

Muhammed Faiz Yousufuddin
Lecturer of Chemistry

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Education May 2000 University of South Carolina Columbia, SC
Degree Awarded: **B.S. with a Major in Chemistry**

Dec 2005 University of Southern California Los Angeles, CA
Degree Awarded: **Ph.D. in Inorganic Chemistry**
Dissertation title: Neutron Diffraction Studies of Metal Hydride Complexes

Previous Positions Held Jan 06-Aug 07 Rutgers University Piscataway, NJ
• **Research Associate**

Sept 07-Nov 08 National Institute of Standards and Technology MD
• **Research Associate**

Dec 08-Aug 15 University of Texas at Arlington Arlington, TX
• **Director, Center for Nanostructured Materials (CNM)**

Current Position Sept 15-present University of North Texas at Dallas Dallas, TX
• **Lecturer of Chemistry**

Courses CHEM 1410 General Chemistry I
CHEM 1430 General Chemistry I Laboratory
CHEM 1420 General Chemistry II
CHEM 1440 General Chemistry II Laboratory
CHEM 1360 Context of Chemistry

Awards and grants received Excellence in Teaching (General Chemistry, 2004)
Oak Ridge Associated University Program Grant (2011)
Undergraduate Research Project from Reata Inc. (2012)
Undergraduate Research Project from Invista (2013)
Undergraduate Research Project from Alcon (2014)

Synergistic Activities Member Editorial Board, Acta Crystallographic Section C
Member Scientific Review Board, Oak Ridge National Laboratory
Reviewer: US Civilian Research and Development grant program
Marine Drugs

**Full Publication
List**

Peer-Reviewed Publications

- (1) "The Binary Group 4 Azides $[Ti(N_3)_4]$, $[P(C_6H_5)_4][Ti(N_3)_5]$, and $[P(C_6H_5)_4]_2[Ti(N_3)_6]$ and on Linear Ti-N-NN Coordination" by Ralf Haiges, Jerry A. Boatz, Stefan Schneider, Thorsten Schroer, Muhammed Yousufuddin, and Karl O. Christe, *Angew. Chem. Int. Ed.* **2004**, 43, 3148 (VIP).
- (2) "Polyazide Chemistry: Preparation and Characterization of $As(N_3)_5$, $Sb(N_3)_5$, and $[P(C_6H_5)_4][Sb(N_3)_6]$ " by Ralf Haiges, Jerry A. Boatz, Ashwani Vij, Vandana Vij, Michael Gerken, Stefan Schneider, Thorsten Schroer, Muhammed Yousufuddin, and Karl O. Christe, *Angew. Chem. Int. Ed.* **2004**, 43, 6676.
- (3) "Synthetic Control of Pt...Pt Separation and Photophysics of Binuclear Platinum Complexes" by Biwu Ma, Jian Li, Peter I. Djurovich, Muhammed Yousufuddin, Robert Bau, and Mark E. Thompson, *J. Am. Chem. Soc.* **2005**, 127, 28.
- (4) "Synthetic Control of Excited State Properties in Cyclometalated Ir(III) Complexes Using Ancillary Ligands" by Jian Li, Peter I. Djurovich, Bert D. Alleyne, Muhammed Yousufuddin, Nam N. Ho, J. Christopher Thomas, Jonas C. Peters, Robert Bau, and Mark E. Thompson, *Inorg. Chem.* **2005**, 44, 1713 (**most cited Inorg. Chem. article in 2005**)
- (5) "Synthesis and X-ray and Neutron Structures of $Zr[(\mu-H)_2BC_8H_{14}]_4$ " by Errun Ding, Bin Du, Edward A. Meyers, Sheldon G. Shore, Muhammed Yousufuddin, Robert Bau, and Garry J. McIntyre, *Inorg. Chem.* **2005**, 44, 2459.
- (6) "Polyazide Chemistry: The First Binary Group 6 Azides, $Mo(N_3)_6$, $W(N_3)_6$, $[Mo(N_3)_7]$, and $[W(N_3)_7]$, and the $[NW(N_3)_4]$ - and $[NMo(N_3)_4]$ -Ions" by Ralf Haiges, Jerry A. Boatz, Robert Bau, Stefan Schneider, Thorsten Schroer, Muhammed Yousufuddin, and Karl O. Christe, *Angew. Chem. Int. Ed.* **2005**, 44, 1860.
- (7) "Piano Stool Complexes Containing the Bulky Pentaphenylcyclopentadienyl(C_5Ph_5) Ligand: Preparation, Characterization and X-ray Structure of $C_5Ph_5Zr(N(CH_3)_2)_3$ (I)" by Jin An, Luis Urrieta, Rayshonda Williams, Wayne Tikkanen, Robert Bau, and Muhammed Yousufuddin, *J. Organomet. Chem.* **2005**, 690, 4376.
- (8) "Neutron Diffraction Study of $OsH_3Cl(PPh_3)_3$: A Complex Containing a Highly Stretched Dihydrogen Ligand" by Muhammed Yousufuddin, Tingbin Wen, Sax A. Mason, Garry J. McIntyre, Guochen Jia, and Robert Bau, *Angew. Chem. Int. Ed.* **2005**, 44, 7227.
- (9) "Blue and Near-UV Phosphorescence from Iridium Complexes with Cyclometalated Pyrazolyl or N-Heterocyclic Carbene Ligands" by Tissa Sajoto, Peter I. Djurovich, Arnold Tamayo, Muhammed Yousufuddin, Robert Bau, Mark E. Thompson, Russell J. Holmes, and Stephen E. Forrest, *Inorg. Chem.* **2005**, 44, 7992.

