

ROBERT L. LADUCA, JR., PH. D.

Professor of Chemistry
Department of Chemistry
919 East Shaw Lane
Michigan State University
East Lansing, MI 48825
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EDUCATION:

Postdoctoral Fellow, 1995
Syracuse University; Syracuse, New York
Postdoctoral advisor: Dr. Jon A. Zubieta

Ph. D. 1995, **M.S.** 1991
Cornell University; Ithaca, New York
Thesis title: Mu-imide Heterometallic Complexes and Solid State Nitrides From Homoleptic Metal Amides.
Thesis advisor: Dr. Peter T. Wolczanski

B.S. 1989, *cum laude*
Yale University; New Haven, Connecticut

HONORS AND AWARDS:

2016 Guest Editor for Undergraduate Research Special Issue, *Polyhedron*

2014 Michigan State University College of Natural Sciences Undergraduate Teaching Award

2012 American Chemical Society Division of Inorganic Chemistry Undergraduate Research Preceptor Award. One prize awarded nationally per year.

2011 State of Michigan Distinguished Professor of the Year, awarded by President's Council of the State Universities of Michigan.

2010 Mid-Michigan Alumni Club of MSU Quality in Undergraduate Teaching Award. "In recognition of outstanding undergraduate teaching"; top teaching prize at Michigan State University

TEACHING:

Michigan State University, Lyman Briggs College and Department of Chemistry Professor of Chemistry, 2010-present

Associate Professor of Chemistry, 2004-2010

--**Scientific Communication (LB 492)**

--developed science communication focused senior-level course

--field trips to museums, science centers, planetarium, aquariums, zoos

--**General Chemistry (LB 171/172, CEM 141/142)**

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- significant curricular revision, insertion of organic chemistry unit
- use of frequent chemical demonstrations for illustration of concepts
- heavy use of concept mapping and cooperative learning techniques
- heavy use of in-class CPS and iClicker2 “clicker” technology
- inclusion of individualized online Mastering Chemistry homework
- redesign of recitation sections into problem-solving workshop format
- supervised graduate teaching assistants and undergraduate learning assistants
- consistent superior student and peer evaluations for teaching effectiveness

--Chemical Research with Undergraduate Students

- mentored **60 undergraduate research students** in program towards synthesis of inorganic/organic hybrid solid materials via hydrothermal methods, involving significant organic synthesis projects for ligands (**43 at MSU**)
- four former students now enrolled in graduate programs in Chemistry, seven more have completed Ph.D. degrees in Chemistry
- mentored Eric Shyu (2008) and Peter Kraft (2012), High School students who earned Intel Science Talent Search Finalist status
- mentored Amy Pochodylo (2009-2012), an MSU student who earned a Goldwater Scholarship

Associate Professor of Chemistry, King’s College, 2002-2004

Assistant Professor of Chemistry, King’s College, 1996-2002

- consistent superior student and peer evaluations for teaching effectiveness

--General Chemistry

- use of frequent chemical demonstrations for illustration of concepts
- heavy use of concept mapping and cooperative learning techniques

--Advanced Inorganic Chemistry

- modernized Inorganic Chemistry lecture and laboratory curricula
- included new sections on group theory, organometallic, bioinorganic, and solid state chemistry.

--Organic Chemistry Laboratory

- led sections of introductory organic laboratory, covering synthetic, analytical, and spectral techniques.

--Chemistry of Materials

- developed sections on structure, solid state synthesis, and X-ray diffraction as part of a team taught course

--Astronomy

- developed challenging but accessible course for non-science majors
- incorporated sky simulation software package RedShift 3
- held field observations with reflecting telescope

--Chemical Information Sciences

- responsible for redesign of 1-credit chemical literature course, with a new focus on retrieval of information via Chemical Abstract Online and computer design of chemical graphics

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ADMINISTRATION:

Michigan State University, Lyman Briggs College

Associate Dean for Administration and Academic Governance, 2013–2018

Honors College Faculty Fellow 2014–present

Faculty Senate Steering Committee, 2017–2018, Chair 2018

- supervised laboratory instructional staff and teaching laboratory facilities
- oversaw and participated in job searches for staff and faculty positions
- intensive junior faculty mentoring
- oversaw student evaluation process & accreditation compliance process
- wrote numerous letters of support for faculty promotion and staff awards
- involved in budgetary and advisory aspects of college administration
- LBC representative on inter-college pedagogical grant proposals
- represented Lyman Briggs College at University governance meetings
- Science College representative to Cultural Engagement Council

PEER-REVIEWED PUBLICATIONS:

(undergraduate co-authors in italics)

254 total peer-reviewed articles

207 papers, **47** structure reports

(including **11** featured journal cover articles, **7** invited papers)

Papers

207. *Jack J. Przybyla*, R. L. LaDuca, “Nitrobenzene-detection cadmium thiophenedicarboxylate coordination polymers with flexible dipyritylamide ligands and diverse topologies”, *Inorganica Chimica Acta*, **2019**, 486, 314–323.

