On-Line with Electrospray: Insights into Oxidative Metabolism; <i>*Deng, Haiteng; Van Berkel, Gary; Oak Ridge National Laboratory.</i>
MPH 177	Characterization of the Metabolites of LY156735 in Rat and Human using Liquid Chromatography/Tandem Mass Spectrometry; <i>*Lindsay, Thomas J.; Weiss, Heidi J.; Barbuch, Robert J.; Brown, Thomas J.; Shipley, Lisa A.; Eli Lilly and Company, Indianapolis, IN.</i>
MPH 178	The Role of Data Mining Visualization Tools in Drug Metabolite Analysis Using a Benchtop Ion Trap Mass Spectrometer; <i>*Lopez, Linda L.; Drexler, Dieter M.; Mylchreest, Iain; Schwartz, Jae C.; Emm, Thomas A.; Shockcor, John P.; Richards, Lauren E.; ThermoQuest Finnigan, CA.</i>
MPH 179	High-Throughput Automated Quantitation Using A Quadrupole Ion Trap Mass Spectrometer; <i>*Cole, Mark; Needham, Shane; Jeanville, Patrick; Hemenway, Eric; Cunniff, Jack; Pfizer Inc, CT.</i>
MPH 180	Identification of a New Rapamycin Metabolite Using Nanospray Tandem Mass Spectrometry; <i>*Hallensleben, Katrin; Raida, Manfred; Jacobsen, Wolfgang; Habermehl, Gerhard; Tierärztliche Hochschule Hannover.</i>
MPH 181	LC-MS/MS - A Powerful Tool for Identification of Apomorphine Metabolites: In-Vitro and In-Vivo Studies; <i>*Nemirovskiy, Olga; Hoover, Randy; Premkumar, Noel; Vengurlekar, Shailesh; Velagaleti, Poonam; Ronsen, Bruce; Kukulka, Michael; Bopp, Barbara; Analytical BioChemistry Laboratories, MO.</i>
MPH 182	The Development of a Clinical 'GW Cocktail' of Cytochrome P450 Probe Substrates using LC-MS/MS; <i>*Scott, Rebecca; Palmer, Jonathan; Lewis, Ivor; Pleasance, Stephen; GlaxoWellcome Research and Development.</i>
MPH 183	The Metabolic Fate of Zenarestat in Rat Using LC/RAM and Tandem Mass Spectrometry; <i>*Egnash, Laura; Lapham, Kimberly; Black, Ann; Talaat, Rasmy; Parke-Davis Pharmaceutical Research.</i>
MPH 184	Metabolism of SCH 58235 in the Human, Rat and Dog; <i>*Iannucci, Robert; Kaczynski, Edward; Achanfou-Yeoah, Joana; Alvarez, Narciso; Chowdhury, Swapan; Alton, Kevin; Patrick, James; Cayen, Mitchell; Schering-Plough Research Institute.</i>
MPH 185	Identification of Phase I and Phase II Metabolites of CP-358,774 Using ESI/LC/MS and LC/MS/MS in Humans; <i>*Kim, Johnson; Prakash, Chandra; Micelli, Jeff; Pfizer Central Research, CT.</i>
MPH 186	Urinary Metabolites of Anti-Inflammatory Drug Nabumetone in Equine; <i>*Koupai-Abyazan, Mohammed; Esaw, Barbara; Laviolette, Barbara; CANTEST Ltd. - Canada.</i>
MPH 187	LC/MS/MS Identification and Profiling of Duloxetine Metabolites; <i>*Gillespie, Todd; Barbuch, Robert; Johnson, Jason; Lantz, Ronald; Knadler, Mary Pat; Lilly Research Laboratories, Indianapolis, IN.</i>
MPH 188	HPLC/RAM ESI-MS/MS Studies on the in-vitro metabolic fate of HIV Protease Inhibitor, CI-1029; <i>*Talaat, Rasmy E.; Sinz, Michael; Bauman, Jonathan; Parke-Davis Pharmaceutical Research, Michigan.</i>
MPH 189	Dealkylated and Oxidative Metabolites of N-(R-2-heptyl)-N-methylpropargylamine [R-2HMP]; <i>*Durden, David A.; Dyck, Lillian E.; Davis, Bruce A.; University of Saskatchewan, Canada.</i>
MPH 190	A Comparison of Collision Induced Dissociation Methods for Profiling and Identification of Metabolites of Loratadine (SCH 29851); <i>*Ramanathan, Ragu; Su, Ai-Duen; Alvarez, Narciso; Blumenkrantz, Neil; Chowdhury, Swapan; Alton, Kevin; Patrick, James; Schering-Plough Research Institute.</i>
MPH 191	MSn Browser: Following MS to the nth Reaction Pathways.; <i>*Shofstall, Jim; Mylchreest, Iain; Schwartz, Jae; Hemenway, Eric; Tiller, Philip; Finnigan.</i>
MPH 192	Mass Spectrometric Identification of Ketoconazole Metabolites Generated by Human Hepatocytes.; <i>*Chang, Sai; In Vitro Technologies, Inc., MD.</i>
MPH 193	Sensitive Microbore LC/MS/MS and High Resolution Mass Spectrometry for Structure Elucidation of Drug Metabolites; <i>*Tang, Qing (Mike); Buko, Alex; Burton, Richard; Spracklin, Doug; Derbyshire, John; St. George, Karen; Abbott laboratories, IL.</i>
MPH 194	Automating the Determination of Biotransformation Products and Pathways with LC-MS/MS; <i>*Fernandez, Carmen; King, Richard; Olah, Tim; Bonner, Ron; Burton, Lyle; Duchoslav, Eva; Merck & Co., Inc.</i>
MPH 195	Characterization of in vivo Metabolites of the Substance P Receptor Antagonist CJ-11,974 in Long Evans Rats by HPLC/RAM/ESI/MS/MS; <i>*Kamel, Amin; Prakash, Chandra.</i>
MPH 196	API/TOF Mass Spectrometry for in vivo Quantitation and Metabolic Profiling of Pharmaceuticals; <i>*Bi, Honggang; Fountain, Scott; Rossi, David; Zhang, Nanyan; Parke-Davis Pharmaceutical Research.</i>
MPH 197	LC/MS/MS Analysis of Phase II Sulphydryl Conjugates of the Anticancer Agent Etoposide; <i>*Pang, Shaokun; Felix, Carolyn A.; Blair, Ian A.; Center for Cancer Pharmacology/University of Pennsylvania, PA.</i>
MPH 198	Measurement of ^{13}C-labeled Retinol for Studying B-carotene Bioavailability and its bioconversion to retinol using APCI-LC-MS; <i>*Xu, Xiaoying; Wang, Yan; van Lieshout, Machiel; West, Clive E.; Lugtenburg, Johan; van Bremen, Richard B.; University of Illinois at Chicago.</i>
MPH 199	Interaction of the Anticancer Drug Cisplatin with Ubiquitin; <i>*Gibson, Dan; Costello, Catherine E.; Boston University School of Medicine.</i>

MPH 200	Disulfiram generates an N,N-diethylthiocarbamoyl adduct on Cys-125 of rat hemoglobin after in vivo administration; *Erve, John; Jensen, Ole; Valentine, Holly; Fitsanakis, Vanesa; Valentine, William; Vanderbilt University Medical Center, TN.	MPI 212	Mapping the Phosphorylation Sites of Replication Factor C by MALDI-MS; Koundriokoff, Stephane; Salles, Isabelle; Fotedar, Rati; Forest, Eric; *Jaqinod, Michel; Institut de Biologie Structurale, France.
MPH 201	Lipid-protein Conjugates as Indicators of Oxidation of Low-Density Lipoprotein; ; *Sangvanich, Polkit; Gaskell, Simon J; The Michael Barber Centre for Mass Spectrometry.	MPI 213	Non-Covalent Binding of Cofactors to Dehydrogenases. Stoichiometry and Cooperativity Studies by MS; *Rogniaux, Helene; Strupat, Kerstin; Ball, Vincent; Van Dorsselaer, Alain; Strasbourg University, France.
MPH 202	Inactivation of CMY-2 beta-lactamase, A Plasmidic Class C Cephalosporinase, by Tazobactam; *Chen, Y.H.; Liu, J.; Hujer, A.M.; Anderson, V.; Bonomo, R.A.; Cleveland State University/Case Western Reserve University, Cleveland, OH.	MPI 214	2-D PAGE and MALDI/TOF-MS for determining mechanisms of Erythromycin resistance in <i>S.pneumoniae</i>; ; *Lawrie, Laura; Argo, Evelyn; Cash, Phillip; Ford, Linda; McKenzie, Hamish; University of Aberdeen, Scotland, UK.
MPH 203	Measuring Dissociation Constants by Electrospray Ionization Mass Spectrometry: What Is the Right Way to Do the Experiment?; ; *Sannes-Lowery, Kristin A.; Griffey, Richard H.; Hofstadler, Steven A.; Ibis Therapeutics, A division of Isis Pharmaceuticals, CA.	MPI 215	Protein Profiling of Permafrost Bacterial Whole Cell Lysates Using MALDI-TOF MS and RP-HPLC; ; *Kachman, Maureen T.; Chong, Bathsheba E.; Lubman, David M.; Dept of Chemistry, The University of Michigan, Ann Arbor, MI.
MPH 204	Mechanism of Inhibition of Aldehyde Dehydrogenase by Disulfiram; ; *Shen, Mary Ann; Benson, Linda M.; Johnson, Kenneth L.; Lipsky, James J.; Naylor, Stephen; Mayo Foundation.	MPI 216	Structural Characterization of Human Blood Group A and B glycosyltransferases by LC/ESI/MS/MS; ; *Yen, Ten-Yang; Joshi, Rajesh K.; Tom, Irene; Macher, Bruce A.; Seto, Nina O. L.; Szpacenko, Adam; Palcic, Monica; Dept of Chem & Biochem, San Francisco State University.
MPH 205	Identification of Intact Complexes of Etoposide with Albumin and Hemoglobin in Models and Serum by ESI and LC/ESI; ; *Roboz, John; Deng, Lin; Ma, Longhua; Mount Sinai School of Medicine, New York, NY.	MPI 217	Identification of Tumor-Associated MHC Class I Ligands by a T cell-Independent, LCMS-Based Approach; ; *Schirle, Markus; Keilholz, Wieland; Weber, Bernd; Gouttefangeas, Cecile; Dumrese, Tilman; Becker, Horst Dieter; Stevanovic, Stefan; Rammensee, Hans-Georg; Institute for Cell Biology, University of Tübingen, Germany.
MPH 206	ESI Isolates Intermediates in the Catalyzed Oxidation of Heme by Mutants of Outer Mitochondrial Cytochrome b5 (OMb5); ; *Pope, Marshall; Danie, Schlatzer; Juan Carlos, Rodriguez; Mario, Rivera; University of North Carolina-Chapel Hill.	MPI 218	Mass Spectrometric Studies of the Covalent Intermediate Implicated in Base-Excision Repair; ; *Deterding, Leesa; Prasad, Rajendra; Wilson, Samuel; Tomer, Kenneth; National Institute of Environmental Health Sciences.

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MPI 207	Kinetic Studies of Penicillin-Binding Protein 2a Interactions with B-lactams Using Electrospray MS; ; *Bauer, Mark; Sun, Yiping; Lu, Weiping; The Procter & Gamble Company.	MPI 219	Monitoring Conformational Changes in Insulin Under Fibril Forming Conditions; ; *Tito, Paula; Nettleton, Ewan; Robinson, Carol; University of Oxford.
MPI 208	Interaction of Sodium Ion with Tertiarybutoxycarbonylprolylproline Ethyl Ester Diastereomers in FABMS; ; *Tsunematsu, Hideaki; Isobe, Ryuichi; Hanazono, Hiroshi; Yamamoto, Magobei; Inagaki, Masanori; Soeda, Yasuko; Higuchi, Ryuichi; Fukuoka Univ; Towa Univ; Kyushu Univ.	MPI 220	Proteomic-Based Analysis of Normal and Pathological Tear Samples; ; *Lawrence, James B.; Neely, Frank; Naylor, Stephen; Mayo Foundation.
MPI 209	Characterization of a Small Proline Rich Protein Using Affinity Based Mass Spectrometry; ; *Krone, Jennifer; Tesfaigzi, Johannes; Nelson, Randall; Lovelace Respiratory Research Institute.	MPI 221	A Novel Approach for Carboxy-Terminal Sequencing; ; *Sechi, Salvatore; Chait, Brian T.; The Rockefeller University New York, NY.
MPI 210	Identification of Pramlintide Degradation Products; ; *Williams, Jon; DeMond, Wade; Hekman, Carla; Kelley, Pamela; Mauch, Steve; Nuechterlein, Marc; Stepanenko, Anna; Ye, Ming; Amylin Pharmaceuticals.	MPI 222	Collection and Digestion of CIEF Fractions for Off-line ESI-MS Analysis of the Proteome; ; *Gao, Hongying; Shen, Yuseng; Veenstra, Timothy; Bruce, James; Pasa-Tolic, Ljiljana; Smith, Richard; Pacific Northwest National Laboratory.
MPI 211	Cyanylation of rhM-CSF beta with CDAP and Tryptic Mapping by Mass Spectrometry; ; *Yan, Xuguang; Maier, Claudia; Harder, Mark; Cowgill, Cynthia; Pasa Tolic, Ljiljana; Smith, Richard; Schimerlik, Michael; Deinzer, Max; Oregon State University.	MPI 223	A Novel Strategy for the Characterization of N-linked and O-linked Glycans using the Q-ToF Mass Spectrometer.; ; Bordoli, Robert; Hoyes, John; Langridge, James; *Bateman, Robert; Charlwood, Joanne; Camilleri, Patrick; Micromass UK Ltd., UK.
		MPI 224	Selective Isotope Labeling Demonstrates That Hydrogen Exchange at Individual Peptide Amide Linkages Can be Determined by Collision Induced Dissociation Mass Spectrometry; ; *Pan, Hai; Deng, Yuzhong; Smith, David; University of Nebraska, Lincoln.

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MPI	226	Phosphopeptide Sequencing by In-Source Decay using Delayed Extraction MALDI-TOF Mass Spectrometry; *Kinumi, Tomoya; Niwa, Haruki; Matsumoto, Hiroyuki; National Institute of Infectious Diseases, Japan.	MPI	239	Quantifying Oxidative Damage to Yeast Proteins by GC/ECNI/MS and LC/MS/MS; *Poljak, Anne; Ingelse, Benno; Grant, Chris; Dawes, Ian; Duncan, Mark; University of N.S.W. Australia.
MPI	227	Complex Disulfide Structure Characterization of Proteins Dimer by Ultra-Fast PESI-LCMS; *Le, John; Shimamoto, Grant; Merewether, Lee Anne; Amgen Center, Amgen Inc., Thousand Oaks, California, USA.	MPI	240	Peptide Sequencing by Monitoring Real-Time Enzymatic Digestion with an Electrospray Mass Spectrometer; *Bier, Mark; Kanabe, Elizabeth; Carnegie Mellon University, Pennsylvania.
MPI	228	Characterization of Phosphorylated Peptides using Affinity Chromatography - ESI TOF MS; Chalmers, Michael; *Gaskell, Simon; UMIST, UK.	MPI	241	Isolation and Identification of the C-terminal Peptide of Proteins; *Nuwaysir, Lydia; Hsi, Kuo-Liang; Dupont, Dave; PE Biosystems, Foster City, California.
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MPI	230	MHC Peptide Sequencing: Optimization of an Analytical Strategy; *Jones, Richard C; Stevens, James; Butcher, Geoffrey W; Joly, Etienne; Gaskell, Simon J; Michael Barber Centre for Mass Spectrometry, UMIST, UK.	MPI	243	A Novel SDS Analog Compatible with MS Analysis of Proteins and Peptides; Compton, Bruce; Lee, Jeng-Jong; Brown, Elizabeth; Herbert, Robert; Ding, Jianmei; Livingstone, Jeff; *Bouvier, Edouard; Waters Corporation.
MPI	231	De novo Sequencing of Proteins Using FTMS and Computer Automation; *Horn, David M.; Zubarev, Roman A.; Fridriksson, Einar K.; Lewis, Mark A.; McLafferty, Fred W.; Cornell University, NY.	MPI	244	High Resolution Precursor Selection and ESI-MSn for Polypeptide Sequencing; *Ziberna, Anthony; Loo, Joseph; Muenster, Helmut; Finnigan Corporation, a Division of ThermoQuest.
MPI	232	Effects of Ammonium Citrate as a Matrix Additive on MALDI TOFMS Analysis of Sulfa- and Phosphopeptides; *Nilsson, Carol; Westman, Ann; Larsson, Thomas; Karlsson, Hasse; Karlsson, Karl-Anders; Goteborg University.	MPI	245	Direct Detection and Sequencing of Phosphopeptides Affinity-Bound to Immobilized Metal Ion Beads by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry; *Zhou, Wei; Khaledi, Morteza; Tomer, Kenneth; National Institute of Environmental Health Sciences.
MPI	233	Doubly-Reduced Isoforms of a Multi-Disulfide Protein Facilitate Cyanylation/Cleavage/Mass Mapping; *Qi, Jianfeng; Watson, Jack; Michigan State University, Michigan.	MPI	246	A Comparison of MS-Based Phosphopeptide Mapping Techniques: A Complete Map of Srb10-Dependant Phosphorylation of the Transcription Factor Gen4; *Zhang, Xiaolong; Annan, Roland; Huddleston, Michael; Chi, Yong; Deshaies, Ray; Carr, Steven; SmithKline Beecham Pharmaceuticals.
MPI	234	Identification of Peptides by Micro-Capillary HPLC Nanospray Qq-ToF; *Lock, Chris; McKinnon, Stewart; Figeys, Daniel; Ens, Werner; Institute for Marine Biosciences, National Research Council Canada.	MPI	247	Characterization of HIV-1 CTL Epitope Peptide Bound to the Class I MHC Molecule using Nano-LC/MS/MS; *Hirayama, Kazuo; Yamada, Naoyuki; Miwa, Kiyoshi; Chujyo, Yoshitomo; Tomiyama, Hiroko; Takiguchi, Masafumi; Central research Laboratories, Ajinomoto Co., Inc., Japan.
MPI	235	Structural Studies of Integral Membrane Proteins Using Tethered Cleavage Reagents; *Gelasco, Andrew; Oatis, John; Knapp, Daniel; Medical University of South Carolina.	MPI	248	Improved Methods of Peptide Candidate Selection for Antigen Identification Using Mass Spectrometry; *Field, Erin D.; Caldwell, Jennifer A.; Pierce, Jr., Richard A.; Marto, Jarrod A.; White, Forest M.; Shabanowitz, Jeffrey; Engelhard, Victor H.; Hunt, Donald F.; University of Virginia.
MPI	236	Characterization of Viral Proteins by HPLC-ESI/MS; *Apffel, Alex; Chakel, John; Hancock, William; Lehmberg, Elizabeth; Pungor, Jr., Erno; Hewlett-Packard Laboratories, CA; Berlex Biosciences, CA.	MPI	249	Cyclisation of Acidic Residues in Peptides During C-Terminal Derivatisation: An Aid For Interpretation of CID Spectra; *Lindh, Ingemar; Sjövall, Jan; Griffiths, William J.; Medical Biochemistry and Biophysics, Karolinska Institutet, Sweden.
MPI	237	Comparison of MALDI and ESI Tandem MS Approaches to Sequence Determination of Peptides from Chicken Type-II Collagen; Lim, Amareth; *Wu, Zhuchun; Kim, Ok-Hee; Costello, Catherine; Boston University School of Medicine, Massachusetts.			

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MPI	251	Use of ^{16}O:^{18}O Mixtures to Identify Peptide Oxidation Products by ESI-MS/MS.; *Nukuna, Nagella; Case Western Reserve University.	MPI	265	Identifying Protein-DNA Photocrosslinks by MALDI-MS and ESI-MS/MS; *Gafken, Philip R.; Mosbaugh, Dale W.; Barofsky, Douglas F.; Oregon State University, Corvallis, OR.
MPI	252	A Comparison Of MALDI TOFMS Detection Limits For In Gel Digests From Coomassie And Silver Stained Bands; *Davis, Roderick G.; Moyer, Mary B.; Sheeley, Douglas M.; Glaxo Wellcome, Inc.	MPI	266	Zinc Binding Stoichiometry of Porcine Kidney Leucine Aminopeptidase by ESI-MS; *Jayawardene, Dhammadika; Dass, Chhabil; The University of Memphis, Memphis.
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MPI	256	Automated Ion-Trap-MSⁿ Analysis of Complex Peptide Mixtures Using MALDI-MS Mass Maps as Input Data; *Kellmann, Markus; Juergens, Michael; Zucht, Hans-Dieter; Kardel, Danilo; Schulz-Knappe, Peter; Schrader, Michael; BioVisioN GmbH Co.KG, Germany.	MPI	270	Peptide Mapping with Less-specific Enzymes and Accurate Mass Measurements; *Falick, Arnold; Hawke, David; Hall, Steven; PE Biosystems, So. San Francisco, CA.
MPI	257	Get Proteins From the TAP: A Generic Purification Procedure for Protein Complex Analysis; Rigaut, Guillaume; Schevchenko, Anna; *Seraphin, Bertrand; European Molecular Biology Laboratory, Germany.	CARBOHYDRATES		
MPI	258	Mass Spectrometry as a Tool for Investigating Protein Transport into the Nucleus; *Zhang, Wenzhu; Rout, Michael P.; Williams, Rosemary; Agate, Diana; Chait, Brian T.; The Rockefeller University, New York.	MPJ	271	Glycan site Occupancy in Carbohydrate Deficient Glycoprotein Syndromes (CDGS) by MALDI-TOF; Mills, Kevin; Winchester, Bryan; Clayton, Peter; *Johnson, Andrew; Institute of Child Health, U.K.
MPI	259	Characterisation of the Gamma subunit of Na,K-ATPase by Mass Spectroscopy. Evidence for Post-translational Modification.; *Shainskaya, Alla; Shevchenko, Andrej; Blosstein, Rhoda; Karlis, Steven; Weizmann Institute of Science, Israel; EMBL, Germany; McGill University, Canada.	MPJ	272	TLC/MALDI-FT-ICR MS and SORI-CID Analysis of Glycosphingolipids; *Guittard, Joelle; Mirgorodskaya, Ekaterina; Costello, Catherine; Boston University School of Medicine, Massachusetts.
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MPI	261	Photoaffinity Labels for Determination of Gas Phase Structure of Peptides; *Bossio, Robert; Hilinski, Edwin; Marshall, Alan; Florida State University, Florida.	MPJ	274	Characterization of Human Milk Oligosaccharides by MALDI-MS and Liquid Chromatography; *Stahl, Bernd; Finke, Berndt; Mank, Marco; Sawatzki, Guenther; Pfenninger, Anja; Bahr, Ute; Karas, Michael; Milupa Research, Germany.
MPI	262	Determination of Protein Melting Curves by Amide Hydrogen Exchange and Mass Spectrometry; *Raza, Ashraf; Deng, Yuzhong; Smith, David L.; University of Nebraska-Lincoln, Nebraska.	MPJ	275	Structurally Diagnostic Ions in the MALDI-PSD Spectra of Complex N-Linked Carbohydrates.; *David, Harvey; Bernhard, Küster; Geoffrey, Guile; David, Wing; University of Oxford (Biochemistry).
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			MPJ	277	Characterization of the Glycosylation of Pectin Methylesterase from <i>Aspergillus niger</i>; *Colangelo, Jennifer L.; Warren, Maria; Bergmann, Carl; Orlando, Ron; Complex Carbohydrate Research Center, University of Georgia, Georgia.

