



Michelle L. Mejía



Research Scientist
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Current Position Description:

I am a Research Scientist in the global Surface and Interface Group in the Analytical Sciences department at Dow. I have been a user at APS since 2013 through the Dow/Northwestern/DuPont Collaborate Access Team (DND-CAT) located in sector 5. Dow uses synchrotron technology to advance R&D and manufacturing projects. My work at APS focuses on in-situ x-ray scattering technology including thermal and mechanical techniques to probe mechanisms of energy transfer in materials. I lead the global X-ray Scattering technology team at Dow and also serve as the lead for our global Beamline Sciences team (consisting of ~20 Dow scientists from both Core and Business R&D functions). In addition to x-ray technology, I have a background in high resolution and hybrid microscopy techniques. I am also a member of the DND-CAT board as a Dow representative.

Education and Employment History

2010 – Present	Analytical Sciences, Dow Chemical
2005 – 2010	PhD in Inorganic Chemistry, University of Texas at Austin, Austin, TX
2001 – 2005	BS in Chemistry, Rice University, Houston, TX

Interests:

- X-ray Scattering
- In-Situ X-ray Scattering
- Material Science
- Structure-Property Relationships
- New beamline capability development

Goals/ideas for advocacy for the user community:

My main goal is to advocate for the APS user community and to serve as a liaison between users and APS. By building a stronger relationship between the user community and APS, we can continue to support and push for the continued development of world-class measurement science. As an industry leading materials science representative, I can bring a unique perspective of how industry partners can benefit from APS and we can build relationships between industry and non-industry users. Additionally, I would like to develop avenues for users to interact, collaborate, and share ideas- we can build a digital portal, have symposiums, networking events for users.

Honors and Activities:

- DND-CAT User and Board Member
- Lead of the Diversity and Inclusion initiative within Analytical Sciences in Lake Jackson

- Mentorship of younger scientists
- Board member of Latinas in STEM
- Rice Alumni Volunteer for Admission