206. *Brianna L. Martinez*, R. L. LaDuca, “Diverse Layered Topologies and Magnetic Subunits in Cobalt Cyclohexyldicarboxylate Coordination Polymers with 3-Pyridylnicotinamide Coligands”, *Polyhedron*, **2019**, 157, 276–283.

205. *Gregory A. Farnum*, *Brianna L. Martinez*, *Jodi L. Meyer*, *Sean R. Pumford*, R. L. LaDuca, “Diverse Stacked and Entangled Topologies in Cadmium Tricarballylate Coordination Polymers with Nitrobenzene Detection Capability”, *Inorganica Chimica Acta*, **2019**, 485, 9–19.

204. *Andrew R. LaDuca*, R. L. LaDuca, “Nitroaromatic-detecting cadmium cyclohexyldicarboxylate coordination polymers with bis(4-pyridylmethyl)piperazine coligands and unprecedented 2D and 3D topologies”, *CrystEngComm*, **2018**, 20, 5677–5687. **FEATURED FRONT COVER ARTICLE.**

203. *Sultan R. Qiblawi*, *Celeste R. Czarnecki*, R. L. LaDuca, “A Mixed Valence Copper Coordination Polymer with a New Highly Self-Penetrated Topology”, *Inorganic Chemistry Communications*, **2018**, 95, 61–66.

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202. Zaria I. Contejean, R. L. LaDuca, “Nitroaromatic-detecting zinc and cadmium coordination polymers with methyl-substituted aliphatic dicarboxylate and 4,4'-dipyridylamine ligands and diverse topologies”, *Journal of Solid State Chemistry*, **2018**, 266, 44–53.
201. Alec D. Shrode, R. L. LaDuca, “Diverse Interpenetration Schemes and Topologies in Cobalt Coordination Polymers Constructed from 2-Carboxycinnamic Acid and a Long-spanning Dipyridylpiperazine Ligand”, *Journal of Molecular Structure*, **2018**, 1171, 726–732.
200. Brianna L. Martinez, Alec D. Shrode, R. J. Staples, R. L. LaDuca, “Divergent topologies in luminescent and nitrobenzene-detecting zinc diphenate coordination polymers with flexible dipyridylamide ligands”, *Polyhedron*, **2018**, 151, 369–380.
199. Jack J. Przybyla, R. L. LaDuca, “Control of topology in luminescent nitrobenzene-detecting cadmium camphorate polymers via hydrogen-bonding capable dipyridyl ligands”, *Inorganica Chimica Acta*, **2018**, 479, 10–16.
198. Jamelah Z. Travis, Sean R. Pumford, Brianna L. Martinez, R. L. LaDuca, “Nickel Adamantanedicarboxylate and Adamantanediacetate 2D and 3D Coordination Polymers with Hydrogen-Bonding Capable Dipyridyl Ligands”, *Polyhedron*, **2018**, 142, 25–37.
197. Jack J. Przybyla, R. L. LaDuca, “Control of Chirality and Catenation in Cobalt and Cadmium Camphorate Coordination Complexes”, *CrystEngComm*, **2018**, 20, 280–293. **FEATURED FRONT COVER ARTICLE.**
196. Jamelah Z. Travis, Brianna L. Martinez, R. L. LaDuca, “Structurally Diverse Divalent Metal Adamantanedicarboxylate Coordination Polymers with Hydrogen-bonding Capable Dipyridyl Pillaring Ligands”, *Zeitschrift für Anorganische und Allgemeine Chemie*, **2018**, 644, 33–42. **FEATURED FRONT COVER ARTICLE.**
195. Abigail E. Meyers, R. L. LaDuca. “Auxiliary dipyridylamide ligand control of dimensionality in copper 5-sulfoisophthalate coordination polymers”, *Inorganica Chimica Acta*, **2018**, 471, 595–607.
194. Abigail E. Meyers, Renee K. Randolph, R. L. LaDuca, “Divergent topologies in luminescent zinc and cadmium substituted isophthalate coordination polymers constructed from long-spanning dipyridylamide ligand precursors”, *Inorganica Chimica Acta*, **2017**, 467, 330–342.
193. Brianna L. Martinez, R. L. LaDuca, “Zinc and Cadmium Diphenate Coordination Polymers with Conformationally Flexible Dipyridylamide Ligands”, *Zeitschrift für Anorganische und Allgemeine Chemie*, **2017**, 643, 1118–1125. **FEATURED FRONT COVER ARTICLE**
192. Brian L. Pickwick, Amy L. Pochodylo, R. L. LaDuca, “Luminescent Cadmium 5-Sulfoisophthalate Dipyridylpiperazine Coordination Polymers with Ladder,

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Interpenetrated Binodal Net, or Nanotube-Embedded Layer Topologies”, *Inorganica Chimica Acta*, **2017**, 466, 618–624.

191. *Torél A. Beard, Julie A. Wilson, R. L. LaDuca*, “Cadmium and cobalt oxybis(benzoate) coordination polymers with diverse topologies depending on dipyriddyamide ligands including a new self-penetrated network”, *Inorganica Chimica Acta*, **2017**, 466, 30–38.

