

# Pokharel Curriculum Vitae

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## Uttam Raj Pokharel, Ph.D.

College of Sciences and  
Engineering University of  
Houston -Clear Lake  
Houston, TX 77058

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### PROFESSIONAL PREPARATION

Postdoctoral Researcher, Louisiana State University, Baton Rouge, LA	2012 - 2015
Ph. D. in Chemistry, University of Kentucky, Lexington, KY	2007 - 2012
M. Sc. in Organic Chemistry, Tribhuvan University, Kathmandu, Nepal	1996 - 1998

### AWARDS and RECOGNIZATIONS

Presidential Award for Teaching Excellence, Nicholls State University	2023
Academic Award for Teaching Excellence, College of Science and Technology, Nicholls State University	2020
Patent Investigator Award, Louisiana State University	2019
Outstanding Faculty Nominee to Faculty Senate, Nicholls State University, 2018	
Outstanding Teaching Assistant Award, University of Kentucky, 2012	

### TEACHING EXPERIENCE

#### University of Houston – Clear Lake

Associate Professor, August	2024 - Present
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#### Nicholls State University

Associate Professor	2021 - 2024
Assistant Professor	2016 - 2021
Visiting Assistant Professor	2015 - 2016

#### Courses taught:

- General Chemistry II for non-science majors (CHEM 102)
- General Chemistry I for science majors (CHEM 105)
- General, Organic and Biological Chemistry for Nursing (CHEM 109)
- General Chemistry Lab (CHEM 110)
- Organic Chemistry I (CHEM 221)
- Organic Chemistry II (CHEM 222)
- Organic Chemistry Lab (CHEM 226)
- Introduction to Chemical Literature (CHEM 319)
- Intermediate Organic Chemistry (CHEM 327)
- Advanced Organic Chemistry (CHEM 421)
- Research Problems (CHEM 451)
- Advanced Topics in Chemistry, Organometallics (CHEM 490)

#### University of Kentucky

2007 – 2012

Teaching Assistant, Department of Chemistry

### GRANTS

**Pokharel, U. R.** and Siddon, L. “Synthesis and electrochemical studies of  $\alpha$ -ferrocenyl ketones for anions sensing”. Supervised Undergraduate Research Experience (SURE), Louisiana Board of Regents, June 15, 2023 – June 14, 2024. \$5,000.

**Pokharel, U. R.** Gas chromatogram for organic chemistry laboratory”. Nicholls State University (Tech Fee), 2022, \$12,660.

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**Pokharel, U. R.** and Parnell, M. “An approach to extending the  $\pi$ -conjugation in ferrocene.” Supervised Undergraduate Research Experience (SURE), Louisiana Board of Regents, Jan 1, 2022 – Dec 31, 2022, \$5,000.

**Pokharel, U. R.** “Redox-driven single molecular rotor from ferrocene-linked tetradentate ligand.” Research Council, Nicholls State University, July 1, 2020 – June 30, 2021, \$4,900.

**Pokharel, U. R.** and Andras, A. “Understanding the mechanism of cyclization of ferrocenyl keto-carboxylic acids”. Supervised Undergraduate Research Experience (SURE), Louisiana Board of Regents, Jan 1, 2020 – July 31, 2020, \$5,000.

**Pokharel, U. R.** “Activation and fixation of carbon dioxide by metal complexes” Research Council, Nicholls State University, July 1, 2018 – June 30, 2019, \$3,050.

**Pokharel, U. R.**, Lo, G. V., and Dou, Y. “Organometallic polyacenes for organic opto-electronic applications,” Louisiana Board of Regents (Pfund), July 1, 2017 – August 31, 2018, \$21,600.

### PUBLICATIONS

**Pokharel, U. R.**; Curole, B. J.; Andras, A. M.; LeBlanc, B. P.; Fronczek, F. R. Lactonization of  $\alpha$ -Ferrocenyl Ketocarboxylic Acids via Nucleophilic Attack of Carbonyl Oxygen. *Crystals*, **2024**, *14*, 548

**Pokharel, U. R.**; Daigle, D. P.; Naquin, S. D.; Engeron, G. S.; Lo, M. A.; Fronczek, F. R. Synthesis, Crystal Structure, and Electrochemistry of Mono- and Bis-Homoannular Ferrocene Derivatives. *Crystals*, **2024**, *14*, 141

**Pokharel, U. R.**; Naquin, A.; Fronczek, F. Synthesis and crystal structure of a Pd(II) complex of ortho-xylenebis(pyridyltriazole). *IUCr Data*, **2023**, 8

Khamespanah, F.; Marx, M.; Crochet, D.; **Pokharel, U. R.**; Fronczek, F. R.; Maverick, A. W.; Beller, M. Oxalate production via oxidation of ascorbate rather than reduction of carbon dioxide. *Nature Communications* **2021**, *12*, 1997.

