Poster Session I – Wednesday, February 6

1. **Mark J. Abel**, Thomas Pfeifer, Aurelie Jullien, Phil M. Nagel, Daniel M. Neumark, Stephen R. Leone
   Isolated attosecond pulses and phase-controlled light fields for attosecond spectroscopy
   U.C. Berkeley, Lawrence Berkeley National Lab

2. **Jason D. Biggs** and Jeffrey A. Cina
   Monitoring the External Vibrational Control of Electronic Excitation Transfer Using Nonlinear Wave-Packet Interferometry
   Oregon Center for Optics and Department of Chemistry, University of Oregon

3. **Xiaolu Cheng**, Craig Chapman, Jeffrey Cina
   Theoretical tests of probability-density observation in femtosecond spectrally resolved transient grating experiments
   University of Oregon

4. **K.M. Davis**, D.F. Plusquellic, and S.K. Gregurick
   Spectroscopy of Biomolecules
   The National Institute of Standards and Technology and The University of Maryland, Baltimore County

5. **Evgeny Epifanovsky** and Anna I. Krylov
   Exploring excited states of uracil using equation-of-motion coupled-clusters methods
   Department of Chemistry, University of Southern California

6. **Emily E. Fenn**[1], Nancy E. Levinger[2], David E. Moilanen[1], and Michael D. Fayer[1]
   Dynamics of water and polyether molecules in binary mixtures
   1. Department of Chemistry, Stanford University, Stanford, CA
   2. Department of Chemistry, Colorado State University, Fort Collins, CO

7. **J.H. Frank**, A. D. Elder, S. Schlachter, A.R. Venkitaraman, A.D. Jeyasekharan, C.F. Kaminski
   Application of Supercontinuum Lasers to Microscopy
   Sandia National Laboratories, University of Cambridge

8. **Richard J. Gates**, Carolyn E. Sheffield, Aaron M. Johnson, Matthew C. Asplund
   Transient IR spectroscopy of transient metal-solvent complexes
   Brigham Young University

9. **Fabien Goulay**, Paul E. Schrader, Mark A. Dansson, Hope A. Michelsen
   Interferences for laser-induced incandescence of flame-generated soot
   Sandia National Laboratory, Livermore

10. **Ali I Ismail,** Jordan H Mantha, and Joseph I Cline
Spatial hole burning and refilling observed in the photoisomerization of immobilized dibezofulvenes detected by Normal angle ringdown spectroscop
Department of Chemistry, University of Nevada, Reno, NV

11. **Alan M. Johnson**, Kilyoung Kim, Maurine Mayhew, Amber L. Powell, Deborah G. Mitchell, and Eric T. Sevy
Relaxation of vibrationally excited 1,2,4,5-tetrafluorobenzene by collisions with CO_2
Brigham Young University

12. **K.L. Knappenberger, Jr.**, A. Cordones, X. Wei and S. R. Leone
Spectroscopic Investigation of Single-CdSe Nanocrystals
University of California, Berkeley and Lawrence Berkeley National Laboratory

13. **Kirill Kuyanov-Prozument** and Andrey F. Vilesov
Hydrogen clusters that remained fluid
Department of Chemistry, Massachusetts Institute of Technology
Department of Chemistry, University of Southern California

14. **Mat Leonard**, Chunte Peng, Oleg Kornilov, Daniel Neumark, Stephen R. Leone, Oliver Gessner
Towards femtosecond time-resolved photoionization studies of helium nanodroplets in the EUV
University of California - Berkeley; Lawrence Berkeley National Laboratory

15. **Jordan H. Mantha** and Joseph I. Cline
Normal angle cavity ringdown spectroscopy as a sensitive probe of photochromic dye kinetics and excitation.
University of Nevada, Reno

16. **Deborah G. Mitchell** and Eric T. Sevy
Vibrational Assignments of Benzene Derivatives
Brigham Young University

17. **Astrid M. Müller**[1], Yuri S. Avlasevich[2], Klaus Müllen[2], Wolfgang W. Schoeller[1], and Christopher J. Bardeen[1]
Multiple exciton generation and fusion in novel covalently linked tetracene dimers
1. UC Riverside 2. Max-Planck Institute of Polymer Research