190. *Cassi J. LaRose, R. L. LaDuca*, “Luminescent cadmium 1,3-adamantanedicarboxylate coordination polymers with diverse topologies depending on dipyriddyamide ligands”, *Inorganica Chimica Acta*, **2017**, 461, 92–101.

189. *Torél A. Beard, Jamelah Z. Travis, R. L. LaDuca*, “Structurally diverse divalent metal pyromellitate coordination polymers with very long spanning dipyriddyamide ligands”, *Inorganica Chimica Acta*, **2017**, 459, 143–152.

188. *Renee K. Randolph, R. L. LaDuca*, “Substituent dependent layer topologies in copper isophthalate coordination polymers containing long-spanning dipyriddyamide ligands”, *Journal of Molecular Structure*, **2017**, 1135, 67–74.

187. *Brian L. Pickwick, Amy L. Pochodylo, R. L. LaDuca*, “Luminescent Cadmium Coordination Polymers Synthesized from Bis(4-pyridylmethyl)piperazine and Isophthalic Acid Derivatives”, *Inorganica Chimica Acta*, **2017**, 458, 146–162.

186. *Jamelah Z. Travis, Cassi J. LaRose, R. L. LaDuca*, “Control of Dimensionality and Topology in Nickel and Cobalt Coordination Polymers Containing Adamantane-based Dicarboxylate and Long-Spanning Dipyriddy Ligands”, *Inorganica Chimica Acta*, **2017**, 456, 158–170.

185. *Sean R. Pumford, R. L. LaDuca*, “Nitrobenzene-detecting 2D and 3D Cadmium Phenylenediamine Coordination Polymers with *N,N'*-ethylenediaminebis-(isonicotinamide) Auxiliary Ligands”, *Inorganica Chimica Acta*, **2016**, 453, 618–625.

184. *Torél A. Beard, R. L. LaDuca*, “Divergent Topologies in Divalent Metal Furandicarboxylate or Thiophenedicarboxylate Coordination Polymers with Bis(4-pyridylformyl)piperazine Coligands”, *Inorganica Chimica Acta*, **2016**, 453, 470–481.

183. *Sultan H. Qiblawi, R. L. LaDuca*, “Ribbon and Self-Penetrated Hybrid Copper Molybdates with Ancillary Bis(4-pyridylmethyl)piperazine Ligands”, *Zeitschrift für Anorganische und Allgemeine Chemie*, **2016**, 642, 1152–1157.

182. *Alexander D. Sample, R. L. LaDuca*, “Divalent Metal 2,5-Thiophenedicarboxylate Coordination Polymers with the Conformationally Flexible Bis(4-pyridylformyl) homopiperazine Ligand”, *Zeitschrift für Anorganische und Allgemeine Chemie*, **2016**, 642, 966–972. **FEATURED FRONT COVER ARTICLE**

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181. *Charmaine L. White*, R. L. LaDuca, “Nickel Adipate Coordination Polymers with Isomeric Dipyridylamide Ligands: Topological Disorder and Divergent Magnetic Properties”, *CrystEngComm*, **2016**, *18*, 6789–6797. **FEATURED FRONT COVER ARTICLE.**
180. *Cassi J. LaRose*, R. L. LaDuca, “Effect of Pyridyl Donor Disposition and Ligand Flexibility on Dimensionality in Luminescent and Nitrobenzene-detecting Cadmium Adamantanedicarboxylate Coordination Polymers”, *Inorganica Chimica Acta*, **2016**, *451*, 187–196.
179. *Charmaine L. White*, R. L. LaDuca, “Metal Ion Control of Dimensionality and Self-Penetration in Coordination Polymers Containing Furandicarboxylate and Dipyridylamide Ligands”, *Inorganica Chimica Acta*, **2016**, *451*, 171–176.
178. *Alexander D. Sample*, *Megan E. O’Donovan*, R. L. LaDuca, "Effect of Nitrogen Donor Disposition on Topology in Cobalt Isophthalate Coordination Polymers Containing Dipyridylamide Ligands", *Zeitschrift für Anorganische und Allgemeine Chemie*, **2016**, *642*, 785–791.
177. *Megan J. Wudkewych*, R. L. LaDuca, “Metal-Dependent Ribbon and Self-Penetrated Topologies in Nitroaromatic-sensing Zinc and Cadmium Coordination Polymers with Terephthalate and Dipyridylamide Ligands”, *Polyhedron*, **2016**, *114*, 72–79. **INVITED PAPER for UNDERGRADUATE RESEARCH SPECIAL ISSUE**
176. *Jessica E. Mizzi*, R. L. LaDuca, “A Molecular Layer "Fabric" with Orthogonally Woven Coordination Polymer Chains”, *Inorganic Chemistry Communications*, **2016**, *70*, 4–6.
175. *Megan J. Wudkewych*, R. L. LaDuca, “Dipyridylamide Ligand Dependent Dimensionality in Luminescent Zinc 2,4-Pyridinedicarboxylate Coordination Complexes”, *Journal of Molecular Structure*, **2016**, *1120*, 156–162.
174. *Brandon S. Stone*, *Richard J. Staples*, R. L. LaDuca, “Unsubstituted and Substituted Copper Malonate Coordination Polymers with Isomeric Dipyridylamide Ligands: Chain, Layer, Diamondoid, and Self-Penetrated Topologies”, *Inorganica Chimica Acta*, **2016**, *446*, 176–188.
173. *Alexander D. Sample*, R. L. LaDuca “Interleaved and Entangled Divalent Metal Thiophenedicarboxylate Coordination Polymers with an Extremely Long-Spanning and Flexible Dipyridylamide Ligand”, *Inorganica Chimica Acta*, **2016**, *443*, 198–206.
172. *Charmaine L. White*, R. L. LaDuca “Luminescent Cadmium Dimethylsuccinate and Dimethylglutarate Coordination Polymers Self-assembled in the Presence of Flexible Dipyridylamide Ligands with Capability for Nitrobenzene Detection”, *Inorganica Chimica Acta*, **2016**, *441*, 169–180.

