Friday, January 17

3:30 PM  CHECK-IN AND ROOM ASSIGNMENTS
5:30 – 6:30  SOCIAL HOUR
POSTER PRESENTERS:  Please put your poster up during the welcome social.
6:30 – 7:45  DINNER

SESSION I  Presider: Matt Bush

7:45 - 8:10  “Cluster Chemistry: The Energy Dependence of FeₙCO⁺ (n = 4–17) Association Complexes in the Gas Phase”, Christopher P. McNary and P. B. Armentrout*, University of Utah, Salt Lake City, UT.

8:10 – 8:35  “Effects of Cations on Protein and Peptide Charging in ESI from Aqueous Solutions”, Anna C. Susa, Daniel N. Mortensen, and Evan R. Williams*, University of California, Berkeley, CA.

8:35 – 9:00  “Base-Pairing Energies of Proton-Bound Dimers of Cytosine and Methylated Cytosines: Implications for the Effects of Methylation on the Stability of the DNA I-Motif”, Bo Yang, Aaron R. Moelig, Thomas H. Morton, and M. T. Rodgers*, Wayne State University, Detroit, MI.

9:00 – 9:25  “Identification of Peptide Isomerization and Epimerization in Crystallins using LC-MS and Radical Directed Dissociation”, Yuanqi Tao and Ryan R. Julian, University of California, Riverside.
Friday, January 17

9:30 – 12:00  POSTER SESSION, DRINKS, AND DISCUSSION

POSTER PRESENTATIONS

1. “Selected Cation to Anion Proton Transfer”, Kenneth J. Laszlo and Mathew F. Bush*, University of Washington, Seattle, WA.


6. “Bond Specific Dissociation Following Excitation Energy Transfer: A Distance-Sensitive Probe for Gas-Phase Structures”, Nathan G. Hendricks, Nichole Lareau, John A. McLean, and Ryan R. Julian*, University of California, Riverside, CA.

7. “Footprinting, CID and SID of RNaseP Protein Systems”, Akiko Tanimoto, Xin Ma, Tien-Hao Chen, Wei Zhou, Jikang Wu, Lien Dai, Stella Lai, Venkat Gopalan, and Vicki H. Wysocki*, Ohio State University, Columbus, OH.

8. “A New Interface for Both Analytical and Preparative LC/MS”, Yi Cai, Daniel Adams, and Hao Chen*, Miami University, Athens, OH.


POSTER PRESENTATIONS (continued)

13. “The Fragmentation Patterns of Singly and Doubly Protonated Peptoids”, Yuan Tian, Chang Liu, and Jianhua Ren*, University of the Pacific, Stockton, CA.

14. “Understanding the Conformational Effects on Proton Affinity of Polyalanine Peptides Containing Lysine and It’s Unnatural Homologs”, Patrick Batoon and Jianhua Ren*, University of the Pacific, Stockton, CA.


16. “Enhancing the Capabilities of the amaZon ETD Ion Trap Mass Spectrometer by Coupling to a Laser System: Enabling Activation by IRMPD”, Yanlong Zhu and M. T. Rodgers*, Wayne State University, Detroit, MI.

17. “Absolute Pressure Measurements in FTICR using the CRAFTI Technique”, Chad A. Jones and David V. Dearden*, Brigham Young University, Provo, UT.

18. “CO Bond Activation by Gas-Phase Iron Cluster Cations”, Chris McNary and P. B. Armentrout*, University of Utah, Salt Lake City, UT.

19. ‘Transition Metal Hydration Studies: Experimental and theoretical investigation of binding energies for the Cu$^{2+}$(H$_2$O)$_n$, n=7-10 complexes”, Andrew F. Sweeney, Theresa E. Cooper and P. B. Armentrout*, University of Utah, Salt Lake City, UT.

20. “A Guided Ion Beam and Theoretical Study of the Activation of CH4 by Th+”, Richard Cox and P. B. Armentrout*, University of Utah, Salt Lake City, UT.

Saturday, January 18

8:00 – 8:45 BREAKFAST

SESSION II Presider: Kevin Pagel


9:10 – 9:35 “Strepavidin: Do Surface Collisions Provide Substructure Information” Jing Yan, Royston Quintyn, Xin Ma, Mowei Zhou and Vicki Wysocki*, Ohio State University, Columbus, OH.

9:35 – 10:00 “Accurate Modeling of Kinetic Energy Release Distributions from GIBMS Measurements”, Andrew F. Sweeney and P. B. Armentrout*, University of Utah, Salt Lake City, UT.

