



The Ninth Annual Materials Innovation for Sustainable Agriculture Symposium
University of Central Florida, Live Oak Event Center, 4115 Pyxis Lane, Orlando, FL

Sunday, November 3rd

5:30 pm – 8:00 pm: **Registration (Lobby area)**

Session I: Student Mixer (Live Oak Ballroom)

Moderator: Dr. Jorge Pereira, University of Central Florida, USA

6:00 pm – 6:05 pm: Session Introduction
6:05 pm – 6:35 pm: Mr. Douglas Stuehler, U.S. Horticultural Research Lab, USA
“An introduction to the DOE ORISE program: a launching pad for STEM careers”
6:35 pm – 7:05 pm: Dr. Jason White, The Connecticut Agricultural Experiment Station, USA
“Nano-enabled agriculture: A path to global food security in a changing climate”
7:05 pm – 8:00 pm: Networking dinner
8:00 pm: Day 1 program adjourns

Monday, November 4th

7:30 am – 8:00 am: **Registration (Lobby area)**
Breakfast (Live Oak Ballroom)

Opening Remarks

8:00 am – 8:05 am: Dr. Swadeshmukul Santra, Professor of Chemistry and Director of Materials Innovation for the Sustainable Agriculture (MISA) Center, University of Central Florida, USA
8:05 am – 8:15 am: Dr. Lei Zhai, Professor of Chemistry and Director of NanoScience Technology Center, University of Central Florida, USA

Session II: Agrochemical Formulation for Crop Protection (Live Oak Ballroom)

Moderator: Dr. Swadeshmukul Santra (University of Central Florida, USA)

8:15 am – 8:30 am: Session Introduction
8:30 am – 9:30 am: Dr. Susie Cox, Corteva™ Agriscience, USA
*“**Keynote Lecture 1: Embracing High Throughput Technology to Accelerate Agrochemical R&D**”*
9:30 am – 10:15 am: Dr. Christopher Randles, University of Central Florida, USA
“Formulation Chemistry - The Recipe Building of the Agrochemical Sector”
10:15 am – 11:00 am: Dr. Renato Grillo, São Paulo State University (UNESP), Brazil
“Designing Nano-Enabled Materials for the Controlled Release of Agrochemical”

Session IIIA: Plant Disease Management (Live Oak Ballroom)

Moderator: Dr. Jim Graham (University of Florida, USA)

- 11:00 am – 11:10 pm: Session Introduction
11:10 am – 12:00 pm: Dr. Tamara Wood, Florida Citrus Mutual, USA
*“**Keynote Lecture 2: Planting Today for the Promise of Tomorrow: Looking Toward the Future of a Sustainable Florida Citrus Industry**”*
- 12:00 pm – 1:30 pm: **Lunch Break and Networking (Live Oak Ballroom)**
- 1:30 pm – 2:30 pm: **Student Poster Presentation and Coffee Break (Live Oak Ballroom)**

Session IIIB: Plant Disease Management (Live Oak Ballroom)

Moderator: Dr. Hehe Wang, Clemson University, USA

- 2:30 pm – 2:35 pm: Session Introduction
2:35 pm – 3:10 pm: Dr. Leonardo De La Fuente, Auburn University, USA
*“Challenges to control the xylem-limited bacterial plant pathogen *Xylella fastidiosa*”*
- 3:10 pm – 4:45 pm: Dr. Mahesh Adhikari, University of Florida, USA
“Internal Tomato Seed Disinfection by Vacuum Infiltration Approach using Engineered Nanomaterials Against Bacterial Spot of Tomato”
- 4:45 pm – 5:20 pm: Dr. Quan Zeng, The Connecticut Agricultural Experiment Station, USA
“Nano-enabled control of fire blight, a devastating bacterial disease of apple”

Session IV: Advanced Engineering Technologies for Plant Systems (Live Oak Ballroom)

Moderator: Dr. Yunjun Xu, University of Central Florida, USA

- 5:20 pm – 5:25 pm: Session Introduction
5:25 pm – 6:00 pm: Mr. Chandler Griffin, iSENSYS, USA
“Automation in Agriculture”
- 6:00 pm – 8:00 pm: **Dinner and Networking (Live Oak Ballroom)**
8:00 pm: **Symposium Adjourns**