FRIDAY, JANUARY 17

3:30 PM  CHECK-IN AND ROOM ASSIGNMENTS
5:00 – 6:30 PM  SOCIAL HOUR

POSTER PRESENTERS: Please put your poster up during the welcome social.

6:30 – 8:00 PM  DINNER

SESSION I  Presider: Thomas Wyttenbach

8:00 - 8:25  “Cerium Cation (Ce⁺) Reactions with H₂, D₂, and HD: CeH⁺ Bond Energy and Mechanistic Insights from Guided Ion Beam and Theoretical Studies”, Maryam Ghiassae and Peter B. Armentrout*, University of Utah, Salt Lake City, UT.

8:25 – 8:50  “Entropic Effects in the Collision-Induced Dissociation of Proton-Bound Cytidine Nucleoside Analogue Dimers”, Yakubu S. Seidu and Mary T. Rodgers*, Wayne State University, Detroit, MI.

8:50 – 9:15  “Amine Walk on a Model Peptoid”, Yadwinder Singh Mann, Yuntao Zhang, and Jianhua Ren*, University of the Pacific, Stockton, CA.
FRIDAY, JANUARY 17

9:15 – 12:00 PM  POSTER SESSION, DRINKS, AND DISCUSSION

POSTER PRESENTATIONS

1. “Conformations and Protonation Sites of Singly and Doubly Protonated His-His Dipeptide”, **Brandon Stevenson**, Fan Yang, Giel Berden, Jonathan Martens, Jos Oomens, and Peter B. Armentrout*, *University of Utah, Salt Lake City, UT.*

2. “Scrambling of Proline Cis/Trans Isomers During ESI”, **Jacob W. Silzel** and Ryan R Julian*, *University of California, Riverside, CA.*


4. “Effect of Metal Ions on Amino Acid Assembly”, **Priyanka Chary** and Michael T. Bowers*, *University of California, Santa Barbara, CA.*

5. CRAFTI and CID: Conformational Studies in Support of Experiment”, **Jacob M. Shaner**, Andrew J. Arslanian, and David V. Dearden*, *Brigham Young University, Provo, UT.*


7. “Characterization of Potential Thioredoxin-Mimetic Peptides”, **Michael D. Browne** and Jianhua Ren*, *University of the Pacific, Stockton, CA.*

8. “Thermodynamics and Mechanism of Deamidation of \( \text{H}^+(\text{AsnIle}) \) and \( \text{H}^+(\text{AsnIleGly}) \)”, **Samantha K. Walker**, Georgia C.Boles, Roland M. Jones III, and Peter B. Armentrout*, *University of Utah, Salt Lake City, UT.*

9. “Utilizing Mass Spectrometry to Elucidate the Structure and Mechanism of the Elusive Protein TagA”, Orlando E. Martinez, **Denise Tran**, Robert T. Clubb, and Joseph A. Loo*, *University of California, Los Angeles, CA.*

9:15 – 12:00 PM      POSTER SESSION, DRINKS, AND DISCUSSION

POSTER PRESENTATIONS (continued)

11. “IMS-MS Study on Selected α-Synuclein Peptides”, Zhiyuan Zhu, Anouk M. Rijs, and Michael T. Bowers*, University of California, Santa Barbara, CA.
SATURDAY, JANUARY 18

8:00 – 9:00 BREAKFAST

SESSION II  Presider: Abraham Badu-Tawiah

9:00 – 9:25 “Alzheimer’s Disease and the Circadian Rhythm: Probing Chemical Changes to Understand Amyloid Induced Toxicity, Amber L. H. Gray, Rebecca Prosser, and Thanh Do*, University of Tennessee, Knoxville, TN.


10:15 – 10:35 BREAK

10:35 – 11:00 “Formation of Oxazolone versus Diketopiperazine: Key Structural Differences and Peptide Sequencing Information”, Roland M. Jones III, Georgia C. Boles, and Peter B. Armentrout*, University of Utah, Salt Lake City, UT.

