



Department of Mechanical Engineering  
Faculty of Engineering

You are cordially invited to our:  
**Department Seminar**

**Topic:** UAV Structure Design and Composite Materials  
**Speaker:** Mr Adrian Lee Chih Wai  
DSO National Laboratories  
**Date:** 17 February 2014, Monday  
**Time:** 12.00pm to 1.45pm  
**Venue:** E1-06-09 (map of NUS can be found at <http://map.nus.edu.sg/>)  
**Host:** Prof. Tay Tong Earn

#### Abstract

In current times, the need to deploy Unmanned Aerial Vehicles (UAVs) in dangerous operations has grown tremendously.

A key challenge in today's UAV design is to optimise the operations for these vehicles through various means.

One area will be to design a lightweight UAV achieve maximum gains in both endurance and payload. This can be realised with implementing composite materials on UAVs.

#### About the Speaker

Mr Adrian Lee graduated with a B.Eng (Hons) in year 2007 and joined DSO National Laboratories as a structural stress engineer. He has many years of experience working on UAV structures. He has been involved in many projects and work on the areas which include the design, analysis and verification of both metallic and composite structures.

**Admission is free. All are welcome to attend.**