

## Welcome to the School of Engineering and the 2008 Senior Design Show!

The recent history of engineering at the University of St. Thomas began in the mid-1980s with the introduction of the Master of Manufacturing Systems Engineering (M.M.S.E) degree. The first baccalaureate degree was introduced in 1994, the Bachelor of Science in Manufacturing Engineering which was transformed in 1997 into a Bachelor of Science in Mechanical Engineering (B.S.M.E.). In 2001, a Bachelor of Science in Electrical Engineering (B.S.E.E.) was also added. There were seven ME graduates in the class of 2000 and the first EE graduating class in 2004 also numbered seven students. Today in 2008 the combined ABET accredited graduating class has grown to approximately 60 students.

An official *School of Engineering* was formed effective July 2004 and has established the following mission: **“We provide an applied, values-based learning experience that produces well-rounded, innovative engineers and technology leaders who have the technical skills, passion and courage to make a difference.”** This School combined the former Graduate Programs in Engineering and Technology Management with the Undergraduate Engineering Department from the College of Arts and Sciences. It currently employs eight full-time faculty (including a founding dean and chair) plus several dozen adjuncts, typically from local high-tech companies. The longstanding Industry Advisory Board (IAB) has been maintained as well as the alumni organization School of Engineering Alumni Connection (SEAC). Also, a new body, the Board of Governors (BOG), was formed in early 2004 to support and advance the school’s mission at high levels in industry and government.

The 2008 *Senior Design Show* is based on project work from the *Senior Design Clinic I-II* (ENGR 480-1) sequence and represents the culmination of a year’s worth of work by teams of engineering seniors in both electrical and mechanical engineering. In the first semester, while working closely with their sponsor and faculty advisor, students fully understand the design problem, acquire information, determine engineering requirements, develop design concepts, trade them off and select a viable concept. During the last semester, students perform detailed design, build, and test their machines/devices.

Our thanks to all of our customers for providing this excellent learning opportunity.

Enjoy the show!

A handwritten signature in black ink, appearing to read "R. J. Bennett". The signature is fluid and cursive, with a long, sweeping underline that extends to the right.

Dr. Ronald J. Bennett, Founding Dean