- (10) "Experimental Evidence for Linear Metal-Azido Coordination: The Binary Group 5 Azides $[Nb(N_3)_5]$, $[Ta(N_3)_5]$, $[Nb(N_3)_6]^-$, and $[Ta(N_3)_6]^-$, and 1:1 Acetonitrile Adducts $[Nb(N_3)(CH_3CN)]$ and $[Ta(N_3)_5(CH_3CN)]$ " by Ralf Haiges, Jerry A. Boatz, Muhammed Yousufuddin, and Karl O. Christe, *Angew. Chem. Int. Ed.* **2006**, 45, 4830.
- (11) "Preparation, Characterization, and Crystal Structures of SO_3NHF^- and $SO_3NF_2^-$ -Anions" by Ralf Haiges, Ross Wagner, Jerry A. Boatz, Muhammed Yousufuddin, Markus Etzkorn, G. K. Surya Prakash, Karl O. Christe, Robert D. Chapman, Mark F. Welker, and Charles B. Kreutzberger, *Angew. Chem. Int. Ed.* **2006**, 45, 5179.
- (12) "Intramolecular Arene Epoxidation by Phosphadioxiranes" by Dong Zhang, Ruomei Gao, Shabana Afzal, Mario Vargas, Shantanu Sharma, Alison McCurdy, Muhammed Yousufuddin, Timothy Stewart, Robert Bau, and Matthias Selke, *Org. Lett.* **2006**, 8, 5125.
- (13) "Syntheses and Structures of Asymmetric Bis(silyl) Niobocene Hydrides" by Konstantin Yu. Dorogov, Muhammed Yousufuddin, Nam-Nhat Ho, Andrei V. Churakov, Lyudmila G. Kuzmina, Arthur J. Schultz, Sax A. Mason, Judith A. K. Howard, Robert Bau and Georgii I. Nikonov, *Inorg. Chem.* **2007**, 46, 147.
- (14) "Monocapped Trigonal-Prismatic Transition-Metal Heptaazides: Synthesis, Properties, and Structures of $[Nb(N_3)_7]_{2-}$ and $[Ta(N_3)_7]_{2-}$ " by Ralf Haiges, Jerry A. Boatz, Muhammed Yousufuddin, and Karl Christe, *Angew. Chem. Int. Ed.* **2007**, 46, 2869.
- (15) "Cyclometallated Iridium and Platinum Complexes with Noninnocent Ligands" by Bhavna Hirani, Jian Li, Peter I. Djurovich, Muhammed Yousufuddin, Jonas Oxgaard, Petter Persson, Scott R. Wilson, Robert Bau, William A. Goddard III, and Mark E. Thompson, *Inorg. Chem.*, **2007**, 46, 3865.
- (16) "Chelation of Vanadium (V) by Difluoromethylene Bisphosphonate, a Structural Analog of Pyrophosphate" by Debbie C. Crans, Alvin A. Holder, Tapan Kumar Saha, G. K. Surya Prakash, Muhammed Yousufuddin, Roman Kultyshev, Rehana Ismail, Myron F. Goodman, James Borden, and Jan Florian, *Inorg. Chem.*, **2007**, 46, 6723.
- (17) "Remediation of the Protein Data Bank Archive" by Kim Henrick, Zukang Feng, Wolfgang Bluhm, Dimitrius Dimitropoulos, Jurgen F. Doreleijers, Shuchismita Dutta, Judith L. Flippin-Anderson, John Ionides, Chisa Kamada, Eugene Krissinel, Cathy Lawson, John L. Markley, Haruki Nakamura, Richard Newman, Yukiko Shimizu, Jawahar Swaminathan, Sameer Valenkar, Jeramia Ory, Eldon L. Ulrich, Wim Vranken, John Westbrook, Reiko Yamashita, Huanwang Yang, Jasmine Young, Muhammed Yousufuddin, and Helen M. Berman, *Nucl. Acids Res.*, **2008**, 36, D426.
- (18) "Neutron Diffraction Studies on 4-Coordinate Hydrogen Atom in an Yttrium Cluster" by Muhammed Yousufuddin, Matthias Gutmann, Oliver Tardif, Jens Baldamus, Zhaomin Hou, Sax A. Mason, Garry J. McIntyre and Robert Bau, *J. Am. Chem. Soc.*, **2008**, 130, 3888.

