



American Helicopter Society

Philadelphia Chapter Technical Luncheon Program

"Fiber Optic Sensors for Monitoring Composite Structures"

PRESENTATION SUMMARY:

The presentation covers the development of fiber optic sensors for monitoring composite structures, which started from the requirement for measuring loads in large CFRP masts for ocean racing yachts. The sensors are also used for the active control of the blades to reduce out of balance forces in applications such as wind power turbines and helicopter rotor heads and blades.

DATE: July 14, 2010 , 12pm to 1pm

Location: Boeing Ridley Park, Conference Room 3-04.1 D4 (Rec Room)

RSVP: Joseph Gillman, joseph.gillman@boeing.com, 610-591-2190

Note: non-Boeing attendees must RSVP no later than 7-12-10 and will meet a host in the 3-10 lobby on 7-14-10 at 11:45am



Presented by Roger Caesley, Epsilon Optics Limited

Speaker Bio: Mr. Caesley has almost 50 years of experience in the Aerospace and related engineering fields. He has worked on fatigue testing for the Harrier, serviceability for the Buccaneers and Sea Kings and served on the EH101 Merlin design team to advise Augusta Westland on maintenance aspects. He has been working with Insensys since 2004 developing their fiber optic strain measurement technology for aerospace applications.