MPJ	278	Site-Specific Characterization of the Laccase Glycans from the White Rot Fungus <i>Pycnoporus Cinnabarinus</i>; *Zhang, Li; Li, Kaichang; Eriksson, Karl-Erik; Orlando, Ron; Complex Carbohydrate Research Center, University of Georgia, Georgia.	MPJ	290	Development of a GC/MS Methodology to Re-investigate the Path of Carbon in Photosynthesis; *MacLeod, John; Flanigan, Ian; Williams, John; Australian National University.
MPJ	279	Investigation of Pectin Methyl esterase Selectivity Using Maldi-Tof-MS with Psd Analysis; *Warren, Maria Esteban; Cook, Brian; Kester, Harry; Bergmann, Carl; Orlando, Ron; Complex Carbohydrate Research Center, University of Georgia, Georgia.	MPJ	291	Simultaneous Quantitation of C13-Glucose and C12-Glucose by GC/MS; *Phelps, Dean; Johnson, Bob; GlaxoWellcome, North Carolina.
MPJ	280	Use of Exoglycosidase Array Digestion and MALDI-TOF MS in the Structural Characterization of Oligosaccharide Moieties Associated with Lipase Glycoproteins.; *Blackledge, James; Whitton, Margie; Stevenson, Tracy; Loo, Joseph; Parke-Davis Pharmaceutical Research, Division of Warner-Lambert Company.	MPJ	292	Structure Elucidation of Sch49088: A Novel Everninomicin Antibiotic Containing an Unusual Hydroxylamino-Ether Sugar; *Bartner, P.; Jao, E.; Shipkova, P.; Das, P.; Puar, M.S.; Chan, T.M.; Saksena, A.; Pramanik, B.N.; Schering-Plough Research Institute.
MPJ	281	Identification and Sequencing Modified Peptides and Oligosaccharides with a New MALDI-TOF-TOF System; Baldwin, Michael; Medzihradszky, Katalin; Juhasz, Peter; Vestal, Marvin; Campbell, Jennifer; Chen, Xunming; Burlingame, Al; University of California, San Francisco.	MPJ	293	Location of O-Acetyl and O-Carbamoyl Substitutions in Glucosamine Derivatives by Tandem Mass Spectrometry : Applications to the Structure of Nod Factors.; *Prome, Jean-Claude; Treilhou, Michel; Ferro, Myriam; Monteiro, Candida; Prome, Danielle; Poinsot, Verena; Universite Paul Sabatier Toulouse France.
MPJ	282	Characterization of N-Linked Glycans Using LC/MS and Nanoelectrospray MSⁿ Sequence Analysis; *Sheeley, Douglas; Department of Analytical Chemistry, Glaxo Wellcome, Inc.	MPJ	294	"Internal Residue Loss" from H⁺, NH₄⁺, Li⁺ and Na⁺ Cationized Glycans in the Ion Trap; *Brüll, Lars; Thomas-Oates, Jane; Haverkamp, Johan; Utrecht University, The Netherlands.
MPJ	283	Glycan Characterization Using Derivatization, HPLC-ESIMS and FACE Methods; *Saba, Julian; Shen, Xiaodong; Jamieson, James C.; Perreault, Helene; Chemistry Department, University of Manitoba.	MPJ	295	Dissociation Mechanisms of Sialic Acid Using a Quadrupole Ion Trap MS; *Leavell, Michael; Leary, Julie; University of California, Berkeley.
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MPJ	285	Liquid Chromatography-Ion Trap Mass Spectrometry for Profiling and Characterizing Glycan Mixtures; *Delaney, Jeannine; Vouros, Paul; Knoepfler, Anna; Hronowski, Xiaoping; Domon, Bruno; Northeastern University.	MPJ	297	Cation-attachment and Fragmentation of Linear Dextran1000 Ladder by Fourier Transform Mass Spectrometry and MALDI; *Bashir, Sajid; Bottrill, Andrew; Giannakopoulos, Anastassios; Derick, Peter; Institute of Mass Spectrometry, University of Warwick, Coventry, England.
MPJ	286	Oligosaccharide Analysis by Electrospray Ionization Mass Spectrometry using Triethylamine Additive; *DeJohn, Dana; Loo, Joseph; Parke-Davis Pharmaceutical Research, MI.	MPJ	298	Analysis of Carbohydrate Structural Details in a Paul Trap; *Reinhold, Bruce; Ye, Song; Reinhold, Vernon; University of New Hampshire, Durham, NH.
MPJ	287	Study of Three-Component Non-Covalent Complexes (Cyclodextrin + Miconazole + Organic Acid) by ESI-FTICR/MS; *Gabelica, Valérie; Piel, Géraldine; Jertz, Roland; Baykut, Gökhane; De Pauw, Edwin; University of Liège (Belgium).	MPJ	299	Aminosaccharide Chain Sequence and Peculiarity Their CID for Two Yersinia Species by ESI MSⁿ; *Yuri, Elkin; Svetlana, Tomshich; Meng, Cui; Ziyang, Liu; Shuying, Liu; Pacific Institute of Bioorganic Chemistry FEB RAS, Russia.
MPJ	288	Recombinant Cte f2, a Major Allergen of Flea Bite Hypersensitivity: Glycosylation Patterns Affect IgE Binding; *McDermott, Martin J; Stedman, Kim; Sonnenberg, Michael G; Best, Elaine; Wang, Ruth; McCall, Catherine; Heska Corp.	MPJ	300	FAB CID-MS/MS for Characterization of Keratan Sulfates; *Ohashi, Mamoru; Saisu, Takumi; Hamada, Kensaku; Yoshida, Keiichi; Watanabe, Kyoko; Niwa, Haruki; Kanagawa Univ. Univ. Electro-Commun. Seikagaku-Kogyo.
MPJ	289	GC-MS² and GC-MS³ Monitoring of Trace Levels of Muramic Acid in Complex Matrices.; Kozar, Mike; Steinberg, Paul; *Fox, Alvin; Dept. Micro. & Immunol, Univ. SC, School of Medicine, Columbia, SC.	MPJ	301	Structural Characterization of Glycoprotein Permethylated Oligosaccharides by FT-ICR MS; *Viseux, Nelly; Costello, Catherine E.; Boston University School of Medicine, MA.
			MPJ	302	Structural Analysis of ABDEAE-Derivatized Oligosaccharides with Nanoflow ESI MS/MS; *Mo, Wenjun; Takao, Toshifumi; Sakamoto, Hiroko; Kagi, Noriko; Nishikawa, Atsushi; Langridge, James; Shimonishi, Yasutsuga; Institute for Protein Research, Osaka University, Osaka, Japan.
			MPJ	303	Discrimination between Neuraminic Acid Linkages in Underivatised Oligosaccharides by PSD-MALDI-TOF-MS; *Wheeler, Susan. F; Harvey, David. J; University of Oxford, Oxford, UK.

MPJ	304	Assessment of the Potential of a Range of MS Approaches for the Analysis of Lipopolysaccharides; *Olsthoorn, Maurien; Haverkamp, Johan; Holst, Otto; Thomas-Oates, Jane; Utrecht University, The Netherlands.	TPA	008	A Mass Spectrometry Laboratory for High Sample Throughput; *Rao, R.P.; Julian, R.K.; Gygi, J.D.; Goodwin, M.; Barton, J.; Smith, B.; ThermoQuest Finnigan.
MPJ	305	Glycosylation of Recombinant E-Selectin Ligand-1: a MALDI MS and ESI MS Study; *Sagi, Dijana; Huang, Min-Chuan; Letzel, Matthias C.; Metelmann, Wolfgang; Vestweber, Dietmar; Peter-Katalini, Jasna; Institute f. Med. Physics and Biophysics, University of Muenster, Germany.	TPA	009	The Analysis of Angiotensin Peptides using CE/MS/MS on an Ion Trap MS; *Phan, Dat; Schilling, Alexander; Hewlett Packard Co.
MPJ	306	Structure Determination of Lipooligosaccharides from Moraxella catarrhalis Mutants Using MALDI, Ion Trap and FT-MS; *Scheffler, N. Karoline; Cancilla, Mark T.; Campagnari, Anthony A.; Leary, Julie A.; Gibson, Bradford W.; University of California at San Francisco, CA.	TPA	010	Improving Abundance Sensitivity in Quadrupole Mass Spectrometers; *Wei, Jian; Rodgers, Rich; Pedder, Randy; ABB Extrel, Quadrupole Mass Spectrometry, PA
MPJ	307	Rapid Characterization of Complex Carbohydrates by ESI-MS and MALDI-MS; *Xu, Naxing; Wu, Huaiqin; Aboleneen, Hoda; Abbott Laboratories.	TPA	011	Stretching HED Performance to Improve Sensitivity in GC-MS and LC-MS; *Hunter, Kevin L.; Stresau, Dick; ETP Electron Multipliers, Australia.
MPJ	308	Investigation of Protein Heterogeneity Using a New Approach to Data Deconvolution; *Zhang, Kate; Wen, Doreen; Ferrige, Tony; Genzyme Corp. Framingham, MA.	TPA	012	Automatic Solid Phase Injector: a New Tool for Direct Injections on a GC/MS without Extraction; *Mottay, Philippe; Parsy, Philippe; Montgomery, Fred; Mass Evolution, Inc.
			TPA	013	Study of Taxol and Related Compounds by LC/Ion Trap Mass Spectrometry; *Grosshans, Peter; Chen, Ruidan; Zang, Li-hsin; Hitachi Instruments, Inc., California.
			TPA	014	Automated Biological Sample Preparation for MALDI and ESI Mass Spectrometry; *Gostick, Dominic; Brown, Jeffery; Howes, Kevin; Langridge, Jim; Millar, Alan; Bordoli, Robert; Micromass, Manchester, UK.
			TPA	015	Fast GC/MS of PCB in Used Oils; *Gerhards, Petra; Shimadzu Deutschland GmbH, Germany.

TUESDAY POSTERS

Tuesday posters should be set up 7:30 - 8:00 am and removed after 9:00 pm on Tuesday. Authors of odd numbered posters will attend their posters 8:45 - 10:15 am. Authors of even numbered posters will attend their posters 1:30 - 3:00 pm. All authors are encouraged to attend their posters during the lunch break on Tuesday.

SPECIAL TOPICS

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| 001 | Further Adventures of the Usenet Newsgroup sci.techniques.mass-spec; *Bostwick, David; Shealy*, Sarah; Bartmess, John; Georgia Institute of Technology, GA and University of Tennessee, TN. |
| 002 | Development of a Resource Document to Support Legal and Regulatory Applications of Mass Spectrometry; Bethem, Robert; Boison, Joe; Chakel, John; *Gale, Jane; Heller, David; Musser, Steven; Bristol-Myers Squibb Co., NJ. |

CORPORATE SCIENCE

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| TPA | 003 | Detection of High Molecular Weight Ions; *Cornett, Shannon; Park, Melvin; Bruker Daltonics, Inc., MA. |
| TPA | 004 | An Automated Sample Purification System Using LC/MS Designed to Increase Sample Throughput in the Drug Discovery Laboratory; *Brailsford, Andrew; Chumsae, Chris; Waters Corporation, Ma. |
| TPA | 005 | Single Autosampler Bed Injection and Fraction Collection for Automated Preparative Scale LC/MS; *Hoffman, Tim; Duchoslav, Eva; Yang, Min; PE Sciex, Canada. |
| TPA | 006 | The Use of LC/MS/MS in Therapeutic and Illicit Drug Monitoring Applications; Gao, Vince C.X.; *Shusha, Bori; Chan, Sum; PE Biosystems. |
| TPA | 007 | Automated Accurate Mass LC-MS and Automated LC-MS/MS of a Tryptic Digest; *Muenster, H.; Horning, S. R.; Ziberna, A. K.; Finnigan MAT GmbH Bremen, Germany. |

ION ACTIVATION & DISSOCIATION

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| TPB | 016 | Angle and Energy Resolved Surface Induced Dissociation from Self Assembled Monolayer Surfaces; *de Clercq, Helen; Fox, Joseph; Sen, Atish; Shukla, Anil; Futrell, Jean; Dept. of Chemistry and Biochemistry, University of Delaware, Newark, DE. |
| TPB | 017 | Surface Induced Dissociation of Acetone and Hexafluorobenzene: a Scattering Study; *Sen, Atish; Shukla, Anil; Futrell, Jean; University of Delaware, DE. |
| TPB | 018 | Reactive Ion/Surface Collisions for Adsorbate Geometry Distinction of Isomeric Monolayers; *Evans, Chris; Shen, Jianwei; Pradeep, T.; Cooks, R. Graham; Purdue University. |
| TPB | 019 | Novel Ion Dissociation Methods in an External Ion Source; *Hofstadler, Steven A.; Sannes-Lowery, Kristin; Griffey, Richard H.; Ibis Therapeutics, A Division of Isis Pharmaceuticals, Carlsbad, CA. |
| TPB | 020 | Simplified Fragmentation Using Commercial MS Electron Capture Dissociation; *Axelsson, Jan; Palmblad, Magnus; Hakansson, Kristina; Hakansson, Per; Uppsala University. |
| TPB | 021 | Focused Radiation for Gaseous Multiphoton Energy Transfer of Proteins: Bovine Ubiquitin & Bradykinin; *Freitas, Michael; Hendrickson, Christopher; Marshall, Alan; Florida State University, Florida. |
| TPB | 022 | A Study of Dissociation Energies of Ions via Boundary-Activated Dissociation; *Boney, Allison; Glish, Gary; University of North Carolina at Chapel Hill, North Carolina |

TPB	023	Rapid Detection of Photodissociation Products Using an Ion Trap/Linear Time-of-Flight Mass Spectrometer; *Gabryelski, Wojciech; Dunlop, Kevin; Li, Liang; Department of Chemistry, University of Alberta.	TPB	039	Mass Spectrometry of Isomeric Quasi-macrocyclic Ni(II) Complexes with SR'-isothiocarbohydrazides; *Palii, Sergiu P.; Zagorevskii, Dmitri V.; Gerbeleu, Nicolae V.; Dobrov, Anatol A.; Nemchinova, Liubov A.; Departments of Chemistry, University of Florida and Missouri-Columbia.
TPB	024	New Fragmentation Processes of Biomolecular Ions of High Kinetic Energy: Electron Loss from Collisionally Activated Ions; *Jørgensen, T.J.D.; Andersen, J.U.; Hvelplund, P.; Institute of Physics and Astronomy/University of Aarhus/Denmark.	TPB	040	Heme Non-Covalent Binding Strengths in Cyt b5 Mutants, from Controlled Low-Power IRMPD Fragmentation; *He, Fei; Freitas, Michael; Marshall, Alan; Rivera, Mario; Rodriguez, Juan; Pope, Marshall; National High Magnetic Field Lab, Florida.
TPB	025	Mechanistic Studies of High-energy CAD of Tetraalkylammonium Ions; *Seto, Carmai; Grossert, J. Stuart; Waddell, David; Curtis, Jonathan; Boyd, Robert; Dalhousie University, Canada.	TPB	041	Characterization of Inclusion Complexes of Organic Salts in Cyclodextrins; *Sadilek, Martin; Kim, In Tae; Xia, Younan; University of Washington.
TPB	026	Charge Remote and Charge Proximate Fragmentation in n-Alkytriphenylphosphonium Cations; Denekamp, Chagit; *Claeys, Magda; Pocsfalvi, Gabriella; University of Antwerp (UIA), Department of Pharmaceutical Sciences, Antwerp.	ION SOURCE INSTRUMENTATION		
TPB	027	The Study of Charge Transfer Complexes by Neutralization-Reionization Mass Spectrometry and Theory; *Wu, Jianglin; Polce, Michael J.; Wesdemiotis, Chrys; Department of Chemistry, The University of Akron.	TPC	042	Bridging the Pressure Gap: Coupling of a Drift Cell to FT-ICR MS; *Bluhm, Brian; Lipe, Linda; Russell, David; Department of Chemistry, Texas A&M University, Texas.
TPB	028	The Generation of Neutral Derivatives of Low-Valence Iron, RFe(I), by NR MS; *Zagorevski, Dmitri V.; Holmes, John L.; University of Missouri-Columbia.	TPC	043	Design and Performance of an 11 Tesla FT-ICR Mass Spectrometer; *Hendrickson, Christopher; Drader, Jared; Quinn, John; Mize, Todd; Amster, Jonathan; Marshall, Alan; National High Magnetic Field Lab, Florida.
TPB	029	Calculated Structures and Energetics for Fragment Ions of Tripeptides; *Rodriquez, Christopher; Chu, Ivan; Shoeib, Tamer; Hopkinson, Alan; Siu, Michael; York University, Toronto, ON, Canada.	TPC	044	On Improving the Performance of a FTICR Mass Spectrometer with an External Accumulation Device; *Belov, Mikhail; Udseth, Harold; Smith, Richard; Pacific Northwest National Laboratory, WA.
TPB	030	Increasing our Understanding of the Dissociation Mechanisms Governing Peptide Fragmentation: The Influence of Charge and Proton Location; *Tsaprailis, George; Nair, Hari; Wysocki, Vicki H.; Zhong, Wenqing; Futrell, Jean H.; The University of Arizona.	TPC	045	An Improved, Versatile Nano-Electrospray Source for FT-ICR Mass Spectrometry; *Easterling, Michael; Li, Yunzhi; O'Connor, Peter; Hunter, Richard; McIver, Robert; IonSpec Corporation.
TPB	031	Low Energy CAD of Peptides; *Timofeev, Oleg; Gross, Michael; Washington University in St. Louis.	TPC	046	Quadrature Detection to Distinguish Positive from Negative Ions in FT-ICR Mass Spectrometry; *Drader, Jared; Schweikhard, Lutz; Shi, Stone; Hendrickson, Christopher; Marshall, Alan; National High Magnetic Field Laboratory, Florida.
TPB	032	ESI/SID Fragmentation Spectra of Peptides Containing D- or L-Stereoisomers; *Breci, Linda; Smith, Lori; Tsaprailis, George; Wysocki, Vicki H.; University of Arizona.	TPC	047	Mass-Selective Ion Accumulation and Fragmentation in an External Linear Octopole Trap for FT-ICR MS; *Wang, Yang; Shi, Stone; Hendrickson, Christopher; Marshall, Alan; National High Magnetic Field Lab, Florida.
TPB	033	A Study of the Dissociation of Singly and Doubly Protonated Diaminoalkanes Form by Electrospray; *Zhou, Xuedong; Shukla, Anil; Futrell, Jean; University of Delaware.	TPC	048	Performance Characteristics of a 9.4 Tesla FT-ICR Mass Spectrometer; *Hakansson, Per; Axelsson, Jan; Hakansson, Kristina; Palmblad, Magnus; Jertz, Roland; Baykut, Gokhan; Uppsala University, Sweden.
TPB	034	Fragmentation of Alkaliated Bile Salts Anions; Stroobant, Vincent; *de Hoffmann, Edmond; Catholic University of Louvain at Louvain-la-Neuve, Belgium.	TPC	049	TOF/Energy Selective SID Studies of Model Peptides using Bruker 7T FT ICR Mass Spectrometer; *Rakov, V. Sergey; Denisov, Eduard V.; Nikolaev, Eugene N.; Wronka, John; Futrell, Jean H.; University of Delaware.
TPB	035	No Title Provided; *Jensen, Ray; Graul, Susan; Carnegie Mellon University.	TPC	050	Thermochemical Properties of Matrix Ions and Consequences for Ion Formation in MALDI; *Breuker, Kathrin; Knochenmuss, Richard; Zenobi, Renato; ETH Zuerich, Switzerland.
TPB	036	CID of a Growth Hormone Secretagogue in an Ion Trap Mass Instrument; *Qin, Xue-Zhi; Merck & Co.	TPC	051	Elemental Analysis of Alloy and Ceramic Samples by Using Laser Ablation Ion Trap Mass Spectrometry(LA-ITMS); *Lee, Sang-Chun; Song, Kyuseok; Park, Hyunkook; Cha, Hyungki; Lee, Jongmin; Kyungnam University & KAERI, S. Korea.
TPB	037	No Title Provided; *Willard, Belinda; Graul, Susan; Carnegie Mellon University.			
TPB	038	Ion-Neutral Complexes in the Dissociation of Substituted Oxonium Ions; *Tu, Ya-Ping; Holmes, John L.; University of Ottawa, Canada.			

TPC	052	Linear Dispersion Mass Spectrometer; *Scheidemann, Adi; Darling, Bruce; Jones, Patrick; Schumacher, Frank; Isakharov, Arthur; University of Washington, Department of Chemistry.	TPC	068	Properties of a New Ion Funnel; *Kim, Taeman; Tolmachev, Aleksey; Prior, David C.; Anderson, Gordon A.; Udseth, Harold R.; Smith, Richard D.; Pacific Northwest National Laboratory, WA.
TPC	053	The Development of High Performance Microchannel Plate for Mass Spectrometer; *Iguchi, Masahiko; Matsumoto, Masayuki; Okumura, Kazuaki.	TPC	069	Study on New Ionization Sources for Non-conductive Samples by Using Low Pressure-Inductively Coupled Plasma and Rf-Glow Discharge; *Lee, Sang-Chun; Choi, Kyu-Seong; Choi, Yongsoo; Im, Hoongsun; Park, Changjoon; Kim, Hasuck; Kyungnam University, S. Korea.
TPC	054	A High Performance Ion Lens for Time-of-Flight Mass Spectrometry; *Park, Melvin; Bruker Daltonics, Inc., MA.	TPC	070	A Novel Ultrasonic Nebulizer for Atmospheric Pressure Chemical Ionization Mass Spectrometry; *Campbell, J. Larry; Ramaley, Louis; Department of Chemistry, Dalhousie University, Halifax, Nova Scotia, Canada.
TPC	055	Achieving 5000 Resolution and Low ppm m/z Accuracy on a Linear ESI-TOF-MS?; *Rockwood, Alan; Lee, Edgar; Sin, Joseph; Sensar Larson-Davis.	TPC	071	Fringing Field Modifications of a 24-mm Long RF-Only Quadrupole Mass Specctrometer; *Hager, James; Perkin-Elmer SCIEX.
TPC	056	TRIO-TOF, A Computer Code for Third-Order Calculations of Ion Flight Times; *Sakurai, Toru; Matsuo, Takekiyo; Jaist, Japan.	TPC	072	Mass Spectrometry Using Miniature Quadrupole Arrays; *Boumsellek, Said; Ferran, Robert; Ferran Scientific Inc. CA.
TPC	057	Ion Optical Properties of Quadratic Potential Mirrors.; *Thompson, Steve; Scientific Analysis Instruments Ltd.	TPC	073	A Novel Tandem Quadrupole Mass Analyzer; *Du, Zhaohui; Douglas, Don; Department of Chemistry/University of British Columbia.
TPC	058	OVAL, A New Time-of-Flight Mass Spectrometer at JAIST; *Sakurai, Toru; Nakabushi, Hiromitsu; Hiasa, Toshikazu; Okanishi, Kenji; Jaist, Japan.	TPC	074	Development of a Hybrid Quadrupole Ion Trap / Quadrupole Mass Filter Mass Spectrometer; *Murphy III, James P.; McClellan, Joseph E.; Yost, Richard A.; University of Florida.
TPC	059	Achieving High Performance in Hadamard Transform Time-of-Flight Mass Spectrometry; *Brock, Ansgar; Rodriguez, Nestor; Zare, Richard; Stanford University, CA.	TPC	075	A Low Volume Ion Source for Negative Ion Chemical Ionization Mass Spectrometry; *Stemmler, Elizabeth; Colin, Segovis; Joshua, Pacheco; Sarah, Abramson; Florence, Lucas; Bowdoin College, Brunswick ME.
TPC	060	Miniature MALDI/Time-of-Flight Mass Spectrometer with End-cap Reflectron; *Doroshenko, Vladimir; Lippa, Timothy; Taranenko, Nelli; Cotter, Robert; Prasad, Coorg; Science and Engineering Services Inc., Maryland.	TPC	076	Electromembran Ion Source: Basic Processes; *Balakin, Alexander; Balakina, Ekaterina; Dodonov, Alexander; Novikova, Lyudmila; Talrose, Victor; Institute of Energy Problems of Chemical Physics, RAS.
TPC	061	A Simple Geometry Ion-Mirror for Improved Energy-Focusing in TOFMS; *Zhang, Jun; Gardner, Ben; Enke, Christie; University of New Mexico.	TPC	077	Resistive Stabilization of ESI; *Jackson, George; Constantopulo, Terri; Lindley, Nadja; Enke, Christie; University of New Mexico, New Mexico.
TPC	062	Gas Phase Ionization for High-speed GC/TOFMS; *Gardner, Ben; Holland, John; Enke, Christie; University of New Mexico.	TPC	078	Development of Direct Electrospray Probes to Detect Biological Compounds; *Shiea, Jentai; Kuo, Chi-Pin; Lee, Chwn-Tzong; Yuan, Cheng-Hui; National Sun Yat-Sen University, Kaohsiung, Taiwan.
TPC	063	GC-MS Automated High Throughput Exact Mass Measurement Using a Time of Flight Mass Spectrometer; *Green, Martin R.; Bateman, Robert H.; Carruthers, Robin A.; Gilbert, Tony A; Micromass UK Ltd.	TPC	079	Characterization of New Spray and Spray-Sampling Devices for Biological Sample Analysis Using Atmospheric Pressure Ionization; *Kambouris, Sara; Wakefield, Michael; Mylchreest, Iain; Tang, Keqi; Campbell, Clay; Finnigan Corporation.
TPC	064	MALDI Experiments with Individual Microparticles; Li, Liang; *Chakel, John; Myerson, Joel; Hancock, Bill; U. Alberta (Canada)/Hewlett-Packard Labs (California).	TPC	080	Comparison of Detection Limits of Electrochemistry / Electrospray-MS and APCI-MS; *Zhang, Ze; Cole, Richard B.; University of New Orleans, LA.
TPC	065	Increasing the Duty Cycle for Time-of-Flight by Trap-Pulse Mode; *Andrien, Jr., Bruce; Whitehouse, Craig; Gulcicek, Erol; Analytica of Branford, Inc.	TPC	081	Tandem Micro Electrospray; *Sanders, Phillip; Pharmacia & Upjohn.
TPC	066	Charge Reduced ESI with a Differential Mobility Analyzer of Biopolymers and Non-Covalent Complexes; Allmaier, Guenter; Kaufman, Stan; *Szymanski, Wladyslaw; Inst. f. Exp. Phys./University of Vienna/ Austria.	TPC	082	Development of a Miniaturized Endcap Reflectron TOF-MS with an X-Y Translation Stage for Scanning MALDI Chips; *Fancher, Charles; Woods, Amina; Cotter, Robert; Department of Pharmacology, Johns Hopkins University, MD 21205.
TPC	067	Ion Focusing Characteristics of the Stacked Ring "Ion Funnel" Operating at Elevated Pressures; *Tolmachev, Aleksey; Udseth, Harold; Smith, Richard; Pacific Northwest National Laboratory, Richland, WA.			