- (19) "Phosphorescent Platinum Dyads with Cyclometalated Ligands: Synthesis, Characterization and Photophysical Studies" Biwu Ma, Peter I. Djurovich, Muhammed Yousufuddin, Robert Bau, and Mark E. Thompson, *J. Phys. Chem. C*, **2008**, 112, 8022.
- (20) "Crystal Structure of Li₂B₁₂H₁₂: an Intermediate Species in the Decomposition of LiBH₄" by Jae-Hyuk Her, Muhammed Yousufuddin, Wei Zhou, Satish S. Jalasatgi, James G. Kulleck, Jason A. Zan, Son-Jong Hwang, Robert C. Bowman, Jr., and Terrence J. Udovic, *Inorg. Chem.*, **2008**, 47, 9757.
- (21) "Crystal Structure, Inelastic Neutron Studies, and DFT Calculations of Li₂B₁₂H₁₂*4H₂O" by Muhammed Yousufuddin, Jae-Hyuk Her, Wei Zhou, Satish S. Jalasatgi, and Terrence J. Udovic *Inorg. Chim. Acta*, **2009**, 362, 3155.
- (22) "Cyclometalation of 6-Phenyl-2,2'-Bipyridine and Iridium: Synthesis, Characterization, and Reactivity Studies", by Kenneth J. H. Young, Muhammed Yousufuddin, Daniel H. Ess, and Roy A. Periana *Organometallics*, **2009**, 28, 3395.
- (23) "An Approach to the Oxazoline-Containing Fragment of the Oroidin Dimer Nagelamide R" by Sabuj Mukherjee, Rasapalli Sivappa, Muhammed Yousufuddin, and Carl J. Lovely, *SYNLETT*, **2010**, 5, 817.
- (24) "Acceleration of Nucleophilic CH Activation by Strongly Basic Solvents", by Brian G. Hashiguchi, Kenneth J. H. Young, Muhammed Yousufuddin, William A. Goddard, III and Roy A. Periana, *J. Am. Chem. Soc.*, **2010**, 132, 12542.
- (25) "Scorpionates Bearing Nitro Substituents: Mono-, Bis- and Tris-(3-Nitro-Pyrazol-1-yl)Borate Ligands and their Copper(I) Complexes", by Maura Pellei, Grazia Papini, Giancarlo Gioia Lobbia, Simone Ricci, Muhammed Yousufuddin, H. V. Rasika Dias and Carlo Santini, *Dalton Trans.*, **2010**, 39, 8937.
- (26) "Asymmetric Total Synthesis of *ent*-Cycloooroidin", by Sabuj Mukherjee, Rasapalli Sivappa, Muhammed Yousufuddin, and Carl J. Lovely, *Org. Lett.*, **2010**, 12, 4940.
- (27) "Diversity-Oriented Approach to Pyrrole-Imidazole Alkaloid Frameworks", by Manojkumar R. Bhandari, Muhammed Yousufuddin, and Carl J. Lovely, *Org. Lett.*, **2011**, 13, 1382
- (28) "Isolable, Gold Carbonyl Complexes Supported by N-heterocyclic Carbenes", by Chandrakanta Dash, Peter Kroll, Muhammed Yousufuddin, and H. V. Rasika Dias, *Chem. Comm.*, **2011**, 47, 4478.
- (29) "Cationic Gold Carbonyl Complexes on a Phosphine Support", by H. V. Rasika Dias, Chandrakanta Dash, Muhammed Yousufuddin, Mehmet Ali Celik, and Gernot Frenking, *Inorg. Chem.*, **2011**, 50, 4253