**Pokharel, U. R.**; Theriot, J. C.; Fronczek, F. R.; Maverick, A. W. Metallosupramolecular helices constructed from nickel(II) and multidentate “click” triazole ligands. *Polyhedron* **2020**, 191, 114805.

**Pokharel, U. R.**; Naquin, A. P.; Brochon, C. P.; Fronczek, F. R. Synthesis and crystal structure of 1,1'-bis--{[4-(pyridin-2-yl)-1,2,3-triazol-1-yl]meth-yl}ferrocene, and its complexation with Cu<sup>I</sup>. *Acta Crystallographica Section E* **2020**, *76*, 1582 – 1586.

**Pokharel, U. R.**; Bergeron, J. T.; Fronczek, F. R. Synthesis and crystal structures of 2-(ferrocenylcarbonyl)benzoic acid and 3-ferrocenylphthalide. *Acta Crystallographica Section E* **2020**, *76*, 1163 – 1167.

Cherutoi, J. K.; Sandifer, J. D.; **Pokharel, U. R.**; Fronczek, F. R.; Pakhomova, S. and Maverick, M. W. Externally and Internally Functionalized Copper(II)  $\beta$ -Diketonate Molecular Squares. *Inorganic Chemistry* **2015**, *54*, 7791 – 7802.

**Pokharel, U. R.**; Fronczek, F. R. and Maverick, A. W. Reduction of carbon dioxide to oxalate by a binuclear copper complex. *Nature Communications* **2014**, 5

**Pokharel, U. R.**; Fronczek, F. R. and Maverick, A. W. Cyclic pyridyltriazole- Cu(II) dimers as supramolecular hosts. *Dalton Transaction* **2013**, *42*, 14064-14067.

**Pokharel, U. R.**; Selegue, J. P. and Parkin, S. Ruthenocene 1,2-Dicarboxylic Acid, Carboxylic Anhydride, and Acid Chloride: A Facile Route to Metallocene-Fused Acenequinones.” *Organometallics* **2011**, *30*, 3254-3256.

### TECHNICAL SESSION CHAIR

Organometallic Chemistry: Synthesis & Characterization – Late Transition Metals, ACS National Meeting (2018), New Orleans, LA

Inorganic Synthesis, NOBCCHE National Meeting (2014), New Orleans, LA

### REVIEWER

**Burlingham**, *Organic Chemistry*, Oxford University Press

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**Guinn**, *Essentials of General, Organic, and Biochemistry*, W. H. Freeman  
American Chemical Society, Petroleum Research Fund  
Annual Biomedical Research Conference for Minority Students (ABSCMS)

### **INTERNATIONAL PATENT APPLICATION**

Maverick, A. W.; **Pokharel**, U. R. and Fronczek, F. R. (13 October 2014). Metal Complex for Capturing Carbon Dioxide. The United States Patent and Trademark Office. Application number: 15/029,147

### **PRESENTATIONS**

#### **PODIUM**

**Pokharel**, U. R., Siddon, L. Komati, R. (2024). Two-step experiment for undergraduate organic chemistry laboratory using greener techniques: synthesis of acetylferrocene and its reduction to ( $\pm$ )-1-ferrocenylethanol. ACS National Meeting, New Orleans, LA.

**Pokharel**, U. R. (2023). The role of ferrocenyl moiety in lactone formation: Lesson learned from an unsuccessful reaction. Department of Chemistry, Nicholls State University.

**Pokharel**, U. R., LeBlanc, B., Andras, A., Curole, B., Fronczek, F. (2022). Facile lactone formation from ferrocene-bound keto-carboxylic acids. ACS Regional Meeting, Baton Rouge, LA.

