Schedule of Presentations
January 12–14, 2018
UCLA Conference Center, Lake Arrowhead, CA

FRIDAY, JANUARY 12

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: Zhibo Yang

8:00 - 8:25  “Structural and Functional Consequences of Age-Related Isomerization in \( \alpha \)-Crystallins”, 
Yana A. Lyon, Dylan, L. Riggs, Matteo T. Degiacomo, Miranda Collier, Justin L. P. Benesch, and Ryan R. Julian*, University of California, Riverside, CA.

Alexandre Ilitchev, Maxwell Giammona, Steven Buratto, and Michael T. Bowers*, University of California, Santa Barbara, CA.

8:50 – 9:15  “Fundamental Analyses of Small Molecule Deamidation: TCID Studies of H⁺(AsnGly), H⁺(AsnAla), H⁺(AsnVal), and H⁺(AsnThr)”, Georgia C. Boles and Peter B. Armentrout, University of Utah, Salt Lake City, UT.
FRIDAY, JANUARY 12

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

POSTER PRESENTATIONS

1. “Effect of Water on Aggregating Behavior of Small Metabolites”, Priyanka Chary and Michael T. Bowers*, University of California, Santa Barbara, CA.

2. “Study of Hydrophobic Peptides and Peptides without Basic Amino Acid Residues (BAARs) by Free Radical Approach”, Kaylee Gaspar, Kimberly Fabijanczuk, and Jinshan Gao*, Montclair State University, Montclair, NJ.


4. “IRMPD, HDX, and DFT Studies of the Structures of b_2^+ AX and b_3^+ AAX Ions Containing Lysine Homologs”, Zach Smith, Melanie Berger, Anna Do, Anwar Radwan, and John C. Poutsma*, College of William and Mary, Williamsburg, VA.


6. “Elucidation of Amino Acid Decarboxylation Mechanism Using Atmospheric Pressure Thermal Dissocation (APTD)”, Pengyi Zhao, Travis White, Qinghao Vhen, Yong Liu and Hao Chen*, Miami University, Athens, OH.

7. “D-Cysteine Induced Acidity and Conformational Change in Cysteine-Polyalanine Peptides”, Yuntao Zhang and Jianhau Ren*, University of the Pacific, Stockton, CA.

8. “Dissociative Photoionization of 1,3-Dioxolane”, Peter Weidner and Bálint Sztáray*, University of the Pacific, Stockton CA.


10. “Influence of Polyproline Backbone on the Relative Acidity of Terminal Aspartic Acid”, Yadwinder Singh Mann and Jianhua Ren*, University of the Pacific, Stockton, CA.

11. “Dissociative Photoionization of Two C_7H_8 Isomers”, Krisztián G. Torma, Krisztina Voronova, Andras Bodi, Patrick Hemberger, and Bálint Sztáray*, University of the Pacific, Stockton, CA.

12. “Post-Translational N-Terminal Modification of Amyloid β-Protein Adjusts Aggregation”, Matt Downey, Zhi-Wen Hu, Yanmei Li, and Michael T. Bowers*, University of California, Santa Barbara, CA.
SATURDAY, JANUARY 13

8:00 – 9:00 BREAKFAST

SESSION II  Presider: Abraham Badu-Tawiah

9:00 – 9:25 “Examining the Ologomertic Assembly fo the 307MGGMNFGAFSIN319 Core of the ALS Related TDP-43 Protein”, Veronica Laos, Thanh D. Do, Dezmond Bishop, Yangying Jin, Nicole Marsh, Brady Quon, Megan Korff, Kristi Lazar Cantrell, Steven K. Buratto, and Michael T. Bowers*, University of California, Santa Barbara, CA.

9:25 – 9:50 Using Native, Top-Down nano-ESI Mass Spectrometry and Ion Mobility Spectrometry to Characterize the Interaction of Tau Protein with Assembly Modulator CLR01”, Michael Nshanian, Piriya Wongkongkathep, Carter, Lantz, Gal Bitan, and Joseph A. Loo*, University of California, Los Angeles, CA.


