

# UTC INSTITUTE FOR ADVANCED SYSTEMS ENGINEERING

## SEMINAR SERIES

### **Fault Detection and Isolation in Aerospace Applications - Understanding and Determining Technology Gaps**

Richard Poisson will discuss why faults and fault isolation are of interest to the aerospace community. He will provide an overview of the current analysis methodology that is employed during the design phase for fault detection, classification and isolation. This overview will be followed by a discussion of the latest products and systems in aerospace industry that are more electric, more complex, and more intelligent. This complexity and increasing reliance on computational approaches has a direct impact on fault detection and isolation. Several aspects of this emerging area of fault detection and isolation will be discussed including the currently employed BIT and BITE concepts. The talk will end by identifying areas of future research in this field.

#### **Richard Poisson**

Richard holds a BSME from the University of Hartford and MSEE from Rensselaer Polytechnic Institute and has been a UTAS (United Technologies Aerospace Systems) fellow since 2007. He has large experience in problem solving and root cause identification. Additionally, he is an adjunct member of the UTAS Advanced Methods and Tools group and has 32 years of experience in the design and analysis of aerospace systems. He is also a UTAS Center of Excellence member in Electrical Design and Systems Design and has numerous IP filings and Patents. Richard has broad knowledge base on the systems produced by UTAS and has worked in many business units both in design and as a reviewer.

**Thursday, February 25, 2016**

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

UConn, Storrs Campus – ITE Building Room 336

[To view live webcast click here](#)

### **Upcoming Distinguished Lectures**

03/10/16 - Yannis Kevrekidis  
Complex/multiscale systems  
modeling

10/17/16 - Wei Chen  
Design under uncertainty;  
multidisciplinary design  
optimization; simulation-  
based design

### **Upcoming Seminars**

03/08/16 - Harrison Kim  
Complex Systems Analytics:  
a Promising Enabler for  
Sustainable Design and  
Manufacturing

04/12/16 - Mark Biamonte  
Systems Engineering in Space  
Suit Development

04/19/16 - Quan Long  
Efficient Bayesian Optimal  
Experimental Design for  
Physical Models

#### **Website:**

[www.utc-iase.uconn.edu](http://www.utc-iase.uconn.edu)

#### **Email:**

[utc-iase@enr.uconn.edu](mailto:utc-iase@enr.uconn.edu)

#### **Phone:**

860.486.3355



UTC Institute  
for Advanced  
Systems Engineering



UNIVERSITY OF CONNECTICUT

**UCONN**  
SCHOOL OF ENGINEERING