TPC 083	The Double Focusing Mass Spectrometer DFMS for the Rosetta Space Mission To Comet Wirtanen; *Lange, Klaus; Schoenemann, Anja; Balsiger, Hans; Altwegg, Kathrin; Arijs, Etienne; Berthelier, Jean-Jaques; Fuselier, Stephen; Gombosi, Tamas; Physikalisches Institut, University of Bern, Switzerland.	TPD 095	Affinity Mass Spectrometry for the Characterization of Expressed Single Chain Antibodies in Bacterial Extracts; *LeRiche, Tammy; Wehbi, Roula; MacKenzie, Roger; Thibault, Pierre; Institute for Biological Sciences/NRC/100 Sussex Dr./Ottawa, Ontario K1A 0R6.
TPC 084	A Small Time-of-Flight Mass Spectrometer for Spacecraft Applications; *Casares, Antonio; Kholomeev, Alexander; Nankov, Nikolay; Roll, Reinhard; Rosenbauer, Helmut; Wollnik, Hermann; II.Phys. Institute, Justus Liebig University.	TPD 096	Development of Separation and Mass Spectrometric Methods for Identification of Low-Mass Bacterial Peptides and Proteins; *Wang, Zhengping; Doucette, Alan; Keller, Bernd O.; Li, Liang; Roser, Dennis C.; Long, S. Randolph; Dept. Chem., University of Alberta, ERDEC, Aberdeen Proving Ground, MD.
TPC 085	Design and Performance Characteristics of a Multiple Reflectron TOF-MS for Space Applications; *Scherer, Stefan; Altwegg, Kathrin; Balsiger, Hans; Hohl, Markus; Mildner, Mark; Wurz, Peter; Zigerlig, Benno; Zipperle, Mark; Physics Department, University of Bern, Switzerland.	TPD 097	Protein Identification by Capillary LC/MS/MS and Sequence Tag Approach of Database Search; *Huang, Peiqing; Wall, Dan; Jin, Xiaoying; Chen, Yajuan; Lubman, David M.; Department of Chemistry, University of Michigan, MI.
TPC 086	A MALDI-Ion Trap-ToF Mass Spectrometer; *Kawatoh, Eizoh; Tanaka, Koichi; Ding, Li; Smith, Alan; Kumashiro, Sumio; Shimadzu Research Laboratory(Europe) Ltd.	TPD 098	Identification of Proteins in Complex Mixtures by LC-MS/MS and CE-MS/MS Following Digestion in Solution; *Gloor, Kristen; Cao, Ping; Arnott, David; Genentech, Inc., California.
TPC 087	Methodology for Accurate-Mass MSⁿ Analysis of Natural Products by FT-ICR Mass Spectrometry.; *Gates, Paul; Kruppa, Gary; Staunton, Jim; University of Cambridge, United Kingdom.	TPD 099	PROTEOMICS of Brain Using Multi-Dimensional Separation Sciences Combined with ESI/TOFMS; *Seta, Kazuo; Taoka, Masato; Yamakawa, Yoshio; Isobe, Toshiaki; PE Biosystems Japan.
TPC 088	Ion Stability Regions and Motion in Linear Ion Trap by SIMION 6.0; *Li, Guo-Zhong; Tomany, Michael J.; Jarrell, Joseph A.; Waters Corporation, MA, USA.	TPD 100	Higher-Throughput Cytochrome P450 Enzyme Inhibition Analysis by APCI-HPLC/MS/MS; *Chu, Inhou; Favrea, Leonard; Soares, Tony; Lin, Chin-chung; White, Ronald; Nomeir, Amin A.; Schering-Plough Research Institute, NJ.
TPC 089	Novel Orthoganol Sampling Adapters for Beating Involatile Salts on Heated Capillary API Sources; *Mylchreest, Iain; Tang, Keqi; Campbell, Clay; ThermoQuest.	TPD 101	Analysis of Reduced and Oxidized Forms of Cytochrome C by CE and CE-MS; *He, Tao; Chandramouli, Nagarajan; Fu, Emil; Wu, Arthur; Wang, Y. Karen; Novartis Pharmaceuticals Corporation.
TPD 090	Determination of Potential Diagnostic Biomarkers for Onset of Alzheimer's Disease: Role of On-Line Chromatography-Mass Spectrometry; *Crow, Frank W.; Clarke, Nigel J.; Johnson, Kenneth L.; Younkin, Steven G.; Naylor, Stephen; Mayo Foundation.	TPD 102	Characterization of Minor Components in Protein Pharmaceuticals by Liquid Chromatography Mass Spectrometry; *Yu, X. Christopher; Schafer, Mark; Boosman, Albert; Masiarz, Frank; Kresin, Lilia; Nebel, Raija; Kunitani, Michael; Kaur, Surinder; Chiron Corporation.
TPD 091	Mapping Phosphorylation Sites in p38 MAP Kinase Using an Ion Trap Mass Spectrometer; *Gale, Brenda; Bleibaum, Janice; Comstock, Kate; Villasenor, Armando; Browner, Michelle; Straub, Kenneth; Roche Bioscience Palo Alto, CA.	TPD 103	Integrated Technologies for the Determination of Phosphorylation Sites; *Corthals, Garry; Gallis, Byron; Figeys, Daniel; Goodlett, David; Corson, Marshall; Aebersold, Ruedi; The Garvan Institute of Medical Research, Sydney, NSW, Australia.
TPD 092	Studies of the Alcohol Dehydrogenase Isoenzymes from human liver by CIEF-ESI-FTMS; *Martinovic, Suzana; Pasa-Tolic, Ljiljana; Jensen, Pamela; Shen, Yufeng; Stone, Carol; Smith, Richard; Pacific Northwest National Laboratory, WA.	TPD 104	Microdevices for Peptide and Protein Analysis with Electrospray Mass Spectrometry; *Foret, Frantisek; Zhang, Bailin; Karger, Barry L.; Barnett Institute, Northeastern University, MA.
TPD 093	Qualitative Profiles of Biological Fluids Using Reverse Phase HPLC-Electrospray Mass Spectrometry; *Murphy, Constance; Unsworth, Edward; Markey, Sanford; NIMH, USA.	TPD 105	Preconcentration-Capillary Electrophoresis-Tandem Mass Spectrometry (PC-CE-MS/MS): Protein Identification and Phosphopeptide Analysis; *Cao, Ping; Stults, John; Genentech, Inc.
TPD 094	Sheathless Nanoscale HPLC-ESI/MS(n) in Proteome Research and MHC Bound Peptide Identification.; *Meiring, Hugo D.; Barroso, Begona; van der Heeft, Ed; ten Hove, Jan; de Jong, Ad; National Institute, The Netherlands.	TPD 106	Sample Preconcentration on a Microchip for CE-ESI-MS; *Wang, Can; Harrison, D. Jed; Li, Jianjun; Thibault, Pierre; University of Alberta and National research council, Canada.
		TPD 107	Rapid Protein Profiling of Induced Proteins in Bacteria Via MALDI-TOFMS Detection of NP RP HPLC Separated Cell Lysates; *Wall, Daniel; Lubman, David; Flynn, Shannon; University of Michigan.

SEPARATIONS

TPD 090	Determination of Potential Diagnostic Biomarkers for Onset of Alzheimer's Disease: Role of On-Line Chromatography-Mass Spectrometry; *Crow, Frank W.; Clarke, Nigel J.; Johnson, Kenneth L.; Younkin, Steven G.; Naylor, Stephen; Mayo Foundation.	TPD 102	Characterization of Minor Components in Protein Pharmaceuticals by Liquid Chromatography Mass Spectrometry; *Yu, X. Christopher; Schafer, Mark; Boosman, Albert; Masiarz, Frank; Kresin, Lilia; Nebel, Raija; Kunitani, Michael; Kaur, Surinder; Chiron Corporation.
TPD 091	Mapping Phosphorylation Sites in p38 MAP Kinase Using an Ion Trap Mass Spectrometer; *Gale, Brenda; Bleibaum, Janice; Comstock, Kate; Villasenor, Armando; Browner, Michelle; Straub, Kenneth; Roche Bioscience Palo Alto, CA.	TPD 103	Integrated Technologies for the Determination of Phosphorylation Sites; *Corthals, Garry; Gallis, Byron; Figeys, Daniel; Goodlett, David; Corson, Marshall; Aebersold, Ruedi; The Garvan Institute of Medical Research, Sydney, NSW, Australia.
TPD 092	Studies of the Alcohol Dehydrogenase Isoenzymes from human liver by CIEF-ESI-FTMS; *Martinovic, Suzana; Pasa-Tolic, Ljiljana; Jensen, Pamela; Shen, Yufeng; Stone, Carol; Smith, Richard; Pacific Northwest National Laboratory, WA.	TPD 104	Microdevices for Peptide and Protein Analysis with Electrospray Mass Spectrometry; *Foret, Frantisek; Zhang, Bailin; Karger, Barry L.; Barnett Institute, Northeastern University, MA.
TPD 093	Qualitative Profiles of Biological Fluids Using Reverse Phase HPLC-Electrospray Mass Spectrometry; *Murphy, Constance; Unsworth, Edward; Markey, Sanford; NIMH, USA.	TPD 105	Preconcentration-Capillary Electrophoresis-Tandem Mass Spectrometry (PC-CE-MS/MS): Protein Identification and Phosphopeptide Analysis; *Cao, Ping; Stults, John; Genentech, Inc.
TPD 094	Sheathless Nanoscale HPLC-ESI/MS(n) in Proteome Research and MHC Bound Peptide Identification.; *Meiring, Hugo D.; Barroso, Begona; van der Heeft, Ed; ten Hove, Jan; de Jong, Ad; National Institute, The Netherlands.	TPD 106	Sample Preconcentration on a Microchip for CE-ESI-MS; *Wang, Can; Harrison, D. Jed; Li, Jianjun; Thibault, Pierre; University of Alberta and National research council, Canada.
		TPD 107	Rapid Protein Profiling of Induced Proteins in Bacteria Via MALDI-TOFMS Detection of NP RP HPLC Separated Cell Lysates; *Wall, Daniel; Lubman, David; Flynn, Shannon; University of Michigan.

TPD	108	Measurement of Natural and Induced Levels of Nitric Oxide Modified Hemoglobin in Human Blood; *Pannell, Lewis; Conway, Deirdre; Nawrocki, Joeseph; Hrinczenko, Borys; Gladwin, Mark; Noguchi, Constance; Schechter, Alan; National Institutes of Health.	TPD	121	D2O Mobile Phase: a Tool for Structure Elucidation of Pharmaceutical Degradation Products/Impurities.; *Cummings, Paul; Olsen, Mark; Kennedy-Gabb, Sonya; Wagner, Brian; Nicol, Gordon; Munson, Burnaby; SmithKline Beecham/University of Delaware.
TPD	109	A Low-Flow, Nanoscale LC - Nanoelectrospray MS/MS Interface for Protein Characterization; *Kast, Juergen; Neubauer, Gitte; Wilm, Matthias; EMBL Heidelberg, Germany.	TPD	122	Characterization of Lignite-derived Compounds from Aqueous solution by Measn of High-performance Liquid Chromatography/electrospray Mass Spectrometry; *Frauendorf, Holm; Herzschuh, Rainer; University of Leipzig.
TPD	110	The Impact of Dynamic Exclusion Utilities on the LC/MS/MS Analyses of Complex Digest Mixtures.; *Davis, Michael; Robinson, John; McGinley, Mike; Bures, Ted; Spahr, Chris; Beierle, Jill; Courchesne, Paul; Patterson, Scott; Amgen, Inc.	TPD	123	Electrochemically-Modulated Preconcentration and Cleanup Coupled On-Line with ES-MS; *Van Berkel, Gary; Pretty, Jack; Deng, Haiteng; Oak Ridge National Laboratory, Oak Ridge, TN 37831-6365.
TPD	111	On-Line Membrane-Based Immobilized Metal Affinity Purification for the Analysis of Phosphopeptides by Capillary LC-MS; *Yang, Qing; Johnson, Kenneth L.; Naylor, Stephen; Mayo Foundation.	TPD	124	Isotope Dilution Quantitative LC/MS Determination of Benzodiazepines in Serum Utilizing Solid Phase and Liquid-Liquid Extraction; *Boyer, Arthur; Shimadzu Scientific Instruments, Inc.
TPD	112	LC/ES-MS-MS: Investigation of Peptide Nitration in The Presence of ONOO⁻ Scavengers; *Rovatti, Luca; Glaxo Wellcome, Verona Italy.	TPD	125	A Normal Phase LC/MS/MS Bioanalytical Method of Pantoprazole: Elimination of Matrix Effect; *Gao, Ji; Sukovaty, Richard; Weng, Naidong; Lee, Jean; Lin, Patrick; MDS Harris, Inc., Nebraska.
TPD	113	Rapid Analysis Of Tetracycline Antibiotics in Milk by Combined Solid-Phase Microextraction High Performance Liquid Chromatography Mass Spectrometry; Lock, Chris; Chen, Luke; Volmer, Dietrich; *Boyd, Robert; Institute for Marine Biosciences, National Research Council Canada.	TPD	126	Study of Cardanol and its Related Phenols in Cashew Nut-Shell liquid by GC/MS; *Davis, Darryl; Kobarjard, Farzad; Eshraghi, Jamshid; University of the Sciences in Philadelphia.
TPD	114	Quantitation of Tramadol and Desethyl Tramadol in Human Plasma by LC/MS/MS; *Zhang, Yizhong; Mallet, Claude; Larocque, Jean-Francois; Kavetskaia, Olga.	TPD	127	Identification and Characterization of Paclitaxel and Related Taxanes From Taxus Cupidata Densiformis by LC/ESI/MS and LC/ESI/MS/MS; *Nguyen, Thanh; Gonyea, George; Smith, Robert; Eshraghi, Jamshid; University of the Sciences in Philadelphia.
TPD	115	Analysis of Pesticides by LC/MS with Post-column Removal of Nonvolatile Buffers; *Gardner, Michael; Voyksner, Robert; Haney, Carol; North Carolina State University, North Carolina.	TPD	128	Evaluation of LC-TOFMS for Exact Mass Measurement of Complex Mixtures and Trace Components; *Chang, Ted; Piquette, Michael; Lin, Melanie; Finch, Jeffrey; Cytec Industries Inc.
TPD	116	Determination of Melatonin in Plasma, Using On-line SPE and LC-MS Detection.; *Imrie, Gregg; Noctor, Terry; Cawkill, Karen; Covance, Harrogate, UK.	TPD	129	Automated Predictive Profiling of Drug Candidates Using LC/MS and LC/MS/MS; *Rourick, Robyn; Li, Michael; Fink, Saul; Cadavid, Juan; Hail, Mark; Klohr, Steven; Volk, Kevin; Bristol-Myers Squibb, CT, NJ.
TPD	117	High Resolution LC/MS for Analysis of Minor Degradation Products of Novel Antibiotics in Complex Mixtures; *Shipkova, Petia; Heimark, Larry; Bartner, Peter; Pramanik, Birendra; Ganguly, Ashit; Cody, Robert; Kusai, Akihiko; Schering-Plough Research Institute.	TPD	130	High Specificity and Precision of the Method for Routine Steroids Analysis; *Bérubé, René; Gauvin, Dominic; Blais, Martine; Beaudoin, Jacqueline; Noreau, Louise; Bélanger, Alain; Endorecherche.
TPD	118	Specificity of LC/MS Ion Sources for Optimum Quantitation of Biological Samples; *Demers, Roger; DiFabio, Roberta; Matassa, Luca; Maxxam Analytics Inc.	TPD	131	On-Line Sample Extraction using Turbulent Flow Chromatography with MS/MS Detection; *Le Blanc, J.C.Yves; Niggebrugge, Adlai E.; Lachance, Danielle J.; Dourambeis, Carl; Phoenix International Life Sciences.
TPD	119	Gas Chromatography-Mass Spectrometry(GC-MS): Detection of Pharmaceutical Adulterants in Herbal Medicines Used in Saudi Arabia; Al-Tufail, Mohammed; Mahier, Thomas; *Haq, Afrozul; King Faisal Specialist Hospital, Saudi Arabia.	TPD	132	Direct Analysis of Microsomal Incubate for Metabolite Profiling Using Turbulent-Laminar Flow LC/LC/MS/MS.; *Lim, H.K.; Sisenwine, S.; Chan, K.W.; Wyeth-Ayerst Research.
TPD	120	Identification of Photolysis Products of Oryzalin Using a Combination of MSⁿ with Accurate MS and MS/MS.; *Balcer, Jesse; Gilbert, Jeffrey; Yoder, Robin; Dow AgroSciences, Indiana.	TPD	133	LC/MS/MS quantitation of Lovastatin and its Metabolite and Simvastatin and its Metabolite in Human Plasma; *Ionita, Antoaneta; Zang, John; Kavetskaia, Olga; LAB Pharmacological Research Intl. Inc.
			TPD	134	Fast LC/MS Determination of Pharmaceutical Compounds; *Heinig, Katja; Henion, Jack; Cornell University, NY.

TPD	135	Development of an Analytical Method to Confirm and Quantify 29 ALS Inhibitors in Surface Water Using Electrospray LC-MS.; *Rhoden Bryant, Barbara; Orescan, David; Babicki, Walter; Goodenow, Dayan; Duffy, Michael; DuPont, Delaware.	TPE	148	Application of Solid Phase Microextraction GC/MS to the Characterization of Hydrophilic Disinfection By-Products; *Shoemaker, Jody; Magnuson, Matthew; U.S. EPA, Office of Research and Development, Ohio.
TPD	136	The Application of QC/GMP Laboratory System Suitability Guidelines to LC/MS/MS Bioanalysis; *Matassa, Luca; Magdic, Sonia; Paterson, Patricia; Maxxam Analytics Inc.	TPE	149	Emission of Volatile Organic Compounds From Cut Grass and Crops: Analysis by Proton-Transfer Chemical Ionization Mass Spectrometry and HPLC.; *Custer, Thomas; Fall, Ray; de Gouw, Joost; Howard, Carleton; University of Colorado at Boulder.
TPD	137	Straightforward Solid-Phase Extraction Method Development Strategy; *Cheng, Yung-Fong; Bonin, Robert; Ding, Jianmei; Lu, Ziling; Neue, Uwe; Phillips, Dorothy; Woods, Laura; Waters Corporation, Milford, MA.	TPE	150	A Rapid Screening Procedure for the Analysis of Radiolytic Organic Vapor Using Solid Phase Microextraction (SPME) and SPME In-Situ Derivatization; *Alcaraz, Armando; Whipple, Richard; Grant, Patrick; Andresen, Brian; Lawrence Livermore National Laboratory/California.
TPD	138	Degradate Identification for an Insulin Sensitizer in Stressed Tablets by LC/MS and LC/MS/MS; *Wu, Henry; Feng, Kung-I; Wang, Michael; Tank, Jitesh; Matuszewska, Bozena; Grim, Yvetta; Merck & Co., Inc., PA.	TPE	151	Migration of Chemicals Along the Tobacco Rod in Cigarettes; *Watson, Clifford; Ashley, David; Centers for Disease Control and Prevention.
TPD	139	Quantitative Bioanalytical Applications Using a Hewlett-Packard 1100 LC/MSD System.; *Kavetskaia, Olga; Mallet, Claude; Allard, Martine; Cote, Linda; LAB Pharmacological Research Intl., Inc., Canada; Hewlett-Packard (Canada).	TPE	152	GC-MS Measurement of Nicotine and Cotinine in Indoor Dust; *Song, Siqing; Quintana, P.J.E.; Matt, Georg E.; Ashley, David; Centers for Disease Control and Prevention, GA.
TPD	140	Chiral Analysis of Methylphenidate and Ritalinic Acid Enantiomers in Plasma Using LC/MS/MS with Post Column Addition; *Zhan, Qiao; Allen, Mike; Harvan, Donald; Triangle Laboratories, Inc.	TPE	153	Mass Spectrometrical Characterization of Atmospheric Aerosols; Trimborn, Achim; Hinz, Klaus-Peter; *Spengler, Bernhard; Institute of Physical Chemistry, University of Wuerzburg, Germany.
TPD	141	Screening for Inhibitors of Cyclooxygenase-2 Using Pulsed Ultrafiltration Mass Spectrometry; *Nikolic, Dejan; Corley, David G.; Goudarzi, Sohrab Habibi-; Gafner, Stefan; van Breemen, Richard B.; University of Illinois at Chicago.	TPE	154	Characterization of Chloroform Emissions During Extended Showers by GC/MS; *Benoit, Frank; Nicolidakis, Helen; Mori, Brian; Health Canada.
TPD	142	A Sensitive and Rapid Automated LC/MS/MS Assay of Buprenorphine and Norbuprenorphine in Human Plasma; *Paterson, Patricia; Marr, Julie; Demers, Roger; Drogaris, Paul; DiFabio, Roberta; Matassa, Luca; Maxxam Analytics Inc.	TPE	155	Quantitative Determination of Carbonyl Compounds in Ambient Air Samples Using Atmospheric Pressure Chemical Ionisation Mass Spectrometry; *Zurek, Gabriela; Luftmann, Heinrich; Karst, Uwe; Loftus, Neil; University of Muenster, Germany.
TPD	143	Rapid Screening for Metabolites Using Automated Method Building and Data Acquisition; *Higton, David; Fenton, Dawn; Robson, John; Duchoslav, Eva; Glaxo Wellcome R&D, PE-Sciex.	TPE	156	Emissions from MSW Aerobic Treatment Plants: Considerations from a Field Study with a Portable GC/MS and a Laboratory Study; *Davoli, Enrico; Giavini, Michele; Pierucci, Paola; Benfenati, Emilio; Fanelli, Roberto; Mario Negri Research Institute, Italy.
TPD	144	A Novel Data Analysis Algorithm that Enables LC/MS Quantification with a Generic Standard and Minimal Chromatographic Resolution; *Qian, Mark; Taylor, Eric; Jia, Weiping; Dollinger, Gavin; Chiron Technologies, California.	TPE	157	Investigation of Gaseous Siloxane Contamination on Mir Space Station; *DePeralta, Galahad; Palmer, Peter; San Francisco State University.
TPD	145	Liquid Adsorption Chromatography near Critical Conditions of adsorption Coupled with Matrix-assisted Laser Desorption/Ionization Mass Spectrometry; Much, H.; *Weidner, St.; Falkenhagen, J.; Krüger, R. P.; Schulz, G.; Friedrich, J. F.; Federal Institute for Materials Research and Testing, Germany	TPE	158	Low Levels of Ambient Air Pollutants in the Environment Close to Air Intakes of Office Buildings in the Midwestern U.S.; *Subramanian, Periyasamy; Reynolds, Stephen; Breuer, George; Jones, Martin; Cain, Terrance; Negley, John; Waldron, Peter; Johnson, John; School of Public Health, The University of Iowa.
TPD	146	TBA	TPE	159	EPA Method TO1/TO2 Air Analyses by Automated Short Path Thermal Desorption-Gas Chromatography-Mass Spectrometry; *Das, Vinod T.; Manura, John J.; Hartman, Thomas G.; Center for Advanced Food Technology, Rutgers University, New Jersey.
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TPE	147	Study of Cyclization of Chelating Compounds Using ESI-MS; Shi, Ying; *Campbell, James; Battelle, Pacific Northwest National Laboratory.			