**Pokharel**, U. R., LeBlanc, B., Andras, A., Curole, B., Fronczek, F. (2022). Lactone formation from intramolecular nucleophilic acyl substitution in ferrocene bound keto-carboxylic acids. LAS Annual meeting, Virtual.

**Pokharel**, U. R. Andras, A., Curole, B., Fronczek, F. (2021). Lactone formation from ferrocenyl keto-carboxylic acids. ACS National Meeting, Virtual.

Khamespanah, F.; Marx, M.; Crochet, D.; **Pokharel**, U.; Fronczek, F.; Maverick, A.; Beller, M. (2021). "Are Cu(II) oxalate complexes formed by reduction of CO<sub>2</sub> or oxidation of ascorbate?" National Meeting of American Chemical Society 2021, Virtual

**Pokharel**, U. R. (2019). Organometallic Polyacenes for Organic Opto-Electronic Applications. Faculty Expeaux'19, Nicholls State University, Thibodaux, LA.

**Pokharel**, U. R., Bergeron, J., Daigle, D., Selegue, J. P. (2018). Methodologies to extend the pi conjugation in metallocenes. ACS National Meeting, Boston, MA.

**Pokharel** U. R., Bergeron, J., Daigle, D., Selegue, J. P. (2018). Synthetic methodologies for ferrocene-fused acenes. ACS National Meeting, New Orleans, LA.

**Pokharel**, U. R.; Fronczek, F. R. and Maverick, A. W. (2015). Fixation of carbon dioxide to oxalate and carbonate by copper complexes. LAS Annual Meeting, Thibodaux, LA.

**Pokharel**, U. R.; Fronczek, F. R. and Maverick, A. W. (2015). Fixation of carbon dioxide to oxalate and carbonate by copper complexes. ACS National Meeting, Denver, CO.

**Pokharel**, U. R.; Fronczek, F. R. and Maverick, A. W. (2014). Fixation of carbon dioxide to oxalate and carbonate by binuclear copper complexes, NOBCCHE National Meeting, New Orleans, LA.

**Pokharel**, U. R.; Fronczek, F. R. and Maverick, A. W. (2014). Metal complexes for reducing CO<sub>2</sub> and host-guest chemistry. ACS National Meeting, Dallas, TX.

Maverick, A. W.; **Pokharel**, U. R. and Fronczek, F. R.; Casey, J. S.; Elsiddieg, S. O. and Wheat, T. (2014). Redox reactions and host-guest chemistry of macrocyclic metal-organic complexes", ACS National Meeting, Dallas, TX.

**Pokharel**, U. R.; Fronczek, F. R. and Maverick, A. W. (2013). Self-assembly of multidentate "click" ligands with copper(II), ACS National Meeting, New Orleans, LA.

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**Pokharel, U. R.;** Fronczek, F. R. and Maverick, A. W. (2012). Supramolecular structures constructed from Cu(II) or Ni(II) and multidentate click ligands, ACS Southwest Regional Meeting, Baton Rouge, LA.

**Pokharel, U. R.;** Selegue, J. P. and Parkin, S. (2011). Synthetic approaches to acene complexes of ruthenium, manganese, and iron, ACS National Meeting, Denver, CO.

**Pokharel, U. R.;** Selegue, J. P. and Parkin, S. (2011). Synthetic approaches to acene complexes of ruthenium and manganese. ACS National Meeting, Anaheim, CA.

**Pokharel, U. R.** and Selegue, J. P. Synthetic approaches to acene complexes of ruthenium or manganese (2009). Kentucky Academy of Science, Highland Heights, KY.

**Pokharel, U. R.** and Selegue, J. P. Synthetic approaches to acene and heterocycle-fused complexes of ruthenium or manganese (2008). Kentucky Academy of Science, Lexington, KY.

### POSTER

**Pokharel, U. R.,** Siddon, L. Komati, R. (2024). Redesigning two organic chemistry laboratory experiments with a greener approach. Scholar's Expeaux, Nicholls State University, Thibodaux, LA.

**Pokharel, U. R.;** Andras, A.; Curole, B.; Daigle, D.; Fronczek, F. (2021). Facile synthesis of lactones from ferrocene-bound keto-carboxylic acids. Faculty Expeaux, Nicholls State University.

**Pokharel, U. R.,** Bergeron, J., Selegue, J. P. (2019). Extension of  $\pi$ -conjugation of ferrocene, Louisiana Academy of Science (LAS) Annual Meeting, Baton Rouge, LA.

