



DEPARTMENT OF MECHANICAL ENGINEERING Purdue School of Engineering and Technology

SPRING 2003 SEMINAR SERIES

Date: **Thursday, March 13, 2003**

Time: **11:00 am - 12:00 pm**

Room: **SL 165**

**Reception at 10:45 am (cookies and refreshments served)
Everyone is invited**

Computational Fluid Dynamics Developments at Rolls-Royce Corporation

Dr. Robert A. Delaney

*Rolls-Royce Engineering Fellow - CFD
Chief, Design Methods and Technology
Rolls-Royce Corporation
Indianapolis, Indiana*

Dr. Delaney will present an overview of Computational Fluid Dynamics developments at Rolls-Royce Corporation. He will describe recently developed codes and those still under development for simulation of complex flows in gas turbine engine components. These codes solve the Reynolds-Average Navier-Stokes equations using modern numerical techniques on advanced grid systems. Applications to fans, compressors, combustors and turbines will be presented.