



# EXPLORING the BOUNDARIES of Smart Lighting Systems

February 5th, 2010 8:30 AM – 8:30 PM  
at Boston University Photonics Building  
8 St. Mary's Street, Boston MA

## SMART LIGHTING Engineering Research Center Industry – Academia Day

Come learn about our efforts to transform how society uses light through developing LED-based light systems with adaptive functionality which will increase energy-efficiency, productivity and health of society. Target program attendees include Chief Technology Officers, senior management in technology strategy and business development, and lead research scientists.

### AGENDA INCLUDES:

**Welcome** - Dr. Kenneth Lutchen, Dean of Engineering, BU

**Smart Lighting Engineering Research Center Overview**  
ERC Center Director

#### Industry and the ERC

Dr. Silvia Mioc, ERC Industrial Collaboration Director, RPI

#### Lensless Microscopes Enabled by Nanowire LEDs

Dr. Steve Hersee, ERC Associate Director and Professor, ECE Dept., UNM

#### How Smart Lighting Fills a Gap for Wireless Communications

Dr. Thomas Little, ERC Associate Director and Professor, ECE Dept., BU

#### Photonics Crystals: Innovative Photon Management

Dr. Shawn Lin, ERC Device Thrust Leader and Constellation Professor, Physics Dept., RPI

#### BU lab tour

#### Systems Integration and Smart Buildings

Dr. Art Sanderson, ERC System Integration Committee Co-Chair and Professor, ECSE Dept., RPI

#### Keynote Address

Dr. Kevin Dowling, Vice President of Innovation, Philips Color Kinetics, and ERC Scientific Advisory Board member

#### Educating the Next Generation in Smart Lighting

Dr. Kenneth Connor, ERC Education & Outreach Director and Professor, ECSE Dept., RPI

#### Panel Discussion: Industry View on Smart Lighting

Moderator: Dr. Thomas Bifano, Photonics Center Director, BU

#### Snapshots of the Research in Poster Session

Students elevator pitches throughout the day

**Breakout sessions** - discussions with researchers and students

**Reception** - and posters competition awards

**ERC Industrial Members: Applied Materials, Crystal-IS, C9/Nanodynamics, InterDigital, Osram Sylvania and Thorlabs**

Register Now at: <http://smartlighting.rpi.edu/registration.html>

For more information, please visit [Smartlighting.rpi.edu](http://Smartlighting.rpi.edu) or contact Silvia Mioc ([miocs@rpi.edu](mailto:miocs@rpi.edu)) or Linda Grosser ([lgrosser@bu.edu](mailto:lgrosser@bu.edu))

This conference is hosted by the Smart Lighting Engineering Research Center (ERC), a Generation Three (Gen-3) National Science Foundation Engineering Research Center. The ERC is an interdisciplinary, multi-institution organization led by Rensselaer Polytechnic Institute with Boston University and The University of New Mexico as core partners, and Morgan State University, and Rose-Hulman Institute of Technology as education partners.

#### The mission of the ERC is:

- To engage in research leading to transformative uses of lighting systems
- To develop a culture of innovation and engage industry to commercialize the ERC's research results
- To work with educators to develop the diverse world-class workforce needed to grow the business of Smart Lighting