Khamespanah, F., Crochet, D. **Pokharel, U.,** Fronczek, F., Maverick, A. (2019). Reduction of CO<sub>2</sub> to oxalate by a copper(I) complex: Effects of redox mediators. ACS National Meeting, Orlando, FL

**Pokharel, U. R.,** Bergeron, J., Daigle, D., Selegue, J. P. (2018). Methodologies to extend the  $\pi$  conjugation in metallocenes. Sci-Mix Poster Session, ACS National Meeting, Boston, MA.

**Pokharel, U. R.,** Bergeron, J., Daigle, D., Selegue, J. P. (2018). Synthetic methodologies for ferrocene-fused acenes. Expeaux'18, Nicholls State University, LA.

**Pokharel, U. R.,** Bergeron, J., Daigle, D., Selegue, J. P. (2017). Synthetic methodologies for ferrocene-fused acenes for organic electronics, Faculty Expeaux'17, Nicholls State University, Thibodaux, LA.

Wheat, T.; **Pokharel, U.;** Fronczek, F. and Maverick, A. (2015). Chemistry of copper and nickel pyridyltriazole complexes, ACS National Meeting, Denver, CO.

**Pokharel, U. R.;** Fronczek, F. R. and Maverick, A. W. (2014). Copper complexes for fixing carbon dioxide to oxalate and carbonate. Mardigras supramolecular symposium. New Orleans, LA.

Maverick, A. W.; **Pokharel, U. R.** and Fronczek, F. R.; Casey, J. S.; Elsiddieg, S. O. and Wheat, T. (2014). Redox reactions and host-guest chemistry of macrocyclic metal-organic complexes. Sci-Mix, ACS National Meeting, Dallas, TX.

**Pokharel, U. R.;** Fronczek, F. R. and Maverick, A. W. (2013). Chemical reduction of CO<sub>2</sub> to oxalate by copper complexes. Louisiana Organic Chemistry Symposium, Baton Rouge, LA.

**Pokharel, U. R.;** Fronczek, F. R. and Maverick, A. W. (2013). Metallosupramolecular assembly of "click" ligands with copper(II) and their interactions with bidentate guests. ACS National Meeting, Indianapolis, IN.

**Pokharel, U. R.;** Casey, J. S.; Fronczek, F. R.; Russo, P. S., and Maverick, A. W. (2013). Synthesis and properties of supramolecular metal complexes of multidentate  $\beta$ -diketone and "click" triazole ligands. ACS National Meeting, New Orleans, LA.

**Pokharel, U. R.;** Selegue, J. P. and Parkin, S. (2011) Synthesis and characterization of acene-quinone complexes of ruthenium, manganese, and iron. Naff Symposium on Chemistry and Molecular Biology, Lexington, KY.

Selegue, J. P.; **Pokharel, U. P.;** Vinogradov, I.; Maharjan, B. L.; Throug, M. and Perkin, S. (2010). Oligoacenes with terminal cyclopentadienylmetal groups, Pacificchem, Honolulu, HI.

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**Pokharel, U. R.;** Selegue, J. P. and Parkin, S. (2010) Synthetic approaches to acene complexes of ruthenium and manganese, Naff Symposium on Chemistry and Molecular Biology, Lexington, KY.

**Pokharel, U. R.** and Selegue, J. P. (2008). Thiophene or selenophene-fused heterocyclic complexes of ruthenium or manganese. Naff Symposium on Chemistry and Molecular Biology, Lexington, KY.

**Pokharel, U. R.** and Selegue, J. P. (2007). Cationic, thiophene-fused heterocyclic complexes of ruthenium, Ohio Inorganic Weekend, Oxford, OH.

### STUDENTS PRESENTATIONS:

Rodrigue, K.; Parnell, M. and Pokharel, U. (2024). Synthesis of ruthenium(II) complexes for anion binding studies. Scholar's Expeaux, Nicholls State University. **(Selected for Outstanding Undergraduate Research in the Sciences Award)**

Pokharel, S.; Dufrene, C. and Pokharel, U. (2024). Synthesis of ferrocenophanes with hydrazide linker for anion recognition. Scholar's Expeaux, Nicholls State University.

