Detailed Schedule

47th ACS DFW Meeting in Miniature Texas Wesleyan University, Fort Worth, Texas Saturday, April 26, 2014

7:45 – 8:30 AM Check-in (McFadden Science Center; Building 15)

8:30 - 9:45 AM Session 1

Physical/Inorganic 1 (Graduate)

Room: McFadden 102

Kyralyssa Hauger, Department of Chemistry, Texas Christian University Synthesis and Characterization of Silylanilino Derivatives Containing Boron

Natalie Trinh, Department of Chemistry, University of Texas at Dallas Synthesis and Characterization of PIM-1/Cobalt SALEN as a Controlled and Site Specific NO Delivery Agent

J.P. Nimmo II, Department of Chemistry and Biochemistry, The University of Texas at Arlington *First-principles studies of Amorphous Silicon Oxycarbide: Relating Structure to*²⁹Si NMR Data

Rebecca Weber, Department of Chemistry, University of North Texas The Effects of DFT Functionals on the Structures of Lanthanide Trifluorides

Physical/Inorganic (Graduate)

Room: McFadden 304

Eugenia Narh, Department of Chemistry and Biochemistry, The University of Texas at Arlington Structure-activity Relationships and Redox Activity of Bioreducible Ruthenium(II) Polypyridyl Complexes

Chris Jeffrey, Department of Chemistry, University of North Texas Gauging Performance of Density Functionals for Determination of the Structure of Lanthanide Trifluorides

Zainab H. Alsunaidi, Department of Chemistry, University of North Texas Amination of Benzene on the Ni (111) Surface: A Computational Study

Anne Marti, Department of Chemistry, University of Texas at Dallas The Fabrication of a Zeolite Imidazolate Framework (ZIF) Membrane for the Separation of Ethanol from Water

Organic/Biochem/Polymer 1 (Undergraduate) Room: McFadden 203

Kevin J. Bruemmer, Department of Chemistry, Southern Methodist University ¹⁹*F Magnetic Resonance Oxidative Decarbonylation Reaction-based Probes for the Specific Detection of Peroxynitrite*

Matt Sherman, Department of Chemistry, Texas Christian University Synthetic Caffeine Riboswitches as Genetic and Analytical Tools

Cindy Nguyen, Department of Chemistry, University of Texas at Dallas Use of Colloidal Metal-Organic Frameworks (MOFs) as Multifunctional Compatibilizers for Immiscible Polimide/Polybenzimidazole Blend Membranes

Dalton Kim, Department of Chemistry, Southern Methodist University *Modification of Polyphosphazenes by Copper-catalyzed Reactions*

9:45 - 10:00 AM Break

10:00 - 11:30 AM Session 2

Physical/Inorganic 3 (Graduate)

Room: McFadden 102

Tejaswi Bhavanam, Department of Chemistry, Texas A&M University–Commerce Synthesis, Modification, and Characterization of Supported Gold Catalysts for Selective Hydrogenation of Acetylene in the Presence of Ethylene

Matthew J. Carlson, Department of Chemistry, University of North Texas Exploration of Weighted Core-valence Basis Sets for the Correlation Consistent Composite Approach for Transition Metals

Do Nguyen, Department of Chemistry, University of Texas at Dallas A Fast and Facile Synthetic Route for Zeolitic Imidazolate Framework 11 Nanoparticles

Dani Setiawan, Department of Chemistry, Southern Methodist University A New Approach for a Quantitative Description of Aromatic and Antiaromatic Molecules Based on Vibrational Spectroscopy

Physical/Inorganic 4 (Graduate)

Room: McFadden 304

Michael R. Jones, Department of Chemistry, University of North Texas *Tyrosine-Phosphorylation in the Activity of Inhibitor of* κB *Kinase-* β

Jiaqi Wang, Department of Chemistry, University of North Texas Computational Study of the Oxidative Cleavage of C-H, C-C, C-O Bonds by Late First-Row and Second-Row Transition Metal Atoms

Alan Humason, Department of Chemistry, Southern Methodist University What id the Longest Carbon-Carbon Bond in Chemistry? Investigation of 11,11-Dimethyl-1,6methano[10]annulene

Sajani A. Basnayake, Department of Chemistry, University of Texas at Dallas Synthesis of a Novel Metal Organic Framework (MOF) Using a Novel Linker

Zahra Bassampour, Department of Chemistry, Southern Methodist University Selective Nucleophilic Replacement Reactions of Substituted Silanes

Organic/Biochem/Polymer 2 (Undergraduate) Room: McFadden 203

My-Linh Van, Department of Chemistry, University of Texas at Dallas *Enzyme Immobilization in a Metal-Organic Framework*

Margaret J. Risher, Department of Chemistry, Tarleton State University Isolation and Characterization of Isoflavones from Osage OrangeL Project-based Laboratory Exercises for Introductory Organic Chemsitry

Daniel Galles, Department of Chemistry, University of Texas at Dallas Coated Acrylonitrile-based Terpolymer Prolongs Release of NO for Wound Healing Applications

Mai Khong, Department of Chemistry, University of Texas at Dallas Fabrication of Porous Carbon Nanofibers for Supercapacitors using Polybenzimidazole Incorporating Colloidal ZIF-8 Nanocrystals

Michael Tshisekedi, Department of Chemistry and Biochemistry, Texas Wesleyan University *Synthesis and Evaluation of Novel DHFR Inhibitors*

