Friday, January 18

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 – 8:00 DINNER

SESSION I    Presider: Mary T. Rodgers

8:00 - 8:25 “The Drag of Drifting Ions”, Thomas Wyttenbach, Christian Bleiholder, and Michael T. Bowers*, University of California, Santa Barbara, CA.

8:25 – 8:50 “Mechanisms and Energetics of N-Glycosidic Bond Cleavage of Protonated Nucleosides in the Gas Phase”, Ranran Wu and M. T. Rodgers*, Wayne State University, Detroit, MI.

Friday, January 18

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

POSTER PRESENTATIONS

1. “Gas Phase C-H Bond Activation of Ethane and Ethene by Ta⁺”, Oscar W. Wheeler, Rebecca Thomas, Joost Bakker, Vivike Lapoutre, and P. B. Armentrout*, University of Utah, Salt Lake City, UT.

2. “CO Bond Activation by Gas-Phase Iron Cluster Cations”, Christopher McNary, Murat Citir, Oscar Wheeler, and Peter B. Armentrout*, University of Utah, Salt Lake City, UT.

3. “Hydration Energies of Ni²⁺(H₂O)ₙ, n = 3–11: A Threshold Collision-Induced Dissociation and Theoretical Investigation”, Rebecca C. Thomas and Peter B. Armentrout*, University of Utah, Salt Lake City, UT.


5. “Characterizing a Collision Cell: Improving MS/MS Efficiency”, Jessica C. Johnston, Felician Muntean, and Peter B. Armentrout*, University of Utah, Salt Lake City, UT.

6. “Kinetic Energy Release Distributions Using a GIBMS”, Andrew F. Sweeney and P. B. Armentrout*, University of Utah, Salt Lake City, UT.

7. “Detecting D-Amino Acid Containing Peptides in Mixtures by LC-MS”, Yuanqi Tao and Ryan R. Julian*, University of California, Riverside, CA.

8. “The Early Life of a Peptide Cation-Radical. Ground and Excited State Trajectories of Electron-Based Peptide Dissociations During the First 30 Femtoseconds”, Frantisek Turecek*, Christopher L. Moss, Wenkel Liang, Xiaosong Li*, University of Washington, Seattle, WA.


11. “Highly Efficient Ionization of Phosphopeptides in Mixtures by DESI-MS”, Ning Pan, Pengyuan Liu, Weidong Cui, Bo Tang, Jingming Shi and Hao Chen*, Ohio University, Athens, OH.

Friday, January 18

POSTER PRESENTATIONS (continued)


15. “Multiplexed Photoionization Mass Spectrometry Investigation of the O(3P) + Propyne Reaction”, Sampada Borkar, John Savee, Oliver Welz, Craig Taatjes, and David Osborn*, University of the Pacific, Stockton, CA.


17. “Binding Metal Ions to Peptides”, Robert C. Dunbar*, N. Polfer, G. Berden, and J. Oomens, Case Western Reserve University, Cleveland, OH.

18. “Novel Side Chain Fragmentations in Peptides Initiated by Radical Insertion Reactions”, Xing Zhang and Ryan R. Julian*, University of California, Riverside, CA.

19. “Proton Affinity of Oligopeptides Containing Natural and Unnatural Amino Acids”, Patrick Batoon and Jianhua Ren*, University of the Pacific, Stockton, CA.

Saturday, January 19

8:00 – 8:45 BREAKFAST

SESSION II  Presider:  J. C. Poutsma


9:10 – 9:35  “A Guided Ion Beam and Theoretical Study of the Activation of CH₄ by Th⁺”, Richard Cox and Peter. B. Armentrout*, University of Utah, Salt Lake City, UT.

9:35 – 10:00 “Proteins from ESI: Towards Understanding Charge States”, Anna Susa, Daniel Mortensen, and Evan R. Williams*, University of California, Berkeley, CA.


10:25 – 10:45 BREAK

10:45 – 11:10  “Guided Ion Beam Studies of Proton-Bound Dimers of Cytosine and Modified Cytosines: Determination of Hydrogen Bond Stabilization Energies and Relative Proton Affinities”, Bo Yang and M. T. Rodgers*, Wayne State University, Detroit, MI.