Pokharel, S.; Dufrene, C. and Pokharel, U. (2024). Synthesis of ferrocenophanes with hydrazide linker for anion recognition. LSU Discover Day, Baton Rouge, LA.

Siddon, L. and Pokharel, U. (2024). Synthesis and electrochemical studies of  $\alpha$ -ferrocenyl ketones in the presence of anionic guests. Louisiana Academic Summit, Ruston, LA.

Siddon, L. and Pokharel, U. (2024). Synthesis and electrochemical studies of  $\alpha$ -ferrocenyl ketones in the presence of anionic guests. Scholar's Expeaux, Nicholls State University.

Pokharel, S.; Dufrene, C. and Pokharel, U. (2024). Synthesis of bis-hydrazide ferrocene derivatives for recognition of anions. ACS National Meeting, New Orleans, LA.

Siddon, L.; Guidry, G.; Fronczek, F. and Pokharel, U. (2024). Synthesis, characterization, and electrochemical studies of  $\alpha$ -ferrocenyl ketones towards H-bond donating anions. ACS National Meeting, New Orleans, LA.

Pokharel, S. Display of an exotic molecule named 1,1'-(2-methylhydrazinedicarbonyl)ferrocene. Molecularium, an event organized by the college of Science and Technology to mark 75<sup>th</sup> Anniversary of Nicholls State University. **(Selected for the Sicilian Sophomore Award.)**

Dufrene, C. and Pokharel, U. (2023). Synthesis, characterization, and electrochemical studies of ferrocene-based molecular hosts for anionic guests. Scholar's Expeaux, Nicholls State University.

**(Selected for the Chemistry Faculty Choice Award and Outstanding Honors Research Award)**

Guidry, G. and Pokharel, U. (2023). "Design of metal-organic supramolecular hosts for capturing and releasing of molecular guests. Scholar's Expeaux, Nicholls State University.

Parnell, M. and Pokharel, U. (2023). "Synthesis of ruthenium(II) complexes for anion binding studies". Scholar's Expeaux, Nicholls State University.

Parnell, M. and Pokharel, U. (2022). "An approach to extending the  $\pi$ -conjugation of ferrocene using electron-deficient aromatic backbone". Scholar's Expeaux, Nicholls State University **(Selected for the First Place Award in the undergraduate student poster competition)**

Naquin, S.; Naquin, A.; Engeron, G.; Daigle, D.; Lo, M.; Fronczek, F.; Pokharel, U. (2022). "Synthesis and Characterization of Tetrahydroindenide Complexes of Ferrocene." Scholar's Expeaux, Nicholls State University **(Selected for the Outstanding Honors Research Award)**. The presentation was selected for the University of Louisiana's System Academic Summit.

LeBlanc, B. and Pokharel, U. (2022). "An approach to generate  $\pi$ -extended ferrocene derivatives. Scholar's Expeaux, Nicholls State University **(Selected for the Colonel Chemist Award)**

LeBlanc, B. and Pokharel, U. (2022). "An approach to generate  $\pi$ -extended ferrocene derivatives. LAS Meeting, Virtual.

Naquin, A.; Fronczek, F.; Pokharel, U. (2021). "Synthesis and complexation of ferrocene-bridged tetradentate ligand." ACS National Meeting, Virtual.

Andras, A.; Pokharel, U. (2021). "Synthesis and reactivity of  $\gamma$ - and  $\omega$ -ferrocenylcarboxylic acids." ACS National Meeting, Virtual.

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Andras, A. and Pokharel, U. (2021) “Reactivity of carbonyl group at alpha position of the ferrocenyl moiety.” Scholar’s Expeaux, Nicholls State University (**Selected for Outstanding Honors Research Award**).

Naquin, A.; Fronczek, F. Pokharel, U. (2021). “Metal-Organic Supramolecules with Ferrocene-Linked Tetradentate Ligand.” Scholar’s Expeaux, Nicholls State University (**Selected for Colonel Chemist Award**). The presentation was selected for the University of Louisiana’s System Academic Summit.

LeBlanc, B. and Pokharel, U. (2021) “An approach to generate a  $\pi$ -extended ferrocene and its capture by Diels-Alder cycloaddition.” Scholar’s Expeaux, Nicholls State University.