18. **Constantin Romanescu**, Maija Benitz, and Richard Copeland
Temperature dependence of NO(v = 1 and 3) vibrational relaxation by NO and O atoms
SRI International, Molecular Physics Laboratory, Menlo Park, CA

19. **Talitha M. Selby**, Giovanni Meloni, Fabien Goulay, David L. Osborn, and Craig A. Taatjes
Kinetics and Isomer-Specific Product Detection of Radical-Radical Reactions Using Multiplexed Photoionization Mass Spectrometry
Sandia National Laboratories, Advanced Light Source at Lawrence Berkeley National Laboratories

20. **Dmitry Skvortsov**[1], Russel Sliter[1], Myong Yong Choi[2] and Andrey F. Vilesov[1]
HCl Clusters in Helium Nanodroplets
1. Department of Chemistry, University of Southern California, Los Angeles, CA
2. Department of Chemistry and Research Institute of Natural Sciences, Gyeongsang National University, Jinju, South Korea

21. **Craig A. Taatjes**[1], Nils Hansen[1], David L. Osborn[1], Katharina Kohse-Höninghaus[2], Terrill A. Cool[3], and Phillip R.Westmoreland[4]
"Imaging" Combustion Chemistry with Multiplexed Synchrotron Photoionization Mass Spectrometry
1. Combustion Research Facility, Sandia National Laboratories, Livermore
2. Department of Chemistry, Bielefeld University, Germany
3. School of Applied and Engineering Physics, Cornell University
4. Department of Chemical Engineering, University of Massachusetts, Amherst

22. **Janel S. Uejio** and Richard J. Saykally
X-Ray Spectroscopy of Biologically Relevant Aqueous Systems
UC Berkely Chemistry Department and Chemical Sciences Division LBNL

23. **Roberto D. Valladares**, M.N. Masuno, and A.M. Nishimura
Electronic Energy Transfer in Molecular Bilayers on Al_2O_3 by Wavelength Resolved Temperature Programmed Desorption
Department of Chemistry, Westmont College

24. **Hailing Wang** and Timothy C. Steimle
Optical Stark Measurements of Rhodium-containing Molecules
Arizona State University

Poster Session II – Thursday, February 7

1. **George L. Barnes** and Edwin L. Sibert III
   Equilibrium Focused Approaches for Calculating Tunneling Splittings in Formic Acid Dimer
   University of Wisconsin-Madison

2. **Craig T. Chapman** and Jeffrey A. Cina
   Semiclassical descriptions for small-molecule dynamics in low-temperature matrices
   Oregon Center for Optics and Department of Chemistry, University of Oregon

3. **Christi Chester,** Askat Jailaubekov, Delmar Larson, Stephen Bradforth
   Ultrafast photophysics of DNA bases and oligonucleotides in solution
   University of Southern California

4. **Kevin O. Douglass**[1], David W. Pratt[2], Brooks H. Pate[3], and David F. Plusquellic[1]
   Chirped-Pulse (100 MHz) FT Microwave Spectrometer for Studies of Model Peptide Systems
   1. Biophysics Group, Physics Lab, NIST Gaithersburg, MD
   2. Department of Chemistry, University of Virginia
   3. Department of Chemistry, University of Pittsburgh

5. **S. C. Everhart**, N. A. Sassin, K. M. Ervin, and J. I. Cline
   Multi-Photon Dissociation Kinetics of Trapped Chromophores Probed by Mass Spectroscopy and Fluorescence
   Dept of Chemistry and Chemical Physics Program, University of Nevada, Reno

6. **K. S. Fruchey** and M. D. Fayer
   Orientational Dynamics in Ionic Liquids
   Stanford University

7. **Anna A. Golubeva** and Anna I. Krylov
   Ab-initio calculation of the ionization potentials of the uracil dimers
   Department of Chemistry, University of Southern California, Los Angeles, CA

