

January 25th - 27th, 2012, Asilomar Conference Center, Pacific Grove, CA

Wednesday, January 25 Poster Session I

1. **Masroor Hossain, Aidan Klobuchar, and Jeffrey Bartz**
Effects of the Molecular Conformational Changes of N,N-dimethylnitrosamine ((CH₃)₂NNO) on Vector Correlations
Department of Chemistry, Kalamazoo College
2. **Angela R. Calchera, Alexander D. Curtis, and James E. Patterson**
Response of Polystyrene Thin Films to Plasma Treatment
Department of Chemistry and Biochemistry, Brigham Young University
3. **Amy Cordones, Teresa Bixby, and Steve Leone**
Fluorescence Blinking Studies of Single Nanocrystals
University of California, Berkeley Lawrence Berkeley National Lab
4. **Robert J. Dillon and Christopher J. Bardeen**
Photophysics and photocatalysis of nanostructured titania with and without gold nanoparticles
University of California, Riverside
5. **Jordan Fine and Christopher Nemirow**
Multiphoton Investigation of Iridium Tris(2-phenylpyridine)
University of Southern California
6. **Yang Han, Varun Raghunathan, Nien-Hui Ge and Eric Potma**
Fast imaging with vibrational resonant sum frequency generation
University of California, Irvine
7. **Justin Jankunas, Richard N Zare, Foudhil Bouakline, Stuart C Althorpe, Diego H Aguilar and Javier Aoiz**
Surprises in the simplest chemical reaction: the DCS of H + D₂ --> HD (v' = 4, j') + D reaction
Stanford University, Cambridge University and Universidad Complutense de Madrid
8. **Peter W. Kim (1), Lucy H. Freer (1), Nathan C. Rockwell (2), Shelley S. Martin (2), J. Clark Lagarias (2), Delmar S. Larsen (1)**
Second-Chance Forward Isomerization Dynamics of the Red/Green Cyanobacteriochrome NpR6012g4 from *Nostoc punctiforme*
1: Department of Chemistry, University of California, Davis
2: Department of Molecular and Cell Biology, University of California, Davis

January 25th - 27th, 2012, Asilomar Conference Center, Pacific Grove, CA

9. **Adele D. Laurent** and Anna I. Krylov
Modelling the pressure effects on optical properties of fluorescent proteins from the mFruit family
University of Southern California
10. **Hao Li**, Sergey V. Malinin, Sergei Tretiak, and Vladimir Y. Chernyak
Effective tight-binding models based on the exciton scattering (ES) approach in branched conjugated molecules
Los Alamos National Laboratory
11. **Matthew McManus**, David L. Osborn, Craig A. Taatjes, and Giovanni Meloni
Investigation of 2-Me-THF and 2,5-DMF Oxidation using Synchrotron Photoionization Mass Spectrometry
1: Department of Chemistry, University of San Francisco
2: Combustion Research Facility, Sandia National Laboratories
12. **Chengbing Qin**, Fang Wang, and Timothy C Steimle
Molecular Beam Studies of Platinum Monofluoride, PtF
Arizona State University
13. **Erin A. Riley**, Chelsea M. Hess, and Philip J. Reid
Identifying modest perturbations at the nano-scale with single molecule fluorescence
University of Washington
14. **Rachel K. Teranishi**, K. A. Martin, and Allan M. Nishimura
ODMR Linewidth of 2-Indanone
1: Chemistry Department, Point Loma Nazarene University
2: Chemistry Department, Westmont College
15. **Fang Wang** and Timothy C Steimle
The Spectroscopy of Tungsten Carbide (WC)
Arizona State University
16. **Oliver Welz (1)**, Judit Zador (1), John Savee (1), Leonid Sheps (1), Subith Vasu (1), Stephen Klippenstein (2), David Osborn (1), and Craig Taatjes (1)
Low-Temperature Combustion Chemistry of 1-Butanol: A Synchrotron Photoionization Mass Spectrometry and Master-Equation Study
1: Combustion Research Facility, Sandia National Laboratories
2: Chemistry Division, Argonne National Laboratory
17. **Jie Zhang** and Wei Kong
Electron diffraction of gallium phthalocyanine chloride embedded in superfluid helium droplet
Oregon State University