Naquin, S.; Naquin, A.; Engeron, G.; Daigle, D.; Lo, M.; Fronczek, F.; Pokharel, U. (2021). “Synthesis and characterization of ferrocene derivatives with extended carbocyclic rings.” Scholar’s Expeaux, Nicholls State University (**Selected for Chemistry Faculty Choice Award**). The presentation was selected for the University of Louisiana’s System Academic Summit.

Andras, A., Curole, B., Daigle, D., Pokharel, U. (2020). “Understanding the mechanism of lactone formation in ferrocene-bound keto-carboxylic acids”. Nicholls Expeaux, Thibodaux, LA.

Naquin, S., Naquin, A., Curole, B., Fronczek, F., Pokharel, U. (2020). “Synthesis and spectroscopic characterization of the alpha ferrocenyl carbenium ions”. Nicholls Expeaux, Thibodaux, LA (**Selected for College of Sciences and Technology Award for Outstanding Research in the Sciences and Best poster on a senior project or Honors Thesis Outstanding Honors Research, Phi Kappa Phi**)

Naquin, A., Fronczek, F., Pokharel, U. (2020). “Metal-Organic Supramolecules with Ferrocene-Linked Tetradentate Ligand”. Nicholls Expeaux, Thibodaux, LA. (**Selected for Colonel Chemist Award, College of Sciences and Technology**)

Engeron, G., Pokharel, U. (2020). “Synthetic methodology to extend the  $\pi$ -conjugation in ferrocene”. Nicholls Expeaux, Thibodaux, LA. (**Selected for Chemistry Faculty Choice Award, College of Sciences and Technology**)

Naquin, A., Fronczek, F., Pokharel, U. (2020). “Metal-Organic Supramolecules with Ferrocene-Linked Tetradentate Ligand”. LAS annual meeting, Alexandria, La. (**Awarded for second place in the poster competition in the division of Chemistry/Physics/Earth Science**)

Andras, A., Curole, B., Daigle, D., Pokharel, U. (2020). “Understanding the mechanism of lactone formation in ferrocene-bound keto-carboxylic acids”. LAS annual meeting, Alexandria, La.

Naquin, S., Naquin, A., Curole, B., Fronczek, F., Pokharel, U. (2020). “Synthesis and spectroscopic characterization of the alpha ferrocenyl carbenium ions”. LAS annual meeting, Alexandria, La.

Naquin, A., Brochon, C., Fronczek, F., Pokharel, U. (2019). “Metal-Organic Supramolecules with Ferrocene-Linked Tetradentate Ligands”. ACS Local Meeting, New Orleans, LA (**Selected for the second prize in undergraduate poster competition**)

Curole, B., Pokharel, U. R. Selegue, J. P. (2019). “Synthetic methodologies of metallocene-fused polyacenes”. ACS National Meeting, Orlando, FL

Curole, B., Daigle, D., Pokharel, U. R. (2019). Methodologies to extend  $\pi$ -conjugation of cyclopentadienide of ferrocene to indenide. Expeaux’19, Nicholls State University, Thibodaux, LA

Brochon, C.; Pokharel, U. R. (2019). Copper complexes of ferrocene-linked tetradentate ligand for chemical reduction of carbon dioxide. Expeaux’19, Nicholls State University, Thibodaux, LA.

Engeron, G.; Pokharel, U. R. (2019). Heteroleptic supramolecular complexes from xylylenebis(pyridyltriazole), 2,2’-bipyridine and  $\text{Cu}^{2+}$ . Expeaux’19, Nicholls State University, Thibodaux, LA.

Bergeron, J.; Pokharel U. R., Selegue, J. P. (2019). Formation of ferrocene-fused lactone during Clemmensen reduction. Expeaux’19, Nicholls State University, Thibodaux, LA (**selected for Giannamore Award for the poster session**)

Daigle, D., Bergeron, J., Selegue, J. P., Pokharel U. R., (2018). Extension of  $\pi$ -conjugation of ferrocene for organic semiconducting applications, Expeaux’18, Nicholls State University, Thibodaux, LA (**Selected for Honorable Mention Undergraduate Student Poster**)

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Bergeron, J.; Pokharel U. R., Selegue, J. P. (2018). Synthetic methodologies for organometallic polyacenes. Expeaux'18, Nicholls State University, Thibodaux, LA.

Trosclair, M.; Pokharel, U. R. (2018). Synthesis of binuclear copper complexes for reduction of CO<sub>2</sub> to oxalate. Expeaux'18, Nicholls State University, Thibodaux, LA.

