SCHEDULE OF PRESENTATIONS

Friday, January 16

3:30 PM    CHECK-IN AND ROOM ASSIGNMENTS

5:30 – 6:30 SOCIAL HOUR

6:30 - 7:30 DINNER

SESSION I Presider: Jennifer Gidden

7:45 - 8:05  “Determination of N-Glycosylation Sites and Site Heterogeneity in Glycoproteins”, Hyun-Joo An, Andreas H. Franz, Jerry L. Hedrick, and Carlito B. Lebrilla, University of California, Davis, CA.

8:05 - 8:25  “Chiral Selectivity in Noncovalent Cluster Formation”, Ryan R. Julian, Sunnie Myung, and David E. Clemmer, Indiana University, Bloomington, IN.

8:25 – 8:45  “Divalent Metal-Oxytocin Complexes”, Dengfeng Liu, Oli T. Ehrler, Ziahau Zhang, Thomas Wyttenbach, Alexandra B. Seuthe, Jeffrey F. Hsu, and Michael T. Bowers, University of California, Santa Barbara, CA.

8:45 – 9:05  “The Influence of Halogenation on the Alkali Metal Ion Affinities of Uracil: Results from Threshold CID versus Ab Initio Theory”, Zhibo Yang and M. T. Rodgers, Wayne State University, Detroit, MI.

9:15 – 11:00 POSTER SESSION, DRINKS AND DISCUSSION
POSTER PRESENTATIONS

1. “A Cornucopia of CID: Nb+(NCCH3)x and Co+(PMe3)x Studies”, Christopher R. Iceman, Yvonne Lunk, P. B. Armentrout, Balint Sztaray, and T. Baer, University of Utah, Salt Lake City, UT and University of North Carolina, Chapel Hill, NC.

2. “Reactions of Rhenium with Hydrogen”, Fengzia Li, Matthew Armentrout, and P. B. Armentrout, University of Utah, Salt Lake City, UT.

3. “Activation of Methane by Nickel Cluster Cations: Ni_n^+ (n = 2 – 16)”, Fuyi Liu, Xiaoguang Zhang, R. Liyanage, and P. B. Armentrout, University of Utah, Salt Lake City, UT.


5. “Binding Energies of Carbonyls and Oxygen to Gold Cluster Anions”, Moses Dogbevia and Kent M. Ervin, University of Nevada, Reno, NV.


8. “Solvation of Copper Ions by Imidazole and Pyridine: Structures and Sequential Binding Energies of Cu^+L_x, x = 1-4, from Collision-Induced Dissociation and Theoretical Studies”, N. S. Rannulu and M. T. Rodgers, Wayne State University, Detroit, MI.

9. “Experimental and Theoretical Studies of Solvation of Li^+ by Cyclic Ethers and Ketones in the Gas Phase”, Eun Sun Hong and Seung Koo Shin, Pohang Univeristy of Science and Technology, Pohang, Kuyungbuk, South Korea.


12. “Studies of sHsp/Substrate Binding by a Combination of H/D Exchange, Limited Proteolysis and Mass Spectrometry”, Guilong (Charles) Cheng, Kristine Herrmann, Yingying Huang, Vicki H. Wysocki, and Elizabeth Vierling, University of Arizona, Tucson, AZ.


15. “Cation π Interactions: Structures and Energetics of Complexation of Na⁺ and K⁺ with the Aromatic Amino Acids: Phenylalanine, Tyrosine, and Tryptophan”, C. Ruan and M. T. Rodgers, Wayne State University, Detroit, MI.

Saturday, January 17

8:00–8:45  BREAKFAST

SESSION II  Presider: John C. Poutsma

8:50–9:10  “In Search of the Petazolide Ion (N₅⁻)”, Rebecca L. Hoenigman, Shuji Kato, Adam J. Gianola, Takatoshi Ichino, W. Carl Lineberger, and Veronica M. Bierbaum, University of Colorado, Boulder, CO.


9:30–9:50  “Charge Effects in ECD”, Erik A. Syrstad and Frantisek Turecek, University of Washington, Seattle, WA.