- (30) "Silver(I) and Copper(I) Complexes Supported by 1,3,5-Triazapentadienyl Ligands", H. V. Rasika Dias, Jaime A. Flores, Maura Pellei, Barbara Moretti, Giancarlo Gioia Lobbia, Shreeyukta Singh, Yoshiro Kobayashi, Muhammed Yousufuddin, and Carlos Santini, *Dalton Trans.*, **2011**, 40, 8569.
- (31) "Iridium Complexes Bearing a PNP Ligand, Favoring Facile C(sp₃)-H Bond Cleavage", by Kapil S. Lokare, Robert J. Nielsen, Muhammed Yousufuddin, William A. Goddard III, and Roy A. Periana, *Dalton Trans.*, **2011**, 40, 9094.
- (32) "Alkali and Alkaline-earth Metal Dodecahydro-*c*loso-dodecaborates: Probing Structural Variations *via* Neutron Vibrational Spectroscopy", by Nina Verdal, Wei Zhou, Vitalie Stavila, Jae-Hyuk Her, Muhammed Yousufuddin, Taner Yildirim, and Terrence J. Udovic, *J. All. Com.* **2011**, 509S, S694.
- (33) "Crystal Structure of Bis[hydrobis(3-phenylpyrazolyl)(5-phenylpyrazolyl)borate]-zinc(II)" by Muhammed Yousufuddin, Joseph M. Aslan, and Frederick M. Macdonnell, *J. Chem. Cryst.* **2011**, 41, 1763.
- (34) "Acyl Hydrazides as Peptid Sub-monmers" by Bani Kanta Sarma, Muhammed Yousufuddin, and Thomas Kodadek, *Chem. Comm.*, **2011**, 47, 10590.
- (35) "Isolable Tris(alkyne) and Bis(alkyne) Complexes of Gold(I)" by Animesh Das, Chandrakanta Dash, Muhammed Yousufuddin, Mehmet Ali Celik, Gernot Frenking, and H. V. Rasika Dias, *Angew. Chem. Int. Ed.*, **2012**, 51, 3940.
- (36) "Ammosamide D, an Oxidatively Ring Opened Ammosamide Analog from a Marine-derived Streptomyces Variabilis", by Ende Pan, Matthew Jamison, Muhammed Yousufuddin, and John B. MacMillan, *Org. Lett.*, **2012**, 14, 2390.
- (37) "Copper(I) Ethylene Complexes Supported by 1,3,5-Triazapentadienyl Ligands with Electron Withdrawing Groups" by Venkata A. K. Adiraju, Jaime A. Flores, Muhammed Yousufuddin, and H. V. Rasika Dias, *Organomet.*, **2012**, 31, 7926.
- (38) "Synthesis ad Biological Activity of Ester- and Amide-functionalized Imidazolium Salts and Related Water-soluble Coinage Metal N-heterocyclic Carbene Complexes", by Maura Pellei, Valentina Gandin, Marika Marinelli, Cristina Marzano, Muhammed Yousufuddin, H. V. Rasika Dias, and Carlo Santini, *Inorg. Chem.*, **2012**, 51, 9873.
- (39) "Total Synthesis of Kealiinines A-C by Jayanta Das, Panduka Koswatta, J. Daniel Jones, Muhammed Yousufuddin, and Carl J. Lovely, *Org. Lett.*, **2012**, 14, 6210.
- (40) "Isolable, Copper(I) Dicarbonyl Complexes Supported by N-heterocyclic Carbenes" by Chandrakanta Dash, Animesh Das, Muhammed Yousufuddin, and H. V. Rasika Dias, *Inorg. Chem.*, **2013**, 52, 1584.

