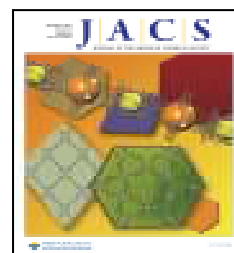




Curriculum Vitae

Jarrold F. Eubank, Ph.D.



Assistant Professor of Chemistry
Department of Chem., Biochem., & Physics
Florida Southern College
111 Lake Hollingsworth Dr., PS215
Lakeland, FL 33801

Metal-Organic Materials Chemistry
h-index: 21, Times Cited: 5400+
E-mail: jeubank@flsouthern.edu
jarrodeubank@hotmail.com
Phone (USA): (813) 454-7349

Education

Ph.D. in Chemistry, University of South Florida
(Cumulative GPA = 4.00/4.00)

B.S. double major in Recombinant Genetics and Chemistry, Western Kentucky University
(Cumulative GPA = 3.77/4.00, Magna Cum Laude)

Professional Experience

2015-present, Florida Southern College (Assistant Professor of Chemistry)

- Institutional Animal Care and Use Committee (IACUC)
- Faculty advisor for American Chemical Society Student Chapter (ACSSC)
- PI, "Metal-Organic Materials for Modern Applications," funded by the Hansen Grant at FSC
- PI, "Light Metal MOFs for Advanced Applications," funded by a grant from the Alcoa Foundation, with support from the Metals Service Center Institute (MSCI), the Materials Research Society (MRS) and The Minerals, Metals and Materials Society (TMS)

2015-present, University of South Florida (Courtesy Faculty Appointment)

2013-2015, Florida Southern College (Visiting Assistant Professor of Chemistry)

2012-2013, King Abdullah University of Science and Technology (Consultant ;
Advanced Membrane and Porous Materials Research Center)

2010-2011, University of Tampa (Adjunct Professor of Chemistry)

2010-2013, University of South Florida (Graduate Supervisor/Post-Doctoral Scholar; Smart Metal-organic Materials Advanced Research and Technology Transfer (SMMARTT) Group)

2008-2010, Centre National de la Recherche Scientifique (Post-Doctoral Fellow; UVSQ, Profs. G. Férey & C. Serre)

2002-2008, University of South Florida (Ph.D.; Prof. M. Eddaoudi)

2001, United States Department of Agriculture (GS-04; APHIS, PPQ)

1999- 2002, Western Kentucky University (Inorganic, Organic, & Genetics Research; Profs. L. Pesterfield, R. Salvatore, & B. Furman)

Publications

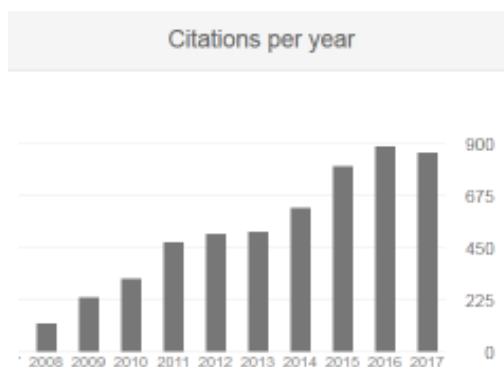
Patents

- J. F. Eubank** and M. Eddaoudi “2-Periodic metal-organic frameworks (MOFs) as supermolecular building layers (SBLs) for making targeted 3-periodic MOFs”, *U.S. Patent* 9,139,599, **2015** (Submitted 2011).
- F. Nouar, **J. F. Eubank**, T. Bousquet, L. Wojtas, M. J. Zaworotko and M. Eddaoudi “Method of making porous metal-organic frameworks”, *U.S. Patent* 8,034,952, **2011** (Submitted 2007).
-

