## SMU Department of Mechanical Engineering

## **SEMINAR**

"Recent Trends and Developments in Thermoelectrics"

## JAMES BIERSCHENK

Sr. Manager and Chief Engineer at Marlow Industries Inc.

Friday, April 9, 2010 3:00 - 4:00 p.m. Embrey 129

**Abstract:** Mr. Bierschenk will provide a brief introduction to Marlow Industries and thermoelectric technology. The discussions will focus on the current status and development trends in thermoelectric materials and devices technology. How these recent developments impact present day and future applications of thermoelectrics will also be addressed.

**Bio:** James L. (Jim) Bierschenk – is Sr. Manager and Chief Engineer in the Product and Process R&D group at Marlow Industries, Inc., a subsidiary of II-VI Incorporated. He joined Marlow in January 1987 and has over 23 years experience designing thermoelectric cooling and power generation devices and systems. His design and management experience encompasses all markets served by Marlow including Industrial, Telecom, Defense, Space, Medical, Consumer and Automotive. He has authored much of the internal thermoelectric design and analysis software used at Marlow and has been awarded numerous US patents related to thermoelectric devices and systems. Jim is a 1984 Mechanical Engineering graduate of the University of Texas.