

2022 Fall ACS Meeting Trip Report

As travel restrictions slowly lifted earlier this year, I could not hold back my excitement to meet with other scholars from around the world at the ACS 2022 Fall National Meeting. Though I stayed only one afternoon for the meeting, I participated in many outreach opportunities. I presented our research group's work on investigating the local electronic environment of iridium complexes using different methods at the poster session. Throughout the presentation, I not only shared our lab's efforts in identifying defining features when predicting the complexes' characteristics but also learned about many other computational approaches that would assist our project by talking to others. I exchanged words with many professors about how they use computational methods to facilitate chemical property explorations.

One of the professors shared her research lab's effort in probing the chemical property of transitional metal complexes using molecular dynamics. My interest in transitional metal complexes prompted me to discuss the potential and challenges of this practice with her. After learning this information, I was thrilled to launch the new research focus on the simulation of molecular dynamics of iridium complexes after completing the manuscript for our research predicting complexes' spectra characteristics. Additionally, I met with many Ph.D. candidates who examined the electronic structure of complexes through vibronic influences and spin transitions using computational tools. These researchers enlightened me about the myriad possibilities to comprehend the properties of chemicals. Additionally, their captivating stories as graduate students swayed me to continue my expedition to uncover chemistry obstacles using computational power beyond college into graduate school.

Though the trip was quick, I was grateful for the sponsorship from the local ACS branch. I was able to share about the work our group did with chemists around the world. I also got a chance to explore the vast network of ACS and appreciated the guidance by the ACS services.