Book Chapters

- M. Eddaoudi and **J. F. Eubank** In *Metal-Organic Frameworks: Design and Application*; L. MacGillivray, Ed.; WILEY-VCH Verlag GmbH & Co. KGaA: Weinheim, 2010; Chapter 2 (pp. 37-90): “Insight into the development of metal-organic materials (MOMs): At zeolite-like metal-organic frameworks (ZMOFs)”. *(Designed front cover)*
- M. Eddaoudi and **J. F. Eubank** In *Organic Nanostructures*; J. L. Atwood and J. W. Steed, Eds.; WILEY-VCH Verlag GmbH & Co. KGaA: Weinheim, 2008; pp. 251-276: “Periodic nanostructures based on metal-organic frameworks (MOFs): En route to zeolite-like metal-organic frameworks (ZMOFs)”.
- M. Eddaoudi, **J. F. Eubank**, Y. Liu, V. Ch. Kravtsov and J. A. Brant In *From Zeolites to Porous MOF Materials: Proceedings of the 15th International Zeolite Conference, Stud. Surf. Sci. Catal*; R. Xu, Z. Gao, J. Chen and W. Yan, Eds.; Elsevier: New York, 2007; pp. 2021-2029: “Zeolites embrace metal-organic frameworks: Building block approach to the design and synthesis of zeolite-like metal-organic frameworks (ZMOFs)”.
-

Articles and Communications (*h-index: 21, over 5400 total citations*)



- M.-S. Kim, J. Perry IV, T. C. M. Julien, E. Marangon, C. Marrouat, **J. F. Eubank**, J. P. Harmon. “Zero-periodic metal-organic material, organic polymer composites:

Tuning properties of methacrylate polymers via dispersion of dodecyloxy-decorated Cu-BDC nanoballs”, *J. Mater. Chem. A* **2015**, *3*, 13215-13225.

-Issue Inside Front Cover

-2015 Journal of Materials Chemistry A Hot Papers

F. Ragon, B. Campo, Q. Yang, C. Martineau, A. D. Wiersum, A. Lago, V. Guillerm, C. Hemsley, **J. F. Eubank**, M. Vishnuvarthan, P. Horcajada, A. Vimont, P. L. Llewellyn, M. Daturi, S. Devautour-Vinot, G. Maurin, C. Serre, T. Devic, G. Clet. “Acid-functionalized UiO-66(Zr) MOFs and their evolution after intra-framework cross-linking: structural features and sorption properties”, *J. Mater. Chem. A* **2015**, *3*, 3294-3309.

M. Eddaoudi, D. F. Sava, **J. F. Eubank**, K. Adil, V. Guillerm. “Zeolite-like metal-organic frameworks (ZMOFs): Design, synthesis, and properties”, *Chem. Soc. Rev.* **2015**, *44*, 228-249.

-Over 250 citations

J. F. Eubank, P. S. Wheatley, S. Wuttke, P. Horcajada, A. Vimont, M. Daturi, A. C. McKinlay, R. E. Morris, C. Serre. “Porous, rigid trivalent-based MOFs for the delivery of nitric oxide”, *APL Materials (Special Topic on Metal-Organic Framework Materials)* **2014**, *2*, 124112.

Y. Belmabkhout, H. Mouttaki, **J. F. Eubank**, V. Guillerm, M. Eddaoudi. “Effect of pendant isophthalic acid moieties on the adsorption properties of light hydrocarbons in HKUST-1-like **tbo**-MOFs: Application to methane purification and storage”, *RSC Adv.*, **2014**, *4*, 63855-63859.

P. A. P. Mendes, A. E. Rodrigues, P. Horcajada, **J. F. Eubank**, T. Devic, C. Serre, J. A. C. Silva. “Separation of hexane isomers on rigid porous metal carboxylate metal-organic frameworks”, *Adsorption Sci. Tech.* **2014**, *32*(6), 475-488.

V. Guillerm, D. Kim, **J. F. Eubank**, R. Luebke, X. Liu, K. Adil, M. S. Lah, M. Eddaoudi. “A supermolecular building approach for the design and construction of metal-organic frameworks”, *Chem. Soc. Rev.* **2014**, *43*, 6141-6172.

