#epd

JAN 2018

MESSAGE FROM HEAD OF PILLAR

Dear EPD family,

Welcome back to the start of the Spring term, 2018! We have many exciting activities kicking off the term, with a faculty meeting, the EPD Research Seminar Series happening every Wednesday as well as a few other events for undergraduate students. We look forward to your support and presence at these events!

EVENTS

31 Jan	EPD Welcome Back Event	**31 Jan**	EPD Research Seminar Series	**31 Jan**	EPD Faculty Meeting	**2 Feb**	SolidWorks Workshop for 30.007 students

ANNOUNCEMENTS

- EPD would like to congratulate and extend our full support to our faculty below on their new appointments:
- Founding Head of Pillar, **Professor Kristin Wood**, to Associate Provost of Graduate Studies
- **Associate Professor Low Hong Yee** who has been appointed as Director of the Digital Manufacturing and Design Centre
- **Associate Professor Yang Hui Ying**, to Programme Director for the SUTD Chang Gung University Dual Masters Programme in Nano-electric Engineering and Design.

- On 11 Jan 2018, the American Chemical Society announced a press release of an article published by EPD faculty and researchers. This press release highlighted their research on **gecko-foot mimetic**, a dry adhesive achieved on stiff polycarbonate using a nanoimprinting technique. This research was conducted by Dr. Herman Raut under the guidance of Associate Professor Low Hong Yee, Assistant Professor Avinash Baji, Professor Kristin Wood, Assistant Professor Soh Gim Song, and Dr. Hassan Hussein Hariri and PhD student Hashina Parveen d/o Anwar Ali.

- Undergraduate students may now find more detailed information on courses on our EPD website: https://epd.sutd.edu.sg/education/undergraduate/undergraduate-courses/

FEATURED: REVIEW OF THALES PROJECT ARDUINO WORKSHOP

By Loo Kim Hian Joshua (EPD Junior)

On the 13th of October 2017, I had the opportunity to participate in the Thales Project Arduino Workshop, along with 30 other EPD students. We were first introduced to the Arduino open-source electronics prototyping platform and we dealt with basic LED set-ups all the way to combining accelerometers with LCD displays. After the brief introduction, we were tasked to create a product that dealt with any of Thales' core industries –aerospace, defence, security and transportation.

My group which comprised other EPD students Hans Ivander, Vanessa Poh and Erin Siah) decided to make a device that used a suite of sensors hooked up to the Arduino to track the location and health of parts to be used in the Maintenance, Repair and Overhaul (MRO) operations in the aerospace industry. Through this, we learned what needs the industry faced, as well as how to tackle them using the tools available to us. I was also able to improve my programming skills in integrating the sensors to the final product.

In the product showcase on the 15th of November, we had the opportunity to see the innovative ideas that others had come up with, from a drone tracking network using GPS, to auto-signaling bicyclist pouches. The winning team from SUTD, made up of EPD students Joo Ern, Wei Qi, Song Shan and Vinh, stole the show with an Arduino powered heads-up-display. All the best to them as they represent Singapore in the international leg of the competition!

Team UNO (Erin, Joshua, Vanessa, Hans)

Team Kiasu (Vinh, Songshan, Wei Qi, Joo Ern)