PSIEE is pleased to invite you to a seminar this Thursday (tomorrow, August 16) by Lee Lynd of Dartmouth, an international leader in biofuel research and commercialization. Professor Lynd is interested in collaborating with Penn State on a range of biofuel sustainability issues associated with the Global Sustainable Bioenergy project, which he directs.

**Seminar title: Sustainable Bioenergy**

**Thursday August 16, 2012; 3:00 pm**

**105 Forest Resources Building**

**Abstract:**

New analysis will be presented supporting the proposition that bioenergy is likely to play an obligatory rather than discretionary role in a sustainable energy supply system. Potential avenues to gracefully reconcile very large-scale bioenergy production with other important priorities will be discussed. Thereafter, features of the Global Sustainable Bioenergy (GSB) project will be described.

The GSB project seeks to expand understanding of the possibility of beneficially producing bioenergy on a very large scale - e.g. 23% of primary energy supply, consistent with the IEA Bluemap Scenario. Working hypotheses include: 1) That it is physically possible to "make room" for bioenergy while honoring other land use priorities; and 2) That a systematic approach to food and bioenergy production could positively and synergistically impact multiple human needs. The presentation will close with a discussion of research opportunities associated with the GSB project.

**Biosketch:**

Lee Lynd is the Paul and Joan Distinguished Professor of Engineering at Dartmouth College; Focus Area Leader for Biomass Deconstruction and Conversion for the DOE Bioenergy Science Center (BESC); Co-Founder, Chief Scientific Officer and Director of Mascoma Corporation; and Initiator and Executive Committee Coordinator of the Global Sustainable Bioenergy Project. Dr. Lynd is a leading expert on fundamental and applied aspects of microbial cellulose utilization. In particular, he was the lead author on the authoritative review in the field (Microbiol. Mol. Biol. Rev. September 2002 vol. 66 no. 3 506-577), which has been cited over a thousand times and highlighted differences between microbial and enzymatic cellulose solubilization. He gave consolidated bioprocessing its name, has published over 50 papers on thermophilic, ethanol producing bacteria, and initiated and leads among the world’s largest groups devoted to these topics at BESC, Mascoma, and Dartmouth.
View his Dartmouth website: http://engineering.dartmouth.edu/people/faculty/lee-lynd/.

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Thank you for your continued interest in the Penn State Institutes of Energy and the Environment!

Best regards,
Patricia Craig