

16th Annual Northeast Ohio Undergraduate Research
Symposium

Keynote address:

Finding Solutions within Solutions



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ARA – Advanced Research Associates
(USRA), NASA Glenn Research Center**

Abstract: A brief (and selective) overview of NASA's microgravity colloids program will be shared. This presentation will include an examination of past, present, and planned microgravity colloids research on the International Space Station (ISS). This will highlight work with P&G and Universities in the U.S., Europe, and South Korea, focusing on their science and the techniques used to obtain it.

Biography: Dr. William (Bill) Meyer is a USRA Principal Scientist and Fellow employed at NASA Glenn Research Center. He was initially brought on by NASA to run Advanced Technology Development programs in bulk and surface light scattering. These programs started with a room full of optics, lasers, detectors, and electronics – worked to have them enhanced, miniaturized, and to reduce their power needs and fragility – permitting these types of instruments be used for colloids experiments on the Space Shuttle and on ISS. These microgravity colloids experiments returned several pleasant surprises. Working with NASA HQ he started and plays a significant role in nurturing and growing NASA's colloids program which is flying over a dozen experiments on ISS with science teams from around the world. Bill has organized several international conferences on light scattering whose proceedings were published as special issues of Applied Optics. He has received NASA's Exceptional Technology Achievement Medal and their Exceptional Public Service Metal, along with a Silver Snoopy Award - NASA astronauts' personal award. Bill has an undergraduate degree in philosophy, and a PhD in physics from the University of Amsterdam.

Friday, August 2, 9am, SC 311 (Student Center Ballroom)