

# HBCU/UCR Joint Kickoff Meeting

## Final Agenda

### Day 1: Tuesday, October 28

- 9:00 AM - 9:15 AM Welcome and Introductory Remarks
- 9:15 AM - 10:15 AM *Development of Reduced Order Model for Reacting Gas-Solids Flow using Proper Orthogonal Decomposition*  
PI: Seckin Gokaltun, Florida International University
- 10:15 AM - 10:25 AM Break
- 10:25 AM - 11:25 AM *Vertically Aligned Carbon-Nanotubes Embedded in Ceramic Matrices for Hot Electrode Applications*  
PI: Yongfeng Lu, University of Nebraska at Lincoln
- 11:25 AM - 12:25 PM *Precursor-Derived Nanostructured Si-C-X Materials from MHD Electrode Applications*  
PI: Fumio Ohuchi, University of Washington
- 12:25 PM - 1:15 PM Lunch Break (on-site, in cafeteria)
- 1:15 PM - 2:15 PM *Boride based electrode materials with enhanced stability under extreme conditions for MHD Direct Power Extraction*  
PI: Indrajit Charit, University of Idaho
- 2:15 PM - 3:15 PM *Post Combustion Carbon Capture using Polyethylenimine (PEI) Functionalized Titanate Nanotubes*  
PI: Raghava Kommalapati, Prairie View A&M University
- 3:15 PM - 3:30 PM Break
- 3:30 PM - 4:30 PM Site Tour

### Day 2: Wednesday, October 29

- 9:00 AM - 9:20 AM Contract Specialist Comments (Bethan Young and Mary Beth Pearse)
- 9:20 AM - 10:20 AM *Robust Metal-Ceramic Coaxial Cable Sensors for Distributed Temperature Monitoring in Harsh Environments of Fossil Energy Power Systems*  
PI: Junhang Dong, University of Cincinnati
- 10:20 AM - 10:30 AM Break
- 10:30 AM - 11:30 AM *Distributed fiber sensing systems for 3D combustion temperature field monitoring in coal-fired boilers using optically generated acoustic waves*  
PI: Xingwei (Vivian) Wang, University of Massachusetts at Lowell
- 11:30 AM - 12:30 PM *Distributed Wireless Antenna Sensors for Boiler Condition*  
PI: Haiying Huang, University of Texas at Arlington
- 12:30 PM - 1:15 PM Lunch Break (on-site, in cafeteria)
- 1:15 PM - 2:15 PM *Novel Silica Nanostructured Platforms with Engineered Surface Functionality and Spherical Morphology for Low-Cost High-Efficiency Carbon Capture in Advanced Fossil Energy Power*  
PI: Cheng-Yu Lai, Delaware State University
- 2:15 PM - 3:15 PM *Engineering Accessible Adsorption Sites in Metal Organic Frameworks for CO<sub>2</sub> Capture*  
PI: Conrad Ingram, Clark Atlanta University
- 3:15 PM - 3:30 PM Concluding Remarks
- 3:30 PM Adjourn