

SEMINAR

Buildings Energy Efficiency and System Operations

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MaRC Auditorium

11:00 a.m. - 12:00 p.m.

Abstract

The talk will present an overview of the projects and activities ongoing within the Technology Systems Analysis (TSA) technical group of the Energy and Environment Directorate (EED) of the Pacific Northwest National Laboratory (PNNL). PNNL is located in Richland, Washington and is one of the few multi-program National Laboratories of the Office of Science within the U.S. Department of Energy. Dr. Somasundaram will describe the capabilities and resources available within the group with a focus on work related to energy efficiency improvements in buildings, energy and power systems and technologies, as well as the interactions of buildings, power grid and energy systems. The seminar will also lay out some of the work going on in the building operations, diagnostics and controls areas and possible future R&D opportunities in this cross-disciplinary area of work. ***Graduate students are encouraged to attend to learn about job opportunities at PNNL.***

Biosketch

Dr. Sriram Somasundaram has served as the PNNL Technical Lead for the Northwest Hydrogen Initiative, an effort to develop the regional hydrogen infrastructure for transportation and power generation applications. He coordinated the activities of numerous public and private regional stakeholders in the Initiative, including potential partners from Alaska and British Columbia. He currently works on the DOE project that develops efficiency standards for commercial HVAC equipment as well as being involved in the development of commercial building energy standards. Dr. Somasundaram has led several project teams over the past 15 years, involving complex, multi-year, multi-task projects characterized by numerous public and private stakeholders, frequently pursuing conflicting agendas. Dr. Somasundaram has authored and co-authored over 100 peer-reviewed technical papers and edited conference proceedings, including two book chapters. He served as the chair of the ASME's Cogeneration Technical Committee from 1991 to 1998, and as the chair of the ASHRAE's Technical Editor of ASME's Journal of Energy Resources Technology (JERT) since 2000. Dr. Somasundaram was elected a Fellow of the ASME in 1997 and was the 2003-2004 Chair of the Advanced Energy Systems Division of ASME. Recently, he

received the ASME Dedicated Service Award (2004), was selected as the Tri-Cities' Engineer of the Year (2005), received the ASHRAE Distinguished Service Award (2006) as well as became a Fellow of ASHRAE (2007). Dr. Somasundaram received his Ph.D. from Case Western Reserve University in 1981.

Light refreshments will be served.

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