

2013 Walter and Helen Parke Loomis Distinguished Lecture and Plant Biology Mini Symposium

Theme: Plant Imaging and Modeling

Date: April 11 & 12 (Thursday and Friday), 2013

Venue: 175-179 Scheman Building, Iowa State University

Organizers: Diane Bassham (chair), Yanhai Yin, Ning Fang, Javier Vela, Robert Jernigan, Julie Dickerson, and Brice Floyd (IPB student)



Walter and Helen Parke Loomis Distinguished Lecture in Plant Biology (7:30 pm, Thursday, April 11, 2013)

Patrick J Hussey, Professor

University of Durham, United Kingdom

Title: *The Plant Cytoskeleton: structure, function and biotechnology*

Plant Biology Mini-Symposium Speakers

(9:00-5:30 pm, Friday, April 12, 2013)

- 9:00 am Hedi Mattoussi, Florida State University
Biocompatible nanocrystals and clusters as tunable platforms for sensing and imaging
- 9:50 am Zan Luthey-Schulten, University of Illinois at Urbana-Champaign
Whole Cell Simulations
- 10:40 am Coffee break
- 11:00 am Short talks by Iowa State University faculty (20 min each)
Eve Wurtele: *Meta!Blast : Where in the cell is Dr. Clara Phylton?*
Javier Vela: *Surface Doping Quantum Dots with Chemically-Active Native Ligands: Controlling Valence without Ligand Exchange.*
Ning Fang: *Three-Dimensional High-Precision Tracking of Nanoparticle Probes*
- 12 pm Lunch break
- 1:30 pm Dr. Marisa Otegui, University of Wisconsin, Madison
Structure and function of multivesicular bodies in plant cells
- 2:20 pm Dr Jenny Russinova, University of Ghent, Belgium
Tracking endocytosis and signaling of BRI1
- 3:10 pm Coffee break
- 3:30 pm Patrick J Hussey, University of Durham, United Kingdom
Modeling Cytokinesis
- 4:20 pm David Ehrhardt, Carnegie Institution for Science
Spying on the inner life of plant cells: visualizing and measuring the behaviors of molecules driving cell morphogenesis