Linkedin address:
https://www.linkedin.com/in/jlocklin/

Company link:
https://newmaterials.uga.edu/

Headshot:

Short Bio:

Dr. Jason Locklin obtained his BS from Millsaps College and PhD from the University of Houston. Jason then went on as a Director of Central Intelligence Postdoctoral Scholar at Stanford University where he worked with Dr. Zhenan Bao in the area of flexible electronics. Locklin joined the University of Georgia in the Department of Chemistry and the College of Engineering in 2007 and was promoted to Professor in 2018. He founded the New Materials Institute in 2017 that focuses on green engineering principles and circular materials management.

Locklin has been awarded the Central Intelligence Agency Young Investigator Award, NSF CAREER Award, the Northeast Georgia ACS Chemist of the Year for Research, the Atlanta Magazine Groundbreaker Award, and the College of Engineering Researcher of the Year. He is the Department Head of Chemistry and the Site Director for the National Science Foundation Industry University Collaborative Research Center – The Center for Bioplastics and Biocomposites at UGA, which has over 35 industry partners.

Locklin has published more than 100 papers in polymer science and engineering and has over 20 US patents and applications. He is a member of the National Academy of Inventors. His group is focused on biopolymer production and applications.

Title of Talk:

"Assessing the Biodegradation and Compostability of Flexible Packaging – Collaborations between the New Materials Institute and the Industry Supply Chain"

Abstract:
In this talk, we will highlight our recent projects that involve exploring and implementing design criteria for flexible packaging used in the food contact industry that is high barrier and compostable. Our work is focused on understanding the discrepancy in the biodegradation rates when flexible films are bound together (multilayer) compared to the biodegradation rates of the monomaterials. We are working towards developing the methodology that demonstrates and proves that these multilayer materials will be digested appropriately in *realistic* managed and mismanaged waste scenarios. This requires a collaboration with the entire supply chain, from raw materials suppliers, converters, brands, consumers, and ultimately waste management workers.