Bergeron, J.; Pokharel U. R., Selegue, J. P. (2018). Synthesis of ferrocene-fused acenes for organic optoelectronic applications, University of Louisiana System's Academic Summit, University of New Orleans, LA (**Selected among top 10 presenters from Nicholls State University**).

Daigle, D., Bergeron, J., Selegue, J. P., Pokharel U. R., (2018). Methodologies of extending  $\pi$ -conjugation in ferrocene, ACS national meeting, New Orleans, LA

Bergeron, J.; Pokharel U. R., Selegue, J. P. (2018). Synthetic methodologies for ferrocene-fused polycyclic aromatic hydrocarbons, ACS National Meeting, New Orleans, LA.

Bergeron, J.; Pokharel U. R., Selegue, J. P. (2018). Synthetic methodologies for ferrocene-fused polycyclic aromatic hydrocarbons, Young Researchers Conference, Xavier University, LA.

Bergeron, J.; Pokharel U. R., Selegue, J. P. (2017). Synthetic methodologies for ferrocene-fused acenes for organic electronics, Expeaux'17, Nicholls State University, Thibodaux, LA.

Daigle, D., Bergeron, J., Selegue, J. P., Pokharel U. R., (2017). Synthetic methodologies for ferrocene-fused acenes for organic electronics, ACS Bayou Chemist & Research Poster Session, Xavier University, New Orleans, LA (**Selected for the second position in competition among undergraduate posters**)

### **CERTIFICATES/APPRECIATIONS**

Five Year Service Award, Nicholls State University, 2020

Student Advising & Mentoring (SAM) Certified Advisor, Nicholls State University, 2019

Event Supervisor (Crime Busters, Div. B), The Louisiana Region I Science Olympiad Tournament, 2015

The Student Choice Award for Frist Responder, Nicholls Chemical Sciences Society (NCSS), 2015

### **WORKSHOP**

Molecular Models, Professional Development, Nicholls State University, 2021

Professional Development, Nicholls State University, Summer 2021

Professional Development, Nicholls State University, Summer 2020

ACS new faculty workshop, Anaheim, CA, 2019.

### **PROFESSIONAL SOCIETIES**

Phi Kappa Phi Honor Society, 2022- present

American Chemical Society, 2011 - present

Kentucky Academy of Science, 2008 – 2012

NOBCCHE, 2014 - 2015

Louisiana Academy of Science, 2015 – 2016, 2018 - 2019

Nepal Chemical Society, Life member

### **INVITED LECTURES**

Central Department of Chemistry, Tribhuvan University, Kathmandu, Nepal (2018)

M.Sc. Research Management Cell, Birendra Multiple Campus, Chitwan Nepal (2017)

Inorganic Division, Department of chemistry, Louisiana State University (2014)

Department of Chemistry, Southeastern University, Hammond, LA (2014)

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### **SERVICE**

#### **Nicholls State University**

Member, Academic Appeal Committee, 2023 - present  
Member, Center for Teaching Excellence Advisory Board, 2020 - present  
Member, University Grievance Committee, 2019 - 2022  
Member, Faculty Search Committee, 2017, 2018, 2022

#### **Department of Chemistry & Physical Sciences, Nichols State University**

Chair, Department Award Committee, 2018 – present  
Chair, Department Curriculum Map Development  
Member, Student Recruitment and Retention Committee, 2016 – present  
NMR operator and trainer: periodic liquid nitrogen and helium charging in 400 MHz JEOL NMR spectrometer.  
In-charge, Organic Chemistry laboratory

#### **Society:**

Judge, Terrebonne Science and Engineering Fair, Houma, LA (2019)  
Event Supervisor, Crime Buster, Science Olympiad, LA (2015 – Present)  
Judge, Annual Region 10 Science Fair, Nicholls State University, LA (2015 – Present)  
Chemistry Test Administrator, South Central District Literary and Speech Rally, LA (2016)  
Subject Expert Chemistry, Science Rocks! Solid Science Fair, Terrebonne Parish main library, Houma, LA (2017 - 2019)  
Volunteer, Super Science Saturday, Baton Rouge, LA (2014)  
Judge, Kenilworth 5<sup>th</sup> Annual Science and Engineering Fair, LA (2013)