TPE	160	Determination of Sulfonylurea, Imidazolinone, and Sulfonamide Herbicides at ng/L Concentrations by HPLC/MS; *Furlong, Edward; Burkhardt, Mark; Gates, Paul; Werner, Stephen; National Water Quality Laboratory, U.S. Geological Survey.	TPE	174	Analysis of Fire Ant Pesticides in a Quadrupole Ion Trap Mass Spectrometer; *Reyzer, Michelle; Tigelaar, Jeremy; Brodbelt, Jennifer; The University of Texas at Austin, Texas.
TPE	161	A Quantitative LC/MS Residue Method for Spinosad in Five Agricultural Commodities; *Schwedler, Debbie; Thomas, Angelea; Yeh, Li-Tain; Dow AgroSciences.	TPE	175	Quantitative Determination of Pesticides in Environmental Samples Using Atmospheric Pressure Ionisation-Mass Spectrometry and Capillary LC with in-Volatile Buffer Components; *Loftus, Neil; Koetzner, Stephen; Schindler, Suzanne; Shimadzu GmbH.
TPE	162	Sulfonylurea Herbicide Determination by Post Column Reaction Micro LC Coupled to ESI-MS-MS; *Holmes, William E.; Lynn, Jr., Bert C.; Mississippi State University, Mississippi.	TPE	176	Development of Quantitative Analysis for Pesticide in Complex Environmental Matrices Using External and Internal Standards; *Choi, Bernard; Gusev, Arkady; Hercules, David; Rohm and Haas Co., PA. Vanderbilt University Chemistry Dept., TN.
TPE	163	No Title Provided; *Block, Eric; Yu, Kate; Young, Michael; Waters Corporation.	TPE	177	Analysis of Sulfonylurea Herbicides Using Online SPE with LC/Electrospray Ion Trap MS; Gardner, Michael; *Voyksner, Robert; Haney, Carol; Research Triangle Institute, North Carolina.
TPE	164	Studies of Pesticides by Collision Induced Dissociation Postsource Decay (CID-PSD) MALDI MS; *Cheng, Ying; Hercules, David M.; Houalla, Marwan; Vanderbilt University.			DRUGS AND METABOLISM
TPE	165	LC/MS/MS Analysis of Aflatoxins in Food Samples Using an Ion Trap; *Kiehne, Andrea; Reif, Klaus; Zey, Thomas; Ingendoh, Arnd; Bruker Daltonik GmbH, Germany.	TPF	178	Determination of Oxycodone, Oxymorphone, and Noroxycodone in Human Plasma by LC-MS/MS; *Brockman, Adam; Olukayode, Oluyedun; Dan, Unruh; Covance Laboratories.
TPE	166	Determination of Carbaryl in Food using LC/Electrospray-Ion Trap MS/MS; Keever, Jeffrey; Voyksner, Robert; *Albritton, John; Roberds, Mike; Pellizzari, Edo; Research Triangle Institute, North Carolina.	TPF	179	Quantitative Determination of D-Pinitol In Raw Material and Nutraceutical Formulations Using GC/MS; *Gauthier, Jeffrey; Enzymatic Therapy, Wisconsin.
TPE	167	GC-MS/MS Of Pesticide Dialkyl Phosphate Metabolites; *Driskell, William; Barr, Dana; Beeson, Michelle; Harmon, Inga; Centers for Disease Control, NCEH.	TPF	180	Rapid Determination of Amiodarone and its Metabolite Desethylamiodarone in Human Serum by Liquid Chromatography/Mass Spectrometry (LC/MS); *Gunawan, Sonny; Li, Shuguang; Specialty Laboratories, Santa Monica, CA.
TPE	168	Development of Qualitative and Quantitative Analysis of Agricultural Compounds in Complex Matrices Using Quadrupole and Time-Of-Flight LC/MS Systems; *Gusev, Arkady; Choi, Bernard; Hercules, David; Zhang, Tianlan; Verona, Dennis; Desai, Rajesh; Stavinski, Stanley, S.; Rohm and Haas Co., and Vanderbilt University.	TPF	181	Quantitative Determination of Topiramate by Negative Ion Atmospheric Pressure Chemical Ionization Mass Spectrometry; *Chen, Su; Carvey, Paul; Rush Medical College, Chicago, IL.
TPE	169	Insecticide Trace Analysis in Environmental and Biological Matrices; *Wickremesinhe, Enaksha; Connolly, Paul; Brewer, Rebecca; Deakyne, Roy; Chen, Juan; Choo, Danny; Gusev, Arkady; Centre Analytical Labs. Inc., Pennsylvania.	TPF	182	Determination of Anti-Hypercholesterolemic Drugs in Human Plasma by LC-ESI/MS/MS; Coutu, Michel; Cicci, Dino; Hardy, Alain; *Guilbaud, Rudolf; Beaudry, Francis; Phoenix International Life Sciences.
TPE	170	Quantification Studies of Diquat and Paraquat by Solid Phase Extraction Directly Coupled to MALDI Mass Spectrometry; *Vermillion-Sal, Rachal; Hercules, David; Vanderbilt University TN.	TPF	183	An Improved Method for the Determination of Dextromethorphan and Dextrorphan in Human Urine Samples; *Hemsley, Martyn; Noctor, Terry; Ward, Chris; Ardrey, Bob; Covance Laboratories, Europe, Ltd.
TPE	171	Rapid Analysis of Environmental Contaminants Using Supersonic Molecular Beam TOF-MS; Davis, Stephen; *Hughes, Jonathan; Makarov, Alexander; Hoffman, Andrew; HD Technologies Ltd.	TPF	184	Determination of Clobetasol Propionate in Stratum Corneum Extracts by Means of HPLC and LC-MS; *Schaefer, M.; Hagemeister, T.; Molzahn, R.; Linscheid, M.; Weigmann, H.-J.; Lademann, J.; von Pelchrzim, R.; Sterry, W.; Department of Chemistry, Humboldt University Berlin.
TPE	172	Detection of DDT on A Microparticle S Surface Using ITMS; Hong, Kwang-Hee; *Yang, Mo; Song, Kyu-Seok; Cha, Hyung-Ki; Lee, Jong-Min; Lee, Gae-Ho; Korea Atomic Energy Research Institute, Korea.	TPF	185	Rapid Determination of PNU-83757, N-Cyano-N''-(tert-pentyl)-N''-(3-pyridinyl)Guanidine, in Human Plasma at Low pg/mL Levels Utilizing Automated SPE and LC-ESI-MS/MS; *Bothwell, Brian; Williams, Marta; Shobe, Eric; Pharmacia and Upjohn, Michigan.
TPE	173	Analysis of Basic Pesticides with LC/ESI-MS Utilizing Volatile Ion Pair reagents; *Takino, Masahiko; Daishima, Shigeki; Yamaguchi, Kenji; McIntyre, Douglas; Yokogawa Analytical Systems Inc. Japan.	TPF	186	A Novel Use of Naturally Occurring Isotopes to Overcome Matrix Interferences in a Quantitative LC/MS/MS Assay; *Gobey, Jason; Avery, Michael; Pfizer Inc.

TPF	187	Comparing GC/NCI-MS/MS and HPLC/ESI-MS/MS for Analysis of Prostaglandins in Pharmacokinetic Studies; *Stoffolano, Peter J.; Kuhlenbeck, Debra L.; Wehmeyer, Kenneth R.; Patel, Vikram S.; Nagy, Susan M.; Baker, Timothy R.; Procter & Gamble Pharmaceuticals, Ohio.	TPF	199	Simultaneous Determination of Lovastatin and Lovastatin Acid in Human Plasma by Turbo IonSpray LC/MS/MS; *Zhao, Jamie; Xie, Iris; Xu, Nucleus; Rogers, J. Douglas; Merck Research Laboratories.
TPF	188	Analysis of Estradiol-17-Fatty Acid Esters in Fat of Estradiol Treated Bovine by LC-ESI-MS/MS; *Debrauwer, Laurent; Rathahao, Estelle; Rao, Dinesh; Paris, Alain; Institut National de la Recherche Agronomique.	TPF	200	An Improved LC-MS/MS Method for the Quantitation of Dextromethorphan and Its Metabolites Dextrorphan, 3-Methoxymorphinan and 3-Hydroxymorphinan in Human Urine; *Li, Yang; Fitzgerald, Thomas; Beck, Stephen; Formanik, James; Hartman, David; Rose, Celeste; Li, Yong-Xi; Ricerca, Inc. Ohio.
TPF	189	Separation of the Enantiomers of Salmeterol and its Hydroxy Metabolite in Human Plasma by Automated 96 Well SPE and Chiral LC-MS-MS; *Joyce, Karina; Biddlecombe, Bob; Pleasance, Stephen; Jones, Anne; Sadra, Parmjit; Department of International Bioanalysis, BioMet, GlaxoWellcome R&D.	TPF	201	A Specific and Sensitive LC-MS/MS Method for the Quantitation Determination of Thymosin Alpha-1 in Human Serum; *Tuthill, Cynthia; Rudolph, Alfred; Li, Yang; Fitzgerald, Thomas; Beck, Stephen; Lu, Tian-Sheng; Li, Yong-Xi; SciClone Pharmaceuticals, CA and Ricerca, Inc., OH.
TPF	190	Determination of Prosaptide TX14(A) in Human Plasma by LC-ESI/MS/MS; *Coutu, Michel; Guillaud, Rudolf; Gaudette, Fleur; Wright, David; Di Donatto, Lorella; Phoenix International Life Sciences.	TPF	202	An LC-MS/MS Method for the Quantitation of Luteinizing Hormone-Releasing Hormone and Its Precursors; Li, Yang; Brunovskis, Peter; Cooper, Mark; Hartman, David; *Li, Yong-Xi; Ricerca, Inc. Ohio.
TPF	191	Method Development and Validation for the Quantitative Determination of the Unchanged Form of a Sulphydryl Drug Candidate (RSH) in Human Plasma by LC/MS/MS; *Huang, Mike; Bristol-Myers Squibb Company, NJ.	TPF	203	Enantioselective GC/NCI-MS for Human Plasma Methylphenidate; *Lin, Shen-Nan; Andrenyak, David M.; Moody, David E.; Foltz, Rodger L.; Center for Human Toxicology, University of Utah.
TPF	192	Within-Run Negative/Positive Polarity Switching in Quantitative Electrospray LC/MS/MS Analysis: Effect of HPLC Mobile Phase; Xia, Yuanqing; *Jemal, Mohammed; Bristol-Myers Squibb Company.	TPF	204	Design and Implementation of a Systematic Evaluation for Triple Stage Mass Spectrometers Used in the Quantitative Analysis of Pharmaceutical Compounds in Biological Fluids; Ji, Qinchung; *Zumwalt, Michael; Thakur, Rohan; Flarakos, Thermis; Li, Feng; Reimer, Mark; ThermoQuest Corporation;Phoenix International Life Sciences.
TPF	193	Chiral LC/MS/MS Analysis for the Determination of GW275A Metabolites in Serum; *Stafford, Caroline; Correa, Vanessa; Bowers, Gary; Woodard, Mark; GlaxoWellcome, North Carolina.	TPF	205	The Use of Capillary LC in Conjunction with Electrospray Mass Spectrometry Shows Promise for the Analysis of Small Volume Blood Samples from Serially Bled Mice in Determining PK of Discovery Compounds; *Fraser, Ian; L'Affineur, Matthew; Dear, Gordon; Plumb, Robert; Skippen, Alison; GlaxoWellcome.
TPF	194	Rapid Determination of Dextromethorphan in Dog Plasma by Automated Dilute-and-Shoot Preparation Combined with One Minute per Sample LC-MS/MS Analysis; McCauley-Myers, David; Eichhold, Thomas; Bailey, Ruth; Dobrozsi, Doug; Best, Karen; Hayes, Jerry; *Hoke, II, Steven; Procter and Gamble, OH.	TPF	206	A Rapid and Sensitive HPLC/MS/MS Method for the Determination of Spironolactone and Canrenone in Human Plasma; *Plante, Genevieve; Guillaud, Rudolf; Phoenix International Life Sciences.
TPF	195	Comparison of LC-MS/MS and Packed Column SFC-MS/MS for Determination of (R)- and (S)-Ketoprofen in Human Plasma following Automated 96-Well Solid Phase Extraction; *Eichhold, Thomas; Bailey, Ruth; Pinkston, David; Tanguay, Suzanne; Deibel, Rose Marie; Hoke, II, Steven; Procter and Gamble, OH.	TPF	207	HPLC-ES/MS Analysis of Methylphenidate in Monkey Plasma; *Doerge, Daniel R.; Bajic, Steve; Fogle, C. Matthew; Paule, Merle G.; National Center for Toxicological Research, Arkansas.
TPF	196	Strong Cation Exchange HPLC and Mass Spectrometry. An Old Technique Ideally Suited for LC-MS; *Palandra, Joe; Shobe, Eric; Heath, Timothy; Pharmacia and Upjohn, Michigan.	TPF	208	LC-MS/MS Analysis of Cocaine and its Metabolites from Plasma, Amniotic Fluid, Placenta and Fetal Tissue for the Evaluation of Pregnant Rat Model; *Srinivasan, Karthik; Bartlett, Michael; The University of Georgia.
TPF	197	LC/MS Determination of Small Molecule Drugs with an API Time-of-Flight Spectrometer; *Zhang, Hongwei; Heinig, Katja; Henion, Jack; Cornell University.	TPF	209	Chiral Determination of Free and Total Warfarin Enantiomers in Human Plasma Using LC/MS/MS; Kapron, James; *Alexander, Tom; Perkins, John; Boppana, Venkata; Henion, Jack; Advanced BioAnalytical Services, Inc.
TPF	198	Development and Validation of a High Performance Liquid Chromatographic Tandem Mass Spectrometry Assay for Doxazosin in Human Plasma; *McKay, Gordon; Li, Qimin; Panesar, Sue; Jarosz, Paul; University of Saskatchewan.			

TPF	210	Determination of Simvastatin and Simvastatin hydroxy acid in human plasma by LC-MS/MS; *Noctor, Terry; Clarke, Stephen; Ali, Ashfaq; Covance Laboratories, Harrogate, UK.	TPF	223	An ESI LC/MS/MS Method for the Quantitation of Zomaril™ and its Metabolites in Human Plasma; *Bedman, Timothy; Hayes, Michael; Martin, Louis; Novartis Pharmaceuticals Corporation.
TPF	211	Determination of Mevalonic Acid Lactone in Human Plasma by LC-MS/MS; *Clarke, Stephen; Noctor, Terry; Hill, Howard; Bentley, Lesley; Abrar, Mohamad; Covance Laboratories.	TPF	224	Analysis of Ganciclovir in Plasma by Liquid Chromatography/Selected Reaction Monitoring/Mass Spectrometry; *Xu, Keyang; Lanuti, Michael; Lambright, Eric S.; Force, Seth D.; Albelda, Steven M.; Blair, Ian A.; University of Pennsylvania, PA.
TPF	212	Development of a LC/MS/MS Method for the Determination of AZT and its Metabolites in Urine; *Keever, Jeffery; Voyksner, Robert; Brine, Dolores; Poteat, William; Collins, Bradley; Research Triangle Institute, North Carolina.	TPF	225	Quantitation of Drugs in Cerebral Spinal Fluid Microdialysate Using LC/MS/MS; *Fountain, Scott; Welty, Devin; Nouaime, Lizhuo; Mensinger, Kori; Parke-Davis Pharmaceutical Research.
TPF	213	Mixed-Mechanism Ionization to Enhance Sensitivity in API LC/MS; *Rossi, David; Bi, Honggang; Hoffman, Keith; Pace, Gerry; Parke-Davis Pharmaceutical Research.	TPF	226	Determination of BCNU (Carmustine) in Human Whole Blood by LC/APCI/MS/MS; Niggebrugge, Adlai E.; Lachance, Danielle J.; Simpson, John; *Choiniere, Martin; Burak, Eric S.; Phoenix International Life Sciences Inc.
TPF	214	Analysis of LY231514 by LC/MS/MS; Chaudhary, A.K.; Schannen, V.; Knadler, M.P.; Lantz, R.; *Le Lacheur, R.M.; Taylor Technology Inc.	TPF	227	Quantitation of b-Carotene in Human Serum Using LC-MS with APCI; *Wang, Yan; Xu, Xiaoying; van Lieshout, Macheld; West, Clive E.; Schilling, Alexander B.; Lugtenburg, Johan; van Breemen, Richard B.; University of Illinois at Chicago.
TPF	215	Validation of an LC/MS/MS Method for the Quantitative Determination of SCH 201781 in Human Plasma using 96-Well Solid-Phase Extraction.; *Campbell, Dale A.; Rule, Geoffrey S.; Henion, Jack D.; Rudewicz, Patrick J.; Wu, Ning; Yang, Liyu; Clement, Robert P.; Advanced Bioanalytical Services, NY and Schering-Plough, NJ.	TPF	228	Determination of Tyramine in Human Plasma by LC/MS/MS; *Cazers, Alexander R.; Gammill, J. Christian; Johnson, Richard A.; Hopkins, Nancy K.; AvTech Laboratories, Inc.
TPF	216	A Rapid and Sensitive HPLC/MS/MS Method for the Determination of Betamethasone-21-Phosphate in Human Plasma; Furtado, Milton; *Simpson, John; Brown, Nigel; Phoenix International Life Sciences Inc.	TPF	229	Development and Validation of a Method for the Determination of Saquinavir in Human Plasma by HPLC with MS/MS Detection.; *Oluyedun, Olukayode; Eerkes, Angela; Covance Laboratories.
TPF	217	An On-Line LC/MS/MS Method for the Quantitation of Naltrexone and 6B-Naltrexol in Human Plasma; *Demirdjian, Harry; Simpson, John; Brown, Nigel; Phoenix International Life Sciences Inc.	TPF	230	Determination of Finasteride and L-762,943 from Plasma in Rats and Dogs by LC-MS/MS; *Rabe, Martin; Dean, Brian; Hop, Cornelis E.; Merck Research Laboratories.
TPF	218	Determination of Pagoclone and its Hydroxy Metabolite at Low pg/mL Concentrations by LC/ESI/MS/MS; *Niggebrugge, Adlai E.; Lachance, Danielle J.; Glavac, Rosaleen; Supko, Donna E.; Phoenix International Life Sciences.	TPF	231	Determination of LY333531 and its Desmethyl Metabolite in Plasma from Multiple Species by API LC/MS/MS; *Perkins, John R.; Brewer, Ed; Vitale, Karla J.; Mann, Matthew; Humphries, Dave; Li, Qimin; Garner, Carlos O.; Henion, Jack; Advanced BioAnalytical Services; Lilly Research Laboratories.
TPF	219	Development and Validation of a Method for the Determination of Nelfinavir in Human Plasma by HPLC with MS/MS Detection.; *Oluyedun, Olukayode; Unruh, Dan; Covance Laboratories.	TPF	232	Quantitation of SU000101/SU000020 in Rat Plasma by Liquid Chromatography/Tandem Mass Spectrometry; *Zhang, Qingling; Sukbuntherng, Juthamas; Zhang, Hongbing; Chanda, Sushmita; Wagner, Greg; Shawver, Laura; Antonian, Lida; Sugen, Inc., California.
TPF	220	Determination of Leuprolide in Human Serum from 25 pg/mL to 2500 pg/mL by LC/ESI/MS/MS API 3000; Niggebrugge, Adlai E.; *Lachance, Danielle J.; Glavac, Rosaleen; Phoenix International Life Sciences.	TPF	233	Assaying an Ester Containing Drug in Rat Plasma with the Help of Paraoxon.; *Vekich, Sylvia; Zhang, Kanyin; Agouron Pharmaceuticals, Inc., CA.
TPF	221	Determination of Loperamide and N-Demethyl loperamide in Human Plasma by +ESI Tandem LC/MS/MS; *He, Huaibing; Sadeque, Abu; Wood, Alastair; Hachey, David; Vanderbilt University School of Medicine.	TPF	234	Low Flow HPLC Analysis of Biomolecules Using a Dual ESI/APCI Source; *Tabei, Keiko; Siegel, Marshall; Wyeth-Ayerst Research, NY.
TPF	222	Quantitative Determination of Pravastatin Acid in Human Plasma by LC/MS/MS with Prospekt Online Solid Phase Extraction; *Zheng, Weiyi; Creegan, James; Hidy, Bruce; Platt, Nicole; Modesitt, Michael; Jenkins, Rand; PPD Pharmaco, Inc. Richmond, Virginia.	TPF	235	High Sensitivity Drug Metabolites Screening with Automated Data Processing using the Q-ToF; *Castro Perez, Jose; Preece, Steve; Clarke, Nigel; Cox, Kathleen; Korfmacher, Walter; Lin, Chin-Chung; White, Ronald; Cayen, Mitchell; Schering Plough Research Institute.

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TPG 236	Sequencing HLA Associated Peptides by Complimentary MS Techniques; *Tomlinson, Andy; Mercer, Ryan; Ahmad, Mir; Chicz, Roman; Pangaea Pharmaceuticals Inc.	TPG 249 Proteomic-wide Screening of Polyacrylamide Gels for Phosphoproteins; *David, Goodlett; Julian, Watts, Ruedi, Aebersold; University of Washington.
TPG 237	Investigation of the Binding of Human Plasminogen to Lysine-Analogous Ligands by Electrospray Mass Spectrometry; *Buzy, Armelle; Loyaux, Denis; Cadrouvele, Guylène; Latham, Chris; Synthelabo Recherche France.	TPG 250 Methanol-Induced Conformational Transitions of Cytochrome c and Lysozyme at Low pH: A Study by ESI-MS; *Kodali, Ravindra B.; Chen, Yu-Luan; Collings, Bruce A.; Douglas, Don J.; University of British Columbia.
TPG 238	Diagnosis of Neurodegenerative Diseases by ESIMS: Variant and Modified Proteins; *Nakanishi, Toyofumi; Kishikawa, Masahiko; Miyazaki, Ayako; Saraswathi, Mandapai; Shimizu, Akira; Osaka Medical College, Japan.	TPG 251 Identification of the Transmembrane Domain of Single Membrane Spanning Model Peptides by ESI-MS; *Demmers, Jeroen A.A.; Haverkamp, Johan; Heck, Albert J.R.; De Kruijff, Ben; Killian, J. Antoinette; Utrecht University, Utrecht, The Netherlands.
TPG 239	Non-Covalent Structural Features of the Fur Protein; Gonzalez, Anne; Michaud-Soret, Isabelle; *Forest, Eric; Institut de Biologie Structurale, France.	TPG 252 Standardization of Hemoglobin A1c Measurements; *Ospina, Maria; Woolfitt, Adrian; Maggio, Vincent; Barr, John; Myers, Gary; Sampson, Eric; Kobold, Uwe; Jeppsson, Jan-Olof; Centers for Disease Control and Prevention.
TPG 240	Epitope Identification in a Viral Protein Component of a Type A Influenza Strain by Mass Spectrometry; *Kiselar, Janna; Downard, Kevin; Albert Einstein College of Medicine.	TPG 253 Identification of Proteins from 2D Gels by Using Capillary HPLC/Ion Trap/Reflectron TOF and MALDI/TOF Mass Spectrometry; *Chen, Yajuan; Jin, Xiaoying; Huang, Peiqing; Hanash, Samir; Lubman, David M.; The University of Michigan.
TPG 241	On-line CE/MS/MS with Applications in Analysis of Dogfish Myelin Basic Proteins; *Jin, Xiaoying; Kim, Jeongkwon; Parus, Steve; Chen, Yajuan; Huang, Peiqing; Zand, Robert; Lubman, David M.; University of Michigan, Michigan.	TPG 254 Selective Identification of Peptide Adducts of Benzoquinone Using Electrospray Mass Spectrometry; *Mason, Daniel; McClure, Thomas; Liebler, Daniel; University of Arizona.
TPG 242	Mapping Protein Expression in Pathogenic Strains of Haemophilus Influenzae Using High Throughput Gel Electrophoresis and Mass Spectral Characterization; *Kelly, John; Lanthier, Patricia; Nash, John; Wakarchuk, Warren; Richards, Jim; Thibault, Pierre; Institute for Biological Sciences, National Research Council, Canada.	TPG 255 Identification of Ozonation Products of Amino Acids and Small Peptides; *Kotiaho, Tapio; Eberlin, Marcos N.; Kostiainen, Risto; VTT/Chemical Technology, Finland.
TPG 243	Analysis of Superoxide Dismutase Conformation Using Electrospray-Ionization MS Charge State Distributions; *Pugh, Thomas; Hanas, Jay; University of Oklahoma Health Sciences Center, Oklahoma.	TPG 256 Electrospray Ionization FTICR of Oligomeric Metalloproteins; *Taylor, Kristina; Kurtz, Donald; Amster, Jonathan; University of Georgia, USA.
TPG 244	Locating the Deamidated Glutamine and Asparagine Residues of Human Beta B2-Crystallin; *Zhang, Zhongli; Smith, David; Smith, Jean; Department of Chemistry, University of Nebraska.	TPG 257 High Mass Accuracy MALDI-FTICR of In-Gel Digests; *Swancy, Julia; Shrestha, Bhagavad; Grunden, Eric; Garrett, Tim; Amster, Jonathan; University of Georgia.
TPG 245	Hydrogen-Deuterium Exchange/Mass Spectrometry Studies of pH-induced Structural Changes in Brome Mosaic Virus Capsids; *Wang, Lintao; Lane, Leslie; Smith, David; University of Nebraska-Lincoln, NE.	TPG 258 Characterization of O-Phosphorylated Peptides by Post-Source Decay in MALDI-TOF-MS; *Metzger, Sabine; Spengler, Bernhard; Otvos, Jr., Laszlo; Hoffmann, Ralf; Biologisch-Medizinisches Forschungszentrum, Univ. of Duesseldorf, Germany.
TPG 246	Identification of Human Leukocyte Surface Proteins Using a Proteomic Approach; *Martin, Susan E.; Ley, Klaus; Shabanowitz, Jeffrey; Hunt, Donald F.; University of Virginia.	TPG 259 In-capillary Protein Sample Preparation for Microspot MALDI-TOFMS Analysis; *Keller, Bernd O.; Li, Liang; Department of Chemistry, University of Alberta, Edmonton, Alberta, Canada.
TPG 247	De novo Sequencing with ¹⁸O Labelling: Application to G-Kinase Targets Identification; *Deon, Catherine; Autelitano, Francois; Ledit, Jean Pierre; Teufel, Michael; Loyaux, Denis; Pruss, Rebecca; Synthelabo Recherche.	TPG 260 Identification of a Succinimide Derivative in Recombinant Human Glial Cell Line-Derived Neurotrophic Factor; *Hui, John; Chow, David; Katta, Viswanatham; Haniu, Mitsuru; Amgen Inc., Thousand Oaks, CA.
TPG 248	Direct Analysis of Protein Digestion Mixtures with an 11.5 T FTICR Mass Spectrometer; *Bruce, James; Anderson, Gordon; Wen, Jian; Harkewicz, Richard; Lin, Chuan-Yuan; Smith, Richard; Pacific Northwest National Lab.	TPG 261 Isolation and Mass Spectrometric Peptide Mapping of the Amyloid Precursor Protein From Human Brain; *Bühler, Stefan; Schuhmacher, Martina; Wunderlin, Markus; Trimpin, Sarah; Török, Angela; Soos, Katalin; Penke, Botond; Przybylski, Michael; Faculty of Chemistry, University of Konstanz Germany.