11:00 – 11:25 “Elucidating Pathways for the Formation of Internal Fragments Formed from Intact Peptide/Protein Ions”, Muhammad A. Zenaidee, Benqiang Wei, Carter Lantz, Taylor Perkins, Rachel R. Loo, and Joseph A. Loo*, University of California, Los Angeles, CA.

11:25 – 11:50 “Accelerated Hydrolysis of Lipids by Lipase Enzyme in Charged Droplets”, Benjamin J. Burris and Abraham K. Badu-Tawiah*, Ohio State University, Columbus, OH.

12:00 – 2:30 LUNCH AND FREE TIME
SATURDAY, JANUARY 18

2:30 – 2:50  CONFERENCE PHOTO (Please meet in front of Conference center promptly at 2:30 pm so that we can start the afternoon session on time.)

SESSION III  Presider: Thanh Do

3:00– 3:25  “Biomolecular Analysis by SORI-CRAFTI”, Andrew J. Arslanian, Caleb Tinsley, Noah Mismash, and David V. Dearden*, Brigham Young University, Provo, UT.

3:25 – 3:50  “Improved Multi-Dimensional Detection of Isomers in Crystallin Peptides by TWIM-MS”, Hoi-Ting Wu and Ryan R. Julian*, University of California, Riverside, CA.


4:15 – 4:40  “Absolute Quantitation of Oxidizable Peptides Using Coulometric Mass Spectrometry”, Pengyi Zhao, Qi Wang, Richard N. Zare, and Hao Chen*, New Jersey Institute of Technology, Newark, NJ.

4:40 – 5:00  BREAK

5:00 – 5:25  “Detergents and Chemical Additives’ Effect on Charge State Distributions During Mass Spectrometry Analysis”, Wonhyeuk Jung, Wenzhe Chen, Muhammad Zenaidee, Mark Arbing, Pascal Egea, Rachel R. Loo, and Joseph A. Loo*, University of California, Los Angeles, CA.

5:25 – 5:50  “Selective Host-Guest Chemistry, Self-Assembly, and Conformation of m-Xylene Macrocycles Probed by Ion Mobility Mass Spectrometry”, Benjamin Ayres Link and Thanh Do*, University of Tennessee, Knoxville, TN.

5:50 – 6:15  “Chirality Induced Conformational and Thermochemical Changes in Cysteine Polyalanine Peptides”, Yuntao Zhang, Joshua Ho and Jianhua Ren*, University of the Pacific, Stockton, CA.

6:30 – 8:00  DINNER
SATURDAY, JANUARY 18

8:00 – 9:30    SATURDAY EVENING LECTURE

Presiding: Mary T. Rodgers

“Atomic Ions to Intact Protein Complexes: 25 Years of IM-MS Development for Ion Structure, Dynamics and Thermodynamics”

David H. Russell
Texas A & M University

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

9:30 – 12:00    PARTY
SUNDAY, JANUARY 19

8:00 – 9:00 BREAKFAST

SESSION IV  Presider:  David V. Dearden

9:00 – 9:25 “Uncatalyzed N-Alkylation of Amines in the Gas-Phase Under Ambient Condition: Toward Online Reaction Screening and Product Collection”, Suji Lee and Abraham K. Badu-Tawiah*, Ohio State University, Columbus, OH.

9:25 – 9:50 “UV-Vis Action Spectroscopy and Energetics of Charge-Tagged Adenosine Radicals”, Yue Liu, Andy Dang, and Frantisek Tureček*, University of Washington, Seattle, WA.

9:50 – 10:15 “Mass Spectrometry Structural Analysis of Phosphoproteins”, Carter Lantz, Muhammad Zenaidee, Denise, Tran, Karl Biggs, Gal Bitan, Rachel R. Loo and Joseph A. Loo*, University of California, Los Angeles, CA.

10:15 – 10:35 BREAK

10:35 – 11:00 “Metabolomics Studies of Irinotecan-Resistant Cells under Metformin Treatment”, Xingxiu Chen and Zhibo Yang*, University of Oklahoma, Norman, OK.


12:00 CHECK OUT

12:00 – 1:00 LUNCH AND DEPART
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2020 Conference on Ion Chemistry and Mass Spectrometry
January 17–19, 2020
UCLA Conference Center, Lake Arrowhead, California

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