11:10 – 11:35 “Identifying Antioxidant Peptides via Radical Sequestration in the Gas Phase”, Omar Hamdy and Ryan R. Julian*, University of California, Riverside, CA.

11:35 – 12:00 “Measuring Relative and Absolute One Electron Reduction Potentials of Divalent Transition Metal Ions”, Maria Demireva and Evan R. Williams*, University of California, Berkeley, 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 19

SESSION III  Presider: Nathan Dalleska


3:10 – 3:35  “Size and Donor Atom Effects on the Structures and Binding Energies of Alkali Metal Cation-Crown Macrocyle Complexes”, Calvin Austin and M. T. Rodgers, Wayne State University, Detroit, MI.

3:35 – 4:00  “FRET-Induced Dissociation of Disulfide Bonds with Tryptophan as a Donor in the Gas Phase”, Nathan Hendricks and Ryan R. Julian*, University of California, Riverside, CA.

4:00 – 4:25  “Probing the Reactivity and Radical Nature of Oxidized Transition Metal-Thiolate Complexes by Mass Spectrometry”, Mei Lu, J. Larry Campbell, Rajat Chauhan, Craig A. Grapperhaus, Hao Chen*, Ohio University, Athens, OH.

4:25 – 4:45  BREAK

4:45 – 5:10  “Pyrolysis and Photolysis of Photocleavable Peptides”, Ales Marek and Frantisek Turecek*, University of Washington, Seattle, WA.


5:35 – 6:00  “Role of Methylation on the Thermochemistry of Alkali Metal Cation Complexes of Amino Acids: N-Methyl Proline”, Abhigya Mookherjee and Peter B. Armentrout, University of Utah, Salt Lake City, UT.

6:00 – 6:25  “A Novel Molecule Capable of Targeting and Regulating Amyloid β and Metal-Associated Amyloid β Species”, Xueyun Zheng, Sanghyun Lee, Hyun Min Park, Jin Hoon Kim, Cheal Kim, Mi Hee Lim, and Michael T. Bowers*, University of California, Santa Barbara, CA.

6:30 – 8:00  DINNER
Saturday, January 19

8:00 – 9:30   SATURDAY EVENING LECTURE

Presiding: Mary T. Rodgers and David E. Clemmer

“2130 Bond Energies and Counting”

Peter B. Armentrout
University of Utah

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

9:30 – 12:00   PARTY
Sunday, January 20

8:00 – 8:45  BREAKFAST

SESSION IV  Presider: David Hales

8:45 – 9:10  “Aggregation of Tau Peptide Fragments: From Angstrom to Nanometer Scales”, Thanh D. Do, Nichole E. LaPointe, Niel Eschmann, Luca Larini, Stuart C. Feinstein, Joan-Emma Shea, Song-I Han and Michael T. Bowers*, University of California, Santa Barbara, CA.

9:10 – 9:35  “Increasing MS/MS Fragmentation of Disulfide Bonded Proteins by Supercharging High Resolution ESI FT-ICR MS”, Jiang Zhang and J. A. Loo*, University of California, Los Angeles, CA.

9:35 – 10:00  “Infrared Multiphoton Dissociation Spectroscopy of Protonated Diamines in the Gas Phase”, Chad A. Jones, Jordan Cardinal, and David V. Dearden*, Brigham Young University, Provo, UT.

10:00 – 10:25  “Diammoniate Diborane Ring Compounds as Possible Hydrogen Storage Molecules”, Jay-Ar Bendo, Thomas Morton*, and J. Oomens, University of California, Riverside.

10:25 – 10:45  BREAK


11:35 – 12:00  “Electrothermal Supercharging and the Effect of Droplet Lifetime on Protein Charging in Electrospray Ionization”, Catherine Cassou, Harry Sterling, Anna Susa, and Evan R. Williams*, University of California, Berkeley, CA.