TPG	262	UV-and IR-MALDI-MS of Human and Rat Dipeptidyl Peptidase III; *Schleuder, Detlev; Abramic, Marija; Strupat, Kerstin; Leisner, Arne; Hillenkamp, Franz; Peter-Katalinic, Jasna; Institute for Medical Physics and Biophysics.	TPG	276	Improved Sensitivity for Phosphopeptide Mapping using Capillary Column HPLC and Microlonspray MS; *Zappacosta, Francesca; Annan, Roland; Huddleston, Micheal; Carr, Steven; SmithKline Beecham Pharmaceuticals, King of Prussia PA.
TPG	263	Characterization of Post-Translational Modifications in Protein Fermentation Products by LC-MS-MS; *Johnson, Robert; Edalji, Rohinton; Smith, Richard; Egan, David; Buko, Alex; Abbott Laboratories.	TPG	277	Analysis of MHC Peptide Antigens from Human Cancer Cells; Barnea, Eilon; Kessler, Ofra; Ziv, Tamar; *Admon, Arie; Technion - Israel Institute of Technology.
TPG	264	Applications of MALDI MS Imaging of Biological Samples; *Stoeckli, Markus; Chaurand, Pierre; Caprioli, Richard; Vanderbilt University.	TPG	278	Identification of HLA-DQ Restricted Potential Tumor Antigens by MALDI-PSD and Edman Sequencing; *Blüggel, Martin; Halder, Thomas Martin; Kalbacher, Hubert; Meyer, Helmut E.; Ruhr-Universität Bochum, Germany.
TPG	265	Identification of the Site of C-terminal Processing of <i>H. Pylori</i> Vacuolating Toxin by MALDI-TOF MS; *Nguyen, Viet Q.; Farmer, Terry B.; Caprioli, Richard M.; Cover, Timothy L.; Vanderbilt University School of Medicine, Tennessee.	TPG	279	Identification of Methionine Oxidation in Proteins by Maldi Mass Spectrometry; *Schnolzer, Martina; Rackwitz, Hans-Richard; German Cancer Research Center, Germany.
TPG	266	Characterization of Spin-trapped Protein-based Radicals in Cytochrome c by LC/ESI-MS; *Filosa, Angelo; English, Ann M.; Concordia University, Canada.	TPG	280	Gas-Phase Separations for Analysis of Combinatorial Libraries; *Srebalus, Catherine; Clemmer, David; Indiana University, Department of Chemistry, Bloomington, IN.
TPG	267	Direct Observation of Acyl-S- and Acyl-O-Enzyme Intermediates in Unfractionated Proteolytic Digests of Enterobactin Synthetase; Shaw-Reid, Cathryn; Kelleher, Neil; Losey, Heather; Gehring, Amy; *Berg, Christian; Laukien, Frank; Walsh, Christopher T.; Harvard Medical School & Bruker Daltonics, Inc., Massachusetts.	TPG	281	Automated In-gel Digestion, Sample Cleanup, and MALDI Plate Spotting for Proteomic Analyses; *Carroll, James; Lauber, Wendy; Deppermann, Kevin; Kramer, Melissa; Monsanto Co.
TPG	268	Homocysteine Thiolactone: Covalent Adduct Formation with Peptides and Proteins; *Bakhtiar, Ray; Hop, Cornelis E.; Merck Research Laboratories.	TPG	282	A Comparison of Nanospray and Fully Automated Nanoscale Capillary LC/MS/MS for Protein Identification.; *Neugebauer, Jennifer; Moseley, M. Arthur; Moyer, Mary; GlaxoWellcome.
TPG	269	Complete Mass Spectrometric Identification of Protein Mixtures by Peptide Mass Mapping Combined with Thermal Denaturation; *Park, Zee-Yong; Russell, David H.; Texas A&M University, College Station, TX.	TPG	283	Rapid, Sensitive Identification of Human Proteins by LC-MS/MS; *Tjernberg, Agneta; Padovan, Julio; Chait, Brian; The Rockefeller University, New York, NY,
TPG	270	Protein Identification Using Trypsin Digestion With Partial Enzymatic N-Terminal Sequencing; *Doucette, Alan; Li, Liang; Dept. Chem., University of Alberta, Canada.	TPG	284	Automated High Throughput Protein Identification using MALDI Mass Spectrometry; *Brown, Jeff; Gostick, Dominic; Howes, Kevin; Kapp, Eugene; Blackstock, Walter; Ward, Malcolm; Crewe, Victor; Curtis, Jonathan; Micromass Ltd, Manchester, UK and GlaxoWellcome, Stevenage, UK.
TPG	271	Rapid Peptide Mapping of Expressed Proteins Bound to PVDF in a 96-Well Format.; *Bourell, James; Stults, John; Genentech Inc., CA.	TPG	285	Peptide Contaminants Observed by Nanoelectrospray in Low Level Sequencing of Gel-Separated Proteins; *Andersen, Jens; Kuster, Bernhard; Podtelejnikov, Alexandre; Moertz, Ejvind; Mann, Matthias; University of Southern Denmark.
TPG	272	Performance of a Modified Micro-electrospray Source Coupled to an LCQ; *Ma, Shuguang; Schluneger, Urs; Stoeckli, Markus; Caprioli, Richard; Mass Spectrometry Research Center/Vanderbilt University, Nashville, TN.	TPG	286	Deciphering Protein Interaction Networks by Gene Tagging, Immunoprecipitation and Mass Spectrometry; *Shevchenko, Andrej; Seol, Jae Hong; Shevchenko, Anna; Deshaies, Raymond; European Molecular Biology Laboratory (EMBL), Heidelberg, Germany.
TPG	273	On-line, Near-orthogonal Nano-Electrospray Coupled with Ion Trap MS for Proteomic Analysis; *Schneider, Birgit; Schneider, Andrea; Ingendoh, Arnd; Bruker Daltonik GmbH, Germany.	TPG	287	Toward a Phagosomal Proteome; *Kieffer, Sylvie; Desjardins, Michel; Rondeau, Christiane; Scianimanico, Sandra; Louwagie, Mathilde; Garin, Jérôme; Cea France.
TPG	274	Using Ion Trap LC/MS/MS for the Identification of Phosphotyrosine Regulatory Sites in LCK from Insect Cells; *Zhu, Rong-Rong; Sun, Joanne; Bump, Nancy; Ferenz, Cathy; Gillece-Castro, Beth; BASF Bioresearch Corporation, Massachusetts.	TPG	288	Phenotype Characterisation of Transgenic ApoE3*-Leiden mice by 2D- Gel Electrophoresis and Mass Spectrometric Protein Identification; *Schneider, Klaus; Skehel, Mark; Murphy, Nuala; Graham, Annette; Benson, Martin; SmithKline Beecham Pahrmaceuticals, UK.
TPG	275	Identification of In vivo Phosphorylated Proteins from Electrophoretic Gels; Larsen, Martin; Stensballe, Allan; Andersen, Søren; Burns, Jorge; Roepstorff, Peter; *Jensen, Ole; Dept. Molecular Biology, Odense University, Denmark.			

TPG	289	Affinity Mass Spectrometry of Targeted Cytokines under Physiological Conditions; *Hurst, Gregory; Kennel, Stephen; Foote, Linda; Kim, Yongseong; Buchanan, Michelle; Oak Ridge National Laboratory.	TPH	302	Determination of Derivatives of Phospholipids in Soy Lecithin Using Electrospray Ionisation Mass Spectrometry; Ross, Andreas; *Schindler, Susanne; Koetzner, Stephan; Engel, Karl Heinz; TU Munich/Shimadzu Europe Germany.
TPG	290	An On-Pathway Folding Intermediate of Leptin Detected by Pulse-Labeling/Chase H/D Exchange and MS; *Brems, David; Hamburger, James; Zhang, Zhongqi; Amgen Inc., California.	TPH	303	Analysis of Oleic Acid-Rich Edible Oils by Mass Spectrometry; *Pittenauer, Ernst; Bailer, Josef; Widhalm, Kurt; Allmaier, Günter; Government Institute, Austria.
TPG	291	Conformational Changes in Mutant Proteins of Metallo Beta-lactamase CcrA Probed by H/D Exchange and ESI-MS; *Tang, Xuejun; Yang, Youjun; Rasmussen, Beth; Wyeth-Ayerst Research, New York.	TPH	304	High Content of 1,2-Dieicosanoyl-sn-glycero-3-Phosphoethanolamine Molecular Species in Kidney from Water Snail Lymnaea stagnalis: Mass Spectrometric Characterization; *Chen, Su; Carvey, Paul; Li, Kawan; Rush Medical College, Chicago, IL.
TPG	292	Interdomain Communication in Proteins Probed by Amide Hydrogen Exchange; Engen, John R.; *Smith, David L.; Department of Chemistry, University of Nebraska-Lincoln.	TPH	305	Identification of LTB₄ Binding Sites on BSA Using Photoaffinity Labeling and Mass Spectrometry; *Fiedler, Jessica; Soberman, Roy; Murphy, Robert; National Jewish Medical and Research Center, CO.
TPG	293	Micro-ESI-MS Determination of Noncovalent Complexes of Aldehyde Dehydrogenase; *Johnson, Kenneth L.; Benson, Linda M.; Lipsky, James J.; Naylor, Stephen; Mayo Foundation.	TPH	306	Analysis of Sphingolipids in Multiple Intestinal Neoplasia (MIN) Mice; *Sullards, M. Cameron; Merrill, Jr., Alfred H.; Schmelz, Eva M.; Emory University, Dept. of Medicine.
TPG	294	Stability of Gas Phase Noncovalent Protein Complexes Produced by Electrospray Ionization; *Loo, Joseph A.; Parke-Davis Pharmaceutical Research, MI.	TPH	307	Metabolism of LTB₄ and 20-hydroxy-LTB₄ in Lewis Lung Carcinoma Pig Kidney Cells; *Hankin, Joseph; Murphy, Robert; National Jewish Medical and Research Center.
TPG	295	Metal-Ion Binding and Limited Proteolysis of Betabellin 15D, A Designed Beta-Sandwich Protein; *Lim, Amareth; Guy, Philippe; Saderholm, Matthew; Yan, Yibing; Erickson, Bruce; Anderegg, Robert; University of North Carolina at Chapel Hill, North Carolina.	TPH	308	Lipid A Modifications in Pseudomonas aeruginosa: MALDI-TOF, Triple Quadrupole and Ion Trap Mass Spectrometry; *Yi, Eugene; Lim, Kheng; Guo, Lin; Ernst, Robert; Miller, Samuel; Hackett, Murray; U. of Washington, Medicinal Chemistry, Microbiology and Medicine.
TPG	296	Disulfide Mapping of a Homolog of Interleukin-17 Using an Ion Trap Mass Spectrometer; Cliff, Carter L.; *Hoffman, Ross C.; ZymoGenetics, Inc, Seattle, WA	TPH	309	The Formation of Covalent Leukotriene A₄/DNA Base Adducts; *Reiber, Duane C.; Murphy, Robert C.; National Jewish Medical and Research Center.
TPG	297	Monitoring Solvent-Induced Peptide Conformational Changes Utilizing H/D Exchange and MALDI; *Figueroa, Iddys D.; Russell, David H.; Department of Chemistry, Texas A&M University, College Station, TX.	TPH	310	ESI MS/MS Study of Selective Oxidation of Natural Glycosphingolipids; Mylvaganam, Myl; *Meng, Ling Jie; Lingwood, Clifford A; Hospital for Sick Children and University of Toronto.
TPG	298	Separation of Leucine and Isoleucine by Electrospray Ionization - High Field Asymmetric Waveform Ion Mobility Spectrometry - Mass Spectrometry; *Barnett, David; Ells, Barbara; Guevremont, Roger; Purves, Randy W.; National Research Council of Canada, Ottawa, Canada.	TPH	311	LC/MS/MS Identification of Protein Adducts Formed by G-Ketoaldehyde Arachidonate Oxidation Products; *Brame, Cynthia; Boutaud, Olivier; Oates, John; Morrow, Jason; Salomon, Robert; Roberts, L. Jackson; Vanderbilt University, Nashville, TN.
TPH	299	LIPIDS		TPH	An Octaene Fatty Acid in Marine Oils; Van Pelt, Colleen K.; Huang, Meng-Chuan; Tschanz, Carolyn L.; *Brenna, J. Thomas; Cornell University.
TPH	300	Purification of Lipoproteins, Lipids, Oligosaccharides and Glycolipids Using Membranes; *Golden, Tamara; Cotter, Robert; Woods, Amina; The Johns Hopkins University School of Medicine.	TPH	313	Membrane-Protein Interaction Evaluated by Biomolecular Interaction Analysis and Electrospray Mass Spectrometry; *Kim, Hee-Yong; Lau, Audrey; NIAAA, National Institutes of Health.
TPH	301	Identification of Unsaturated Homologs of PAF by EC-GC/MS; *Weintraub, Susan T.; Satsangi, Rajiv K.; Pinckard, R. Neal; Univ. of Tx. Health Science Center San Antonio, San Antonio TX.	TPH	314	Investigation on Phosphatidylserine Biosynthesis via LC-ESI Mass Spectrometry; *Hamilton, Jillonne; Greiner, Rebbecca; Salem, Norman; Kim, Hee-Yong; NIAAA /NIH.
		Ion Trap SIMS Detection of Phospholipid Fatty Acids on Mineral Surfaces; *Ingram, Jani; Groenewold, Gary; Colwell, Rick; Cortez, Marnie; Idaho National Engineering & Environmental Laboratory, Idaho.	TPH	315	Structural Analysis of Bacterial Glycolipids by Affinity Capture-MALDI TOF MS; *Herrmann, Michelle; Kaltashov, Igor; University of Massachusetts.

- TPH 316 **Determination of Levels of Dihydroxy C-18 Fatty Acid Glucuronides in Urine by LC-ITMSⁿ;** *Evans, James E.; Grant, David F.; Evans, Barbara A.; Jude, Anthony R.; Little, Joanna M.; Radominska, Anna; Eunice Kennedy Shriver Ctr, Waltham MA & Univ. of Arkansas, Little Rock, AK.
- TPH 317 **Comparison of HPLC/ESI-MS and -MS/MS of Underivatized and Butylated Carnitine and Acylcarnitines;** Johnson, Jodie; *Powell, David; Borum, Peggy; Chemistry Department, University of Florida, Gainesville, FL.
- TPH 318 **MS/MS Methods for Determination of Fatty Acid Distributions in Sphingomyelins;** *Haller, Ivan; Leung, Lawrence; Rodriguez-Boulan, Enrique; Cornell University Medical College, New York, NY.
- TPH 319 **Analysis of LTB4, LTB5, PGE2 and PGE3 in Stimulated Neutrophils by LC/MS.;** *Greene, Robert J.; Marshall, Craig A.; The Iams Company.
- TPH 320 **Determination of Phospholipids in Drug Delivery System Using LC/MS;** *Carrier, Alain; Parent, Josée; Dupuis, Sébastien; RTP Pharma Inc.

WEDNESDAY POSTERS

Wednesday posters should be set up 7:30 - 8:00 am and removed after 9:00 pm on Wednesday. Authors of odd numbered posters will attend their posters 8:45 - 10:15 am. Authors of even numbered posters will attend their posters 1:30 - 3:00 pm. All authors are encouraged to attend their posters during the lunch break on Wednesday.

SPECIAL TOPICS

- 001 **Further Adventures of the Usenet Newsgroup sci.techniques.mass-spec;** *Bostwick, David; Shealy, Sarah; Bartmess, John; *Georgia Institute of Technology, GA and University of Tennessee, TN.
- 002 **Development of a Resource Document to Support Legal and Regulatory Applications of Mass Spectrometry;** Bethem, Robert; Boison, Joe; Chakel, John; *Gale, Jane; Heller, David; Musser, Steven; Bristol-Myers Squibb Co., NJ.

CORPORATE SCIENCE

- WPA 003 **Accurate Mass Measurements with a High Resolution Dual-Electrospray Time-of-Flight Mass Spectrometer;** *Dresch, Thomas; Keefe, Tim; Park, Melvin; Bruker Daltonics.
- WPA 004 **Strategies for High Throughput HPLC Analysis with Mass Spectrometry;** *Cheng, Yung-Fong; Neue, Uwe; Crowley, Ray; Walter, Thomas; Lu, Ziling; Waters Corporation, Milford, MA.
- WPA 005 **Determination of Organophosphorous and Organonitrogen Pesticides in Produce Extracts by LC/MS/MS;** *Monasterios, Clevys J.; Sojo, Luis E.; Mouget, Yves; Lum, Gina; MDS SCIEX, Concord, Ontario, Canada.
- WPA 006 **Analysis of Microcystins from Cyanobacteria by ESI LC/MS/MS;** *Duggan, Jeffrey; Sassner, John; Ikawa, Michael; PE-Sciex, Norwalk, CT.
- WPA 007 **Comparison of Two New Mass Spectrometers for Quantitation of a Drug Series in Animal Plasma by API-LC/MS/MS;** Ghobarah, Hesham; Flynn, Julie; Laycock, John; Meyer, James; Solowiej, James; Miller, Krys; *Wakefield, Michael; Kambouris, Sara; Amgen Inc. & Finnigan Corporation.

- WPA 008 **Application of a New Protein Database Search Algorithm for Analyzing Peptide Maps;** *McIntyre, Doug; Miller, Christine; Madden, Steve; Hewlett-Packard Company, CA.
- WPA 009 **Automatic Analysis and Archival for High-Throughput Proteome Projects;** *Fenyö, David; Tang, Chao; Zhang, Wenzhu; Chait, Brian; ProteoMetrics.
- WPA 010 **High Flow Electrospray Source for Coupling Liquid Chromatography to TOFMS;** *Lee, Edgar; Rockwood, Alan; Sin, Joseph; Canfield, Bradley; Edgington, Mike; Woolley, Cole; Sensar Corporation.
- WPA 011 **Fast GC-MS of Complex Mixtures Using Benchtop TOF-MS;** Davis, Stephen; Hughes, Jonathan; Makarov, Alexander; *Hoffman, Andrew; HD Technologies Ltd.
- WPA 012 **Qualitative Analyses of Pharmaceuticals Utilizing a New Single Quadrupole;** *Boyer, Arthur J.; Shimadzu Scientific Instruments, Inc.

ION-MOLECULE REACTIONS

- WPB 013 **SIFT Studies of Reactions of C₆₀ⁿ⁺ (n = 1, 2, 3) with Chlorinated Ethylenes;** Ling, Yun; Koyanagi, Gregory K.; *Caraiman, Doina; Hopkinson, Alan C.; Bohme, Diethard K.; York University, Canada.
- WPB 014 **High Temperature Kinetics: Rate Constants and Branching Ratios for N2+ and O2+ + Naphthalene;** *Midley, Anthony; Williams, Skip; Arnold, Susan; Dotan, Itzhak; Morris, Robert; Viggiano, Albert; Air Force Research Laboratory, MA.
- WPB 015 **Insights into Organic Reactions via Isotopic Tracer Studies;** *Grabowski, Joseph; Fishman, Vyacheslav; University of Pittsburgh.
- WPB 016 **Guest Release From Carceplexes Investigated by DCI-MS and MS-MS;** *Irico, Alessandra; Vincenti, Marco; Dipartimento di Chimica Analitica, Università di Torino, Italy.
- WPB 017 **Characterization of Diastereoisomers Using Quadrupole Ion-Trap Mass Spectrometer in Positive and Negative Ion Modes;** *Sablier, Michel; Rathahao, Estelle; Perlat, M-C; Tabet, Jean-Claude; LCSOB.
- WPB 018 **Gas-phase Ion/Molecule Reactions and Molecular Modeling of [M+2H]²⁺ for Several Bradykinin Fragments;** *Pallante, Giovanni; Cassady, Carolyn; Miami University, Ohio.
- WPB 019 **Chiral Differentiation of Chiral Drugs by Fourier Transform Mass Spectrometry;** *Grigorean, Gabriela; Ramirez, Javier; Lebrilla, Carlito; University of California - Davis CA.
- WPB 020 **Gas-Phase Association Reactions of Hydroxide, Methoxide, Ethoxide and Their Deuterated Analogs;** *Kato, Shuji; Dang, Thuy; Barlow, Stephan; DePuy, Charles; Bierbaum, Veronica; University of Colorado, CO.
- WPB 021 **Gas Phase H/D Exchange of Cyclodextrins and Cyclodextrin-Amine Complexes;** *Kellersberger, Katherine; Dearden, David; Brigham Young University.
- WPB 022 **Metal - Alkene Interactions Using the Radio-Frequency Glow Discharge Ion Trap Mass Spectrometer;** *Eanes, Ritchie; Marcus, R. Kenneth; Clemson University.

WPB 023	Gas Phase Ion-Ion Interactions Between Proteins and Transition Metals in a Quadrupole Ion Trap; *Payne, Anne H.; Glish, Gary; University of North Carolina at Chapel Hill.	WPB 037	Differentiation of Steroid Isomers by Reactions with Phosphonium Ions; *Petucci, Chris; Kenttämaa, Hilkka I.; Department of Chemistry, Purdue University, West Lafayette, IN.
WPB 024	Intrinsic Reactivity of Metal-hydroxide Complexes: Gas-phase Reaction of $[Cp_2ZrOH]^+$ with Alcohols, Amines, Ethers, Esters, and Amides; *Lang, G. H. Lisa; Richardson, David E.; Eyler, John R.; University of Florida.	WPB 038	Polar Effects on Gas Phase Reactions of Positively and Negatively Charged Distonic Ions in FT-ICR and Flowing Afterglow Mass Spectrometers; *Petzold, Christopher J.; Lardin, Harvey A.; Hill, Brian; Nelson, Eric D.; Kenttämaa, Hilkka I.; Purdue University, Indiana.
WPB 025	Ring Opening Versatility of (oxazolidinium)methane Cation in Gas Phase; *Lesage, Denis; Monnier, Valérie; Libot, Francine; Fournier, Françoise; Tabet, Jean-Claude; Aitken, David; Husson, Henri; Université Pierre et Marie Curie - France.		
WPB 026	Dimethyl Ether Chemical Ionization of Arylalkylamines; *Ramos, Luis; Barros, Cristina; Cardoso, Ana; Ferrer-Correia, A.J.; Chemistry Department, University of Aveiro, Aveiro, Portugal.		
WPB 027	Doubly Charged Ions in the Electron Ionization Mass Spectra of 4,6-di(substituted)amino-s-triazines; *Vincze, Adam; Yinon, Jehuda; Peres, Tikva; Lifshitz, Chava; Israel Institute for Biological Research, Israel.		
WPB 028	NICI with an External Ion Source combined to an Ion Trap : Application to Explosive Detection; *Faye, Thierry; Brunot, Alain; Fuche, Christine; Wells, Greg; Tabet, Jean-Claude; Université Pierre et Marie Curie, Paris, France.		
WPB 029	Mass Spectrometric Differentiation of Constitutional And Stereo Estratrien-3-Ol Isomers; *C., Van Aerden; F., Fournier; L., Debrauwer; A., Paris; J.-C., Tabet; Inra Toulouse France.		
WPB 030	Argon as a Catalyst for Methyl Migration in Nitromethane; *Cunje, Alwin; Baranov, Vladimir; Rodriguez, Chris; Hopkinson, Alan; Bohme, Diethard; York University.		
WPB 031	Pyridine to Pyrrolo[1,2-a]pyridine and Pyrimidine to Pyrrolo[1,2-a]pyrimidine: A Novel Annulation Reaction in the Gas Phase; *Eberlin, Marcos N.; Sparrapan, Regina; Mendes, Maria A.; Carvalho, Marcia; State University of Campinas - UNICAMP.		
WPB 032	Condensation and Elimination Reactions of Aluminosilicate Oxyanions with Water; *Gianotto, Anita K.; Groenewold, Gary S.; Scott, Jill R.; Kessinger, Glen F.; Benson, Mike; Wright, J.B.; INEEL.		
WPB 033	Ion Chemistry of Perfluoromethyl Phosphanes; *Lübkemann, Frank; Wanczek, Karl P.; Institut of Inorg. & Phys. Chemistry, University of Bremen, D-28357 Bremen.		
WPB 034	Reactions and Kinetics of Silane and Dichlorosilane Using FTICR-MS Techniques; *Jarek, Russell; Thornberg, Steven; Sandia National Laboratories, NM.		
WPB 035	Reactivity and Binding Energies of Singly Charged Divalent Metal Chlorides Ions to pi Faces of Aromatic Hydrocarbons; *Gapeev, Alex; Dunbar, Robert C.; Case Western Reserve University OH.		
WPB 036	Stereoselective Chemical Ionization Mass Spectrometry: Reactions of Phosphonium Ions with Diastereomeric Diamines; *Thompson, Rukeyser S.; Yu, Ying-Qing; Kenttämaa, Hilkka I.; Purdue University, IN.		
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WPC 039	The Gas Phase Acidities of Long Chain Carboxylic Acids; *Bartmess, John; Murray, Brandi; University of Tennessee.		
WPC 040	An Ab Initio Study of the Gas Phase Acidities of the Superacids; *Heinz, Benjamin J.; Sullivan, Kelly O.; Department of Chemistry/Creighton University.		
WPC 041	The Gas-Phase Acidities of cis- and trans-2-tert-Butyl-1,3-dithian-5-ol; *Artau, Alexander; Squires, Robert R.; Purdue University, West Lafayette, IN.		
WPC 042	A Comparison of the Thermal Stability of High Order DNA Structures in Solution and in the Gas Phase; *Jurchen, John C.; Rodriguez-Cruz, Sandra E.; Williams, Evan R.; University of California, Berkeley.		
WPC 043	Collision-Induced Dissociation of Anionic Copper-Group Clusters and their Monocarbonyls; *Spasov, Vassil A.; Lee, Taeck-Hong; Ervin, Kent M.; University of Nevada, Reno.		
WPC 044	NRMS and Computational Study of $[C, H_4, N, O_2]$ Cations and Radicals; *Polasek, Miroslav; Turecek, Frantisek; University of Washington, WA.		
WPC 045	Neutralization-Reionization Mass Spectrometry Studies of Glycyl Radical; *Carpenter, Howland; Turecek, Frantisek; University of Washington, Washington.		
WPC 046	Kinetic Energies of C₆₀ Fragments Created by Surface-induced Dissociation; *Leigh, Nathan D.; Haney, Lisa L.; Riederer, Donald E.; University of Missouri - Columbia.		
WPC 047	Characterization of Electrosprayed Ionic Salt Clusters with Tandem Mass Spectrometry; *Zhang, Duxi; Cooks, R. Graham; Department of Chemistry, Purdue University, IN.		
WPC 048	Ion Chemistry of Flames: Chemical vs. Chem-ionization of Dimethyl Ether; *Froesig, Lars; Egsgaard, Helge; Nielsen, Ole John; Hammerum, Steen; Risoe National Laboratories and University of Copenhagen, Denmark.		
WPC 049	Methyl Transfer within Complexes in Gas Phase: Study of the [ketene, H₃COCO+] System; Chamot-Rooke, Julia; van der Rest, Guillaume; Tortajada, Jeanine; *Audier, Henri-Edouard; Laboratoire des Mécanismes Réactionnels - CNRS UMR 7651- Palaiseau France.		
WPC 050	Low Energy CAD Studies of Doubly Charged Positive Ions Containing Cu(II) Complexed with Amino Acids; *Stone, John; Seto, Carmai.		
WPC 051	Mass Spectral Fragmentation Pathways in Alicyclic Difluoroamino and Nitro Compounds; *Zhang, Jun; Bradford, Clifford; Oxley, Jimmie; Smith, James; University of Rhode Island, RI.		

