

September 2015

Dear EAT Donors,

Thank you for your tremendous support of the Engineering Advancement Trust (EAT) during 2014-15. We are truly fortunate that our alumni, corporate supporters and friends give to this important trust for the college and, in particular, for our students.

The EAT continues to utilize your donations to directly improve student learning opportunities through the purchase of new equipment. Directed by the EAT trustees, priority funding totaling \$705,700 for the 2014-16 cycle was awarded to eight projects, including the creation of a manufacturing, fabrication and design facility for students to ‘get dirt under their fingernails’ and become better engineers through hands-on learning with modern equipment.



Left to right: Ethan McKibben, a summer employee and recent U of S graduate with a Masters in Mechanical Engineering, Technician Rob Peace and Professor Rick Retzlaff work with one of the new CNC machines.

Assistant Professor Rick Retzlaff (BE’85, MSc’89) said, “This will be a major leap forward for our students – to be able to utilize intergroup collaboration, engineering design, and fabrication techniques altogether in a single class. Collaboratively testing designs and problem solving with real equipment gives our students the sort of hands-on learning for which our Saskatchewan people are famous. Thank you from my students for your generosity that supports this meaningful learning!”

We are very pleased to report that this project is underway and will be ready for the 2015-16 school year. The facility will be used in the new mechanical engineering course (ME 329), and reflects our commitment to industry’s needs while delivering a strong, industry-advised, design component to our programs. Two industrial-grade Computer Numerical Control (CNC) machines are being commissioned and will be ready for student use shortly.



Ethan McKibben programs one of the new CNC machines.



Left to right: Technician Bob Wilson, who operates the 3D printer, and Engineering Shops Supervisor Ken Jodrey look at some of the printer's work (3D printer in background).

said Bob Wilson, who operates the 3D printer. "It's the only professional- level 3D printer available on campus, and it can be booked by anyone within or external to the university."

We look forward to sharing more successes with you this fall as our campaign continues in its second year of the 2014-16 cycle.

In the 2014-15 year, contributions from donors raised over \$250,000 for this fund! On behalf of the College of Engineering, the EAT Trustees, and the Calgary Alumni Campaign volunteers, we would like to thank you again for your continuing support of the college and our students' learning.

Warmest Regards,

Georges J. Kipouros, Dean and Professor
CIM Distinguished Lecturer
College of Engineering, University of Saskatchewan

Rod Karius (BE'76)
EAT Board of Trustees Chair

Blair Hockley (BE'96)
Calgary EAT Committee

EAT funds also supported an upgrade to the college's EDEN 500V Rapid Prototyper (3-D printer). Now, thanks to your EAT donations, it can print objects in two different types of materials at the same time.

This new technology allows for many new possibilities, including printing in transparent media with an underlying opaque structure and the creation of casting patterns from which students can carry out further fabrication work.

"Presentation models and prototype building are typical uses of the machine,"