8. **Melissa P. Hill**, Elizabeth C. Carroll, Michael D. Toney, Delmar S. Larsen
   Rapid Photodynamics of Vitamin B6 Coenzyme Pyridoxal 5'-Phosphate and its Schiff Base in Solution
   Department of Chemistry, University of California, Davis

9. **Cunshun Huang**, Armando Estillore, and Arthur G. Suits
Specroscopy and dynamics of HCCO radical photodissociation with two-color reduced Doppler detection
Department of Chemistry, Wayne State University, Detroit, MI

10. **Boris Karpichev**, Laura W. Edwards, Jie Wei and Hanna Reisler
Electronic Spectroscopy and Photodissociation Dynamics of CH_3CHOH
Department of Chemistry, University of Southern California

11. **Kilyoung Kim,** Alan M. Johnson, Amber L. Powell, Deborah G. Mitchell, Maurine Mayhew, and Eric T. Sevy
Collisional energy transfer from highly vibrationally excited fluorobenzenes to CO_2: Fluorine-substitution effect in benzene structure on the energy transfer probability distribution function.
Brigham Young University

12. **Waruna D. Kulatilaka**, Jonathan H. Frank and Thomas B. Settersten
Enabling Interference-Free Fluorescence Imaging of Atomic Hydrogen in Flames Using a Picosecond Laser
Combustion Research Facility, Sandia National Laboratories

13. **Kirill Kuyanov-Prozument**, Wilton L. Virgo, Vladimir S. Petrovic and Robert W. Field
Study of quantum interference of $A^1\Pi$ and $B^1\Sigma_0^+$ states in the CO molecule to reveal the contribution of $B^1\Sigma_0^+$ state to the $a^3\Pi_0$ state lifetime
Department of Chemistry, Massachusetts Institute of Technology

14. **Geoffrey A. Lott** and Andrew H. Marcus
Four-point correlations of molecular fluctuations by two-dimensional electronic spectroscopy
University of Oregon and Oregon Center for Optics

15. **Maurine Mayhew,** Alan M. Johnson, Kortney Judd, Kilyoung Kim, Deborah G. Mitchell, Amber L. Powell, and Eric T. Sevy
Collisional relaxation of 1,2,4-trifluorobenzene by a bath of carbon dioxide
Brigham Young University

16. **David E. Moilanen**[1], Emily E. Fenn[1], Biman Bagchi[2], and Michael D. Fayer[1]
Inertial reorientation in water: Local and collective effects on the nature of the inermolecular potential
1. Stanford University
2. Indian Institute of Science

17. **James E. Patterson**, L. Robert Baker, Alexander D. Curtis, Sarah B. Moxley
Investigation of Buried Interfaces with Nonlinear Vibrational Spectroscopy
Department of Chemistry and Biochemistry, Brigham Young University

18. **Patrick Rupper,** Gabriel Just, and Terry A. Miller
High resolution cavity ringdown spectroscopy of jet-cooled peroxy radicals
The Ohio State University, Department of Chemistry

19. **Craig Schwartz**, Janel Uejio, Richard Saykally
Hofmeister effects studied by X-ray Absorption Spectroscopy
University of California, Berkeley

20. **Carolyn E. Sheffield** and Matthew C. Asplund
Dynamics of rotation about an Ir-C double bond studied with transient IR spectroscopy
Brigham Young University

21. **D.B. Spry** and M.D. Fayer
Charge Transfer in Photoacids
Stanford University

22. **Timothy C. Steimle**, John Brown, Colan Linton, Trevor Sears, Tongmei Ma
Optical Zeeman Studies of Metal Containing Molecules: YbF and FeH.
Arizona State University

23. **Kirill A. Velizhanin**[1,2], Svetlana Kilina[1], Sergei Tretiak[1],Thomas D. Sewell[1] and Andrei Piryatinski[1]
Optical Spectroscopy of Polyatomic Materials: First Principles Calculations of Anharmonic Potential Energy Surfaces
1. Center for Nonlinear Studies, Theoretical Division, Los Alamos National Laboratory
2. Department of Chemistry and Biochemistry, New Mexico State University

24. **Jie Zhang,** Linsen Pei, and Wei Kong
Laser desorption ZEKE spectroscopy of PAHs
Oregon State University