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WPC 052	Photodissociation Studies of Methane Activation by Transition Metal and Metal-Oxide Cations; *Metz, Ricardo; Husband, John; Aguirre, Fernando; University of Massachusetts, Amherst MA.	WPD 065 Development of FTICR Detection Methods for the Immediate Observation of MALDI Ionization Products; *Fiorentino, Michael; Armorgan, Carla; Laude, David; University of Texas at Austin.
WPC 053	The Effect of Charge Delocalization on the Reaction of Carbene Radical Cations; *Watkins, Michael; Amegayibor, Sedinam; Tichy, Shane; Nelson, Eric; Kenttämaa, Hilkka; Purdue University, Indiana.	WPD 066 Improved Mass Accuracy and Resolution for FTMS with an Active-Shielded 7T Superconducting Magnet; *McIver, Robert T.; Li, Yunzhi; Easterling, Michael; OConnor, Peter; Hunter, Richard; IonSpec Corporation.
WPC 054	Thermochemistry, Structure, Stability and Mechanisms of Formation of Some Nonprotonated Dimers; *Vinogradov, Pavel; Borisenko, Dmitry; Misharin, Alexander; Bassi, Davide; Institute of Energy Problems of Chemical Physics, RAS, Russia.	WPD 067 Continuing Development of the 11.5 Tesla ESI-FTICR Instrumentation; *Udseth, Harold R.; Gorshkov, Michael V; Pasa-Tolic, Ljiljana; Bruce, James E; Masselon, Christophe D; Harkewicz, Richard; Smith, Richard D; PNNL, WA.
WPC 055	Laser Desorption on Liquid Beams: Studying Noncovalent Interactions in Solution; *Wattenberg, Andreas; Sobott, Frank; Brutschy, Bernhard; J.W. Goethe-Universität Frankfurt/M., Germany.	WPD 068 Design and Evaluation of an 11 Tesla ESI FT-ICR Mass Spectrometer; *Quinn, John; Drader, Jared; Hendrickson, Christopher; Marshall, Alan; National High Magnetic Field Laboratory, Florida.
WPC 056	Ion Resolution in an Orthogonal Time-of-Flight Mass Spectrometer; *Lasater, Matt; Laude, David; University of Texas at Austin.	WPD 069 Mass-Selective Quadrupole External Ion Accumulation for FT-ICR Mass Spectrometry; *Shi, Stone; Hendrickson, Christopher; Quinn, John; Marshall, Alan; Florida State University, Florida.
WPC 057	Statistical Evaluation of LSIMS Mass Spectra: Confirmation/Refutation of Alleged Beam-induced Reduction Processes; *Green, Lisa; Busch, Kenneth; Georgia Institute of Technology, GA.	WPD 070 A Multisample MALDI Probe for External Source FTMS; *Liu, Jun; Tseng, Ken; Lebrilla, Carlito; University of California, Department of Chemistry, Davis, CA.
WPC 058	Probing Chemical Damage Using XPS and TOF-SIMS with Cluster Projectiles; *Santiago, Vanessa; Van Stipdonk, Michael J.; Schweikert, Emile A.; Department of Chemistry, Texas A&M University.	WPD 071 Evaluation of a Trapped Ion Accumulation Cell for a Magnetic Field Focused ESI Capillary HPLC/FTICR; *Ostrander, Chad M.; Arkin, C Richard; Harper, Carla J.; Laude, David A.; University of Texas at Austin.
WPC 059	Measuring the Influence of Matrices on the Metastable Dissociation of an Analyte Molecule Using a Reflectron TOF Mass Spectrometer; *English, Robert; Van Stipdonk, Mike; Schweikert, Emile; Chemistry Department, Texas A&M University, TX.	WPD 072 Interaction Between Explosive- and Analyte Layers in Explosive-Matrix Assisted Plasma Desorption Mass Spectrometry; *Coorey, Ramal; Hakansson, Kristina; Zubarev, Roman; Talrose, Viktor; Hakansson, Per; Uppsala University, Sweden.
WPC 060	Velocity Distributions of Neutral Molecules Desorbed by the Impact of Molecular Projectile Ions upon Organic Surfaces; *Beck, Jonathan R.; Riederer, Donald E.; University of Missouri-Columbia, Columbia, MO.	WPD 073 Time-of-flight Mass Spectrometer for Investigations of Laser Ablation Processes; *Kozlov, Boris; Yashchuk, Valerii; Ioffe Physical-Technical Institute.
WPC 061	Nebulization Considerations For Low-Flow LC/MS and CE/MS Interfacing; *Browner, Richard; Shou, Wilson; Baxter, Christina; Bayer, Charlene; Georgia Institute of Technology.	WPD 074 Multi-Anode Detection in Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry; *Koomen, John; Barbacci, Damon; Russell, David; Schultz, Al; Ulrich, Steve; Burton, William; Texas A&M University.
WPC 062	Attribution of an Effective Temperature on the Internal Energy Distributions of Ions Emitted from an Electrospray Source.; *Caroline, Collette; Laszlo, Drahos; Edwin, De Pauw; Karoli, Vékey; Laboratoire de Spectrometrie de Masse/Chimie/Université de Liège.	WPD 075 Faraday Cup Detector Array with Electronic Interface; *Schumacher IV, Frank; Scheidemann, Adi; Darling, Bruce; Jones, Patrick; Isakharov, Arthur; University of Washington, Deptartment of Chemistry.
WPC 063	Ion Suppression: A Concern During Multi-component LC/MS/MS Analysis?; *Morgan, Daniel; Frick, Lloyd; Glaxo Wellcome, Inc., North Carolina.	WPD 076 A Novel Surface Induced Dissociation Tandem Mass Spectrometry Set-Up.; *Klap, Vincent; Duursma, Marc; de Snijer, Ad; Kistemaker, Piet; Boon, Jaap; Heeren, Ron; FOM-AMOLF.
WPC 064	Ion Detection with a Cryogenic Detector Compared to a Microchannel Plate Detector in MALDI TOF-MS; *Westmacott, Garrett; Zhong, Feng; Frank, Matthias; Labov, Simon; Benner, W. Henry; Lawrence Berkeley National Laboratroy, CA.	WPD 077 The Development of an Advanced Performance High Mass Detector For Time Of Flight MS Applications.; *Laprade, Bruce; Grubner, George; Owens, Kevin; Kosakowski, Dennis; Galileo Corporation, Massachusetts.
		WPD 078 Obtaining High Mass Accuracy on LC-TOF-MS; *Gulcicek, Erol; Whitehouse, Craig; Andrien, Bruce; Analytica of Branford, Inc. CT.

- WPD 079 **Design and Performance of a MALDI-QqTOF Mass Spectrometer.**; *Loboda, Alexander; Krutchinsky, Andrew; Spicer, Victor; Ens, Werner; Standing, Kenneth; Time-of-Flight Lab., Physics Department, University of Manitoba, Canada.
- WPD 080 **A Continuous Zero Angle Reflecting Time-of-flight Mass Spectrometer**; *Hanson, Curtiss; University of Northern Iowa.
- WPD 081 **Ion Optics of Multi-turn TOF/MS as Flight Model of COSAC Project of ROSETTA Mission**; *Toyoda, Michisato; Ishihara, Morio; Matsuo, Takekiyo; Ghielmetti, Arthur; Roll, Reinhard; Rosenbauer, Helmut; Department of Physics, Graduate School of Science, Osaka University.
- WPD 082 **A New Design for a MALDI Tandem Time-of-Flight Mass Spectrometer**; *Katz, Daniel L.; Barofsky, Douglas F.; Oregon State University, Corvallis, OR.
- WPD 083 **The Mass-Correlated Delayed Extraction: Feasibility and Resolution**; *Kovtoun, Slava; Cotter, Robert; Johns Hopkins University, SOM, Department of Pharmacology.
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- WPD 085 **Investigation of Protein Conformers Using High Field Asymmetric Waveform Ion Mobility Spectrometry**; *Purves, Randy; Barnett, David; Guevremont, Roger; National Research Council of Canada, Ontario, Canada.
- WPD 086 **Improved Ion Transmission in Electrospray Mass Spectrometry: Optimization of the Ion Funnel Concept**; *Bailey, Thomas; Futrell, Jean; Prior, David; Anderson, Gordon; Tolmachev, Alexey; Udesch, Harold; Smith, Richard; University of Delaware, Delaware.
- WPD 087 **Coupling MALDI to a Mobility-O-TOF**; *Fuhrer, Katrin; Gonin, Marc; Schultz, Albert; Gillig*, Kent; Russell*, David; Ionwerks, Texas A&M University, TX.
- WPD 088 **An Integrate Benchtop Mass Spectrometer for Pyrolytic Analysis of Complex Chemical and Biological Systems**; *Martin, Pascal; Peraldi, Olivier; L'Heureux, André; Bertrand, Michel J.; University of Montreal, Dep. Chemistry, Canada.
- WPD 089 **A Plasma Ion Source-Ion Trap Mass Spectrometer for Elemental Analysis**; *Takada, Yasuaki; Nabeshima, Takayuki; Hashimoto, Yuichiro; Sakairi, Minoru; Hitachi, Ltd., Japan.
- WPD 090 **Comparing Atmospheric Pressure Microwave-Induced Plasma and ESI for Analysis of Biological Samples**; *Kwon, Jun-young; Moini, Mehdi; University of Texas at Austin.
- WPD 091 **High Mass Accuracy Ion Trap LC/MS**; *Stacey, Catherine; Bruker Daltonics.
- WPD 092 **MALD Ions in a Paul Trap**; *Schluengger, Urs P.; Stoeckli, Markus; Compton, Jere; Caprioli, Richard M; Vanderbilt University Medical Center, Nashville TN.
- WPD 093 **Use of a Modern Ion-Trap Mass Spectrometer to Generate A 3-D Data Array That Is Processed for Parent Ion, Product Ion and neutral Loss information.**; *Tiller, Philip; Mylchreest, Iain; Schwartz, Jae; Shostall, Jim; McGregor, Jamie; Finnigan.
- WPD 094 **In-BeamPyrolysis with a MAB-TOF Instrument for Rapid Bacterial Chemotaxonomy**; *Wilkes, Jon G.; Letarte, Simon; Holcomb, Manuel; Rafii, Fatemeh; Bertrand, Michel J.; USFDA, National Center for Toxicological Research, Arkansas.
- WPD 095 **A Microfabricated Electrospray Ionization Source on a Chip for Mass Spectrometry-based Protein Analyses**; *Lee, Terry D.; Licklider, Larry; Wang, Xuan-Qi; Desai, Amish; Tai, Yu-Chong; Beckman Res. Inst./The City of Hope; Electrical Engineering Dept., Cal Tech.
- WPD 096 **New GC-MS and LC-MS Systems Based on Supersonic Molecular Beams**; *Amirav, Aviv; Dagan, Shai; Tzanani, Nitzan; Granot, Ori; School of Chemistry, Tel Aviv University, Tel Aviv, Israel.
- WPD 097 **Connecting Flow Pyrolyser to Multi-Channel ESI to Detect Unstable Intermediates**; *Hong, Chi-Ming; Tsai, Feng-Chih; Sheia, Jentae; National Sun Yat-Sen University, Kaohsiung, Taiwan.
- WPD 098 **Cold ESI-MS for Characterization of the Self-assembled Nano Structures**; *Yamaguchi, Kentaro; Sakamoto, Shigeru; Imamoto, Tsuneo; Fujita, Makoto; Chiba-University and Institute for Molecular Science, Japan.
- WPD 099 **A Simple and Robust Nanospray Probe**; *Guo, Xu; Vinayagamoorth, Inthu; Siu, K.W.Michael; Department of Chemistry, York University.
- WPD 100 **Microfabrication of a Capacitive Electrospray Ion Source Using Crystalline BaTiO₃**; *Park, Sang Hyun; Hackett, Murray; Dept. of Medicinal Chemistry, University of Washington.
- WPD 101 **The ESA Coulochem Electrochemical Cell Coupled With Electrospray Ionization Mass Spectrometry**; *Jurva, Ulrik; Bruins, Andries; University of Groningen, Centre for Pharmacy.
- WPD 102 **Membrane Introduction Mass Spectrometry for In-Situ Underwater Analysis**; *Fries, David P.; Short, R. Tim; Toler, Strawn K.; Byrne, Robert H.; University of South Florida, Department of Marine Science.
- WPD 103 **TBA**
- WPD 104 **Construction of a Laboratory Model Multi-turn TOF/MS of COSAC Project of ROSETTA Mission**; *Ishihara, Morio; Toyoda, Michisato; Ito, Hiroyuki; Yamaguchi, Shinichi; Matsuo, Takekiyo; Ghielmetti, Arthur; Roll, Reinhard; Rosenbauer, Helmut; Osaka University Japan.
- WPD 105 **Can High Mass Accuracy TOF Mass Spectrometers Replace Sector Instruments for Elemental Analysis?**; *Jiang, Longfei; Moini, Mehdi; University of Texas at Austin.
- WPD 106 **The Use of Stable-isotope (O-18) Labeling of Enzymatic Digests in the Characterization of SDS-gel Purified Proteins.**; *Hawke, David H.; Hsi, Kuo-Liang; Dupont, David R.; Falick, Arnold M.; PE-Biosystems, CA.
- WPD 107 **Investigating Conditions for Noncovalent Complex Analysis Using ESI-TOF MS**; *Keefe, Tim; Dresch, Thomas; Bruker Daltonics, MA.
- WPD 108 **Enhancing Full Scan MS/MS Sensitivity of Ion-Trap Mass Spectrometers**; *Drexler, Dieter; Lopez, Linda; Cunniff, Jack; Tiller, Philip; Schwartz, Jae; Senko, Mike; Mylchreest, Iain; ThermoQuest Finnigan, CA.

WPD 109	The use of API-Ion Trap Mass Spectrometry to Characterize Biosynthesis Products; *Goodley, Paul; Moore, Bradley; Sadilek, Martin; University Washington, Seattle, WA.	WPE 124	Recent Developments and Applications of HPLC-NMR-MS for Structural Elucidation; *Kemp, Craig; Maple, Steven; Kaerner, Andreas; Winger, Brian; Eli Lilly and Company.
WPD 110	Mass Resolution With The Curved Field Reflectron; *Bowdler, Andrew; Raptakis, Emmanuel; Kratos Analytical Ltd., UK.	WPE 125	Metal Binding Selectivities of Combinatorial Library Determined via HPLC and Post-Column Reactions; *Kempen, Esther; Brodbel, tJennife ; University of Texas at Austin, Texas.
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WPE 111	Increased LC/MS Throughput using a Multiple LC Column System for Quantitative Pharmacokinetic Analysis; Schultz, Gary A.; *Corso, Thomas N.; Kapron, James; Advanced BioAnalytical Services, Inc.	WPE 126	Molecular Weight Determination of Hyaluronic Acid Mixtures by Gel Filtration Chromatography Coupled to MALDI-MS; *Yeung, Bernice; Kinstler, Olaf; Marecak, Dale; Amgen Inc., California.
WPE 112	CE/MS/MS Analyses of Protein Digests from Bacterial Cells with SWIFT Technique in a qIT/reTOF Mass Spectrometer; *Kim, Jeongkwon; Jin, Xiaoying; Parus, Steve; Lubman, David M.; The University of Michigan.	WPE 127	Improvement of Ultrafast HPLC/MS for High Throughput Analysis of Combinatorial Chemistry Libraries; *Lee, Heewon; Li, Lily; Kyranos, James; ArQule, Inc., MA.
WPE 113	Ballistic Chromatography - Improving Sample Throughput Without Compromising Resolution for LC/MS Analysis of Combinatorial Chemistry Samples; *Scott, Wayne; Soto, Denis; Nugent, Kerry; Michrom BioResources, Auburn, CA.	WPE 128	High Performance CE/ESI-MS for Analysis of Biological Mixtures; *Moini, Mehdi; The University of Texas at Austin.
WPE 114	Adaptation of Electrospray Nebulizer for Capillary Chromatography; *Phillips, Richard; Stacey, Catherine; Bruker Daltonics.	WPE 129	A High Throughput Purifier for Product Purification and Identification in Parallel Synthesis; *Chen, Ruidan; Zang, Li-hsin; Szczesniewski, Andre; Hitachi Instruments, Inc., California.
WPE 115	Approaches for High Duty Cycle HPLC-FT-MS/MS; *Speir, Paul; Berg, Christian; Lauken, Frank; Bruker Daltonics.	WPE 130	Replacement of Alkyl Amines by Ammonium Acetate in Ion Suppression Reversed Phase HPLC: Improved Sensitivity for ESI-MS Interfacing; *Caesar, Jr., John P.; Centrella, Paolo; Waraszkiewicz, Sigmund M.; Astra Pharmaceuticals.
WPE 116	Fast Quantitation of BTEX and Total Aromatics in Petroleum Products by GC-CIMS; *Wagner, Brian; Nicol, Gordon; Munson, Burnaby; University of Delaware, Newark, DE.	WPE 131	Coupling MicroColumn Separations with Time-of-Flight Mass Spectrometry; *Sin, Joseph; Xin, Baomin; Lippert, Andreas; Lee, Milton; Wolley, Cole; Rockwood, Alan; Lee, Edgar; Sensar Corporation, Utah.
WPE 117	Characterization of Non-Polar Hydrocarbon Polymers by GPC/ESI/FTMS; *Zhong, Wendy; Simonsick, Jr., William; Celikay, Recep; DuPont Mashall R & D Laboratory.	WPE 132	Towards an Efficient LC/EI-MS Interface: Present Achievements and Future Developments; *Cappiello, Achille; Palma, Pierangela; Famiglini, Giorgio; Mangani, Filippo; Balogh, Michael, Istituto di Scienze Chimiche-Università di Urbino.
WPE 118	Comparison of MAB vs EI Ionization for MS Analysis of N-Nitrosamines and Similar Compounds; *Billedieu, Stanley M.; Holcomb, Manuel; Wilkes, Jon G.; FDA/NCTR, Arkansas.	WPE 133	Analysis of Heat Labile Molecules By LC/MS Utilizing Sonic Spray Interface (SSI); *Szczesniewski, Andre; Chen, Ruidan; Lau, Sharon; Hitachi Instruments, Inc.
WPE 119	HPLC-ESI/MS Analysis of Organoselenium Compounds With Crown Ether Complexation; *Shou, Wilson; Browner, Richard; Georgia Institute of Technology.	WPE 134	Quantitation of Underivatized Amino Acids and Catabolites Using HILIC with APCI Ion-Trap MS Detection; *Croes, Robert; Litwiler, Kevin; Wilbert, Sibylle; DuPont Biotechnology.
WPE 120	Analysis of Biogenic Amines by On-line Capillary Electrophoresis-Electrospray Ionization Mass Spectrometry (CE-ESI-MS) in Food Samples; *Chen, Zhaohui; Liu, Chun-sheng; Pinto, Devanand; LeBlanc, Eileen; LeBlanc, Raynald; Dovichi, Norman; Department of Chemistry, University of Alberta, Edmonton, Alberta, Canada.	WPE 135	Trace Analysis of Chlorofluorocarbons and their Replacement Compounds by Capillary Gas Chromatography-quadrupole Mass Spectrometry; *Mangani, Filippo; Maione, Michela; Lattanzi, Luciano; Arduini, Igor; University of Urbino, Italy
WPE 121	Multiple LC/MS : Parallel and Simultaneous Analyses of Liquid Streams by LC/TOF Mass Spectrometry Using a Novel Eight Way Interface; *Giles, Kevin; SmithKline Beecham Pharmaceuticals.	WPE 136	Packed Column Supercritical Fluid Chromatography/Mass Spectrometry For High-Throughput Analysis; *Ventura, Manuel; Farrell, William; Aurigemma, Christine; Greig, Michael; Alanex.
WPE 122	Quantitative Analysis of Prenylflavonoids in Hops and Beer by LC-MS-MS; Stevens, Jan; *Taylor, Alan; Deinzer, Max; Department of Chemistry, Oregon State University, Oregon.	WPE 137	Applications of SFC/ELSD/MS and SFC/CLND/MS for the Analysis and Quantitation of Combinatorial Libraries; *Wang, Tao; Zeng, Lu; Kassel, Daniel B.; CombiChem, Inc.
WPE 123	LC/MS Identification of Novel Soy Isoflavone Isomers; *Wargo, Wayne; Johns, Paul; Patel, Gaurav; Abbott Laboratories - Ross Products Division.		