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171. M. Servati-Gargari, S. K. Seth, R. L. LaDuca, O. Z. Yesilel, A. Pochodylo, A. Bauzá, B. C. Jana, G. Mahmoudi, T. Arslan, A. Frontera, "Solvent-Controlled construction of manganese(II) complexes with 4-acetylpyridine nicotinoylhydrazone ligand", *Inorganica Chimica Acta*, **2015**, 438, 220–231.
170. Brandon S. Stone, Alexander D. Sample, R. L. LaDuca, "Copper Dimethylmalonate Coordination Polymers with 4,4'-Bipyridine Coligands: Kinetic and Thermodynamic Products with Different Dimensionalities", *Inorganica Chimica Acta*, **2015**, 438, 52–57.
169. Charmaine L. White, Maria D. Torres Salgado, Jessica E. Mizzi, R. L. LaDuca "Divergent Layer Topologies in Divalent Metal Aliphatic Dicarboxylate Coordination Polymers Containing 3-Pyridylmethylnicotinamide", *Journal of Molecular Structure*, **2015**, 1101, 147–154.
168. Ciana M. Rogers, Erika J. Glatz, R. L. LaDuca, "Metal-Dependent Topologies and Water Aggregations in Copper and Nickel Carboxycinnamate Coordination Polymers with a Long-Spanning Dipyridylamide Ligand", *Zeitschrift fur Anorganische und Allgemeine Chemie*, **2015**, 641, 1560–1565.
167. Erika J. Glatz, Ciana M. Rogers, Lestella D. Bell, R. L. LaDuca, "Metal- and Substituent-Dependent Structural Diversity in Cobalt and Nickel Isophthalate Coordination Polymers with Bis(4-pyridylformyl)piperazine Tethers", *Zeitschrift fur Anorganische und Allgemeine Chemie*, **2015**, 641, 1357–1365.
166. Peter E. Kraft, Lucas E. Weingartz, R. L. LaDuca, "Substituent effects in 4-connected zinc isophthalate coordination polymers with a pyridylnicotinamide ligand: from dimer-based layers to ribbons with embedded infinite water molecule chains", *Inorganica Chimica Acta*, **2015**, 432, 283–288.
165. Margaret E. Robinson, Jessica E. Mizzi, R. J. Staples, R. L. LaDuca, "Structural Chemistry and Properties of Metal Oxalates Containing a Long-Spanning Dipyridyl Ligand: Chain, Interpenetrated Diamondoid, Threaded-Loop Layer, and Self-Penetrated Topologies", *Crystal Growth & Design*, **2015**, 15, 2260–2271.
164. Megan E. O'Donovan, Megan J. Wudkewych, R. L. LaDuca, "Substituent-Induced Effects on Dimensionality in Cadmium Isophthalate Coordination Polymers Containing 3-Pyridylisonicotinamide", *Journal of Molecular Structure*, **2015**, 1094, 161–168.
163. Maria D. Torres Salgado, Caitlin J. Bouchey, Julie A. Wilson, R. L. LaDuca, "Cobalt and Nickel Coordination Polymers Containing 3-Pyridylnicotinamide and Five-Membered Ring Dicarboxylates", *Journal of Coordination Chemistry*, **2015**, 68, 2029–2040.
162. Erika J. Glatz, R. L. LaDuca, "Chain, Ladder and Self-Penetrated Cobalt and Nickel Coordination Polymers Containing Sterically Bulky Isophthalate and Long-spanning Dipyridylamide Ligands", *Inorganica Chimica Acta*, **2015**, 428, 65–72.