-Over 300 citations

T. Pham, K. Forrest, J. Eckert, P. Georgiev, A. Mullen, R. Luebke, A. Cairns, Y. Belmabkhout, **J. F. Eubank**, K. McLaughlin, W. Lohstroh, M. Eddaoudi, B. Space. “Investigating the gas sorption mechanism in an rht-MOF through computational studies”, *J. Phys. Chem. C* **2014**, *118*(1), 439-456.

A. McKinlay, **J. F. Eubank**, S. Wuttke, B. Xiao, P. Wheatley, P. Bazin, J.-C. Lavalley, M. Daturi, A. Vimont, G. De Weireld, P. Horcajada, C. Serre, R. E. Morris. “Nitric oxide adsorption and delivery in flexible MIL-88(Fe) metal-organic frameworks”, *Chem. Mater.* **2013**, *25*(9), 1592-1599.

- J. F. Eubank**, F. Nouar, R. Luebke, A. J. Cairns, L. Wojtas, M. Alkordi, T. Bousquet, M. R. Hight, J. Eckert, J. P. Embs, P. A. Georgiev and M. Eddaoudi "On demand: The singular **rht** net, ideal blueprint for the construction of a metal-organic framework (MOF) Platform", *Angew. Chem. Int. Ed.* **2012**, *124*, 10246–10250.
- R. Luebke, **J. F. Eubank**, A. J. Cairns, Y. Belmabkhout and M. Eddaoudi "The unique **rht**-MOF platform, ideal for pinpointing the functionalization and CO₂ relationship", *Chem. Commun.* **2012**, *48*, 1455-1457.
-Over 100 citations
-Issue Front Cover
-Emerging Investigators 2012
-Recommended by editor as Hot Article
- J. F. Eubank**, L. Wojtas, M. R. Hight, T. Bousquet, V. Ch. Kravtsov and M. Eddaoudi "The next chapter in MOF pillaring strategies: Trigonal heterofunctional ligands to access targeted high-connected three dimensional nets, isorecticular platforms", *J. Am. Chem. Soc.* **2011**, *133*, 17532-17535.
-Over 100 citations
-Issue Front Cover
- J. F. Eubank**, H. Mouttaki, A. J. Cairns, Y. Belmabkhout, L. Wojtas, R. Luebke, M. Alkordi and M. Eddaoudi "The quest for modular nanocages: **tbo**-MOF as an archetype for mutual substitution, functionalization, and expansion of quadrangular pillar building blocks", *J. Am. Chem. Soc.* **2011**, *133*, 14204-14207.
- R. Ananthoji, **J. F. Eubank**, F. Nouar, H. Mouttaki, M. Eddaoudi and J. P. Harmon "Symbiosis of zeolite-like metal-organic frameworks (*rho*-ZMOF) and hydrogels: Composites for controlled drug release", *J. Mater. Chem.* **2011**, *21*, 9587-9594.
- P. Horcajada, T. Chalati, C. Serre, B. Gillet, C. Sebrie, T. Baati, **J. F. Eubank**, D. Heurtaux, P. Clayette, C. Kreuz, J.-S. Chang, Y. K. Hwang, P.-N. Bories, L. Cynober, S. Gil, G. Férey, P. Couvreur and R. Gref "Porous metal-organic framework nanocarriers: A potential platform for drug delivery and imaging", *Nature Mater.* **2010**, *9*, 172-178.
-Over 1700 citations
-Highlighted in Communiqués de Presse, CNRS, <http://www2.cnrs.fr/presse/communiqué/1745.htm>, including my Front Cover design
- D. F. Sava, V. Ch. Kravtsov, J. Eckert, **J. F. Eubank**, F. Nouar and M. Eddaoudi "Exceptional stability and high hydrogen uptake in hydrogen bonded metal-organic cubes (MOCs) possessing ACO and AST zeolite-like topologies", *J. Am. Chem. Soc.* **2009**, *131*, 10394-10396.