WPE 138	"On-The-Fly" Mass Accuracy Measurements of Combinatorial Libraries by HPLC/ESI/TOF-MS; *Wang, Xiaoli; Takach, Ed; Kehoe, Teri; Zhou, Joe; Kassel, Daniel B.; CombiChem, Inc.	WPE 153	A Molded Polymer Micro-Electroelution Device for Improved Coupling of in-Gel Protein Digestions with ESI and MALDI/MS; *Timperman, Aaron; Aebersold, Ruedi; University of Washington, Seattle, WA
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WPE 140	The Effect of Ion Source Temperature on the Sensitivity of a Benchtop Mass Spectrometer; *Butrym, Eric; Manura, John; Colby, Steven; Scientific Instrument Services Inc. NJ.	WPE 155	Automated Multidimensional HPLC for the Purification of Proteins in Proteomic Analysis (MDLC/MS); *Nadler, Tim; Parker, Kenneth; DeGnore, Jon; Nadler, Monica; Neel, Benjamin; PE Biosystems, Inc. and Harvard Institute of Medicine.
WPE 141	Structure Elucidation of Spiroxin A and its Analogs by LC/ESIMS; K, Janota; L., McDonald; D., Abbanat; *G. T. , Carter; Wyeth-Ayerst Research, NY.	WPE 156	Extending the Performance of LC/MS to Involatile Buffers; *Bayliss, Mark; McCullagh, Michael; ThermoQuest Finnigan, Manchester, UK.
WPE 142	Characterization of the Capillary Interface used in Direct Sampling Ion Trap Mass Spectrometry; *Thompson, Cyril; Harmon, Sara; Oak Ridge National Laboratory.	WPE 157	CE-ESI-MS versus Capillary LC-ESI-MS for the Analysis of Peptides; *Serwe, Maria; Ross, Gordon; Hewlett-Packard GmbH, Waldbronn, Germany.
WPE 143	Application of TCRC/MS to the GC/MS Analysis of Large Volum Samples; *Pelletier, Bernard; Venne, Karine; Bertrand, Michel J.; University of Montreal, Dep.Chemistry, Canada.	ORGANIC ANALYSIS	
WPE 144	Enhanced GC/MS Sensitivity with Simultaneous Selected Ion and Full Ion Scanning; *Patkin, Adam; LeMoine, Elaine; The Perkin-Elmer Corporation, Norwalk, CT.	WPF 158	Herbal Analyses: Beta-asarone in Calamus by GC/MS and NDGA in Chaparral by LC/MS/MS; *Allen, Amber; Lam, Thomas; Nicolidakis, Helen; Mori, Brian; Health Protection Branch, Health Canada, Burnaby BC, Canada.
WPE 145	Using Solid Phase Micro-Extraction and Ion Trap Mass Spectrometry to Differentiate between Varieties of Rice.; *Grimm, Casey; Lloyd, Steven; Braggins, Terry; Sothern Regional Research Center.	WPF 159	Determination of Alternariol and Alternariol Monomethyl Ether in Fruit Juices and Beverages by LC-MS and LC-MS/MS.; *Lau, Benjamin; Scott, Peter; Lewis, David; Kanhere, Shriniws; Cléoux, Chantal; Roscoe, Veronica; Health Canada, Canada.
WPE 146	Approaches to Micro-HPLC/MS/IR Coupling; Acker, Pierre; *Guenat, Christian; Moss, Serge; Ueli, Ramseier; Novartis Pharma AG, Switzerland.	WPF 160	Structural Determination of New Ciguatoxin Analogs using High Energy CID MS/MS; *Naoki, Hideo; Fujita, tsuyoshi; Cruchet, Philippe; Legrand, Anne-Marie; Yasumoto, Takeshi; Suntory Institute for Bioorganic Research.
WPE 147	Capillary GPC-MALDI-FTMS of Polyesters Using On-Line Electrospray Deposition; *Mize, Todd; Simonsick, William; Amster, Jonathan; University of Georgia.	WPF 161	Structural Characterization of Softwood Lignin Using FT/ICR Tandem Mass Spectrometry; *Palmlad, Magnus; Önnerud, Hans; Håkansson, Kristina; Axelsson, Jan; Uppsala University, Sweden.
WPE 148	An Automated LC/MS System Optimized for High Throughput Mass Directed Fraction Collection; *Chumsae, Chris; Brailsford, Andrew; Waters Corporation.	WPF 162	Structural Elucidation Studies on 14-Membered Macrolides by Electrospray MSⁿ.; *Kearney, Gordon; Gates, Paul; Long, Paul; Jones, Raymond; Leadlay, Peter; Staunton, Jim; University of Cambridge, United Kingdom.
WPE 149	Analysis of Polyphenols in Plant Extracts Using Atmospheric Pressure Ionisation Mass Spectrometry; *Mullen, Bill; Crozier, Alan; Mandel, Roger; Plant Molecular Science Group, University of Glasgow.	WPF 163	Analysis of Products from a C2H2/N2 Microwave Discharge: New Nitrile Species; *Fujii, Toshihiro; Kishi, Hiroshi; Arulmozhiraja, Sundaram; Kareev, Mikhael; Yamada, Takehide; National Institute for Environmental Studies, Japan.
WPE 150	LC/FTMS MS and MS/MS Exact Mass Measurements; *Burton, Richard; Tang, Mike; Buko, Alex; Matuszak, Ken; Abbott Laboratories.	WPF 164	Investigation of Oxidative Products of Tyrosine Using Pyrolysis-Membrane Inlet Mass Spectrometry; *Madonna, Angelo; Voorhees, Kent; Colorado School of Mines.
WPE 151	A Novel HPLC-MS Method For Amino Acids Separation and Identification; *Gao, Quanyin; Larson, Steve; Gum, Glenwood; Yoshimura, Norman; B. Braun Medical Inc., California.	WPF 165	MS Analysis of Surface Photoproducts - Stilbazole at Silver; *McMahon, John; Hoertz, Paul; Fordham University.
WPE 152	Identification of In Vitro and In Vivo Metabolites by LC-MS/MS and LC-NMR; *Zhang, Ji; Chang, Ming; Yang, Daichang; Yuan, Jinhua; Wang, Frances; Yang, Shengtian; Bible, Roy; Breau, Alan; Searle pharmaceutical/Monsanto, Skokie, IL.	WPF 166	Differentiation of Isomers of Trialkyltin Carboxylate by Liquid Ionization Mass Spectrometry and Theoretical Calculation; Yuan, Moucun; Shigihara, Atsushi; *Tsuchiya, Masahiko; Yokohama National University.

WPF 167	GC/MS Analysis of the Reaction of Tri-(TMS) Malonates with Oxygen.; *Lépine, François; Mamer, Orval A.; Boismenu, Daniel; Milot, Sylvain; INRS-Institut-Armand Frappier, Université du Québec, Laval, QC, Can.	WPG 180	Automated Quantification for the High Throughput Pharmacokinetic Screening of Drugs in Plasma; Cooper, Don; Hooper, Alex; *Little, David; Perez, Jose; Preece, Steve; Micromass UK Limited.
WPF 168	High Throughput Analyses of Combinatorial Libraries for Determination of Elemental Compositions using FT-ICR Mass Spectrometry; *Walk, Tilmann; Trautwein, Axel; Jack, Ralph; Thyroff, Matthias; Jertz, Roland; Baykut, Gökhan; Jung, Günther; University of Tübingen, Germany.	WPG 181	High Throughput Determination of Glyphosate in Plant Leaf Extracts; *Fujiwara, Hideji; Monsanto Co., Missouri.
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WPF 170	Derivatization GC/MS of Chelators and Chelator Fragments; Mong, Gary; *Campbell, James; Battelle, Pacific Northwest National Laboratory.	WPG 183	A Novel Approach for Rapidly Developing an Efficient Solid-Phase Extraction Method; *Ding, Jianmei; Iraneta, Pamela; Neue, Uwe; Waters Corporation, MA.
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WPG 174	Applications of a Generic Method Using 96-Well Plate Solid Phase Extraction and LC/MS/MS for Compounds in Development; *Marquez, Cristina; Gale, Jane; Bristol-Myers Squibb, New Brunswick, NJ.	WPG 187	Simultaneous Screening of Multiple Analytes For Discovery Support by LC-MS/MS; Teitelbaum, Phil; Glaza, Steve; Abdelhameed, Magdy; *Brockman, Adam; Covance Laboratories Inc.
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WPG 179	High-throughput Drug Analysis for Preclinical and Clinical Studies Using Semi-automated 96-well SPE and LC/MS/MS; *Ke, Jing; Vitale, Karla J.; Pace, Ellen; Green, Edward G.; Rule, Geoffrey S.; Lowes, Stephen; Henion, Jack D.; Miller, Krys J.; Advanced BioAnalytical Services Inc.; Amgen Inc.	WPG 192	New Analytical Tools for enabling Drug Discovery; *Bonner, Ron; Robson, John; Anacleto, Joe; Duchoslav, Eva; Burton, Lyle; PE Sciex Instruments.
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WPG 195	An In Vitro Hepatocyte Model for Metabolite Profiling using both Ion Trap and Triple Quadrupole Technologies; *Gritsas, Ari; Flarakos, Jimmy D.; Lahaie, Mathieu; Reimer, Mark L. J.; Chen, Liangfu; Jurima-Romet, Malle; Phoenix International Life Sciences, CANADA.	WPG 206	Enhanced Throughput In Vitro Absorption Screening by Caco-2 Using Fast Gradient Elution LC/MS with Column-Switching; *Ackermann, Bradley; Stratford, Jr, Robert; Castetter, Scott; Hanssen, Brenda; Ruterborries, Kenneth; Laska, Dennis; Lindstrom, Terry; Lilly Research Laboratories.
WPG 196	Comparision of High Throughput LC-MS/MS Assays for Sensitive Determination of Drugs in Plasma; *Zell, Manfred; Husser, Christophe; Hopfgartner, Gerard; F. Hoffmann-La Roche Ltd, Drug Metabolism & Kinetics, Basel, Switzerland.	WPG 207	Automated Profiling of Medicinal Fermentation Mixtures; *Duchoslav, Eva; Sakuma, Takeo; Baker, Carol; Beirderman, Barry; Grode, Stephen; Straikalaitis, Nancy; Strother, Diane; Zwart, Marian; PE Sciex.
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WPG 198	Fast Qualitative and Quantitative LC-MS/MS Determination of Benzodiazepines in Unknown Plasma Samples with an Ion Trap; Gougnard, Thierry; *Baessmann, Carsten; Schubert, Michael; Charlier, Corinne; Plomteux, G.; Lab. of Clin. Toxicology, CHU de Liege, Belgium / Bruker Daltonik, Germany.	WPG 209	Rapid Identification of the Major In Vitro Metabolites of New Chemical Entities Using 96 Well Plate Solid Phase Extraction and Ion Trap Mass Spectrometry; *Miao, Zhuang; Janiszewski, John; Lawrence, John; Prakash, Chandra; Pfizer Central Research, CT.
WPG 199	A New Approach to the Analysis of In-Vitro Caco-2 Permeability Samples Utilizing LC/MS and LC/MS/MS; *Bulgarelli, James P.; Tweed, Joseph A.; Michael, Steven M.; Aungst, Bruce J.; Giuffre, Jenny M.; Oates-Lenz, Kristi; Ribadeneira, Maria D.; DuPont Pharmaceuticals Company, Wilmington, DE.	WPG 210	Utility of N-in-One PK Studies in Mice Using LC/MS/MS in Drug Discovery; *Liang, Zhenmin; Egan, Tom; Renzetti, Marcia; Roberts, John; Harmon, Charles; Gerber, Louise; Bansal, Surendra; Greway, Tony; Hoffmann-La Roche, NJ.
WPG 200	A Comparison Between Multiple Drug Mixtures and Discrete Drug Solutions for Quantitation Using LC/MS/MS in the in-vitro Caco-2 Model for Membrane Permeability; *Tweed, Joseph A.; Bulgarelli, James P.; Michael, Steven M.; DuPont Pharmaceuticals Company DE.	WPG 211	Development of a High Throughput Analytical Technique for Compound Permeability Studies; *Wei, Ru; Lee, Heewon; Li, Lily; Kyranos, James; ArQuile Inc., MA.
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- WPH 235 **Multiple-stage CID's of Peptides Bound to Two Cations (M + Cat₁⁺ + Cat₂⁺) (Cations: H⁺, Li⁺, Na⁺, K⁺);** *Feng, Wan Yong; Gronert, Scott; Lebrilla, Carlito B.; San Francisco State University and University of California at Davis.
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- WPH 239 **Novel MS/MS Effects and Techniques in the Localization of Unusual Posttranslational Modifications;** *Kelleher, Neil; Zubarev, Roman; Bush, Kristine; Hendrickson, Chris; Furie, Barbara; Furie, Bruce; McLafferty, Fred; Walsh, Christopher; Harvard Medical School, Massachusetts.
- WPH 240 **Peptide Sequencing by Two-Dimensional and Product Mass Spectrometry;** *Zhang, Zhongqi; Ronk, Michael; McElvain, James; Amgen Inc., California.
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- WPH 244 **Probing Proteolytic Enzyme Activity by Site-Specific Mutagenesis and Mass Spectrometry;** *Uljon, Sacha; Lichtenhaler, Stefan; Murphy, Michael; Golde, Todd; Chait, Brian; Wang, Rong; *The Rockefeller University.*
- WPH 245 **Identification of Surfactant-Associated Anti-Bacterial Polypeptides by Tandem Mass Spectrometry;** *Griffiths, William; Wang, Yuguin; Curstedt, Tore; Sjövall, Jan; Johansson, Jan; Karolinska Institutet.
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- WPH 247 **Identification and Characterization of Post-Translational Modified Human Ras Protein by MALDI-TOF-MS;** *Sumner, Lloyd W.; Wolf, Barbara P.; Chapkin, Robert S.; Dick, Esther S.; Davidson, Laurie A.; Lupton, Joanne R.; Russell, David H.; *Laboratory for Biological Mass Spectrometry, Texas A&M University.*
- WPH 248 **High Sensitive LC/MS Peptide mapping in a Mechanism Study of Inhibition.;** *Buko, Alex; Tang, Qing (Mike); Trevillyan, James; Chiou, Grace; *Abbott Laboratories.*
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- WPH 250 **Rapid Peptide Mapping by Immobilized Trypsin Column/Mass Spectral Analysis;** *Tang, Xiaoting; Douglas, Beussman; *Purdue University.*
- WPH 251 **Sequence Analysis of Iminothiazolidine-Blocked Peptides by MS/MS;** *Sadagopan, Nalini; Qi, Jianfeng; Watson, J.Throck; *Michigan State University, Michigan.*
- WPH 252 **Integrated Autosampler for Continuous Flow Nano-electrospray MS/MS;** *Geromanos, Scott; Freckleton, Gordon; Philip, John; Tempst, Paul; *Memorial Sloan-Kettering Cancer Center, New York, NY.*
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- WPH 257 **Direct Sequence Analysis of HLA-DM-dependent and -independent Class II Epitopes;** *Ficarro, Scott B.; Marto, Jarrod A.; Beitz, Jill; Ma, Chengie; Shabanowitz, Jeffrey; Blum, Janice S.; Hunt, Donald F.; *University of Virginia.*
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- WPH 264 **Increasing the Throughput of Nanoelectrospray Protein Identification on a Quadrupole TOF Instrument;** *Steen, Hanno; Andersen, Jens; Podtelejnikov, Alexandre; Kuster, Bernhard; Molina, Hendrik; Mann, Matthias; *University of Southern Denmark.*
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- WPH 266 **Investigation of Tight Junction Proteins in ras-Transformed MDCK Cells by 2D-PAGE and nanoLC-ESI/MSMS;** Jedrzejewski, Paul T.; Chen, Yan-Hua; *Keon, Brigitte H.; Barnett Institute.
- WPH 267 **Elucidating a New Biological Pathway Using Mass Spectrometry: The Export of Messenger RNA Out of the Cell Nucleus;** *Bachi, Angela; Grueter, Patric; Izaurralde, Elisa; Wilm, Matthias; *European Molecular Biology Laboratories, Heidelberg, Germany.*
- WPH 268 **Investigation of Charge Heterogeneity in 2D-Polyacrylamide Gel Electrophoresis by LC-ESI-MS;** *Sarioglu, Hakan; Walk, Tilmann; Jung, Guenther; Eckerskorn, Christoph; Lottspeich, Friedrich; Max-Planck-Institut fuer Biochemie, Martinsried, Germany.
- WPH 269 **Analysis of the Proteome of Human Macrophages Activated by Lipopolysaccharide;** *Beranova, Sarka; Desiderio, Dominic; Pabst, Michael; *The University of Tennessee, Memphis.*

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WPH 276	Characterization of the Fine Structure of a Conformational Epitope by Epitope Excision and Differential Chemical Modification; * <i>Hochleitner, Elisabeth; Christoph, Borchers; Kenneth, Tomer; National Institute of Environmental Health Sciences.</i>	WPI 291	Purification-free Analysis of Single Nucleotide Polymorphisms (SNPs) by MALDI; * <i>Gut, Ivo Glynne; Lechner, Doris; Berlin, Kurt; Sauer, Sascha; Kostrzewa, Markus; Fröhlich, Thomas; Wenzel, Thomas; Lehrach, Hans; Max-Planck-Institute for Molecular Genetics.</i>
WPH 277	Identification of Sites of Glycosylation and Phosphorylation in Proteins using Mixed-Mode data dependent scans in Ion Trap Mass Spectrometers; * <i>Phan, Pham; Truong, Long; Ling, Victor; Goodley, Paul; Hewlett Packard, Palo Alto, CA</i>	WPI 292	ESI-quadrupole MS Analysis of Single Base Substitutions in Human p53 Gene PCR Products; * <i>Walters, James; Krahmer, Mark; Nagpal, Madan; Fox, Karen; Fox, Alvin; University of South Carolina School of Medicine, South Carolina.</i>
WPH 278	Designing Bioreactive Probe Surfaces for MALDI-TOF Analysis of Proteins; * <i>Tubbs, Kemmons; Nelson, Randall; Intrinsic Bioprobe, Inc.</i>	WPI 293	Analysis of Single Nucleotide Polymorphism in Human DNA by Single-Base Extension & MALDI-TOF Mass Spectrometry; * <i>Fei, Zhengdong; Smith, Lloyd; Department of Chemistry, University of Wisconsin-Madison.</i>
WPH 279	Kinetics and Free Energies of Aldolase Unfolding Intermediates Under Native Conditions; * <i>Deng, Yuzhong; Smith, David L.; Department of Chemistry/University of Nebraska-Lincoln.</i>	WPI 294	Positional Mapping and Sequencing of Modified Oligonucleotides by Enzymatic Digestion and MALDI-TOF MS; * <i>Zhang, Li-Kang; Gross, Michael; Washington University in St. Louis.</i>
WPH 280	Automated protein identification using ESI-MS/MS; <i>Bordoli, Robert; Carruthers, Robin; Hoyes, John; Kapp, Eugene; Langridge, James; O'Malley, Ronan; Yau, Tony; Choudhary, Jyoti; Micromass UK Ltd and GlaxoWellcome.</i>	WPI 295	Ladder Sequencing of Oligonucleotides with Both Terimi Blocked Using Exonuclease Digestion and Ionspray Mass Spectrometry; * <i>Wu, Huaiqin; Aboleneen, Hoda.</i>
NUCLEIC ACIDS			
WPI 281	Quantitation of Small Synthetic Oligonucleotides by MALDI-TOF; * <i>Bondarenko, Pavel; Shebaro Germann, Lina; Sikes, Ken; Willhoite, Steven; Thermo BioAnalysis Corporation, New Mexico.</i>	WPI 296	Screening for RNA Modifications by MALDI Mass Spectrometry; * <i>Kirpekar, Finn; Porse, Bo; Douthwaite, Stephen; Roepstorff, Peter; Odense University, Denmark.</i>
WPI 282	Fragmentation Pathways of Oligonucleotides in MALDI-MS Studied by H/D Exchange; * <i>Chou, Chau-Wen; Limbach, Patrick A.; Louisiana State University.</i>	WPI 297	The Characterization of Modified Nucleosides from Selected Regions of rRNA; * <i>Berhane, Beniam; Patterson, Kem; Alger, Heather; Brown, Ashanta; Chou, Chau-Wen; Polo, Lenore; Limbach, Patrick A.; Louisiana State University.</i>
WPI 283	Oligofingerprinting with PNAs and MALDI; * <i>Kucharzak, Ramon; Berlin, Kurt; Lehrach, Hans; Gut, Ivo Glynne; Max-Planck-Institute for Molecular Genetics.</i>	WPI 298	RNA/RNA Noncovalent Interactions Determined by Micro ESI-MS; * <i>Naylor, Stephen; Benson, Linda M.; Rodrigues, Paula; Maher III, L. James; Mayo Foundation.</i>
WPI 284	What can be Achieved by "Charge Tagging" DNA ?; * <i>Berlin, Kurt; Gut, Ivo Glynne; Max-Planck-Institute for Molecular Genetics.</i>		

WPI	299	Recognition and Catalysis of RNA-binding Proteins on Ribosomal RNA Probed by MALDI and Electrospray Ionization Mass Spectrometry; *Daniele, Fabris; University of Maryland Baltimore County.	WPI	313	Iron-Bleomycin Induced Damage of Oligonucleotides Monitored by ESI - ITMS; *Marzilli, Lisa; Bunt, Richard; Stubbe, JoAnne; Vouros, Paul; Harsch, Andreas; Northeastern University.
WPI	300	Structure Mapping of 16S rRNA by LC/MS/MS on a quadrupole-TOF mass spectrometer; *Rozenski, Jef; Martin, LeRoy B.; McCloskey, James A.; Crain, Pamela F.; University of Utah, Utah.	WPI	314	Lowering the Limits of Detection of Damaged DNA Bases by LC/API/MS/MS.; *Mouget, Yves; Nelson, Bill; PE Sciex.
WPI	301	TBA	WPI	315	Application of LC-MS-MS to the Quantitation of DNA Oxidation Products in Human Cells and Tissue; *Shen, Lixin; Wainhaus, Samuel; Xu, Xiaoying; Wang, Yan; van Breemen, Richard B.; University of Illinois at Chicago, Illinois.
WPI	302	Non-Covalent Complexes Between DNA-binding Drugs and Double-stranded Oligodeoxynucleotides: A Study by ESI-Ion Trap Mass Spectrometry; *Wan, Katty; Shibue, Toshimichi; Gross, Michael L.; Washington University, Waseda University.	WPI	316	Analysis of Oligonucleotides by Capillary Separation Techniques Coupled with Electrospray Ionization Time-of-Flight Mass Spectrometry; *Barry, John P.; Miller, Jeffrey; PE-Sciex.
WPI	303	Gas-phase Hydrogen/Deuterium Exchange of Single Strand Oligonucleotides; *Robinson, Jessica; Greig, Michael; Laude, David; Griffey, Richard; Alanex Corp., CA; Ibis Ther., CA; Univ. of Texas.	WPI	317	Detection and Measurement of Oxidatively Damaged DNA Bases 8-Oxo-dG and 5-HMU by ES-OTOF-MS; *Williams, Dudley; Young, Mary; City of Hope & Beckman Research Institute, CA.
WPI	304	The Study of Duplex Oligonucleotides by ESI-ITMS: Gas Phase Behavior of Duplexes and Covalently Modified Duplexes; *Andrews, Christine L.; Harsch, Andreas; Vouros, Paul; Barnett Institute, Northeastern University, Boston, MA.	WPI	318	ESI/MS and Tandem MS Identification of the Reaction Products from 3",5"-Bis-TBDMS- 3,N4-Ethano-2"-Deoxycytidine after exposure to Acetic Anhydride and Pyridine; *Rieger, Robert A.; Johnson, Francis; Bonala, Radha R.; Iden, Charles R.; Department of Pharmacological Sciences, SUNY-Stony Brook.
WPI	305	Experimental and Computational Study of Gas-Phase Decomposition Mechanisms of Peptide Nucleic Acids; *Flora, Jason W.; Muddiman, David C.; Virginia Commonwealth University, Virginia.	WPI	319	LC-MS Assay of 8-oxo-7,8-dihydro-2"-deoxyguanosine Using ESI; *Agnihotri, Keshav R.; Iden, Charles R.; Department of Pharmacological Sciences, SUNY-Stony Brook, Stony Brook, NY.
WPI	306	ESI-FTICR Fragmentation Reaction Pathways of 7-Deazaguanine Sequences with a Repeating Motif; *Hannis, James C.; Muddiman, David C.; Virginia Commonwealth University, Virginia.	WPI	320	Quantitation of DNA in Whole Cells by Pyrolysis Membrane-Inlet Quadrupole Ion Trap Mass Spectrometry; *Abbas-Hawks, Christy; Voorhees, Kent; Hadfield, Ted; Colorado School of Mines, Golden, Colorado.
WPI	307	Investigation of the Degradation of Oligonucleotides During the Freezing/Thawing Process Using MALDI; *Bentley, Catherine; Davis, Darryl; University of the Sciences in Philadelphia, Philadelphia, PA.	WPI	321	Gas-phase Stability of Non-Covalent Complexes Between DNA-binding Drugs and Double-stranded Oligodeoxynucleotides: A Study by ESI-Ion Trap Mass Spectrometry; Wan, Katty; *Shibue, Toshimichi; Gross, Michael L.; Washington University, Waseda University.
WPI	308	Formation study of DNA-platine complexes by ESMS; *Carte, Nathalie; Potier, Noelle; Legendre, Franck; Chottard, Jean-Claude; Leize, Emmanuelle; Van Dorsselaer, Alain; Strasbourg University, France.	WPI	322	Condensed-Phase Matrix-Analyte Interaction Studies for MALDI-MS; *Vandell, Victor E.; Brown, Ashanta; Limbach, Patrick A.; Louisiana State University.
WPI	309	Study of the Sensitivity of a Capillary LC-ESMS/MS System for the Analysis of Melphalan /DNA-adducts; *Hoes, Ilse; Van Dongen, Walter; Lemière, Filip; Esmans, Eddy; Van Bockstaele, Dirk; Berneman, Zwi; University of Antwerp, Antwerp, Belgium.			
WPI	310	Analysis of Halogen-Nucleoside Adducts by GC/MS, FAB MS and LC/ESI/MS/MS; *Byun, Jaeman; Henderson, Jeffrey; Heinecke, Jay; Washington University School of Medicine.			
WPI	311	Micro-HPLC/ICP MS for the Quantification of DNA Adducts:Recent developments; Edler, Michael; Jakubowski, Norbert; *Linscheid, Michael; Humboldt University Berlin, Department of Chemistry, Germany.			
WPI	312	ESI/MS and ESI/MS/MS Charaterization of the DNA Repair Complex of Endo VIII and a Thymidine Glycol-Containing Oligonucleotide; Rieger, Robert A.; McTigue, Monica M.; *Iden, Charles R.; Department of Pharmacological Sciences, SUNY-Stony Brook, Stony Brook, NY.			