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161. *Nathan H. Murray, Emily M. Low, Amy L. Pochodylo, R. L. LaDuca*, “Copper aromatic dicarboxylate complexes with a very long conformationally flexible dipyridyl ligand: coordination polymers and a supramolecular nanotube”, *Inorganica Chimica Acta*, **2015**, *48*, 73–82.
160. *Lucas E. Weingartz, Joseph H. Nettleman, Gregory A. Farnum, Richard J. Staples, R. L. LaDuca*, “Divalent Metal Diphenate Dipyridylamine Coordination Polymers: Supramolecular Polytypism and a Rare 5-connected Topology Based on Arc-like Hexanuclear Clusters”, *Polyhedron*, **2015**, *89*, 168-181. **FEATURED COVER ARTICLE**
159. *Jessica E. Mizzi, R. L. LaDuca*, “Temperature-Dependent Polymorphism and Magnetic Properties of Three-Dimensional Copper Pyromellitate Coordination Polymers Containing 4,4'-Dipyridylamine”, *Journal of Solid State Chemistry*, **2015**, *225*, 222–230.
158. *Megan E. O'Donovan, R. L. LaDuca*, “Zinc coordination polymers containing substituted isophthalate ligands and fragments from in situ hydrolysis of 4-pyridylisonicotinamide”, *Journal of Molecular Structure*, **2015**, *1083*, 212–220.
157. *Maria D. Torres Salgado, Lucas E. Weingartz, R. L. LaDuca*, “Diverse topologies in copper aromatic dicarboxylate coordination polymers containing 3-pyridylmethyl-nicotinamide: effect of geometric isomerism and ring substituent”, *Inorganica Chimica Acta*, **2015**, *426*, 202–210.
156. *Emily M. Low, R.L. LaDuca* “Luminescent zinc aliphatic dicarboxylate coordination polymers with bis(4-pyridylmethyl)piperazine: effect of chain length and steric bulk on topology and water molecule aggregation”, *Inorganica Chimica Acta*, **2015**, *425*, 221–232.
155. *Maria D. Torres Salgado, R. L. LaDuca*, “Effect of substituent on dimensionality and properties in divalent metal isophthalate coordination polymers with a conformationally flexible dipyridylamide coligand”, *Journal of Molecular Structure*, **2015**, *1079*, 111–119.
154. *Maria D. Torres Salgado, R.L. LaDuca* “Aliphatic dicarboxylate copper coordination polymers with 3-pyridylmethylnicotinamide: effect of chain length and steric bulk on dimensionality”, *Inorganica Chimica Acta*, **2014**, *423*, 477–488.
153. *Amy L. Pochodylo, Julie A. Wilson, Jacob W. Uebler, Sultan H. Qiblawi, R.L. LaDuca* “Influence of Geometric Isomerism within Dipyridylamide Coligands on Topology of Copper Adipate Coordination Polymers, Including a New Simple Self-Penetrated Network”, *Inorganica Chimica Acta*, **2014**, *423*, 298–306.
152. *Jacob W. Uebler, R. L. LaDuca*, “A Cadmium Oxybisbenzoate/Pyridylnicotinamide Coordination Polymer with a New 8-Connected Self-Penetrated Topology”, *Inorganic Chemistry Communications*, **2014**, *48*, 114–119.

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151. Megan E. O'Donovan, Angela R. Porta, Maria D. Torres Salgado, R. L. LaDuca, "Dipyridylamide Donor Disposition and Isophthalate Substituent Steric Effect on the Dimensionality and Topology of Divalent Copper Coordination Polymers", *Zeitschrift fur Anorganische und Allgemeine Chemie*, **2014**, *640*, 2113–2122. **FEATURED COVER ARTICLE**

150. Henry J. Spies, R. L. LaDuca, "A Substituent Change Exerts a Large Dimensionality and Water Tetramer Morphology Difference in Luminescent Cadmium Succinate Coordination Polymers Containing 3-Pyridylnicotinamide", *Zeitschrift fur Anorganische und Allgemeine Chemie*, **2014**, *640*, 1930–1936.

149. Megan E. O'Donovan, Peter E. Kraft, Jessica E. Mizzi, R. L. LaDuca "Effect of Substituents on Topology and *in situ* Amide Hydrolysis on Cadmium Isophthalate Coordination Polymers Prepared Using a 4-Pyridylnicotinamide Precursor", *Zeitschrift fur Anorganische und Allgemeine Chemie*, **2014**, *640*, 1922–1929.

148. Lucas E. Weingartz, Curtis Y. Wang, R. L. LaDuca, "Metal-dependent dimensionality in divalent metal coordination polymers containing diphenate and bis(4-pyridylformyl)piperazine ligands", *Inorganica Chimica Acta*, **2014**, *421*, 500–506.

147. Brandon S. Stone, R. L. LaDuca, "Steric Effects on the Structure of Copper Malonate Coordination Polymers Containing 1,3-Di(4-pyridyl)propane", *Polyhedron*, **2014**, *81*, 542–549.

146. Jessica E. Mizzi, R. L. LaDuca, "Divalent metal pyromellitate coordination polymers containing bis(4-pyridylformyl)piperazine: selection between simple chain and rare fsc network topologies", *Inorganica Chimica Acta*, **2014**, *421*, 183–190.

145. Nathan H. Murray, R. L. LaDuca, "Layered dipyridylamide coordination polymers from *in situ* lactonization of 2-carboxycinnamic acid", *Inorganica Chimica Acta*, **2014**, *421*, 145–151.

144. Alexander D. Sample, R. L. LaDuca, "Effect of Metal Coordination Environment on Topology of Coordination Polymers Containing 2,5-Thiophenedicarboxylate and Long-Spanning Dipyridine Ligands", *Inorganica Chimica Acta*, **2014**, *421*, 18–25.

