UNIVERSITY OF CENTRAL FLORIDA

MECHANICAL AND AEROSPACE ENGINEERING

Announcing MAE Spring 2013 Seminar Series

Friday, February 15, 2013, 2:00pm-3:00pm, CL 1, Room 320

This event is hosted by the College of Engineering and Computer Science and the Mechanical and Aerospace Engineering Department at the University of Central Florida

"Market Driven Technology Development"

Date:
Friday, 02/15/2013

Time:
2:00pm—3:00pm

Location:
CL 1, Room 320

For more information please contact:

Dr. Subith Vasu at Subith@ucf.edu

www.mae.ucf.edu

Vinod Philip

Head, Gas Turbine Engineering
Siemens Energy, Inc. Orlando, FL

Abstract - In today's market for fossil power generation, sustained business success for OEM's relies on constant vigilance relative to the competitiveness of the relevant product lines. Over the past several years, as aging coal plants near retirement and natural gas prices have been on the decline in the U.S., the market has shifted heavily in the direction of natural gas fired generation. More specifically, this market is trending to natural gas fired gas turbine based combined cycle power plants.

The focus of this presentation is to discuss this market trend and to discuss in detail the technology that Siemens has developed to address this market. The 5000F and 8000H gas turbine technologies will be discussed in detail along with how they have been integrated into complete power plant solutions. Another aspect of market driven technology development is to ensure that technologies are pre-validated before project implementation. This maintains customer confidence that the selected generation technology will operate reliably when called upon. This presentation will discuss the validation of Siemens technology and will highlight an example of Siemens and UCF collaboration in this area.

Bio - Vinod graduated with a Bachelor of Technology degree from the Indian Institute of Technology - Mumbai and has a Master of Science from the University of Central Florida in Materials Engineering. He also has a Master of Business Administration degree in International Business from Rollins College. Vinod has been a part of Siemens Energy Inc. for 14 years and has handled various engineering and management responsibilities in the areas of Gas Turbine Materials, Design and Technology.

In his current position as an Engineering Director responsible for the global Gas Turbine Engineering organization, Vinod is responsible for driving the design, development and validation of Gas Turbine Components and Technologies for current and next generation Gas Turbines. These component designs & technology solutions are also aimed at enhancing the competitiveness of Siemens' installed fleet of Gas Turbines via component upgrades resulting in further strengthening the Service business.

All are encouraged to attend.