THURSDAY POSTERS

Thursday posters should be set up 7:30 - 8:00 am and removed by 6:00 pm on Thursday. Authors of odd numbered posters will attend their posters 8:45 - 10:15 am. Authors of even numbered posters will attend their posters 1:30 - 3:00 pm. All authors are encouraged to attend their posters during the lunch break on Thursday.

SPECIAL TOPICS

- 001 **Further Adventures of the Usenet Newsgroup sci.techniques.mass-spec;** *Bostwick, David; Shealy, Sarah; Bartmess, John; Georgia Institute of Technology, GA and University of Tennessee, TN.
- 002 **Development of a Resource Document to Support Legal and Regulatory Applications of Mass Spectrometry;** Bethem, Robert; Boison, Joe; Chakel, John; *Gale, Jane; Heller, David; Musser, Steven; Bristol-Myers Squibb Co., NJ.

CORPORATE SCIENCE

- ThPA 003 **Substance Identification of Ion-Trap MS/MS Spectra in a MS/MS Library;** *Sander, Peter; Bruker Daltonik, Bremen, Germany.
- ThPA 004 **An Integrated Gradient Capillary HPLC/MS System: Instrumentation Optimized for LC/MS;** *Holyoke, Jeffrey; Cohen, Steven; Dourdeville, Tad; DellaRovere, Dennis; Waters Corporation.
- ThPA 005 **Analysis of Natural Products Using LC/MS/MS in Conjunction with Evaporative Light Scattering and UV Detection;** *Gao, Vince C.X.; Powers, James; PE Biosystems, Foster City, CA.
- ThPA 006 **Development of a New Windows NT Datasystem;** *Kovaric, Peter; Gzowski, Peter; Bonner, Ron; Robson, John; PE Sciex Instruments.
- ThPA 007 **Software Prediction of Fragments and Reaction Mechanisms for Interpretation of LC-MS/MS Data;** Mistrik, Robert; *Schnute, William; Cunniff, Jack; Bowers, Gary; ThermoQuest Finnigan, San Jose, CA.
- ThPA 008 **Tune Plus Wizard: Automated Instrument Set Up and Analysis on a Benchtop Ion Trap Mass;** *Halm, Kathy; Hemenway, Eric; Cunniff, Jack; Taylor, Dennis; Shen, Cindy; Thermoquest Finnigan CA.
- ThPA 009 **Use of A Fuzzy Logic Based Algorithm to Automatically Detect Unknown Compounds in LC/MS Analysis;** *Kuhlmann, Frank; Sander, Peter; Cai, Zongwei; Sinhababu, Achintya; Hewlett-Packard Company, Palo Alto, CA.
- ThPA 010 **New Developments in Ion Optics Software: SIMION 7.0;** *Colby, Steven; Dahl, David; Scientific Instrument Services, Inc.
- ThPA 011 **Fast and User-Friendly Windows based Data Acquisition and Analysis system for FTMS;** OConnor, Peter; *Hunter, Richard; IonSpec Corporation.

TRAPPED IONS

- ThPB 012 **New Application of Methods for Phase-Locking Reduction in FTMS;** *Rempel, D. L.; Gross, M. L.; Washington University, St. Louis, MO.

- ThPB 013 **Improved Performance Using a Compensated Cubic Trap for FTMS Studies of MALDI Generated Ions;** *Gooden, Jonathon; Rohrs, Henry; Rempel, Don; Gross, Michael; Washington University in St. Louis, MO.
- ThPB 014 **An RF-Only-Mode Event for FTMS Studies of MALDI-Derived Oligonucleotides and Other Ions;** *Rohrs, Henry; Gooden, Jonathon; Rempel, Don; Gross, Michael; Washington University in Saint Louis.
- ThPB 015 **Isotope Beating Effects in the Analysis of Polymer Distributions by Fourier Transform Mass Spectrometry;** *van Rooij, Gerard; Easterling, Michael; Amster, Jonathan; Heeren, Ron; FOM Institute for Atomic and Molecular Physics, The Netherlands.
- ThPB 016 **Peak Split Phenomenon in Accumulated FTICR Mass Spectra;** *Naito, Yasuhide; Akashi, Satoko; Takio, Koji; The Inst. of Phys. and Chem. Res. (RIKEN), Japan.
- ThPB 017 **Application of Filter Diagonalization for Analysis of FTMS Signals;** *OConnor, Peter; Mandelshtam, Vladimir; McIver, Robert; Li, Yunzhi; IonSpec Corporation.
- ThPB 018 **Direct Observation and Reduction of Magnetron Expansion;** *Arkin, Richard; Schmidt, E. G.; Laude, D. A.; The University of Texas at Austin.
- ThPB 019 **Simultaneous Excitation and Detection for Determination of Ion Mobility and Characterization of Collision Energistics in FT-ICR MS;** *Beu, Steve; S. C. Beu Consulting.
- ThPB 020 **Mechanism of Ions Loss in an ICR Trap During Off-Resonance Excitation;** *Gorshkov, Michael V.; Smith, Richard D.; Vilkov, Andrei N.; Ukhakov, Grigorii P.; Nikolaev, Eugene N.; EMSL, Pacific Northwest National Laboratory, Richland, WA.
- ThPB 021 **The "Sensitivity" Advantage of Fourier Methods;** *Comisarow, Mel; University of British Columbia.
- ThPB 022 **Simulation of Ion Internal Energy Evolution During Collisional Processes in Quadrupole Ion Traps;** *Plass, Wolfgang R.; Goeringer, Douglas E.; McLuckey, Scott A.; Cooks, R. Graham; Purdue University, IN.
- ThPB 023 **Ion Internal Temperature Determinations in a Quadrupole Ion Trap;** *Asano, Keiji; Butcher, David; Goeringer, Douglas; McLuckey, Scott; Oak Ridge National Laboratory.
- ThPB 024 **Varying the RF Frequency: A New Scanning Mode for Quadrupole Ion Traps;** *Rolando, Christian; Sablier, Michel; Simonneau, Gérard; Valette, Sébastien; Université des Sciences et Technologies de Lille.
- ThPB 025 **An Alternate Ion Instability Scan Mode for a Quadrupole Ion Trap;** *Patterson, Garth E.; Badman, Ethan R.; Schreiweis, Amanda L.; Wells, J. Mitchell; Cooks, R. Graham; Purdue University.
- ThPB 026 **Characterization of Cylindrical Ion Trap (CIT) Array Mass Analyzers;** *Ouyang, Zheng; Badman, Ethan R.; Wells, J. Mitchell; Patterson, Garth E.; Cooks, R. Graham; Purdue University, Indiana.

ThPB 027	Micro Ion Trap Mass Spectrometry; *Kornienko, Oleg; Reilly, Peter; Whitten, Willian; Ramsey, Michael; Oak Ridge National Laboratory.	ThPB 042	Detection of Chemical/Biological Agents and Simulants using Quadrupole Ion Trap Mass Spectrometry; *Hart, Kevin J.; Harmon, Sara H.; Wolf, Dennis A.; Vass, Arpad A.; Oak Ridge National Laboratory.
ThPB 028	Development on the Toroid Ion Trap Analyzer; *Lammert, Stephen; Wise, Marcus; Thompson, Cyril; Oak Ridge National Laboratory, Oak Ridge, TN.	ThPB 043	ESI-Iontrap-MS of Biological Non-Covalent Complexes. Feasibility Study and Comparison to ESI-Quadrupole-MS; *Strupat, Kerstin; Carte, Nathalie; Rogniaux, Helene; Leize, Emmanuelle; Van Dorselaer, Alain; Strasbourg University, France.
ThPB 029	Development of the Asymmetric Ion Trap for Environmental Applications; *Alexander, Michael L.; Barlow, S.E.; Pacific Northwest National Laboratory.	ThPB 044	The Elucidation of Peptide Structures and Fragmentation Pathways by Means of multiple Stage collision Induced Processes within a Quadrupole Ion Trap Mass Spectrometer; *Bhatti, F.; Deery, M.; Watts, P.
ThPB 030	Trapping and Storage of Peptide Ions Produced by MALDI and ESI in a Cylindrical Ion Trap; *Hamler, Rick; Lubman, David M.; The Department of Chemistry, The University of Michigan, Ann Arbor, MI.		
ThPB 031	Improving Dirty Sample Tolerance on a GC/MS[*] External Ion Source Quadrupole Ion Trap; *Quarmby, Scott; ThermoQuest Corporation, Austin, TX.		
ThPB 032	Collisionless Trapping of MALDI Ions by Delayed-onset RF in an SRS Ion Trap; *Wilcox, Bruce; Jackson, George S.; Enke, Christie G.; University of New Mexico.	ThPC 045	Characterization of Plasma Protein Sorption onto Biomaterials by MALDI-TOFMS; McComb, Mark E.; *Oleschuk, Richard D.; Chow, Art; King, Martin; Ens, Werner; Standing, Kenneth G.; Perreault, Helene; University of Manitoba, Canada.
ThPB 033	Ion Injection From a Quadrupole to an Itrms: Limits And Improvements; Steiner, Valérie; Brunot, Alain; *Tabet, Jean-Claude; Université Pierre et Marie Curie, Paris VI, France.	ThPC 046	Detection of Gene Expression by MALDI/TOF Mass Spectroscopy; *Berggren, Travis; Griffin, Timothy; Smith, Lloyd; University of Wisconsin, Madison Chemistry Department.
ThPB 034	Heavy Gases as the Buffer Gas in the Quadrupole Ion Trap and Their Effects on Performance; *Danell, Ryan; Glish, Gary; University of North Carolina - Chapel Hill, NC.	ThPC 047	Metastable Ion Decay of Peptides and Proteins in MALDI TOF-MS Using IR and UV Desorption Wavelengths; *Brown, Robert; Durrant, Edward; Utah State University, Logan UT.
ThPB 035	Normalized Collision Energy for Resonance Excitation in Quadrupole Ion Traps; *Schwartz, Jae; Lopez, Linda; Tiller, Philip; Finnigan Corporation.	ThPC 048	Analysis of Polypyrroles by Matrix Assisted Laser Desorption Ionisation Mass Spectrometry; *Vazquez, Jenny; Lewis, Trevor; Sheil, Margaret; Chemistry Department, University of Wollongong, Australia.
ThPB 036	Multi-level CID: A Novel Approach for Improving MS/MS on the Quadrupole Ion Trap; *Mulholland, Joseph J.; Yost, Richard A.; University of Florida.	ThPC 049	Surface-MALDI Investigation of Protein Adsorption to Contact Lens Surfaces; *Kingshott, Peter; St John, Heather; McArthur, Sally; McLean, Keith; Sutton, Chris; Griesser, Hans; CSIRO Molecular Science, Australia.
ThPB 037	Boundary-Activated Dissociation of Peptide Ions Generated by MALDI in a Quadrupole Ion Trap; *Ray, Kenneth; Glish, Gary; The University of North Carolina at Chapel Hill.	ThPC 050	Tinuvin P, a Polymer Additive, as a MALDI Matrix in Polymer Analysis; *Tong, H.; Piatek, B.; Nguyen, T.; Zhao, Q.; Shimanskas, C.; Olumee, Z.; Vertes, A.; Ciba Specialty Chemical Corporation, New York.
ThPB 038	Higher Order Resonances In A Commercial Ion Trap; *Sichilongo, Kwenga; Lynn, Jr., Bert; Mississippi State University and Mississippi State Chemical Laboratory.	ThPC 051	Identification of Methicillin Resistant <i>Staphylococcus Aureus</i> using MALDI-TOF-MS; *Edwards-Jones, Valerie; Claydon, Martin A.; Eavson, David J.; Walker, Jill; Fox, Andrew J.; Gordon, Derek B; Metropolitan University and Public Health Laboratory, Manchester, UK.
ThPB 039	A Comparison of Three Software Packages for the Simulations of Ion Trajectories in a Quadrupole Ion Trap; *Forbes, Matthew W.; Sharifi, Mehran; Lausevic, Zoran; March, Raymond E.; Trent University, Canada.	ThPC 052	Rapid Preparation of A Simple Bioaffinity MALDI Probe; *Wang, Hao; Tseng, Ken; Lebrilla, Carlito; University of California, Davis.
ThPB 040	Using Ion-Molecule Reactions with CID in an Ion Trap to Determine the Structure of Metal/Oligosaccharide Complexes; *Callahan, John H.; Vachet, Richard W.; Braier, Nancy; Naval Research Laboratory, Washington, DC.	ThPC 053	Laser Desorption Ionization of Organic Components in Nanoparticles; *Oktem, Berk; Kane, David; Johnston, Murray; University of Delaware, Newark, DE.
ThPB 041	An Infrared MALDI/Quadrupole Ion Trap Mass Spectrometer; *Lippa, Timothy; Cotter, Robert; Prasad, Coorg; Doroshenko, Vladimir; Science and Engineering Services Inc., Maryland.	ThPC 054	m-THPC Photodegradation Characterized by MALDI-FTICRMS; *Marc, Angotti; Benoît, Maunit; Jean-François, Muller; University of Metz, France.

ThPC 055	The Automated Quantitative Analysis of Small Molecules in Biological Extracts by SPE-MALDI-TOF-MS; *Jackson, Amelia; Pleasance, Steve; PE Biosystems.	ThPC 070	Incorporation and Detectability of Noncovalent Complexes in MALDI-MS; *Thierolf, Michael; Karas, Michael; Div. Instrum. Analyt. Chemistry, Univ. Frankfurt.
ThPC 056	Mass Spectrometric Investigations of Polystyrene-block-Poly(alpha-methylstyrene) Copolymers; *Murgasova, Renata; Mehl, John T.; Reddy, Srinivasa, S.; Dong, Xia; Hercules, David M.; Vanderbilt University.	ThPC 071	Study of Novel Calixarenes and Their Binding Properties by MALDI and ESI in the QIT; *Goolsby, Brian; Brodbelt, Jennifer; The University of Texas at Austin.
ThPC 057	Laser Desorption Mechanistic Studies using an Ion Mobility/Time-of-Flight Mass Spectrometer; *Gillig, Kent; Russell, David; Schultz*, Albert; Fuhrer*, Katrin; Gonin*, Marc; Texas A&M University, Ionworks.	ThPC 072	The Initial Ion Velocity as a Marker for Different Desorption Characteristics in MALDI; *Glueckmann, Matthias; Karas, Michael; Div. Instrum. Analyt. Chemistry, Univ. Frankfurt.
ThPC 058	Laser-Desorption / Laser-Post-Ionisation Mass Spectrometry for Trace Analysis of Organic Compounds; *Rink, Joerg E.; Boesl, Ulrich; Institute of Physical Chemistry / Technische Universitaet Muenchen.	ThPC 073	Measurements of the Initial Velocity Distribution of IR-MALDI Ions; *Berkenkamp, Stefan; Menzel, Christoph; Hillenkamp, Franz; Institute for Medical Physics and Biophysics, Univ. of Muenster, Germany.
ThPC 059	Matrix Assisted Laser Desorption Ionization of Calixresorcinarene Multimers; *He, Fenglan; MacGillivray, Leonard; Atwood, Jerry; Riederer, Donald; University of Missouri-Columbia.	ThPC 074	GPC Separation of Polymer Samples for MALDI; Hanton, Scott; Parees, David; *Liu, Michael; Air Products and Chemicals, Inc.
ThPC 060	Orthogonal MALDI TOFMS for the Analysis of Proteins and DNA; *Smirnov, Igor; Haff, Larry; Vestal, Marvin; Verentchikov, Anatoli; PE Biosystems.	ThPC 075	Increasing Sensitivity in MALDI: Can MALDI Compete with PDMS in Production of Multiply-charged Ions? *Talrose, Victor; Baldwin, Michael; Burlingame, Alma; Zubarev, Roman; Leipunsky, Ilya; University of California, San Francisco, CA.
ThPC 061	Collisional Cooling and Ion Formation Processes in orthogonal MALDI at Intermediate Gas Pressure; *Verentchikov, Anatoli; Smirnov, Igor; Vestal, Marvin; PE Biosystems, MA.	ThPC 076	Gender Identification by Matrix-assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry; *Taranenko, N. I.; Potter, N. T.; Allman, S. L.; Golovlev, V. V.; Chen, C. H.; Oak Ridge National Laboratory.
ThPC 062	Comparison of Polymer Molecular Weight Polydispersity Measured by MALDI-TOF/MS and Conventional GPC; *Saucy, Daniel; Zhu, Lin; Rohm and Haas Co.	ThPC 077	Evaluation of a Low Power, High Repetition-Rate Laser for MALDI; *Bromirska, Maciej; Loboda, Alexander; Ens, Werner; Standing, Kenneth; University of Manitoba, Canada.
ThPC 063	Nitrogen Laser Electron Capture Mass Spectrometry; Wang, Poguang; *Giese, Roger; Northeastern University, Boston, MA.	ThPC 078	Method to Annotate the Monoisotopic Peak of a Time-of-Flight Signal; *Koester, Claus; Holle, Armin; Bruker Daltonik GmbH, Bremen, Germany.
ThPC 064	Electron-Transfer Matrices for the MALDI-MS Analysis of Oligo(heteroarenes); *McCarley, Tracy Donovan; DuBois, C.J.; McCarley, Robin L.; Louisiana State University, LA.	ThPC 079	Probing Polyethylene Glycols (PEGs) Cationization in MALDI; Rashidzadeh, Hassan; *Guo, Baochuan; Cleveland State University.
ThPC 065	Rapid Structure Elucidation of Branched-Cyclic Cyanobacterial Peptides From Whole Cells Using PSD MALDI TOF Mass Spectrometry; *Erhard, Marcel; von Döhren, Hans; Jungblut, Peter; Institut für Biochemie; Technische Universität Berlin.	ENVIRONMENTAL	
ThPC 066	Atmospheric Pressure Matrix Assisted Laser Desorption Ionization Mass Spectrometry; *Laiko, Victor; Burlingame, Alma; University of California, San Francisco, California.	ThPD 080	Trace Analysis of Polychlorinated Aromatics (dibenzo-p-dioxins/furans (PCDD/F), biphenyls (PCB) and benzenes (PCBz)) in flue gases; Blumenstock, Martin; *Zimmermann, Ralf; Schramm, Karl-Werner; Kettrup, Antonius; GSF-National Research Center Germany.
ThPC 067	Use of MALDI In-Source Decay Fragmentation to Quickly Classify Enzymes Isolated From Commercial Detergent Products; *Lacey, Martin; Keough, Thomas; The Procter and Gamble Company.	ThPD 081	A Comparison Between GC-PFPD-MS, AMDIS and GC-MS-MS as Tools for Trace Level Detection and Confirmation; *Dagan, Shai; Israel Institute for Biological Research.
ThPC 068	Influence of the Laser Fluence and Spot Size on the Ion Intensity in IR-MALDI-MS; Feldhaus, Dirk; *Dreisewerd, Klaus; Menzel, Christoph; Berkenkamp, Stefan; Hillenkamp, Franz; Institute of Medical Physics and Biophysics, Univ. of Muenster, Germany.	ThPD 082	Investigations into the GC/MS Decomposition of Tribromonitromethane in Drinking Water Disinfection By-product Analyses; *Chen, Paul H.; Richardson, Susan D.; Thruston, Alfred D.; Krasner, Stuart W.; U.S. Environmental Protection Agency, Athens, GA.
ThPC 069	A comparison of fast fragmentation in UV- and IR-MALDI; *Menzel, Christoph; Hillenkamp, Franz; Institute of Medical Physics and Biophysics, Univ. of Muenster, Germany.	ThPD 083	Does Micro LC/MS Offer Advantages Over Conventional LC/MS in Identifying Disinfection By-Products? *Caughran, Tashia; Richardson, Susan; Crumley, Gene; Poiger, Thomas; United States Environmental Protection Agency.

ThPD 084	Formation of Organochlorines During Chlorination of Water Containing Vaniline and Methylnaphthalene; <i>Moshkarina, Natalia; Lebedev, Gueorgui; Dianova, Irina; Chaidoullina, Goulnara; *Lebedev, Albert; Organic Chemistry Department, Moscow State University, Moscow, Russia.</i>	ThPD 097	GC/MS Determination of Sulfolane in Wetland Vegetation; <i>*Headley, John; Peru, Kerry; Dickson, Les; Environment Canada.</i>
ThPD 085	Fate and Transport of Organochlorine Contaminants to Lake Winnipeg as a Result of the 1997 Red River Flood; <i>*Stern, Gary; Stewart, Robin; Lockhart, Lyle; Billeck, Brian; Danell, Robert; Grift, Norbert; Tomy, Gregg; Department of Fisheries and Oceans.</i>	ThPD 098	Optimization of the GC/MS/MS Ion Trap Detection of Pesticides; <i>*Beguin-georget, S.; Communal, P. Y.; Tabet, J. C.; Rosatti, D.; GIRPA, France</i>
ThPD 086	Characterization of Donor-Acceptor Complexes by Laser Microprobe FT-ICR-MS; <i>*Schmitt, Celine; Muller, Jean-François; Manuelli, Pascal; University of Metz.</i>	ThPD 099	Determination of Organic Sulfates and Sulfonates in Aqueous Samples by Ion Pair Liquid Chromatography/ESI/MS; <i>*Ouyang, Shi; Vairavamurthy, Murthy; Brookhaven National Laboratory.</i>
ThPD 087	Determination of PAH's In Emissions of Locomotive Diesel Engines; <i>*Merritt, Patrick; Pan, Joseph; Williamson, William; Fritz, Steven; Southwest Research Institute.</i>	ThPD 100	Volatile Species in Bayou Trepagnier Water and Sediment characterized by SPME and Purge & Trap GC/MS; <i>*Grimm, Deborah; Flowers, George; Silva, Dianna; Turetsky, Samuel; Tulane University, New Orleans, Louisiana.</i>
ThPD 088	GC-EC-MS-MS Determination of 25 Nitro-PAH in Air Particulate: Correlation with Atmospheric and Climatic Variables; <i>*Vincenti, Marco; Minero, Claudio; Maurino, Valter; Pelizzetti, Ezio; Dipartimento di Chimica Analitica, Università di Torino, Torino, Italy.</i>	ThPD 101	GC/MS and LC/MS Analysis of Endocrine Disruptors; <i>*Cody, Robert; Kusai, Akihiko; Ueda, Yoshihisu; Morita, Tetsuichiro; JEOL , Inc., Massachusetts.</i>
ThPD 089	Time-Resolved Identification of Aerosol Emission Sources Using Laser Mass Spectrometry; <i>*Renato, Zenobi; Olivier P., Haefliger; Thomas D., Bucheli; Department of Chemistry, ETH Zurich.</i>	ThPD 102	Improvement in Environmental GC/MS Analysis with MAB Ionization; <i>Vuica, Andreea; *Faubert, Denis; Bertrand, Michel J.; University of Montreal, Dep. Chemistry, Canada.</i>
ThPD 090	Differentiation of Isomeric Polycyclic Aromatic Hydrocarbons (PAHs) by Electrospray Ag(I) Cationization Mass Spectrometry; <i>Kwan Ming, Ng; *Chun Wai, Tsang; The Hong Kong Polytechnic University, Hong Kong, China.</i>	ThPD 103	Thermal Program Desorption with Direct Sampling Ion Trap Mass Spectrometry for Analysis of Soils Contaminated with Semivolatile Organic Compounds; <i>*Talley, Jeffrey; Furey, John; Tucker, Samuel; U.S. Army Engineer Waterways Experiment Station.</i>
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ThPD 093	Methanol Chemical Ionization Ion Trap Mass Spectrometry of VX Degradation Products; <i>*Rohrbaugh, Dennis; U.S. Army Edgewood RD&E Center, APG, MD.</i>	ThPD 106	Multi-Residue Determination of Steroids in Municipal Sewage Treatment Plant Effluents and Sludges by GC-HRMS; <i>*Alleyne, Carl; Verigin, Victor; Brian, Mori; Health Canada, Canada.</i>
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CORPORATE HOSPITALITY SUITES

An important part of the ASMS Conference are the hospitality suites offered by the Corporate Members. The suites are an opportunity to get acquainted with products and services that a company provides and to meet informally with your colleagues. All suites will be located on the mezzanine level of the Wyndham Anatole Hotel.

CORPORATE POSTERS

Most of the ASMS Corporate Members present corporate posters. Although ASMS does not permit the display of hardware in the posters, the presentations provide important information on products and services, as well as the opportunity to meet and talk with company representatives.

EMPLOYMENT RESOURCE CENTER

The employment resource center will be enhanced this year. The center will be open at 3 pm on Sunday for registration. Candidates will complete a computerized form. Employers will be able to search for matches in key areas: type of position, preferred industry, field of interest, and areas of expertise. Resumes will be on file for review and there will be interview booths available.

CONFERENCE WORKSHOPS

Various interest groups will sponsor workshops on Monday and Tuesday. Workshops are open to all conference registrants. The purpose of the workshops is to explore new and emerging techniques and applications. They are intended to be informal with ample opportunity for discussion.

Monday Workshops

5:30 - 7:00 pm	Career Development: Resume and Interview Skills Ion Properties: Experimental and Computational Separation Methods with Time-of-Flight MS
8:00 - 9:30 pm	Quantitative Determination of Synthetic Polymer Molecular Mass Distribution Practical Utilization of Q/TOF Technology

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