10:15 – 10:35 BREAK

10:35 – 11:00 “Structural and Glycosidic Bond Stability Trends in Protonated 2’-Mono and Difluorinated Cytidine Derivatives”, Zachary J. Devereaux, Chenchen He, Lucas A. Hamlow, Harrison A. Roy, Nathan A. Cunningham, Giel, Berden, Jos Oomens, and Mary T. Rodgers*, Wayne State University, Detroit, MI.

11:00 – 11:25 “Study of Nd⁺ Reactions with Small Molecules in the Gas Phase”, Maryam Ghassee and Peter B. Armentrout*, University of Utah, Salt Lake City, UT.


12:00 – 3:00 LUNCH AND FREE TIME
SATURDAY, JANUARY 13

3:00 – 3:20  CONFERENCE PHOTO (Please meet in front of Conference center promptly at 3:00 pm so that we can start the afternoon session on time.)

SESSION III  Presider: Jinshan Gao


3:50 – 4:15  “Dissociation Dynamics of Methyl Hydroperoxide”, Kyle Covert, Judit Zador, Andras Bodi, and Bálint Sztáray*, University of the Pacific, Stockton, CA.

4:15 – 4:40  “Reactivity and Kinetics of ortho-Quinonimides and Quinomethanimides”, Chris Haskins and Paul Wenthold*, Purdue University, West Lafayette, IN.

4:40 – 5:00  BREAK

5:00 – 5:25  “Effects of Protonation and Sodium Cationization on the Gas-Phase Conformations and N-Glycosidic Bond Stabilities of L-Thymidine Investigated using IRMPD Action Spectroscopy and ER-CID Studies: Evaluating Robustness of These Experimental Approaches via Comparisons to D-Thymidine”, Erik O. Soley, Zachary J. Devereaux, Lucas A. Hamlow, G. Berden, J. Oomens, and M.T. Rodgers*, Wayne State University, Detroit, MI.


6:30 – 8:00  DINNER
SATURDAY, JANUARY 13

8:00 – 9:30  SATURDAY EVENING LECTURE

Presiding: Mary T. Rodgers

“IT'S A TRAP! Three Decades of Interrogating Multiply-Charged Molecular Detainees”

Scott A. McLuckey
Purdue 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 14

8:00 – 9:00  BREAKFAST

SESSION IV  Presider:  Jianhua Ren

9:00 – 9:25  “Detection and Quantification of Phenolic Compounds by Using Gibbs Reaction”, Sabyasachy Mistry and Paul G. Wenthold*, Purdue University, West Lafayette, IN.


9:50 – 10:15  “Real-Time Photoreaction Screening Allows the Discovery of N-Substituted Auxiliaries as Mediators for Aerobic Dehydrogenation of Tetrahydroisoquinolines: A Theory-Guided Catalytic Design”, Savithra Jayaraj and Abraham K. Badu-Tawiah*, Ohio State University, Columbus, OH.

10:15 – 10:35  BREAK

10:35 – 11:00  “A Neural Network Approach for Amyloid Recognition”, Michael Tro, Nate Charest, Thanh Do, Joan Shea, and Michael T. Bowers*, University of California, Santa Barbara, CA.

11:00 – 11:25  “Mass Spectrometry Analysis of Living Single Cancer Stem Cells”, Sun Mei, Renmeng Liu, and Zhibo Yang*, Oklahoma University, Norman, OK.

11:25 – 11:50  “Mechanistic Study of Free Radical Activated Glycan Dissociation by $^{13}$C Labeled Cellobiose”, Kimberly Fabijanczuk, Kaylee Gaspar, Nathaniel Adomako, Jose Acosta, and Jinshan Gao*, Montclair State University, Montclair, NJ.

12:00  CHECK OUT

12:00 – 1:00  LUNCH AND DEPART
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