Thursday, January 26
Poster Session II

1. **Matthew C. Asplund**, Richard Gates, Jacob Marx, and Nicholas Theodoro
Transient spectroscopy of key intermediates in a Pauson-Khand Reaction
Brigham Young University
2. **Teresa J Bixby**, Amy A Cordones, and Stephen R Leone
CdSe/ZnS Quantum Dot Intermittency in N,N -diphenyl-N,N -bis(3-methylphenyl)-(1,1 -biphenyl)-4,4 -diamine (TPD)
UC Berkeley and LBNL
3. **Lei Chen**, Jie Zhang, and Wei Kong
Catching Protein ions in Superfluid Helium droplets
Oregon State University
4. **Saptaparna Das**, Sean T. Roberts, Petr P. Khlyabich, Barry C. Thompson and Stephen E. Bradforth
Charge carrier Dynamics in Semi-random Multichromophoric rr-P3HT Analogues and in bulk Heterojunction composites with PCBM
Department of Chemistry, University of Southern California
5. **Yuan Feng**, Seongheun Kim, Hiroaki Maekawa, and Nien-Hui Ge
2D IR Spectroscopy of a Model Collagen Peptide
Department of Chemistry, University of California at Irvine
6. **Samantha R. Gardner**, L. M. Selby, Rachel K. Teranishi, M. S. Douglas, S. W. Simonds, K. A. Martin, and Allan M. Nishimura
Temperature Dependent Excimer Luminescence of Naphthalene on alpha-Alumina
1: Chemistry Department, Point Loma Nazarene University
2: Chemistry Department, Westmont College
7. Hiroaki Maekawa and **Nien-Hui Ge**
Ultrafast 2D IR spectroscopy of rotational conformation exchange
Department of Chemistry, University of California, Irvine
8. **David P. Hoffman** and Richard A. Mathies
Photoexcited Structural Dynamics of a Stilbene Analog, 4-Nitro-4 -Dimethylamino-Azobenzene, from Femtosecond Stimulated Raman
Department of Chemistry, University of California Berkeley
9. **Peter Kelly**
University of California, Davis

January 25th - 27th, 2012, Asilomar Conference Center, Pacific Grove, CA

10. **Aidan Klobuchar**, Masroor Hossain, and Jeffrey Bartz
Revealing Orientation Using Circularly Polarized Light
Department of Chemistry, Kalamazoo College
11. **Anh T Le** and Timothy C. Steimle
Spectroscopy of transition metal dioxides in the gas phase
Arizona State University
12. **Quetzalcoatl Magana** and Stephen Balinskas
Real-Time Spectral Analysis: An Automatic Solution for Real Problems
Spectralysis LLC
13. **James E. Patterson**, Alexander D. Curtis, Arthur D. Quast, and Angela R. Calchera
Overcoming Challenges in the Proper Interpretation of Vibrational Sum-Frequency Spectra
Department of Chemistry and Biochemistry, Brigham Young University
14. **Eric T. Sevy**, Tyler Mix, and Tamara Hansen
Understanding the energy transfer probability distribution function: Measuring small ΔE energy transfer events in collisional relaxation of highly excited molecules.
Department of Chemistry and Biochemistry, Brigham Young University
15. **Jeffrey D. Steill**, Kevin E. Strecker, and David W. Chandler
Fragment energy distributions from near-threshold NO_2 dissociation
Sandia National Laboratories
16. **Mikhail Vinaykin** and A.V.Benderskii
Orientalional Dynamics in Vibrational SFG Line Shapes
University of Southern California
17. **Fabian Weise**, Daniel M. Neumark, Stephen R. Leone, and Oliver Gessner
Time-Resolved Near-Edge Coherent Diffractive Imaging
Lawrence Berkeley National Laboratory
18. **Niclas A. West** (1), Michelle L. Warter(2), Michael P. Grubb(2), Simon W. North(2), and Jeffrey A. Bartz(1)
Revealing Molecular Dynamics Through DC Slice Ion Imaging
1: Department of Chemistry, Kalamazoo College
2: Department of Chemistry, Texas A&M University