- F. Nouar, J. Eckert, **J. F. Eubank**, P. Forster and M. Eddaoudi “Zeolite-like metal-organic frameworks (ZMOFs) as hydrogen storage platform: Lithium and magnesium ion-exchange and H₂-(*rho*-ZMOF) interaction studies”, *J. Am. Chem. Soc.* **2009**, *131*, 2864-2870.
-Over 300 citations
- M. H. Alkordi, Y. Liu, R. Larsen, **J. F. Eubank** and M. Eddaoudi “Zeolite-like metal-organic frameworks (ZMOFs) as platforms for applications: On metalloporphyrin-based catalysts”, *J. Am. Chem. Soc.* **2008**, *130*, 12639-12641.
-Over 500 citations
-Latest News in C&EN, ACS,
<http://pubs.acs.org/isubscribe/journals/cen/86/i37/html/8637notw8.html>
- D. F. Sava, V. Ch. Kravtsov, F. Nouar, L. Wojtas, **J. F. Eubank** and M. Eddaoudi “Quest for zeolite-like metal-organic frameworks (ZMOFs): On pyrimidinecarboxylate bridging ligands”, *J. Am. Chem. Soc.* **2008**, *130*, 3768-3770.
-Over 150 citations
- F. Nouar, **J. F. Eubank**, T. Bousquet, L. Wojtas, M. J. Zaworotko and M. Eddaoudi “Supramolecular building blocks (SBBs) for the design and synthesis of highly porous metal-organic frameworks”, *J. Am. Chem. Soc.* **2008**, *130*, 1833-1835.
-Over 500 citations
- J. F. Eubank**, V. Ch. Kravtsov and M. Eddaoudi “Synthesis of organic photodimeric cage molecules based on cycloaddition via metal-ligand directed assembly”, *J. Am. Chem. Soc.* **2007**, *129*, 5820-5821.
- Y. Liu, **J. F. Eubank**, A. J. Cairns, J. Eckert, V. Ch. Kravtsov, R. Luebke and M. Eddaoudi “Assembly of metal-organic frameworks based on indium trimer building blocks: A novel porous MOF with unprecedented *soc* topology and high hydrogen storage”, *Angew. Chem. Int. Ed.* **2007**, *46*, 1-7.
-Over 500 citations
- J. F. Eubank**, R. D. Walsh, P. Poddar, H. Srikanth, R. W. Larsen and M. Eddaoudi “Metal-organic framework diversity via heterocoordination of a multifunctional ligand: SrAl₂ and an unprecedented topology”, *Cryst. Growth Des.* **2006**, *6*, 1453-1457.
- Y. Liu, V. Ch. Kravtsov, D. A. Beauchamp, **J. F. Eubank** and M. Eddaoudi “4-Connected metal-organic assemblies mediated via heterochelation and bridging of single metal ions: Kagomé lattice and the M₆L₁₂ octahedron”, *J. Am. Chem. Soc.* **2005**, *127*, 7266-7267.

-Over 150 citations

J. F. Eubank, R. D. Walsh and M. Eddaoudi "Terminal co-ligand directed synthesis of a neutral, non-interpenetrated (10,3)-*a* metal-organic framework", *Chem. Commun.* **2005**, 2095-2097.

R. J. Cohen, D. L. Fox, **J. F. Eubank** and R. N. Salvatore "Mild and efficient Cs₂CO₃-promoted synthesis of phosphonates", *Tet. Lett.* **2003**, *44*, 8617-8621.

