

Joshua Wiley

“Josh”



Graduate Institution: Purdue University

Location: West Lafayette, IN

Graduate Discipline: Analytical Chemistry

Hometown: Corydon, IN

Research Interests:

As a member of Prof. R. Graham Cooks lab, I am interested in working with various ambient desorption/ionization mass spectrometry techniques which are capable of directly analyzing surfaces in their native environment with little to no sample pre-treatment. Currently, I've been working with a plasma-based technique termed the low-temperature plasma (LTP) probe which is capable of desorbing and ionizing various small-molecule samples from a surface, enabling consequent analysis with mass spectrometry. My interests are centered on better understanding the mechanism by which the desorption and ionization occur with hopes of enhancing the overall performance of LTP-MS analyses as well as attempting various surface modifications with the LTP probe.

About me:

As I finish my second year of graduate school at Purdue University, my current career goals are associated with the near future and my hopes of receiving a PhD. I would like to eventually become a professor at a large university and start a research group of my own, but wouldn't mind spending time in a government lab or possibly industry beforehand. My main academic/professional involvement is with the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) and the American Society for Mass Spectrometry (ASMS), each of which I am a member of and often attend and present at their respective annual conferences. Finally, a few personal interests of mine include outdoor activities and various sports. In particular, I enjoy camping and backpacking as well as fishing, football and basketball (and even though I currently attend Purdue, I am a huge Indiana Hoosier fan where I received my undergraduate degree).



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