Please join us in one of the Shepherd S-STEM Club Seminars:

Engineering Tomorrow’s World

**By Dr. Scott Kiefer, Assistant Professor, Mechanical Engineering, York College of Pennsylvania**

Time and location: 2:10-2:50pm, Thursday September 11, 2014 @ SS209

**Abstract:** More than ever before, the engineers of tomorrow will have amazing opportunities to work on some very crucial issues. Our world needs solutions to some very big problems concerning energy, transportation, and manufacturing. Engineering has become a truly multidisciplinary field offering engineering graduates the chance to work in an assortment of very diverse areas that will address some of these issues. This talk will provide examples of project work that has been used to help train engineers to be able to handle tomorrow’s design problems. Topics will include automotive design, autonomous robots, the design of automated machinery, and more.

**Dr. Scott Kiefer** has spent the past fourteen years teaching mechanical engineering at four institutions. As an exemplary teaching specialist in mechanical engineering at Michigan State University, Scott received the Withrow Award for Teaching Excellence, given to one faculty member in the College in Engineering for outstanding instructional performance. Scott specializes in machine design, vibrations and controls, and mechatronics. He started his career at the University of Puerto Rico at Mayaguez in the traditional role of teaching and administering a modest research program. At Trine University, a small private school in Angola, Indiana, Scott taught ten different courses from introductory freshman courses to senior design, while serving as advisor to many undergraduate research projects. For the past three years Scott has been teaching at York College of Pennsylvania where he has been able to concentrate on undergraduate education in mechanical engineering. He is currently most active in mentoring senior design projects and integrating machining skills into a mechanical engineering curriculum.

**Acknowledgements:** This talk is sponsored by the NSF S-STEM grant (DUE-1259713).