



IEEE
Networking the World™

Central Illinois Section
March 2015

Visit: [Central Illinois Section Web-site](#)

March Meeting: Wednesday, March 11th @ 6:00 PM

100% Renewable Energy: From Fiction to Fact

Paul Debevec

Professor Emeritus in Physics

University of Illinois, Urbana-Champaign

Date: Wednesday, March 11th, 2015

Time: 6:00 PM - 8:00 PM

**Location: 464 Loomis Lab
1110 W. Green St.
Urbana, IL 61801**


Organizer: Nenad Marjanovic, CILS

For questions, contact Nenad Marjanovic <nenad.marjanovic@ieee.org>

Abstract:

The world looks to renewable resources to eliminate greenhouse gas emissions and still power our energy intensive society. At present, the adoption of renewable resources is modest, although it is substantial in some regions. The possibility of a world of 100% renewables has been claimed both in academic and popular outlets. However, the sun does not always shine, and the wind does not always blow. The challenges of variability and intermittency are real and serious. Empirically, geographic aggregation does not appear to be sufficient. Some mix of storage and base load must accompany renewables.

About the speaker:

The IEEE logo is a large, light blue watermark in the background. It consists of a diamond shape containing a stylized 'I' and 'E' with a circular arrow, and the letters 'IEEE' in a bold, blocky font to its right.

Paul Debevec is an Emeritus Professor of Physics at the University of Illinois. His degrees are from M.I.T. and Princeton. Following positions at Argonne National Laboratory and Indiana University, he joined Illinois in 1977, becoming a full professor in 1983. His research in nuclear and particle physics has included experiments at CERN and PSI in Switzerland, and Brookhaven National Laboratory and Fermi National Laboratory in the US. He has served on advisory committees at DOE National Laboratories including LANL, JLAB, and PNNL. In 2008-2009 he and a few colleagues developed the core course for the University of Illinois College of Engineering Energy and Sustainable Engineering option, and he has lectured on energy issues in the College of Engineering and at the Osher Life Long Learning Institute since 2010. He is a Fellow of the American Physical Society.

Directions:

Please click on the following links to get the site, maps and directions:

[Loomis Lab - UIUC Maps](#)

[Loomis Lab - Google Maps](#)

For the full agenda, registration and information, please click on the link below:

[March 11th Meeting Registration](#)



IEEE Central Illinois Section (CILS)
c/o Nenad Marjanovic
606 Burkwood Ct. E.
Urbana, Illinois 61801



IEEE

Central Illinois Section Officers		
Chair Tim O'Connell tim.oconnell@ieee.org	Treasurer Byron Truax b.e.truax@ieee.org	Secretary Anu A. Gokhale aagokhale@ilstu.edu
Vice Chair Nenad Marjanovic nenad.marjanovic@ieee.org	Power Engineering Society – Officers	
	Chapter Chairperson Joshua Williams Williams_Josh@cat.com	Chapter Vice Chairperson Karl Kohlrus Karl.Kohlrus@comcast.net