Press

Featured on *FSC News* **2015**, Florida Southern College,
<http://www.flsouthern.edu/news/kudos/2015/chem-and-comm-pair-up-to-form-an-unexpected-bond.aspx>

Inside Front Cover, *J. Mater. Chem. A* **2015**, *3*, Issue 25, 13098, RSC Publishing,
<http://pubs.rsc.org/en/content/articlelanding/2015/ta/c5ta90136g/unauth#!divAbstract>

Featured in *Vertex*, Faculty Accomplishments **2013-2014**, Florida Southern College

Highlighted in *Inside NMI3 Newsletter* **2013**, Issue 4, p. 11-12, Integrated Infrastructure Initiative for Neutron Scattering and Muon Spectroscopy (NMI3), <http://nmi3.eu/news-and-media/newsletter-.html?back=yes>

Recent scientific SINO (The Swiss Spallation Neutron Source) highlights, Paul Scherrer Institut **2012**, <http://www.psi.ch/sinq/>

Front Page, *the Beacon* **2012**, *2*, Issue 8, KAUST,
http://issuu.com/kaustbeacon/docs/2012_april_beacon/1

Front Cover, *Chem. Commun.* **2012**, *48*, Issue 10, RSC Publishing,
<http://pubs.rsc.org/en/content/articlelanding/2012/cc/c1cc90230j>
(*Emerging Investigators 2012 issue*)

Front Cover, *J. Am. Chem. Soc.* **2011**, *133*, Issue 44, ACS Publications,
<http://pubs.acs.org/action/showLargeCover?jcode=jacsat&vol=133&issue=44>

Front Cover, *Metal-Organic Frameworks: Design and Application*; L. MacGillivray, Ed.; WILEY-VCH Verlag GmbH & Co. KGaA: Weinheim, 2010

Highlighted in *Communiqués de Presse* **2010**, Centre National de la Recherche Scientifique (CNRS), <http://www2.cnrs.fr/presse/communiqué/1745.htm>

Latest News, *Chemical & Engineering News* **2008**, 86, Issue 37, ACS,
<http://pubs.acs.org/subscribe/journals/cen/86/i37/html/8637notw8.html>

Presentations

- “Pillaring classic honeycomb SBL as a method to 3-periodic MOFs” (student poster); 252rd ACS National Meeting; San Francisco, CA, April, 2017.
- “Metal-organic materials for biomedical applications” (student poster); ABRCMS; Tampa, FL, October, 2016.
- “Using metal-organic materials for the synthesis of biomedical compounds” (student poster); ABRCMS; Tampa, FL, October, 2016.
- “Metal-organic materials for biomedical applications” (student poster); Fiat Lux; Lakeland, FL, April 26, 2016.
- “(Metal-ligand)-directed organic synthesis of drug molecules from natural sources” (student poster); 251st ACS National Meeting; San Diego, CA, March 12, 2016.
- “Adventures in chemistry” (oral); Gamma Sigma Epsilon Induction Ceremony; Lakeland, FL, February 10, 2016.
- “MOF-assisted synthesis of bioactive molecules” (student oral); Gulf Coast Undergraduate Symposium (GCURS); Rice University, Houston, TX, October 17, 2015.
- “Energy and biomedical nanostructures” (poster); Florida Annual Meeting and Exposition (FAME); Innisbrook, FL; May 8, 2014.
- “Energy and biomedical nanostructures” (video); Educational Resources for Modern Light Metals, Materials Research Society (MRS) Foundation, 2014; <http://www.modernlightmetals.com/>.
- “Modern drug delivery and biomedical applications: The role of metal-organic materials” (oral); 4th Annual Dr. John L. Spencer Symposium; Florida Southern College, Lakeland, FL, September 19, 2013.
- “Supramolecular building layer (SBL) approach to targeted platform metal-organic frameworks” (oral); 245th ACS National Meeting; New Orleans, LA, April 09, 2013.
- “Metal-organic materials: Strategies toward functional nanoporous materials” (oral); International Symposium on Clusters and Nanostructures (ISCAN), VCU, Richmond, VA, November 10, 2011.

