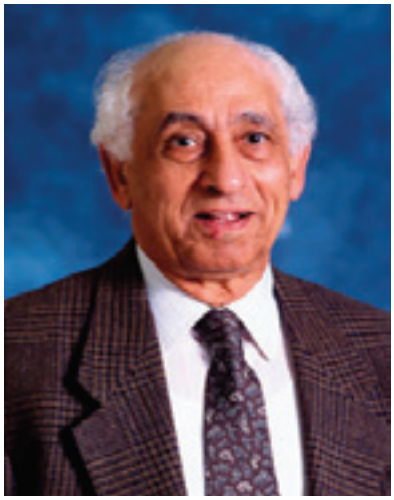
T_CSUH Bi-Weekly Seminar

Texas Center for Superconductivity at the University of Houston



Prof. Kamel Salama

Department of Mechanical Engineering
University of Houston
Project Leader, T_CSUH

"MOD Development of Coated Conductors at T_CSU

Rescheduled for December 2, 2005

Friday, November 4, 2005
Room 102, University of Houston Science Center
1:00 p.m. – 2:00 p.m.

Abstract

Currently, first-generation high temper acting (HTS) wires/tapes are commercially available for practical applications. H generation HTS wires/tapes (coated conductors) exhibit the capability of carrying t operating at higher temperatures and stronger magnetic fields. Development generation will accelerate the applications of HTS products into the marketpla our research on YBCO coated conductors at T_CSUH include results on textured l-organic deposition (MOD) buffer layers and YBCO films. The sharpest cube text agnetic Ni-9at%W alloy substrates were successfully achieved for the first time usi netallurgy process and give promise for coated conductors with reduced AC loss OD buffer layers have been developed to simplify coated conductor architectures, er cost/performance ratio. In addition, chemically doped MOD YBCO films with current density (J_c) were developed and J_c exceeding 5 MA/cm^2 at 77 K was obt will present results of electric-mechanical properties of SuperPower IBAD coate part of the collaboration between T_CSUH and SuperPower.

Persons with disabilities who require special accommodations in attending this lecture should call (713) 743-8210 as soon as possible.

TEXAS CENTER FOR SUPERCONDUCTIVITY