

BIO:

Amanda Studinger received her B.S. in Chemistry from Northern Michigan University in 2011. After graduating, she began her professional career as an Operator and Chemist with Sigma Aldrich LLC where she worked on high purity large scale chemical synthesis, purification, and stabilization of inorganic materials to be used in semiconductor, biological, rocket propellant, optical, and polymer applications. She transitioned into Quality Assurance at Cambridge Major Laboratories Inc. and then Koppert Biological Systems. Amanda worked with regulatory agencies to ensure compliance with Phases II, III, and IV active pharmaceutical ingredient production and biological products, designed and implemented quality assurance procedures, and conducted research on nutrition, pathogen detection, and material stability and degradation. Later, Amanda worked as an Environmental Consultant at a coal fired power plant with WE Energies, ensuring environmental compliance with air, water, and waste through compliance monitor testing and certification, reporting, and corrective action management while also assisting with flow accelerated corrosion detection and mitigation. Amanda's professional certifications included HazWoper Incident Commander, Asbestos Inspector and Contractor Supervisor, and Waste Water Management. Amanda joined the Department of Chemistry at Northern Michigan University as an adjunct special instructor before continuing her studies at Michigan Technological University. Amanda is a graduate student at the Department of Chemistry at Michigan Technological University studying theoretical physical chemistry under the direction of Dr. Loredana Valenzano-Slough. Her research is focused on the intermolecular interactions of pharmaceuticals and terahertz spectroscopy of energetic materials.