- "Nitrogen-oxygen separation using cation containing MOFs" (poster); 2nd International Conference on Metal-Organic Frameworks and Open Framework Compounds, Marseille, France, 2010.
- "Design and synthesis of metal-organic frameworks based on trinuclear indium-carboxylate molecular building blocks: Square-octahedron (*soc*) topology and high hydrogen uptake" (poster); Workshop on Structure and Properties of Nanomaterials, ICMR, Richards Bay, South Africa, July 30, 2007.
- "Topological depth in metal-organic frameworks via multifunctional three-connected ligands" (oral); 231st ACS National Meeting; Atlanta, GA, March 26, 2006.
- "Zeolite-net-like metal-organic frameworks (ZMOFs): materials for (host-guest)-guest sensing and catalysis" (oral); 3rd International Conference of Africa MRS; Marrakech, Morocco; December 5, 2005.
- "Design and synthesis of zeolite-net-like metal-organic frameworks (ZMOFs): nanoscale materials for (host-guest)-guest sensing and porphyrin-based catalysis" (poster); Florida Inorganic Mini-Symposium (FIMS); University of Florida, Gainesville, FL; September 24, 2005.
- "Dicarboxylate proximity affects steric torsion resulting in diverse metal-organic frameworks" (oral); Florida Annual Meeting and Exposition of the American Chemical Society (FAME); Orlando, FL; May 5, 2005.
- "Design and synthesis of zeolite-net-like metal-organic frameworks (ZMOFs): nanoscale materials for (host-guest)-guest sensing and porphyrin-based catalysis" (poster); Raymond Castle Student Research Conference; USF, Tampa, FL; April 30, 2005.
- "Design and synthesis of zeolite-net-like metal-organic frameworks (ZMOFs): nanoscale materials for (host-guest)-guest sensing and porphyrin-based catalysis" (poster); Inaugural Interdisciplinary Research Symposium, NSF IGERT and NSF Bridge to the Doctorate, USF, Tampa, FL; April 19, 2005.
- "Dicarboxylate proximity affects steric torsion resulting in diverse metal-organic frameworks" (oral); Meeting-in-Miniature, ACS, Tampa Bay Local Section; USF - St. Petersburg, St. Petersburg, FL; April 15, 2005.
- "Metal-organic frameworks: network diversity via isomeric ligands" (oral); SERMACS; Research Triangle Park, Durham, NC; November 13, 2004.
- "A chiral directed metal-organic framework" (poster); FIMS; USF, Tampa, FL; October 30, 2004.

“Design and synthesis of metal-organic frameworks: network diversity via isomeric ligands” (oral); FAME; Orlando, FL; May 6, 2004.

“Assembly of three-connected SBUs into predicted extended metal-organic frameworks” (oral); FIMS; University of Florida, Gainesville, FL; October 25, 2003.

“Assembly of three-connected secondary building units into novel extended metal-organic frameworks” (poster); Raymond Castle Student Research Conference; USF, Tampa, FL; April 19, 2003.

“Resurgence of elk (*Cervus elaphus*) in Kentucky: PCR-based standards for long-term population monitoring and use in law enforcement” (oral); Fourth Annual Western Kentucky University (WKU) Kentucky Biodiversity Conference; WKU, Bowling Green, KY; April 18, 2002.

“Mild and efficient Cs_2CO_3 -promoted synthesis of phosphonates” (poster); Fourth Annual WKU Kentucky Biodiversity Conference; WKU, Bowling Green, KY; April 18, 2002.

