

**UF** | UNIVERSITY *of*  
**FLORIDA**

*The Foundation for The Gator Nation*

# Energy Activity At UF

Summary prepared by

**Sean Meyn**

Director Florida Institute  
for Sustainable Energy



Sean Meyn recently became director of the  
**Florida Institute for Sustainable Energy**

*The institute aims to foster fundamental research on topics related to energy, and to educate the public regarding energy and environmental technologies. The institute also informs policy makers on urgent, global issues of sustainable energy.*

My personal interests are at the macro level – grid level control, renewable integration, and policy issues.

As director I hope to create communication among energy faculty at the University of Florida.



# Small Sample of Activity and impact of FESC funding

## **Biofuels**

\$20 million center launched in Perry FL by Dr. Lonnie Ingram and team

- Edward Philips, Fisheries & Aquatic Sciences

*Optimization of Algae Species*

- Gary Peter, Forest Genomics and Cell Biology

*Energy Intensive Crop Development (Loblolly pines)*

- Lynn Sollenberger, Professor and Associate Chair Agronomy

- Pratap Pullammanappallil, Agricultural and Biological Eng.

*Leads \$125 million U.S. – India Energy Project*



# Small Sample of Activity and impact of FESC funding

## Solar

- Helena Hagelin-Weaver, Chemical Eng. *Catalyst Development for Renewable Hydrogen*
- James Klausner, MAE, *Solar Fuels for Thermochemical Cycles at Low Pressures*
- David Hahn, MAE, *Solar Thermal Power for Bulk Power and Distributed Generation*

## Carbon Capture

- Sabine Grunwald, Soil & Water Science and Tim Martin, Forest Resources and Conservation
- Jon Stewart, Chemistry



# Small Sample of Activity and impact of FESC funding

## Efficiency and Demand Response

- Prabir Barooah, MAE, Control systems for automated commissioning of buildings
- Sean Meyn, ECE, Automated demand response to regulate the grid (with PB), and markets/policy

## Policy

- David Sappington, Lanzillotti-McKethan Eminent Scholar Chair, Business Admin.
- Mark Jamison and Ted Kury , *Public Utility Research Center (PURC)*, <http://www.cba.ufl.edu/purc/> – *Markets and Policy*

## A few stars are on leave:

- Jim Klausner program director at ARPA-E
- Pramod Khargonekar heads Engineering Directorate at NSF



# 2nd Interdisciplinary Workshop on Smart Grid Design & Implementation

[ccc.centers.ufl.edu/?q=SG2014](http://ccc.centers.ufl.edu/?q=SG2014)

March 28 - 29, 2014

## Participants:

### Academia

- Janusz Bialek - Durham
- Jean-Yves Le Boudec -
- Luciano de Castro - No
- Chris Dent - Durham Ur
- Ian Hiskens - Michigan
- John Ledyard - CalTect
- Shie Mannor - Technior
- Karl McDermott - UIS
- Michael Pollitt - Cambri
- Uday Shanbhag - Penn
- Yves Smeers - Louvain

### Industry

- Xavier Brossat - EDF Paris
- Buck Martinez - FPL
- John D. McDonald - GE Energy Management
- Tariq Samad - Honeywell
- Raiford Smith - Duke Energy
- Jeff Taft - @Scale Systems Group



Co-organized by Sean Meyn & David Sappington (UF), Paul de Martini (NCG)