**Building the Future**
Tau Beta Pi – The Engineering Honor Society

**Place and Time** - Iowa State University Campus – Thursday, 15 November 2018, 9:00 am – 1:30 pm
**Contact:** LeVern Faidley, Chief Advisor, E-mail - levern@faidley.org

Building the Future is an outreach project of the Iowa Alpha Chapter of Tau Beta Pi – The Engineering Honor Society. The event brings middle school students and their teachers to the ISU campus to experience hands-on-engineering. The activities are all based around the senairo of a tornado hitting a small Iowa town and what engineers can do to help. Following a general session at the beginning of the day, the students will undertake 4 different activities all specially designed to introduce them to various types of engineering: (i) the students will visit the Iowa State University Tornado Simulator to obseve a scale model tornado that resembles what occurs in nature; (ii) using popcycle sticks and brass fasteners, they built a bridge to replace one destroyed in the tornado that allows an ambulance to cross a ravine; (iii) they built a wind energy generator to provide power for the emergency efforts, (iii) using groundwater models they investigate how chemical spills or other polution might affect the ground water and water supply for the town. The day concludes with a general session about what they learned that different engineers do.

Groups of students rotate between the 4 activities, each of which lasts about 45 minutes. Lunch - two pieces of Pizza and a drink will be provided at a cost of $3.00 per person.

Following are pictures representative of the Building the Future events.