New Color Metrics
October 3, 2012 – Troy, NY
1:00 p.m. – 5:00 p.m.
Lighting Research Center
Rensselaer Polytechnic Institute
Gurley Building, 3rd Floor
21 Union Street
Troy, NY 12180

With the advent of solid-state lighting, traditional methods of describing the color appearance and rendering abilities of light sources may not be adequate. What are the color rendering index (CRI) and correlated color temperature (CCT) alternatives? Through demonstrations and discussion, this interactive seminar will explain color appearance and color rendering of light sources and assist manufacturers in making products that will be better accepted by the discerning eye of the beholder.

Announcing Our Speakers:
Mark Fairchild, Ph.D. - Associate Dean of Research & Graduate Education of the College of Science and Professor of Color Science & Imaging Science, Rochester Institute of Technology Center for Imaging Science

Mark is the associate dean of research and graduate education of RIT’s College of Science and a professor in the Munsell Color Science Laboratory within the Chester F. Carlson Center for Imaging Science. He received his Bachelor of Science and Master of Science degrees in Imaging Science from RIT and Ph.D. in Vision Science from the University of Rochester. Mark was presented with the 1995 Bartleson Award by the Colour Group (Great Britain) and the 2002 Macbeth Award by the Inter-Society Color Council for his research work in color appearance and other areas of color science. He is author of over 225 technical publications in color and imaging sciences and the book “Color Appearance Models,” which serves as a reference to the fundamentals of color appearance and the formulation of specific models. He served as color imaging editor for the Journal of Imaging Science and Technology and was named a Fellow of the Society for Imaging Science and Technology (IS&T) for his contributions to digital color imaging. Mark was presented with the Davies Medal by the Royal Photographic Society for his contributions to photography in the digital field of imaging science. He received the IS&T Raymond C. Bowman award for excellence in imaging education and was named a Fellow of the Optical Society of America for his contributions to research and education in color and imaging sciences. He was chair of CIE Technical Committee 1-34 on color appearance models and is currently a member several other CIE technical committees dealing with color appearance and image technology issues.
Mark Rea, Ph.D. - Director, Lighting Research Center, Rensselaer Polytechnic Institute
Mark is the director of Rensselaer Polytechnic Institute's Lighting Research Center and a professor in Architecture and Cognitive Sciences. He teaches courses in leadership and in visual and circadian processes, and supervises graduate students at master's and Ph.D. levels. He conducts research in many areas including circadian photobiology, mesopic vision, psychological responses to light, lighting engineering and visual performance. He is the author of more than 200 scientific and technical articles related to vision, lighting engineering, and human factors and was the editor-in-chief of the 8th and 9th editions of the IESNA Lighting Handbook. Dr. Rea is a recipient of the IESNA Medal.

Jean Paul Freyssinier, M.S. – Research Scientist, Lighting Research Center, Rensselaer Polytechnic Institute
Jean Paul is a Research Scientist at Rensselaer Polytechnic Institute's Lighting Research Center. He received a Bachelor of Science in Electrical and Mechanical Engineering from the National Autonomous University of Mexico and a Master of Science in Lighting from RPI. For the past ten years he has been involved in solid-state lighting, energy-efficient lighting design, photometry, the spectral effects of lighting, and education at the LRC. His lighting experience includes working as principal of design in a full-service architectural lighting design firm in Mexico.

Capturing the Lighting Edge is supported through funding by NYSERDA.
For more information, visit http://www.lrc.rpi.edu/education/outreachEducation/CapturingtheLightingEdge.asp