10:00 – 10:25 “Relative Stabilities of Protonated DNA, RNA, and Modified RNA Nucleosides via Energy-Resolved Collision-Induced Dissociation in an amaZon ETD Quadrupole Ion Trap Mass Spectrometer”, Yanlong Zhu and M. T. Rodgers*, Wayne State University, Detroit, MI.

10:25 – 10:45 BREAK

10:45 – 11:00 “The Effects of Different Acids on the Conformation of Lysozyme Ions Formed with Electrospray Ionization”, Jong Wha Lee, Tae Su Choi, and Hugh I. Kim*, POSTECH, Pohang, South Korea.

11:10 – 11:35 “Using Top-Down Native ESI-MS to Elucidate Protein-Ligand Interactions Involved in Parkinson’s Diseases”, Piriya Wongkongkathep, Sheng Yin, Gal Bitan, and Joseph A. Loo*, University of California, Los Angeles, CA.

11:35 – 12:00 “Toxic Amyloid Oligomers and Pathways to Enhanced Toxicity”, Thanh D. Do, Nicholas J. Economou, Ali Chamas, Steven K. Buratto, David S. Eisenberg, and M. T. Bowers*, University of California, Santa Barbara, CA.

12:00 – 2:30 LUNCH AND FREE TIME

2:30 – 2:45 CONFERENCE PHOTO (Please meet in front of Conference center promptly at 2:30 pm so that we can start the afternoon session on time.)
Saturday, January 18

SESSION III  Presider: Christian Bleiholder


3:10 – 3:35  “Symmetric Charge and Mass Partitioning of Protein Complexes by Surface-Induced Dissociation: Toyocamycin Nitrile Hydratase, α-Lactalbumin and β-Lactoglobulin”, Yang Song, Mowie Zhou, Micah Nelp, Hahe Bandarian, and Vicki H. Wysocki*, Ohio State University, Columbus, OH.


4:00 – 4:25  “Probing Gold-Catalyzed Alkyne Hydration Reaction by Mass Spectrometry: Evidence for Dinuclear Gold Intermediates”, Mei Lu, Xiaodong Shi, and Hao Chen*, Ohio University, Athens, OH.

4:25 – 4:45  BREAK


5:35 – 6:00  “Radical Directed Dissociation of Peptides and Proteins by IRMPD and SORI with High Resolution FT-ICR MS”, Xing Zhang, Huilin Li, Benjamin Moore, Piriya Wongkongkathep, Rachel R. Loo, Joseph A. Loo, and Ryan R. Julian*, University of California, Los Angeles, CA.


6:30 – 8:00  DINNER
Saturday, January 18

8:00 – 9:30   SATURDAY EVENING LECTURE

Presiding:  Mary T. Rodgers

“Colorful Colonials: Austrailian Adventures, Eccentrics, Rogues, Showmen, and Pioneers”

Richard A. J. O’Hair
University of Melbourne

Support for the Saturday evening speaker and celebration generously provided by Bruker Daltonics and the Waters Corporation.

9:30 – 12:00   PARTY
Sunday, January 19

8:00 – 9:00  BREAKFAST

SESSION IV  Presider:  Ryan R. Julian


9:10 – 9:35  “Mass Shifting and Radical Delivery with Crown Ether Attachment for Separation and Analysis of Phosphatidylethanolamine Lipids”, Huong T. Pham and Ryan R. Julian*, University of California, Riverside, CA

9:35 – 10:00  “Cross Sections of Gas Phase Alkylammonium-Crown Ether Complexes Using the “CRAFTI” Technique?”, Anupriya and David V. Dearden,* Brigham Young University, Provo, UT.

10:00 – 10:25  “VUV Photodissociation for the Characterization of the Cis/Trans Isomerization of Proline in Proteins”, Stefan Warnke, Kevin Pagel, and Gert von Helden*, Fritz-Haber Institute, Berlin, Germany.

10:25 – 10:45  BREAK

10:45 – 11:10  “Catching the Transition from Molecular to Bulk-like Solvation of Guanidinium: Implications for Protein Denaturation”, Richard J. Cooper, Sven Heiles, Matthew J. DiTucci, and Evan R. Williams, University of California, Berkeley, CA

11:10 – 11:35  “Finding D0(Sm+−O): A Guided Ion Beam Study of Sm+ Reactivity”, Richard Cox and P. B. Armentrout, University of Utah, Salt Lake City, UT.

11:35 – 12:00  “Molecular Tweezer Targeting and Regulating Amyloid β Aggregation”, Xueyun Zheng, Deyu Liu, Gal Bitan and Michael T. Bowers*, University of California, Santa Barbara, CA.

12:00  CHECK OUT

12:00 – 1:00  LUNCH AND DEPART
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