9:50–10:10 “Effects of Solvent and Buffer on Charge and Sensitivity in Electrospray Ionization”, Anthony T. Iavarone, Osite K. Udekwu, and Evan R. Williams, University of California, Berkeley, CA.

10:10–10:30  BREAK


10:50–11:10  “Competitive Threshold Collision-Induced Dissociation: Gas-Phase Acidity and O-H Bond Dissociation Energy”, Laurence A. Angel and Kent M. Ervin, University of Nevada, Reno, NV.

11:10–11:30  “Infrared Multiphoton Dissociation of O-Linked Mucin-Type Oligosaccharides”, Jinhua Zhang, Katherine Schobothe, and Carlito B. Lebrilla, University of California, Davis, CA.

11:30–11:50  “Determination of Na⁺ Binding Affinities of Hydroxy Substituted Benzoic Acids”, M. Chinthaka Sinhapura-Dewage, Y. Chu, and M. T. Rodgers, Wayne State University, Detroit, MI.

12:00–3:00  LUNCH AND FREE TIME
SESSION III  Presider: Gary H. Kruppa

3:00 – 3:20  “Sequential Bond Energies of Water to Sodium Proline”, Sha Joshua Ye, Bob Moision, and P. B. Armentrout, University of Utah, Salt Lake City, UT.

3:20 - 3:40  “Field Induced Droplet Ionization”, Ronald L. Grimm, and J. L. Beauchamp, California Institute of Technology, Pasadena, CA.

4:00 - 4:20  “Enantioselectivity During Gas-Phase Zwitterion Formation”, Xin Cong, Seonghee Ahn, Michele Stone, Erica McJimpsey, and Carlito B. Lebrilla, University of California, Davis, CA.


4:40 – 5:00  BREAK

5:00 – 5:20  “Aluminum Hydride in the Gas-Phase”, Daniel J. Goebbert and Paul G. Wenthold, Purdue University, West Lafayette, IN.

5:20 – 5:40  “Binding Interactions and Dissociation Reactions of Mono and Diatomic Silver Cations with Small Alkenes”, Manuel Manard, Paul Kemper, Catherine Carpenter, and Michael T. Bowers, University of California, Santa Barbara, CA.

5:40 –6:00  “Reactivity of Aluminum Oxide Cluster Anions with Water Studied by Photoelectron Spectroscopy and Density Functional Theory”, F. Ahu Akin, University of Nevada, Reno, NV.

6:00 – 6:20  “A Massively Parallel Array of Micron Sized Cylindrical Ion Traps for Analysis on a Chip: Simulation and Microfabrication Results”, Daniel Austin, Dolores Cruz, and Matthew Blain, Sandia National Labs, Albuquerque, NM.

6:30 - 8:00  DINNER
8:00 - 9:00 SATURDAY EVENING

Presider: Mary T. Rodgers

“Mass Spectrometers: Economics, Sociology & Science of the Machine”

R. Graham Cooks
Purdue University, West Lafayette, IN

9:00 - 12:00 PARTY
Sunday, January 18

8:00 – 8:50 BREAKFAST

SESSION IV  Presider: Thomas Wyttenbach

9:00 – 9:20  “Conformation and Aggregation of Ab (Beta) Peptides Using Ion Mobility Mass Spectrometry”, Summer L. Bernstein, Thomas Wyttenbach, Andriy Baumketner, Joan Shea, and Michael T. Bowers, University of California, Santa Barbara, CA.


9:40 – 10:00  “The Elusive H-Atom Adduct to Acetonitrile, Experiment and Theory”, Xiaochong Chen, Erik A. Syrstad, and Frantisek Turecek, University of Washington, Seattle, WA.

10:00 – 10:20 BREAK


10:40 - 11:00  “Mass Spectrometry as a Major Technique for the Discovery of Novel Oxidative Crosslink Lesions of DNA”, Yinsheng Wang, Qibin Zhang, Zhenjiu Liu, and Yu Zeng, University of California, Riverside, CA.


11:30 - 12:00  CHECK OUT

12:00 - 1:00  LUNCH AND DEPART
List of Participants at the
2004 Conference on Ion Chemistry and Mass Spectrometry
January 16–18, 2004
UCLA, Conference Center Lake Arrowhead, California

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