12:00  CHECK OUT

12:00 – 1:00  LUNCH AND DEPART
Participants of the
2013 Conference on Ion Chemistry and Mass Spectrometry
January 18–20, 2013
UCLA Conference Center, Lake Arrowhead, California

Erin Armentrout  Matthew Armentrout  Patricia Armentrout

Peter B. Armentrout
315 S. 1400 E. RM Dock
Department of Chemistry
University of Utah
Salt Lake City, UT 84112-0850
☎ (801) 581-7885
FAX (801) 581-8433
armentrout@chem.utah.edu

Calvin A. Austin
5101 Cass Avenue, 10 Chemistry
Department of Chemistry
Wayne State University
Detroit, MI 48202
☎ (313) 577-0780
FAX (313) 577-8822
caaustin@chem.wayne.edu

Kevin Barraza
Department of Chemistry 127-72
California Institute of Technology
Pasadena, CA 91125
☎ (626) 395-2779
kbarraza@caltech.edu

Patrick Batoon
Department of Chemistry
University of the Pacific
3601 Pacific Avenue
Stockton, CA 95207
☎ (209) 349-2594
p_batoom@u.pacific.edu

Jesse L. Beauchamp
Department of Chemistry 127-72
California Institute of Technology
Pasadena, CA 91125
☎ (626) 395-6525
FAX (626) 568-8641
jlbchamp@caltech.edu

Patricia Beauchamp

Jay-Ar Bendo
501 Big Springs Rd
Department of Chemistry
University of California
Riverside, CA 92507
☎ (951) 727-3657
FAX (951) 827-4713
jbend001@ucr.edu

Christian Bleiholder
Department of Chemistry
University of California
Santa Barbara, CA 93106-9510
☎ (805) 893-2673
FAX (805) 893-8703
cbleiholder@chem.ucsb.edu

Sampada N. Borkar
Department of Chemistry
3601 Pacific Avenue
University of the Pacific
Stockton, CA 95211-0110
☎ (209) 817-6421
s_borkar@pacific.edu

Marilyn Bowers

Michael T. Bowers
Department of Chemistry and Biochemistry
University of California
Santa Barbara, CA 93106
☎ (805) 893-2893
FAX (805) 893-7955
bowers@chem.ucsb.edu

