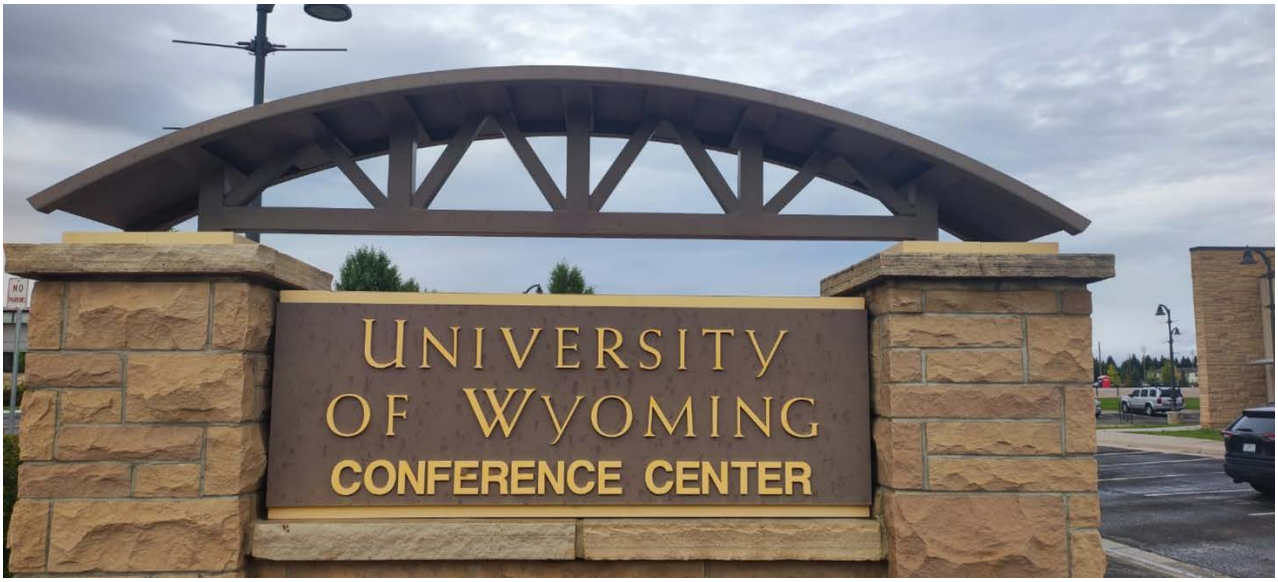
Report on American Chemical Society (ACS) Regional Meeting in Wyoming, USA

Event: ACS Rocky Mountain Regional Meeting (RMRM-2023), Wyoming, USA

Date: September 14, 2023, to September 17, 2023

Location: University of Wyoming, Laramie, Wyoming, USA

Presenter: Santosh U. Sharma (Ph.D. at National Sun Yat-sen University-Taiwan)



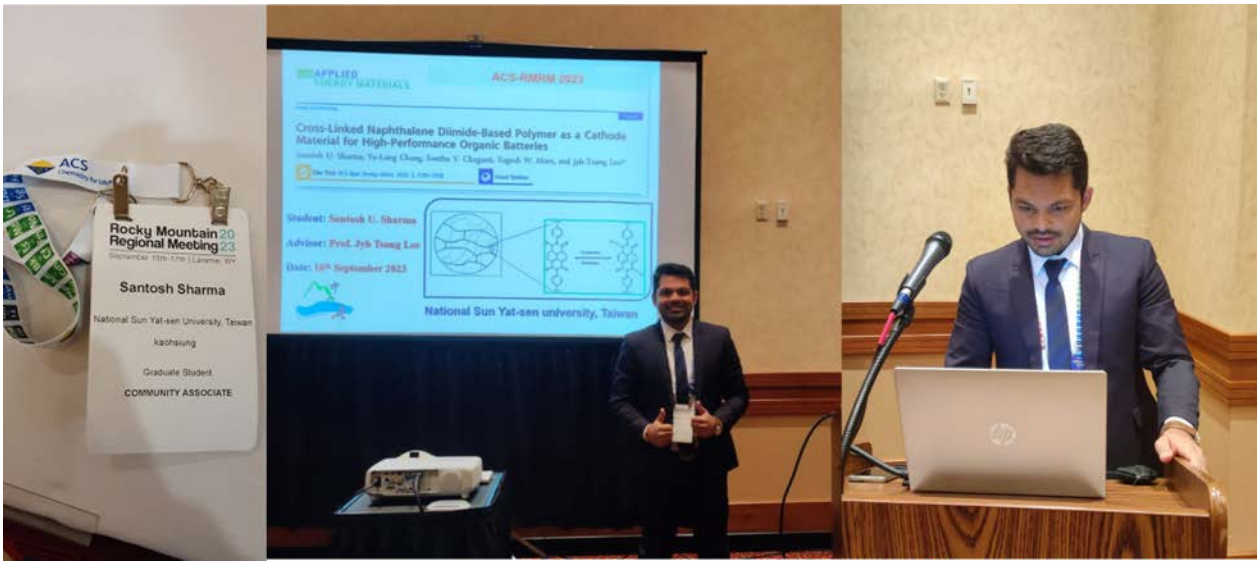
Introduction

It was an extraordinary privilege and a huge opportunity for me to travel to the United States for the very first time, representing NSYSU (National Sun Yat-sen University) in Taiwan. This remarkable journey was made possible through the unwavering support and guidance of my dedicated advisor and our esteemed department. Attending the ACS Regional Meeting in Wyoming was not only a professional milestone but also a profound personal experience that broadened my horizons and enriched my academic pursuits. I am deeply grateful for the trust and encouragement bestowed upon me, which enabled me to engage with the global scientific community and contribute to the exchange of ideas and knowledge on an international stage.

