GE Global Research

Turbomachinery Research at GE

Thursday, January 22, 2015 | 4:15 p.m.—5:15 p.m. | Y2E2, Rm 299, Red Atrium
Refreshments starting at 4 p.m. provided by Stanford’s Global Climate & Energy Project

Space is limited, kindly RSVP for seminar and group meetings with Dr. Maughan before and after talk at http://goo.gl/forms/SmCEJJu9T2

GE is the world’s leading turbomachinery technology company, with products spanning power generation turbines, aircraft engines, and O&G processing equipment. Despite the fact that these products were introduced decades ago, technology development is currently accelerating rapidly, and the next generation of jet engines and gas turbines will be incredibly advanced. This seminar will describe how GE Global Research is developing new tools and technology that will power and move the world.

Dr. Maughan will provide an overview of new 3D aerodynamic technologies that increase aerodynamic efficiency, combustion technologies that push higher combustion temperatures while maintaining low emissions, cooling technologies that increase durability of engines at higher temperatures, and new mechanical and prognostic technologies that improve designs and product life. Advanced experimental capabilities and breakthroughs in high performance computation will also be highlighted, with a focus on how these capabilities are resulting in products that better meet the needs of GE’s customers.

James R. Maughan
Technology Director
Aero-Thermal and Mechanical Systems
GE Global Research | Schenectady, NY

James R. Maughan received a B.S. from BYU, and a Ph.D. from Purdue, both in Mechanical Engineering. He then joined GE Global Research in Schenectady, NY, working in the area of low emissions combustion and gas appliances. He later joined GE Power & Water to lead the introduction of low emissions combustors into GE gas turbines, and held subsequent leadership positions in Gas Turbine, Steam Turbine, Energy Services, GE Research, Controls and Power Electronics, and Wind Energy. He began his current role at GE Global Research in 2013, where his global research team supports GE’s industrial businesses with breakthroughs in aerodynamics, fluid mechanics, heat transfer, combustion, and mechanical systems.

Research positions available. Bring your resume or visit www.ge.com/careers