Catherine Cassou
Department of Chemistry
University of California, Berkeley
Latimer Hall, #1460
Berkeley, CA 94720
☎ (510) 642-6240
catherinecassou@berkeley.edu
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Address</th>
<th>Phone</th>
<th>Fax</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hao Chen</td>
<td>Department of Chemistry</td>
<td>Ohio University</td>
<td>(740) 593-0719</td>
<td>(740) 597-3157</td>
<td><a href="mailto:chenh2@ohio.edu">chenh2@ohio.edu</a></td>
</tr>
<tr>
<td>David E. Clemmer</td>
<td>Indiana University</td>
<td>Bloomington, IN 47405</td>
<td>(812) 855-8259</td>
<td>(812) 855-8300</td>
<td><a href="mailto:clemmer@indiana.edu">clemmer@indiana.edu</a></td>
</tr>
<tr>
<td>Richard Cox</td>
<td>University of Utah</td>
<td>Salt Lake City, UT 84112-0850</td>
<td>(801) 581-7901</td>
<td>(801) 581-8433</td>
<td><a href="mailto:r.m.cox@chem.utah.edu">r.m.cox@chem.utah.edu</a></td>
</tr>
<tr>
<td>Nathan Dalleska</td>
<td>California Institute of Technology</td>
<td>Pasadena, CA 91125</td>
<td>(626) 395-6299</td>
<td><a href="mailto:nathan.dalleska@gmail.com">nathan.dalleska@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>David V. Dearden</td>
<td>Brigham Young University</td>
<td>Provo, UT 84602-5700</td>
<td>(801) 422-2355</td>
<td>(801) 422-0153</td>
<td><a href="mailto:david.dearden@byu.edu">david.dearden@byu.edu</a></td>
</tr>
<tr>
<td>Maria Demireva</td>
<td>University of California, Berkeley</td>
<td>Berkeley, CA 94720</td>
<td>(510) 642-6240</td>
<td><a href="mailto:mdemireva@berkeley.edu">mdemireva@berkeley.edu</a></td>
<td></td>
</tr>
<tr>
<td>Thanh Do</td>
<td>Department of Chemistry</td>
<td>Santa Barbara, CA 93106</td>
<td>(805) 893-2673</td>
<td>(805) 893-8703</td>
<td><a href="mailto:tdo@chem.ucsb.edu">tdo@chem.ucsb.edu</a></td>
</tr>
<tr>
<td>Robert C. Dunbar</td>
<td>Case Western Reserve University</td>
<td>Cleveland, OH 44106</td>
<td>(216) 321-1335</td>
<td><a href="mailto:rcd@po.cwru.edu">rcd@po.cwru.edu</a></td>
<td></td>
</tr>
<tr>
<td>Kent M. Ervin</td>
<td>Department of Chemistry</td>
<td>Reno, NV</td>
<td>(775) 784-6676</td>
<td>(775) 784-6804</td>
<td><a href="mailto:ervin@unr.edu">ervin@unr.edu</a></td>
</tr>
<tr>
<td>Cliff Frieler</td>
<td>Department of Chemistry</td>
<td>Wayne State University</td>
<td>(313) 577-2431</td>
<td>(313) 577-8822</td>
<td><a href="mailto:cfrieler@chem.wayne.edu">cfrieler@chem.wayne.edu</a></td>
</tr>
<tr>
<td>Nicholas Frieler</td>
<td></td>
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<tr>
<td>Jinshan Gao</td>
<td>California Institute of Technology</td>
<td>Pasadena, CA 91125</td>
<td>(626) 395-2779</td>
<td>(626) 568-8641</td>
<td><a href="mailto:jsgao@caltech.edu">jsgao@caltech.edu</a></td>
</tr>
<tr>
<td>David Hales</td>
<td>Hendrix College</td>
<td>Conway, AK 73032</td>
<td>(501) 450-1203</td>
<td>(501) 450-3829</td>
<td><a href="mailto:hales@hendrix.edu">hales@hendrix.edu</a></td>
</tr>
<tr>
<td>Omar Hamdy</td>
<td>Department of Chemistry</td>
<td>University of California</td>
<td>(851) 827-3959</td>
<td>(510) 827-4713</td>
<td><a href="mailto:omhamd88@gmail.com">omhamd88@gmail.com</a></td>
</tr>
</tbody>
</table>
Participants of the
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Nathan Hendricks
501 Big Springs Road
Department of Chemistry
University of California
Riverside, CA 92507
☎ (951) 827-3959
FAX (951) 827-4713
nhend002@ucr.edu

Jessica C. Johnston
315 S. 1400 E. RM Dock
Department of Chemistry
University of Utah
Salt Lake City, UT 84112-0850
☎ (801) 581-7901
FAX (801) 581-8433
jessica.johnston@utah.edu

Chad A. Jones
Brigham Young University
Department of Chemistry and Biochemistry
c100 Benson Science Building
Provo, UT 84602-5700
☎ (801) 422-5383
FAX (801) 422-0153
chemist.jones@gmail.com

Ryan Julian
501 Big Springs Road
Department of Chemistry
University of California
Riverside, CA 92521-0403
☎ (951) 827-3958
FAX (951) 827-4713
ryan.julian@ucr.edu

Felicia Katz

Chad A. Jones
Brigham Young University
Department of Chemistry and Biochemistry
c100 Benson Science Building
Provo, UT 84602-5700
☎ (801) 422-5383
FAX (801) 422-0153
chemist.jones@gmail.com

Hugh I. Kim
San-31, HyojaDong NamGu
Chemistry Building 226
Postech
Pohang, South Korea 790-784
☎ +82-54-279-2341
hughkim@postech.edu

Jong Wha Lee
San-31, HyojaDong
Chemistry Building 224
Postech
Pohang, South Korea 790-784
☎ +82-54-279-5235
FAX +82-54-279-3399
jongwha12@postech.ac.kr

Shin Jung C. Lee
San-31, HyojaDong
Chemistry Building 224
Postech
Pohang, South Korea 790-784
☎ +82-54-279-5235
FAX +82-54-279-3399
shinjung@postech.edu

Yuhong Liu
Department of Chemistry
3601 Pacific Avenue
University of the Pacific
Stockton, CA 95211-0110
☎ (209) 471-9016
y_liu16@u.pacific.edu

