



Poster Session

5:00–7:00pm, June 17, 2010

Presenter(s)	Group	Poster Title
Kathryn Colby	Bardeen	“Electronic energy migration on different timescales: concentration dependence of the time-resolved anisotropy and fluorescence quenching of lumogen red in PMMA.”
Daeho Kim	Bartels	“A surface coordination network based on substrate-derived metal adatoms with local charge excess.”
Jon Wyrick	Bartels	“Molecular surface diffusion in confinement.”
Yin Luo	Beran	“Computational investigation of mechanisms of hydrocarbon chain growth in Fischer-Tropsch synthesis.”
Kelly Theel	Beran	“Vibrations of chelated protons in gaseous, protonated tertiary diamines.”
Gaël Ung, Rei Kinjo, & Daniel Mendoza-Espinosa	Bertrand	“Synthesis and catalytic activity of cyclic(alkyl)(amino)carbene gold(I) complexes.”
Rizi Ai	Chang	“T-Analyst: A program for efficient analysis of protein conformational changes by torsion angles.”
Qaiser Fatmi	Chang	“Discovering drug candidates for the α -subunit of tryptophan synthase: From docking and molecular dynamics simulations to experiments.”

Presenter(s)	Group	Poster Title
Matt Linman	Cheng	“Biosensors and functional biomaterials: A study with surface plasmon resonance spectroscopy, SPR imaging, and mass spectrometry.”
Andrew Rice	Chronister	“High pressure Raman spectroscopy of 3,3,N,N,N',N'-hexamethyl cadaverine HBr.”
Rui Liu	Feng	“pH-Responsive nanogated ensemble based on gold-capped mesoporous silica through an acid-labile acetal linker.”
Katherine Djernes	Hooley	“Water-soluble cavitands act as membrane-bound small molecule and protein receptors.”
Amber Johnson	Hooley	“Two-component control of guest binding in a self-assembled cage molecule.”
Ben Moore	Julian	“Investigating the structure of peptides and proteins with mass spectrometry.”
Chris Jones	Larive	“Insight into the reverse-phase ion-pair separation of heparin-derived oligosaccharides by HR-MAS NMR.”
John Limtiaco	Larive	“Development of analytical methods for heparin purity analysis.”
Melissa Padilla & Conor Pierce	Larsen	“Hydrogen bonding and organometallic catalysts for new asymmetric transformations.”
Robert Carp, Angie Garcia, & Amber Scroggs	Marsella	“Marsella group current research.”
Aaron Moehlig	Morton	“Strong hydrogen bonds in diamines and nucleic acid/base pairs.”
Jinfeng Lai	Mueller	“Chemical synthesis and characterization of carboxymethylated DNA lesions induced by diazoacetate.”

Presenter(s)	Group	Poster Title
Ye Tian	Mueller	“NMR crystallography in an enzyme active site: Characterizing the chemical structure of catalytic intermediates in tryptophan synthase.”
Tannya Ibarra	Pirrung	“Syringolin total synthesis.”
Jinshuang Wang	Wang	“Chemical synthesis and characterization of carboxymethylated DNA lesions induced by diazoacetate.”
Lei Xiong	Wang	“Mapping of lysine methylation and acetylation in core histones of <i>Neurospora crassa</i> .”
Le He	Yin	“Magnetically responsive photonic nanostructures.”
Qiao Zhang	Yin	“Silver nanoplates: Controllable synthesis and tunable optical properties.”
Ilkeun Lee	Zaera	“Nanotechnologies for the preparation of selective catalysts.”
Qiang Ma	Zaera	“Surface chemistry of the atomic layer deposition of copper films on a Ni(110) surface.”
Jesse Lemieux	Zhang	“Mixed silicon-germanium clusters, $\text{Si}_x\text{Ge}_y\text{H}_z$, in the gas phase by flash pyrolysis of silane and germane.”
David Medina	Zhang	“Detection of nitrate radical using broadband cavity enhanced absorption spectroscopy (BBCEAS).”
Kevin Weber	Zhang	“First aromatic ring formation in the pyrolysis of cyclopentadiene and methylcyclopentadiene.”
Ni Li	Zhong	“Capillary electrophoresis: A flexible platform for protein-nanoparticle interaction study.”
Lei Ren	Zhong	“Oxidation mediated by single-walled carbon nanotubes in aqueous solutions.”
Runtao Zhong	Zhong	“Integrated platform for detection of trace biomarkers in biological samples.”