BRIDGING SKIES

ISSUE 21

NUS LAUNCHES NEW CENTRE FOR AEROSPACE ENGINEERING

A centre to provide aerospace-focused research and education – Mrs Josephine Teo, Minister of State for Finance and Transport, (centre) at the launch of the NUS Centre for Aerospace Engineering. From left to right: Prof Tay Tong Earn (Head, ME Department and CAE Director), Ms Glory Wee (Head, Aerospace, EDB), Prof Chan Eng Soon (Dean of Engineering), Ms Milly Tay (VP Engineering & Development Centre, ST Aerospace), Mr Cheong Chee Hoo (Director, Networks, DSO); and Mr Chew Siong Hee (VP Engineering, SIA Engineering). *Photo courtesy of National University of Singapore.*

In response to surging growth of the aerospace sector in Asia, and with the aim of reaffirming Singapore as a premiere aerospace hub, the National University of Singapore (NUS) launched in March 2013 its Centre for Aerospace Engineering (CAE) in collaboration with DSO National Laboratories, SIA Engineering and ST Aerospace.

Hosted at the NUS Faculty of Engineering's Department of Mechanical Engineering, the centre will focus on research, education and outreach activities. The CEA will provide knowledge

support to the aerospace industry, as well as equip students with the necessary skills to kick-start their aerospace careers.
The programme will feature eight laboratories where much of its multi-disciplined research will be conducted. These include laboratories that will cater to specific research disciplines, including: fluid mechanics; dynamics; energy and biothermal systems; manufacturing; experimental mechanics; impact mechanics; materials; and control systems.

CAE will kick-off with 20 NUS researchers who will participate in various projects, such as the development of new cooling systems that are lighter and more energy-efficient, gaining greater understanding of the dynamics and control of unmanned aerial vehicles, and tackling common problems related to aerodynamic performance. It is anticipated that much of the scientific and technical knowledge acquired during CAE's activities will also be applied to other sectors, including energy, transport and marine.

In addition, experts from the programme's thee industry partners will deliver guest lectures at the NUS faculty, as well as offering internships and design projects to NUS engineering students.