Joseph Loo
Department of Chemistry
University of California
405 Hilgard Avenue, 402 MBI
Los Angeles, CA 90095
☎ (310) 794-7023
FAX (310) 206-7286
jloo@chem.ucla.edu

Rachel R. Loo
Department of Chemistry
University of California
405 Hilgard Avenue, 406 MBI
Los Angeles, CA 90095
☎ (310) 206-1484
FAX (310) 206-4038
rloo@mednet.ucla.edu

Mei Lu
378 Clippinger Laboratory
Department of Chemistry and Biochemistry
Ohio University
Athens, OH 45701
☎ (614) 296-3891
FAX (740) 597-3157
ml161409@ohio.edu

Manuel Manard
Special Technology Laboratories
5520 Ekwill St.
Santa Barbara, CA 93111
☎ (805) 681-2121
manardmj@nv.doe.gov

Ales Marek
Department of Chemistry
Bagley Hall, Box 351700
University of Washington
Seattle, WA 98195-1700
☎ (206) 543-7656
FAX alesm@u.washington.edu
Christopher McNary  
315 S. 1400 E. RM Dock  
Department of Chemistry  
University of Utah  
Salt Lake City, UT 84112-0850  
☎ (801) 581-7901  
FAX (801) 581-8433  
mcnary@chem.utah.edu

Abhigya Mookherjee  
315 S. 1400 E. RM Dock  
Department of Chemistry  
University of Utah  
Salt Lake City, UT 84112-0850  
☎ (801) 581-7901  
FAX (801) 581-8433  
abhigya.mookherjee@utah.edu

Benjamin Moore  
501 Big Springs Rd  
Department of Chemistry  
University of California  
Riverside, CA 92507  
☎ (949) 981-2661  
FAX (951) 827-4713  
bmoor003@ucr.edu

Thomas H. Morton  
501 Big Springs Rd  
Department of Chemistry  
University of California  
Riverside, CA 92507  
☎ (951) 727-4735  
FAX (951) 827-4713  
morton@ucr.edu

Daniel Mortensen  
Department of Chemistry  
Latimer Hall, #1460  
University of California  
Berkeley, CA 94720  
☎ (510) 642-6240  
FAX (510) 642-7714  
dmort@berkeley.edu

Felician Muntean  
Bruker Daltonics - CAM Division  
3500 W Warren Ave.  
Fremont, CA 94538  
☎ (510) 683-4366  
felician.muntean@bruker.com

Bhupinder Padda  
Department of Chemistry  
University of the Pacific  
3601 Pacific Ave.  
Stockton, CA 95211  
☎ (209) 946-2393  
b_padda@u.pacific.edu

Huong Thu Pham  
501 Big Springs Rd  
Department of Chemistry  
University of California  
Riverside, CA 92507  
☎ (951) 742-9713  
FAX (951) 827-4713  
thhuuong@ucr.edu

J. C. Poutsma  
Department of Chemistry  
College of William and Mary  
P.O. Box 8795  
Williamsburg, VA 23187  
☎ (757) 221-2548  
jcput@wm.edu

Mary T. Rodgers  
5101 Cass Avenue, 33 Chemistry  
Department of Chemistry  
Wayne State University  
Detroit, MI 48202  
☎ (313) 577-2431  
FAX (313) 577-8822  
mrodgers@chem.wayne.edu

Jack Simons  
315 S. 1400 E. RM Dock  
Department of Chemistry  
University of Utah  
Salt Lake City, UT 84112-0850  
☎ (801) 581-8023  
FAX (801) 581-8433  
simons@chem.utah.edu

Chang Ho Sohn  
Department of Chemistry  
California Institute of Technology  
Pasadena, CA 91125  
☎ (626) 395-6543  
FAX (626) 568-6948  
sohn@caltech.edu

Andrew F. Sweeney  
315 S. 1400 E. RM Dock  
Department of Chemistry  
University of Utah  
Salt Lake City, UT 84112-0850  
☎ (801) 581-7901  
FAX (801) 581-8433  
afsweeney@chem.utah.edu