Skills

Teaching tools:

- DataStudio, WebAssign, Sapling Learning, Jenzabar, Blackboard, SMART Technologies, TurnItIn, iClickers

Research:

- Expert in coordination polymers and metal-organic materials; design methods, network topology, solid-state synthesis, solvo/hydro thermal synthesis, crystallization, gas sorption (H_2 , CO_2 , CH_4 , etc.)
- Organic ligand synthesis, functionalization, post-synthesis modification
- Microwave, nanoparticle, and scale-up (large scale) synthesis and methods
- Photodimerization, cycloaddition, and single-crystal-to-single-crystal reactions
- Encapsulation, degradation/biodegradation, drug delivery, and controlled-release techniques/applications
- Single-crystal X-ray diffraction, powder X-ray diffraction (PXRD), including air- and water-sensitive samples (resin and sealed capillary methods)
- NMR (including multinuclear techniques, e.g. Co-59), IR (including *in situ* and *in vacuo*), and UV-vis spectroscopies
- Thermogravimetric analysis (TGA), DSC
- Atomic absorption, SEM-EDS
- HPLC, GC, ion exchange, TLC, extraction, flash chromatography
- Inert atmosphere, syringe, and glass blowing, cutting, and sealing techniques
- Experience with *in situ* and *in vacuo* IR spectroscopy at École Nationale Supérieur d'Ingenieurs de Caen (ENSICAEN) in Caen, France

- Experienced user of the BACKscattering Silicon Spectrometer (BASIS) at the SNS at ORNL in Oak Ridge, TN, USA
- Experienced user of the Quasi-Elastic Neutron Spectrometer (QENS) at the Intense Pulsed Neutron Source (IPNS) at Argonne National Lab in Argonne, IL, USA
- Experienced user of the Bending Magnet 1B (BM01B) beamline of the Swiss-Norwegian Beamlines (SNBL) at the European Synchrotron Radiation Facility (ESRF) in Grenoble, France
- Experienced user of the I11 Beamline at the Diamond Light Source synchrotron in South Oxfordshire, United Kingdom
- Cesium catalysts; carbon-phosphorous (C-P) bond formation in the synthesis of organophosphorus compounds
- Microsatellite DNA analysis; molecular biological techniques including DNA isolation (genomic), polymerase chain reaction (PCR) amplifications, gel electrophoresis (e.g., PAGE), ABI Gene Sequencer
- GPS and field mapping
- Software programs; Materials Studio, Mercury, Diamond, OriginLab, IDL, PowderCell, Platon, OLEX, TOPOS, 3dt, SYSTRE, SciFinderScholar, Web of Science, CSD, Crystal Web, ISIS Draw, ChemDraw Ultra, Microsoft Office Suite, Adobe (including Photoshop and Creative Suite), etc.

Languages

English (native, U.S.), French

Committees

Pre-Professional Advisory Committee (FSC), Blake Crosby, 2016
 Pre-Professional Advisory Committee (FSC), Brett Walker, 2016
 Institutional Animal Care and Use Committee (IACUC) (FSC), since 2015
 Faculty Co-Advisor, ACS Student Chapter (FSC), Chemistry, since 2015
 Co-Director, Junior Journey (FSC), Chemistry, 2014
 Ph.D. ORP Committee (USF), Hasnaa Mouttaki, 2012
 Ph.D. ORP Committee (USF), George K. Norton, 2012
 New Horizons in Chemistry II: New Horizons in Molecular Science: Design and Application of Porous Frameworks, International Mini-Symposium, USF, Co-organizer (2011)
 Honors Thesis Committee (USF), Matthew R. Hight, 2008
 Departmental Open House, Department of Chemistry, USF, Organizer (2006)
 Fifth Annual Raymond N. Castle Student Research Conference Committee, Student-led and student organized, USF, Chair (2006)
 Graduate Council, Department of Chemistry, USF, Graduate Student Representative Elect (2005-2008)
 Fourth Annual Raymond N. Castle Student Research Conference Committee, USF, Co-chair (2005)

New Horizons in Chemistry I: Molecular Building Block Approach to Functional Materials International Mini-Symposium, USF, Co-organizer (2004)
Third Annual Raymond N. Castle Student Research Conference Committee, Student-led and student organized, USF, Finance Manager (2003)