11:30 – 1:00 PM Lunch (on your own)

1:00 – 2:30 PM Session 3

Physical/Inorganic 5 (Graduate)

Room: McFadden 102

Christopher South, Department of Chemistry, University of North Texas *Analysis of the Electronic Structure of NdF*⁺ *in Low Oxidation States*

Imalka Munaweera, Department of Chemistry, University of Texas at Dallas Novel Chemoradiotherapuetic Magnetic Nanoparticles for the Targeted Treatment of Non-small Cell Lung Cancer

Atreyi Dasmahapatra, Department of Chemistry and Biochemistry, The University of Texas at Arlington Structure and Thermochemistry of Hafnia-Silica Glasses

Michele S. McAfee, Department of Chemistry, Texas Christian University Polymer Diffusiophoresis and Salt Osmotic Diffusion in Aqueous Salt Solutions

Physical/Inorganic 6 (Graduate)

Room: McFadden 101

Wijayantha A. Perera, Department of Chemistry, University of Texas at Dallas Sodium Niobate Nanorods and Nanotubes – Graphene Binder Free Nanocomposite Flexible Paper Electrode for Supercapacitors

Nathanael Mayo, Nanotech Institute, University of Texas at Dallas Fleixble Transparent Loudspeakers

Blake Wilson, Department of Chemistry, University of Texas at Dallas Calculation of the Isothermal – Isobaric Partition Function using Nested Sampling

Andrew Mahler, Department of Chemistry, University of North Texas Correlation Consistent Basis Sets for In–Xe

Physical/Inorganic 1 (Undergraduate)

Room: McFadden 304

David M. Marolf, Department of Chemistry, Abilene Christian University New Triosmium Clusters with Multidentate Phosphine Ligands

Rawan Muhanna, Department of Chemistry, University of Texas at Dallas Synthesis of Novel Imidazole Linkers to Create Novel ZIF Structures

Minh Hoa Nguyen, Department of Chemistry, University of Texas at Dallas *Transition Metal Complexes for Storage and Delivery of Nitric Oxide*

Susana Aguirre-Medel, Department of Chemistry and Biochemistry, The University of Texas at Arlington Surface Functionalization of β -SiC Quantum Dots

Physical/Inorganic 2(Undergraduate)

Room: McFadden 203

Kenneth J. MacKenzie, Department of Chemistry, University of Texas at Dallas Adsorption of Nucleotides by bio-MOF-1

Zijun Yu, Department of Chemistry, University of North Texas Comparison of Density Functional Methods for Lanthanide Compounds

Prajay Patel, Department of Chemistry and Biochemistry, The University of Texas at Arlington *Investigations of the Rhombohedral-to-cubic Transformation Path in Boron Nitride*

Soo Hun Yoon, Department of Chemistry, Abilene Christian University Synthesis of Coordination Polymers Containing Diosmium Units

Organic/Biochem/Polymer 1 (Graduate)

Room: McFadden 108

Houliang Tang, Department of Chemistry, Southern Methodist University Synthesis and Functionalization of Disulfide-containing Polycyanoacrylates

	 Diego A. Lopez, Department of Chemistry and Biochemistry, The University of Texas at Arlington <i>Vitamin B1 Pathway: A Distinct Source for Novel Antibacterial Development</i> Sara Merrikhihaghi, Department of Chemistry, Southern Methodist University <i>Fluorescent Probes for Imaging Reactive Nitrogen and Sulfur Species</i> Nimali Abeykoon, Department of Chemistry, University of Texas at Dallas <i>Supercapacitor Performance of Carbon Nanofibers Derived from PAN/PMMA Polymer Blends</i> Hongzhang Han, Department of Chemistry, Southern Methodist University <i>Functional Polymer Materials with Complex Architectures Produced by Using Exchange Reactions at Hypervalent Iodine Center</i> Pradeep Budhathoki, Department of Chemistry, Texas Christian University <i>Reversible Modification of the N-terminal CysteineResidue of Proteins using Pyruvic Acid Analogs</i> 	
	Organic/Biochem/Polymer 2 (Graduate)	Room: McFadden 306
	Jameela Lokhandwala, Department of Chemistry, Southern Methodist University Structural Characterization of Fungal Photoreceptor-EnvoyJian Cao, Department of Chemistry, Southern Methodist University 1,2-Dioxetane Chemiluminescent Probes for Imaging H2S in Living CellsRangana Jayawickramage, Department of Chemistry, University of Texas at Dallas Enhanced Conductivity of 1-Butyl-1-methylpyrrolidiniumbis(trifluoromethylsulfonyl)imide as an Electrolyte Double Layer CapacitorSahila Perananthan, Department of Chemistry, University of Texas at Dallas Supercapacitor Electrode Material from Immiscible Polymer BlendsDavid C. McLeod, Department of Chemistry, Southern Methodist University Controlled Radical Polymerization of 4-Vinylphenyloxirane to Produce Highly Functionalized, Well-defined Homopolymers and Block Copolymers of Various Architectures	
	Zhaoxu Wang , Department of Chemistry, Southern N Well-defined Redox-active and Fluorescent PolymerF and Viologen-containing Intiator	
2:30 – 3:00 PM	Break	
3:00 – 4:00 PM	Awards closing remarks (Bragan Fellowship Hall, ; Building 11)	