143. Megan E. O'Donovan, R. L. LaDuca, "Complementary *In Situ* Reactivity of Isomeric Dipyridylamide Precursors and its Effect on Dimensionality of Cadmium 5-Nitroisophthalate Coordination Polymers", *Journal of Molecular Structure*, **2014**, *1070*, 21–27.

142. Jessica S. Goldsworthy, Amy L. Pochodylo, R. L. LaDuca, "Manganese and cobalt para-benzenedicarboxylate coordination polymers with 3-pyridylisonicotinamide coligands: different layer topologies and a self-penetrated supramolecular network", *Inorganica Chimica Acta*, **2014**, *419*, 26–35.

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141. *Brandon S. Stone*, R. L. LaDuca, “Stacked Ring-like Coordination Complex Molecules Threaded by Infinite Water Tapes”, *Inorganic Chemical Communications*, **2014**, *43*, 56–59.
140. *Jessica S. Goldsworthy*, R. J. Staples, R. L. LaDuca, “Luminescent Zinc Terephthalate Coordination Polymers with Pyridylnicotinamide Ligands: Effect of Added Base and Nitrogen Donor Disposition on Topology”, *Journal of Molecular Structure*, **2014**, *1062*, 116–124.
139. *Sultan H. Qiblawi*, R. L. LaDuca, “Synthesis, Structure, and Magnetic Properties of a Layered Copper Molybdate with 3-Pyridylnicotinamide Coligands”, *Inorganica Chimica Acta*, **2014**, *413*, 115–120.
138. *Jessica E. Mizzi*, R. L. LaDuca, “Structural Chemistry and Magnetic Properties of Copper Pyromellitate Coordination Polymers Containing Pyridylnicotinamide Ligands”, *Inorganica Chimica Acta*, **2014**, *411*, 188–198.
137. *Sultan H. Qiblawi*, R. L. LaDuca, “Control of Water Molecule Aggregations in Copper 1,4-Cyclohexanedicarboxylate Coordination Polymers containing Pyridyl-piperazine Type Ligands”, *Journal of Molecular Structure*, **2014**, *1058*, 163–172.
136. *Peter E. Kraft*, *Jessica E. Mizzi*, R. L. LaDuca, “Divalent Metal Sulfoisophthalate Coordination Polymers with Isomeric Pyridylnicotinamide Coligands”, *Inorganica Chimica Acta*, **2014**, *409*, 449–457.
135. *Chaun M. Gandolfo*, C. Allen, R. L. LaDuca, “A Copper Sulfoisophthalate Dipyridylpropane Coordination Polymer with a New, Simple 4,4,4-connected Trinodal Topology”, *Inorganic Chemistry Communications*, **2013**, *37*, 71–76.
134. *Sultan H. Qiblawi*, R. L. LaDuca, “Divalent Copper *trans*-1,4-Cyclohexanedicarboxylate Coordination Polymers with Isomeric Dipyridylamide Ligands: New Pillared and Self-Penetrated Binodal Networks”, *CrystEngComm*, **2013**, *15*, 8979–8988.
133. *Nathan H. Murray*, *Gregory A. Farnum*, R. L. LaDuca, “Varied Layer Topologies in Luminescent Zinc Coordination Polymers with Flexible Aromatic *ortho*-Dicarboxylate and Dipyridyl Ligands”, *Zeitschrift für Anorganische und Allgemeine Chemie*, **2013**, *639*, 2162–2170.
132. *Sultan H. Qiblawi*, *Laura K. Sposato*, R. L. LaDuca, “Chain, Layer, and Self-Penetrated Copper Dipyridylamine Coordination Polymers with Conformationally Flexible Ring-Based Dicarboxylate Ligands”, *Inorganica Chimica Acta*, **2013**, *407*, 297–305.
131. *Jacob W. Uebler*, *Chaun M. Gandolfo*, R. L. LaDuca, Metal- and Ligand-Dependent Topologies and Chirality in Luminescent Cadmium and Zinc *trans*-Aconitate Coordination Polymers with Bis(pyridylmethyl)piperazine Ligands, *Inorganica Chimica Acta*, **2013**, *407*, 231–238.

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130. *Ciana M. Rogers, Nathan H. Murray, R. M. Supkowski, R. L. LaDuca*, “Cadmium Carboxycinnamate Coordination Polymers with Dimensionality Differences Depending on Dipyridyl Ligand”, *Inorganica Chimica Acta*, **2013**, *407*, 167–174.
129. *Gregory A. Farnum, Nathan H. Murray, R. L. LaDuca*, “Parallel Chain Polyrotaxane, Layer, and Diamondoid Divalent Metal Coordination Polymers Containing *Para* Aromatic Dicarboxylate and Bis(4-pyridylmethyl)piperazine Ligands”, *Inorganica Chimica Acta*, **2013**, *406*, 65–72.
128. *Jacob W. Uebler, Brandon S. Stone, R. L. LaDuca*, “Different Metal Aggregation in Copper Acetate Chain Coordination Polymers with Dipyridyl Tethers Bearing Hydrogen Bonding Capable Functional Groups”, *Zeitschrift fur Anorganische und Allgemeine Chemie*, **2013**, *639*, 1740–1745.
127. *Jacob W. Uebler, Amy L. Pochodylo, R. L. LaDuca*, “Copper Glutarate Coordination Polymers with Dipyridylamide Ligands: Effect of Donor Disposition and Steric Bulk on Structure”, *Inorganica Chimica Acta*, **2013**, *405*, 31–42.
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1. J. Schottenfeld, R. S. Rarig, J. Zubieta, R. L. LaDuca, A non-centrosymmetric one-dimensional coordination polymer: *catena*[[[4,7-phenanthroline-4-ium- κN^7](thiocyanato- κS)copper(I)]-(μ -thiocyanato- $\kappa^2 N:S$)], *Acta Crystallographica*, **2007**, *E63*, m278-m280.