- (41) "Silver(I) and Copper(I) Adducts of a Tris(pyrazolyl)borate Decorated with Nine Trifluoromethyl Groups", by Naleen B. Jayaratna, Igor I. Gerus, Roman V. Mironets, Pavel K. Mykhailuk, Muhammed Yousufuddin, and H. V. Rasika Dias, *Inorg. Chem.*, **2013**, 52, 1691.
- (42) "Transition-metal Free Direct Arylation: Synthesis of Halogenated 2-Amino-2'-hydroxy-1,1'-biaryls and Mechanism by DFT Calculations", by Hongyin Gao, Daniel H. Ess, Muhammed Yousufuddin, and Laszlo Kurti, *J. Am. Chem. Soc.*, **2013**, 135, 7086 (cover article)
- (43) "Tris(alkyne) and Bis(alkyne) Complexes of Coinage Metals: Synthesis and Characterization of (cyclooctyne)3M⁺ (M = Cu, Ag) and (cyclooctyne)2Au⁺ and Coinage Metal (M = Cu, Ag, Au) Family Group Trends", by Animesh Das, Chandrakanta Dash, Mehmet Ali Celik, Muhammed Yousufuddin, Gernot Frenking, and H. V. Rasika Dias, *Organomet.*, **2013**, 32, 3135. (cover article)
- (44) "Discoipyrroles A-D: Isolation, Structure Determination, and Synthesis of Potent Migration Inhibitors from *Bacillus Hunanensis*" by Youcai Hu, Malia B. Potts, Dominic Colosimo, Mireya L. Herrera-Herrera, Aaron G. Legako, Muhammed Yousufuddin, Michael A. White, and John B. MacMilan, *J. Am. Chem. Soc.*, **2013**, 135, 13387
- (45) "Aerobic, Transition-Metal-Free, Direct, and Regiospecific Mono- α -arylation of Ketones: Synthesis and Mechanism by DFT Calculations" by Qing-Long Xu, Hongyin Gao, Muhammed Yousufuddin, Daniel Ess, and Lazlo Kurti, *J. Am. Chem. Soc.*, **2013**, 135, 14048
- (46) "Gold-Mediated Expulsion of Dinitrogen from Organic Azides", by Chandrakanta Dash, Muhammed Yousufuddin, Thomas R. Cundari, and H. V. Rasika Dias, *J. Am. Chem. Soc.*, **2013**, 135, 15479
- (47) "Silver(I) Complexes of Tris(pyrazolyl)borate Ligands Bearing Six Trifluoromethyl and Three Additional Electron-withdrawing Substituents", by Naleen B. Jayaratna, Daniel B. Pardue, Sriparna Ray, Muhammed Yousufuddin, Krishna G. Thakur, Thomas R. Cundari, and H.V. Rasika Dias, *Dalton Trans.*, **2013**, 42, 15399
- (48) "Direct Aziridination of Olefins: Stereospecific Synthesis of N-H/N-Me Aziridines" by Jawahar L. Jat, Mahesh P. Paudyal, Hongyin Gao, Qing-Long Xu, Muhammed Yousufuddin, Deepa Devarajan, Daniel H. Ess., Laszlo Kurti, and John R. Falck, *Science*, **2014**, 343, 61
- (49) "Rapid Synthesis of Fused N-Heterocycles by Transition-Metal-Free Electrophilic Amination of Arene C-H Bonds", by Hongyin Gao, Qing-Long Xu, Muhammed Yousufuddin, Daniel H. Ess, Laszlo Kurti, *Angew. Chem. Int. Ed.*, **2014**, 53, 2701
- (50) "Total Synthesis of 7'-Desmethylkealiquinone, 4'-Desmethoxykealiquinone, and 2-Deoxykealiquinone", by Heather M. Lima, Rasapalli Sivappa, Muhammed Yousufuddin, and Carl J. Lovely, *J. Org. Chem.*, **2014**, 79, 2481

(51) "Coordination and Ligand Substitution Chemistry of Bis(cyclooctyne)copper(I)" by Animesh Das, Chandrakanta Dash, Muhammed Yousufuddin, And H. V. Rasika Dias, **2014**, *Organomet.*, 33, 1644

(52) "A Mechanistic Change Results in 100 Times Faster CH Functionalization for Ethane versus Methane by a Homogeneous Pt Catalyst" by Michael M. Konnick, Steven M. Bischof, Muhammed Yousufuddin, Brian G. Hashiguchi, Daniel H. Ess, and Roy A. Periana, *J. Am. Chem. Soc.*, **2014**, 136, 10085

(53) "Copper(I), silver(I) and gold(I) complexes of N-heterocyclic carbene-phosphinidene" by Venkata A. K. Adiraju, Muhammed Yousufuddin, and H. V. Rasika Dias **2015**, *Dalton Trans.*, 44, 4449