I must express my heartfelt appreciation for the immense assistance and invaluable companionship provided by my coworker, Swetha. Her unwavering support and dedication played an instrumental

role in making this journey to the United States and participation in the ACS Regional Meeting a reality. Swetha's guidance, encouragement, and shared enthusiasm for our research topic not only eased the challenges of travel and conference participation but also fostered a strong sense of camaraderie within our team. Her contributions were truly indispensable, and I am deeply grateful for her commitment to our shared goals and aspirations. Together, we not only represented our institution with pride but also formed a dynamic duo that left a lasting impression on the international stage of scientific collaboration.

The ACS Regional Meeting held at the University of Wyoming in Laramie, Wyoming, USA, from September 14th to September 17th, 2023, was a remarkable gathering of scientists, researchers, and students from across the globe. I had the privilege of attending this conference as a presenter and was delighted to deliver a talk on the vital role of lithium-ion batteries and organic redox molecules as electrodes in the Next Generation Materials session.



Conference Highlights

The ACS Regional Meeting was a significant event that brought together professionals and experts in various fields of chemistry. It provided an excellent platform for knowledge exchange, networking, and collaboration.

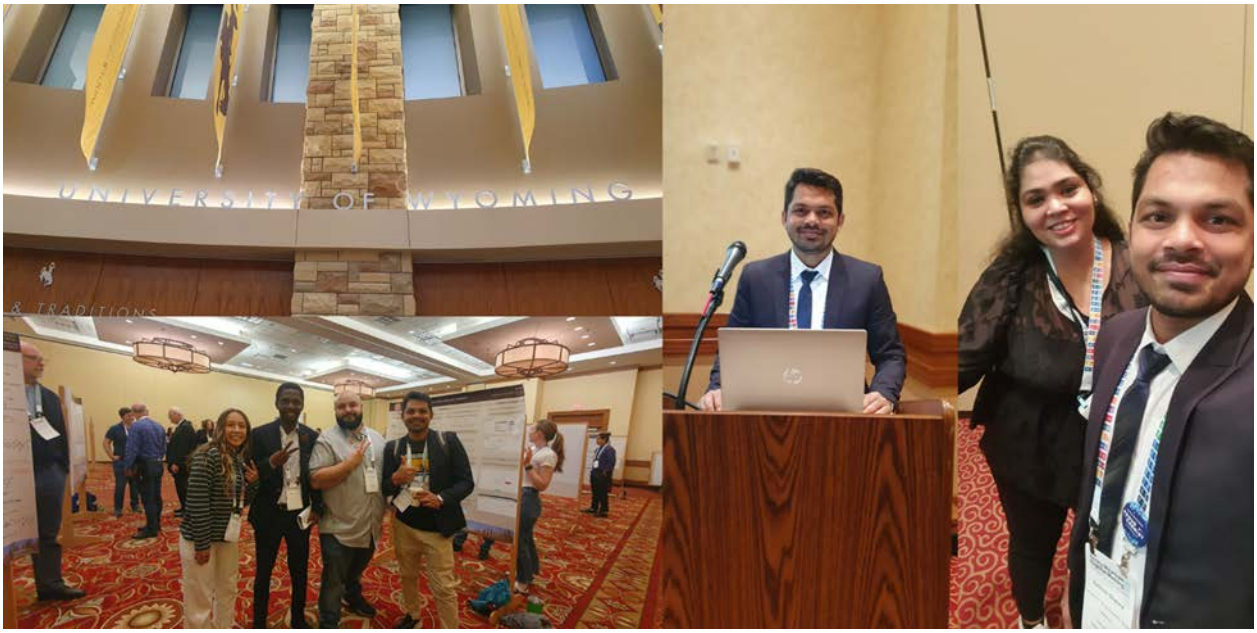
During the conference, I had the opportunity to engage with professors, students, and researchers from different countries, fostering valuable connections and sharing insights into our research. The

collaborative atmosphere was particularly invigorating, and I believe it will lead to exciting future projects and partnerships.

The Importance of Lithium-Ion Batteries and Organic Redox Molecules

In my presentation, I highlighted the pivotal role of lithium-ion batteries (Li-ion) and organic redox molecules as essential components of the rapidly evolving energy storage landscape. Lithium-ion batteries have revolutionized the way we store and use energy, powering everything from portable electronics to electric vehicles. They are critical to the development of sustainable energy solutions. Understanding their chemistry and enhancing their performance is vital for addressing the global energy challenge.

Organic redox molecules, as electrode materials, offer a promising avenue for improving battery efficiency and sustainability. These molecules have shown potential for high energy density and fast charge/discharge rates. Moreover, they are environmentally friendly, making them a sustainable choice for future energy storage.



Conclusion

The ACS Regional Meeting in Wyoming, USA, was an exceptional experience, offering a platform to share knowledge, build connections, and explore innovative research in the field of chemistry.

My presentation on lithium-ion batteries and organic redox molecules underscored the importance of these technologies in shaping the future of energy storage.

The insights gained and relationships established during this conference will undoubtedly have a lasting impact on my research and academic journey. I look forward to future collaborations and opportunities to contribute to the advancement of science and technology in this exciting field.

Lastly, I want to take a moment to express my deepest gratitude once again. None of this would have been possible without the unwavering support and guidance from my advisor, whose mentorship has been invaluable throughout this journey. I am also profoundly thankful to IPPS for affording me this incredible opportunity to attend the conference and present my research. Their belief in my work has been a driving force. Moreover, I extend my appreciation to National Sun Yat-sen University for providing a nurturing environment that encourages academic growth and global exposure. This platform has not only broadened my horizons but has also allowed me to establish connections with brilliant minds from across the world.

Thank You

Santosh U. Sharma