GRANTS AWARDED:

National Science Foundation Research Experiences for Undergraduates (REU) site at Michigan State University: Cross-disciplinary Training in Sustainable Chemistry and Chemical Processes, \$270,000, August 2014–July 2017; \$270,000, August 2019–July 2022.

American Chemical Society Petroleum Research Fund, Type SUMR (Supplemental Under-represented Minority Research Fellowship), \$5,000, for summer 2009.

ROBERT L. LADUCA, JR., PH. D.

American Chemical Society Petroleum Research Fund, Type B Grant, \$64,200, for the period 2008-2011.

Michigan State University College of Natural Sciences Quality Fund Research Opportunity Award, co-PI and author of proposal to institute summer research program for four Lyman Briggs School undergraduates, \$10,000, for summer 2007.

King's College Faculty Development Grants, \$4,000 for summer 2002, \$3,600 for summer 1997

American Chemical Society Petroleum Research Fund, Type B Grant, \$30,000, for the period 2000-2002.

Research Corporation, Cottrell College Science Award, \$32,656, for period 1997-1999.

PRESENTATIONS:

National Meeting, American Chemical Society, "Structure and properties of coordination polymers containing hydrogen-bonding capable and conformationally flexible dipyriddy ligands: An introductory undergraduate research program at Lyman Briggs College at Michigan State University", Philadelphia PA, August 2016

Special Symposium: Small Splash, Big Waves: Research at Principally Undergraduate Institutions. Session chair.

National Meeting, American Chemical Society, "Synthesis and properties of coordination polymers with threaded, interpenetrated, and self-penetrated topologies based on short chain dicarboxylate and hydrogen-bonding capable dipyriddy ligands", San Francisco, California, August 2014, **Coordination Chemistry session chair**

Central Regional Meeting, American Chemical Society, "Divalent metal coordination polymers containing long-spanning dipyriddy piperazine ligands: threaded loops, self-penetrated nets, and other novel topologies", Central Michigan University, Mt. Pleasant, Michigan, May 2013.

42nd Congress of International Union of Pure and Applied Chemistry, Materials Symposium, "Dicarboxylate coordination polymers incorporating kinked or flexible diimines: nanobarrels, highly-connected topologies, and self-penetrated networks", oral and poster presentation, Glasgow, Scotland, August 2009.

Elmhurst College, Department of Chemistry, Elmhurst, IL, "Dicarboxylate coordination polymers incorporating kinked or flexible diimines: nanobarrels, highly-connected topologies, and self-penetrated networks", April 2009.

INVITED LECTURE

Michigan State University, Department of Chemistry, Inorganic Chemistry Colloquium,

ROBERT L. LADUCA, JR., PH. D.

“Dicarboxylate coordination polymers incorporating kinked or flexible diimines: nanobarrels, highly-connected topologies, and self-penetrated networks”, April 2009.

Michigan State University, Faculty Address, Lyman Briggs College Graduation Brunch, May 2008.

Lyman Briggs College, Michigan State University, April 2007, “Coordination Polymers”, research seminar during inaugural LBC Symposium Day.

King’s College, Chemistry Department, Wilkes-Barre, PA, November 2004, “The Effect of Organic Ligand Substructure on the Structure of Hydrothermally Prepared Inorganic/Organic Hybrid Materials.”

Michigan State University, Chemistry Department and Lyman Briggs School of Science, East Lansing, MI, March 2004, “The Effect of Organic Ligand Substructure on the Structure of Hydrothermally Prepared Inorganic/Organic Hybrid Materials.”

Hope College, Chemistry Department Seminar, Holland, MI, March 2003, “The Effect of Organic Ligand Substructure on the Structure of Hydrothermally Prepared Inorganic/Organic Hybrid Materials.”

Project Kaleidoscope, Tucson, AZ, December 2000, with Dr William Shergalis and Dr. Joan Coffin (team presentation). “The Undergraduate Research Experience: Searching for New Knowledge”.

