Join Us for an Exciting Internship Opportunity Event!

HBCU Clean Energy Education Seminar Series on Solar Energy

Organized in collaboration with the University of Central Florida

Title: Challenges and Opportunities in Perovskite Solar Cells

Date: Friday April 25, 2025

Time: 12:00 PM -1:00 PM EDT
Location: In-Person (Food & Drinks Provided) BCB141, East Campus, Albany State University Join Virtually: **Join the meeting now**

Are you passionate about solar energy and eager to understand more about photovoltaics? Join for an insightful event featuring Dr. Juan-Pablo Correa-Baena who is an Associate Professor and the Goizueta Junior Faculty Chair in the School of Materials Science and Engineering and the School of Chemistry and Biochemistry at the Georgia Institute of Technology as he discusses the crucial technology in photovoltaics.

About this Talk

Perovskite solar cells promise to yield efficiencies beyond 30% by further improving the quality of the materials and devices. Electronic defect passivation and suppression of detrimental charge-carrier recombination at the different device interfaces has been used as a strategy to achieve high performance perovskite solar cells. Through the contributions to better understand 2D and 3D defects, the perovskite solar cell field has been able to improve device performance. However, there is still a need to understand how these defects affect long term structural stability and thus optoelectronic performance over the long term and the role of thin film processing. In this presentation, I will discuss the role of structural defects on optoelectronic properties of lead halide perovskites through synchrotron-based techniques. I will also present an overview of thin film processing for the state-of-the-art of materials that enable solar cell efficiencies of over 26%.

How to Attend:

In-Person Location: Room BCB141, East Campus, Albany State University

Virtual Attendance: Join the meeting now

Join the meeting now

Meeting ID: 249 423 549 220 7

Passcode: cb7LF9AT

This event is open to all students, whether you're studying science, engineering, policy, or just want to learn more about renewable energy careers. Don't miss this opportunity to kickstart your career in the growing field of solar energy!

RSVP to now Dr Zheng liqiu.zheng@asurams.eduand secure your spot at this exciting event! We look forward to seeing you there!