Training/Awards/Honors

Excellence in Advising, Professional Development Initiative, FSC, Lakeland, FL, 2016

School on High Resolution Neutron Scattering to Measure Slow Dynamics (MELODY), Oak Ridge National Laboratory, Oak Ridge, TN, 2013

Eighth LANSCE Neutron Scattering School, Los Alamos National Laboratory, Los Alamos, NM, 2011

Theodore and Venette Askounes Ashford Doctoral Fellowship in Chemistry, Department of Chemistry, University of South Florida (USF), 2007. Given annually based on GPA, achievements, progress, good citizenship, and the understanding that the student will be present for one more academic year to serve as an example to others

Provost Certificate of Recognition for Outstanding Teaching by a Graduate Teaching Assistant. Center for 21st Century Teaching Excellence, USF, 2006

Alexiou Award in Environmental Chemistry, Department of Chemistry, USF, 2006. Awarded annually to a deserving graduate student based on GPA and significance of their research to Environmental Chemistry

Graduate Student Representative Elect, Graduate Council, Department of Chemistry, USF, 2005-2008. Council requirements included recruiting, graduate student reviews and selection, departmental faculty hirings, and departmental policies and procedures, as well as student-faculty liaison

First Place (poster), NSF IGERT and NSF Bridge to the Doctorate, Travel Award, Inaugural Interdisciplinary Research Symposium, USF, 2005

First Place (oral), Meeting-in-Miniature, American Chemical Society (ACS), Tampa Bay Local Section, Inorganic Division, USF - St. Petersburg, 2005

The George Bursa Award, Department of Chemistry, USF, 2004. Given annually to a deserving graduate student in Chemistry, who has demonstrated notable professional dedication and consideration for others

Third Place (poster), Third Annual Raymond Castle Student Research Conference, Inorganic Chemistry Division, Department of Chemistry, USF, 2003

USDA, APHIS, PPQ William F. Helms Memorial Scholarship, United States Department of Agriculture (USDA), Animal and Plant Health Inspection Services (APHIS), Plant Protection and Quarantine (PPQ), 2000-2001 *(1 of 31 in the nation)*

Memberships/Service

Member, Gamma Sigma Epsilon (GSE), since 2016
Referee, *J. Water & Health*, since 2015
Referee, *New J. Chem.*, since 2015
Referee, *Org. Chem. Int.*, since 2013
Referee, *J. Mater. Chem.*, since 2013
Referee, *Nanoscale*, since 2013
Referee, *CrystEngComm*, since 2012
Member, National Academy of Inventors (NAI), USF Chapter, since 2011
Member, Neutron Scattering Society of America, since 2011
Referee, *Inorg. Chem.*, since 2010
Referee, *Cryst. Growth Des.*, since 2009
Member, Materials Research Society (MRS), since 2006
Member, American Chemical Society (ACS), since 2003
Charter Member/Co-founder, Ducks Unlimited (WKU chapter), since 2001,
Promotional Manager (2001-2002) *(Teal Flight Award, Ranked in the top 16 college chapters)*
Member, Association of Undergraduate Geneticists (AUG), WKU chapter (2000-2002)
Charter Member/Co-founder, Lambda Alpha Omega (LAO) social organization, WKU, 2000-2002, Treasurer (2000-2001)
Member, Block and Bridle Club, WKU chapter (1999-2001)
Member, Phi Sigma Pi National Honor Fraternity, WKU chapter, Secretary (1999)
Member, Golden Key International Honor Society, since 1999
Member, Campus Crusade for Christ, (1999-2002)

Additional Interests/Activities

Community - American Cancer Society Relay For Life, Susan G. Komen Race for the Cure, Locks of Love
Photography - won several local and state awards
Intramural Sports - Dragon Boat Racing, Basketball, Bowling, Flag Football, Soccer, Softball, Ultimate Frisbee, Volleyball
Outdoors - SCUBA (Open Water Diver, Certified 2008, SSI)