Balint Sztaray  
Department of Chemistry  
3601 Pacific Avenue  
University of the Pacific  
Stockton, CA 95211-0110  
☎ (209) 962-2654  
bsztaray@pacific.edu

Yuanqi Tao  
501 Big Springs Rd  
Department of Chemistry  
University of California  
Riverside, CA 92507  
☎ (951) 827-3959  
FAX (951) 827-4713  
ytao002@student.ucr.edu
participants of the
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<table>
<thead>
<tr>
<th>Name</th>
<th>Address/University</th>
<th>Phone</th>
<th>Fax</th>
<th>Email</th>
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</thead>
<tbody>
<tr>
<td>Daniel Thomas</td>
<td>Department of Chemistry 127-72</td>
<td>(626)</td>
<td></td>
<td><a href="mailto:dathomas@caltech.edu">dathomas@caltech.edu</a></td>
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<td>California Institute of Technology</td>
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<td>Pasadena, CA 91125</td>
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<td>FAX (626) 568-8641</td>
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<tr>
<td>Rebecca Thomas</td>
<td>315 S. 1400 E. RM Dock</td>
<td>(801)</td>
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<td><a href="mailto:rthomas@chem.utah.edu">rthomas@chem.utah.edu</a></td>
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<td></td>
<td>Department of Chemistry</td>
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<td></td>
<td>University of Utah</td>
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<td>Salt Lake City, UT 84112-0850</td>
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<td>(626) 396-2778</td>
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<td>FAX (626) 568-8641</td>
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<tr>
<td>Frantisek Turecek</td>
<td>Department of Chemistry</td>
<td>(206)</td>
<td></td>
<td><a href="mailto:turecek@washington.edu">turecek@washington.edu</a></td>
</tr>
<tr>
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<td>Bagley Hall, Box 351700</td>
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<td>University of Washington</td>
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<td>Seattle, WA 98195-1700</td>
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<tr>
<td>Hou Ung</td>
<td>501 Big Springs Rd</td>
<td>(801)</td>
<td></td>
<td><a href="mailto:wheosca@chem.utah.edu">wheosca@chem.utah.edu</a></td>
</tr>
<tr>
<td></td>
<td>Department of Chemistry</td>
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<td></td>
<td>University of California</td>
<td>8433</td>
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<td>Riverside, CA 92507</td>
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<td>(951) 727-3657</td>
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<td>FAX (951) 827-4713</td>
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<tr>
<td>Kathleen Upton</td>
<td>Department of Chemistry 127-72</td>
<td>(626)</td>
<td></td>
<td><a href="mailto:ktupton@caltech.edu">ktupton@caltech.edu</a></td>
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<td>California Institute of Technology</td>
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<td>Pasadena, CA 91125</td>
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<td>(626) 396-2778</td>
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<td>FAX (626) 568-8641</td>
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<td>Ranran Wu</td>
<td>5101 Cass Avenue, 10 Chemistry</td>
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<td><a href="mailto:ranran@chem.wayne.edu">ranran@chem.wayne.edu</a></td>
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<td>Thomas Wyttenbach</td>
<td>Department of Chemistry</td>
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<td><a href="mailto:wyttenbach@chem.ucsb.edu">wyttenbach@chem.ucsb.edu</a></td>
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<td>Bo Yang</td>
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<td>Hyojik Yang</td>
<td>501 Big Springs Road</td>
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<td><a href="mailto:wonsi25@gmail.com">wonsi25@gmail.com</a></td>
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<td>Xueyun Zheng</td>
<td>Department of Chemistry and</td>
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<td><a href="mailto:xueyunzheng100@gmail.com">xueyunzheng100@gmail.com</a></td>
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<td>Xing (Vic) Zhang</td>
<td>501 Big Springs Road</td>
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<td><a href="mailto:xzhan018@ucr.edu">xzhan018@ucr.edu</a></td>
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<td>Jiang Zhang</td>
<td>Department of Chemistry</td>
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<td><a href="mailto:jzhang@chem.ucla.edu">jzhang@chem.ucla.edu</a></td>
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<td>Xiang Zhang</td>
<td>Department of Chemistry</td>
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