(54) "Zinc-mediated Carbene Insertion to C-Cl bonds of Chloromethanes and Isolable Zinc (II) Isocyanide Adducts", by Naveen V. Kulkarni, Naleen B. Jayaratna, Muhammed Yousufuddin, and H. V. Rasika Dias, **2015**, *Inorg. Chem.*, 54, 5153

(55) "Preparation and Diels-Alder reactions of 1'-heterosubstituted vinylimidazoles", by Abhisek Ray, Sabuj Mukherjee, Manoj K. Bhandari, Hongwang Du, Muhammed Yousufuddin, and Carl J. Lovely, **2015**, *Tetrahedron Lett.*, 56, 3518

(56) "Studies Towards the *Leucetta*-derived Alkaloids Spirocalcaridine A and B - Possible Biosynthetic Implications", by Panduka B. Koswatta, Jayanta Das, Muhammed Yousufuddin, and Carl J. Lovely, **2015**, *Eur. J. Org. Chem.*, 2603

Book Chapters

(57) "Neutron Diffraction" by Muhammed Yousufuddin and Robert Bau *Application of Physical Methods to Inorganic and Bioinorganic Chemistry*, edited by Robert A. Scott and Charles M. Lukehart. Chichester, UK: John Wiley & Sons, Ltd., **2007**, 271

Invited Papers

(58) "The Syntheses and Structures of Ph₄EN₃ (M = P, As, Sb), an Excellent Example for the Transition from Ionic to Covalent Azides within the Same Main Group" by Ralf Haiges, Thorsten Schroer, Muhammed Yousufuddin, and Karl O. Christe *Zeitschrift für anorganische und allgemeine Chemie*, **2005**, 631, 2691

(59) "Neutron Diffraction Studies on 4-Coordinate Hydrogen Atom in an Yttrium Cluster" by Muhammed Yousufuddin, Zhaomin Hou, Olivier Tardif, Jens Baldamus, Sax A. Mason, Garry J. McIntyre and Robert Bau *Physica B*, **2006**, 385-386, 231

(60) "A Neutron Diffraction Study of Ytterbium(II) Cyclic Organohydroborates" by Kristen Aznavour, Muhammed Yousufuddin, Robert Bau, Garry J. McIntyre, Sax A. Mason, Xuenian Chen, Soyoung Lim, Christine E. Plecnik, Shengming Liu, Bin Du, Edward A. Meyers, and Sheldon G. Shore, *J. Mol. Struct.*, **2008**, 890, 277

(61) "Efficient Preparation of Urocanic Acid Derivatives from Histidine" by Carl J. Lovely, Rasapalli Sivappa, Sabuj Mukherjee, Thomas Doundoulakis, Heather M. Fenton, and Muhammed Yousufuddin, *Heterocys*, **2010**, 80, 1353

(62) "Iridium(III) catalyzed trifluoroacetoxylation of aromatic hydrocarbons", by Steven M. Bischof, Brian G. Hashiguchi, Kapil S. Lokare, Niles Gunsalus, Muhammed Yousufuddin, Roy. A. Periana, **2014**, *RSC Adv.*, 4 35639

**Selected
Conference
Presentations**

- (1) 229 ACS National Meeting, San Diego, CA **2005** (presented oral paper)
- (2) 230 ACS National Meeting, Washington DC **2005** (invited, presented oral paper)
- (3) American Conference on Neutron Scattering, Santa Fe, NM **2008** (presented poster)
- (4) American Crystallographic Association, Chicago, IL **2010** (invited, presented oral paper)
- (5) American Crystallographic Association, New Orleans, LA **2011** (presented oral paper)
- (6) American Crystallographic Association, Honolulu, HI **2013** (presented oral paper)

**Invited
Presentations**

- (1) Center for Neutron Research, Gaithersburg, MD (April 2007)
- (2) American University, Washington DC (June 2008)
- (3) George Washington University, Washington DC (June 2008)
- (4) Georgetown University, Washington DC (July 2008)
- (5) US Borax, Boron, CA (August 2008)
- (6) Carnegie Institute of Washington, Washington DC (October 2008)
- (7) University of Texas at Arlington (October 2008)
- (8) University of Houston-Downtown, Houston, TX (March 2011)
- (9) Texas A&M University-Commerce, Commerce, TX (March 2012)
- (10) Rigaku Americas, Woodlands TX (December 2013)
- (11) ZS Pharma, Coppell, TX (October 2014)
- (12) Dallas County Community College (April 2015)
- (13) University of North Texas at Dallas (April 2015)