American Chemical Society National Meeting, Washington, DC, August 2000, “Hydrothermal Synthesis and Structure of Metal Oxides and Coordination Polymers Incorporating Asymmetric Bipyridines.” (oral presentation)

American Chemical Society Local Section Meeting, Susquehanna Valley Section, February 2000, “Hydrothermal Synthesis and Structural Characterization of Inorganic/Organic Hybrid Materials.” (oral presentation)

American Chemical Society National Meeting, Anaheim, CA, March 1999, “The Hydrothermal Synthesis, Structure, and Properties of Bimetallic Oxides Incorporating Difunctional Pyridyl Ligands.” (poster presentation)

OFFICES HELD:

-- **Chemistry Day Co-Coordinator**, MSU Local Section of American Chemical Society, 2005-2008

--assisted in organizing and publicizing the annual Chemistry Day at Impression 5 Museum, in celebration of National Chemistry Week

--**Chairman**, Susquehanna Valley Local Section of the American Chemical Society, 2001

ROBERT L. LADUCA, JR., PH. D.

- Faculty Advisor**, King's College Chemical Society, 1996-2004
- oversaw student service projects, arranged field trips

COLLEGE, COMMUNITY AND PROFESSIONAL SERVICE:

-- Peer Reviewer

--*Journal of the American Chemical Society, Chemical Communications, Inorganic Chemistry, Dalton Transactions, European Journal of Inorganic Chemistry, Crystal Growth & Design, CrystEngComm, New Journal of Chemistry, Inorganica Chimica Acta, Polyhedron, Journal of Solid State Chemistry, Journal of Coordination Chemistry, Journal of Inorganic and Organometallic Polymers*

--*American Chemical Society Petroleum Research Fund, National Science Foundation*

-- **International Advisory Board**, *Zeitschrift fur Anorganische und Allgemenie Chemie*, 2015–2018.

-- **Educational Policies Committee**, Lyman Briggs College, 2014–2015, 2017–2019

-- **Steering Committee, At-Large Member**, Lyman Briggs College, 2014–2015, 2017–2019

--**University Committee on Undergraduate Education**, MSU, 2014

--**Military Education Advisory Committee**, MSU, 2014

--**LBC Chemistry/Civil Engineering Tenure-Stream Faculty Search Committee**, 2013-2014, Chair

--**LBC Chemistry Fixed Term Faculty Search Committee**, 2014, Chair

--**Briggs Advisory Council**, 2010-2013; Chair, 2012–13

-- **MSU All-University Traffic and Transportation Committee**, 2009-2011
Chairman, 2010-2011.

--**LBC Reappointment/Tenure/Promotion Rubrics and Directions Ad-hoc Committee**, 2010, Chair

--**Michigan State University “Grandparents’ University”**- “The Joy of Chemistry”- Chemical demonstration exhibitions for grandparents and children, 2006–2014.

--**LBC Chemistry Laboratory Academic Specialist Search Committee**, 2009-2010, Chair

ROBERT L. LADUCA, JR., PH. D.

- MSU College of Natural Sciences Curriculum Committee, 2005-2008**
- LBC SALG Committee, 2008-2009**
 - tasked with developing new Student Evaluation of Learning Gains evaluation instrument
- Chemistry Day Co-Coordinator, MSU Local Section of American Chemical Society, 2005-2008**
 - assisted in organizing and publicizing the annual Chemistry Day at Impression 5 Museum, in celebration of National Chemistry Week
- LBS/STEPPS Faculty Search Committee, 2004-2005**
 - affirmative Action compliance representative
- LBS Environmental History Faculty Search Committee, 2007**
 - affirmative Action compliance representative
- LBS Fixed-Term Chemistry Faculty Search Committee, 2006, Chair**
- Chairman, Susquehanna Valley Local Section of the American Chemical Society, 2001**
- Faculty Advisor, King's College Chemical Society, 1996-2004**
 - oversaw student service projects, arranged field trips
- King's College Information Literacy Committee, 2002-2004**
 - science division representative on college committee meant to enhance and assess information literacy efforts across the curriculum
- King's College Middle States Self-Study Team on Admissions, 2003**
 - compiled and presented information on science student retention and success rates for major accreditation renewal report
- Annual Halloween Show, 1996-2004**
 - performed "Things That Go Boom in the Night!" chemical demonstration exhibition for >300 people from college and surrounding community, geared towards school-age children, 7 years at King's College, 1 year at MSU
- School Outreach, 1996-present**
 - have presented numerous chemical demonstration exhibitions or astronomical talks involving sky simulator software at local elementary schools.
 - 2-3 in-school outreach programs in each semester in Lansing/East Lansing area (2004-2010)

ROBERT L. LADUCA, JR., PH. D.

--Public Astronomy Events, 1996-2004

--have hosted public “viewing parties” on campus during significant astronomical events (solar and lunar eclipses, Comet Hale-Bopp, planetary alignments)

--King’s College Experiencing the Arts Program, 1998-2001

--responsible for booking musical groups who mix contemporary rock styles with classical music, as part of the college’s cultural program.

--King’s College Chemistry Department Building Renovation Committee, 1996

--North East Art Rock Festival 1998-2012

--co-founder and business coordinator of an annual three-day music festival highlighting international and domestic classically-influenced or jazz-influenced rock groups, held at Lehigh University in Bethlehem, PA. Annual budget ~\$250,000 for 501(c)3 not for profit corporation. Festival website: www.nearfest.com.

REFERENCES:

Dr. Elizabeth Simmons
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