

SUMMARY VITA – Ronald U. Goulet, Ph.D., P.E.

Associate Professor

Years on Faculty: 11 (original appointment 08/01/98)

Degrees:

B.S. Civil Engineering, Northwestern University, 1976

Ph.D. Mechanical Engineering, University of New Hampshire, 1997

Activities as Faculty Advisor

ASCE: Steel bridge & concrete canoe; USF, Orlando, FL, 2008 (co-advisor)

ASME: Punkin Chunkin Competition, Bridgeville, DE, 2007

SAE: Mini Baja race team; Auburn AI 2009; Cookeville TN 2008; Rochester NY 2007; Madison WI 2006.

Moon Buggy Competition; Marshall Space Center, Huntsville, AL, 2007

ASCE: Steel bridge competition, UT, Knoxville, TN, 2007

Active Undergraduate Industrial R&D (Supporting Undergraduate Engineering Students)

Yale Commercial Lock and Hardware, Lenoir City, TN-Development of FEMA tornado rated three-point exit system: \$12,500 CIS grant supporting 5 engineering students; Jan. 2008.

PRS, LLC, Chattanooga, TN- Design, development, testing of biomass fueled energy systems for poultry growers: \$18,000 CIS grant supporting 6 engineering students; Sept. 2007.

Other Related Experience:

Consultech, Chattanooga, TN and Maine; 1987 to present.

Dravo-Wellman div. of Dravo Corp., Pittsburgh, PA, 1984-86

Hydro Ash Corp., Pittsburgh, PA, 1980-84

United Conveyor Corp., Deerfield, IL, 1979-80

Polytechnic Inc., Chicago, IL, 1975-79

States in which registered: Maine

Principal Publications of Last Five Years:

1. Pettit J., Ervin B., Hixson J., Goulet R., Norris B., Nowotarski P.; Biomechanical Analysis of Novel Femoral Neck Locking Plate for Treatment of Vertical Shear Pauwel's Type C Femoral Neck Fractures, *Journal of Orthopaedic Trauma*; manuscript submitted May 2009.
2. Pettit J., Ervin B., Hixson J., Goulet R., Norris B., Nowotarski P.; Biomechanical Testing of a Novel Proximal Femur Plate for Treatment of Vertical Shear Pauwel's Type C Unstable Femoral Neck Fractures; *Orthopaedic Trauma Association National Annual Mtg, Boston, MA, Oct. 2007.*
3. Wigal, C., Fomunung, I, Goulet, R.; The Impact on Students of Freshman Design Projects Supporting Advanced Courses; *American Society for Engineering Education 114th Annual Conference, Hawaii, June, 2007.*
4. Pettit J., Ervin B., Hixson J., Goulet R., Norris B., Nowotarski P.; Biomechanical Testing of a Novel Proximal Femur Plate for Treatment of Vertical Shear Pauwel's Type C Unstable Femoral Neck Fractures; *Tennessee Orthopaedic Society Annual Meeting; Daytona, FL; Oct. 26-28, 2006.*
5. Levine D, Whittle, MW, Frogg S, Stooksbury J, Goulet R. The effects of illumination on limb kinematics and cadence during running. *Journal of Orthopaedic and Sports Physical Therapy* 35(1): poster, A29; 2005.
6. D. Gaines, B. Norris, P. Nowotarski, R. Goulet, Plate Length, Screw Position, and Locking Screws Effects on Bridge Plating for Femur Fractures, 23rd Annual Mtg, of the Mid-America Orthopaedic Association, Amelia Island, FL, 4/21/05.
7. R. Goulet, Applying Modern Tools in a Traditional Dynamics Course, *Proceedings of ASEE 2004 Southeastern Section Meeting, April 2004.*
8. J. Jolley, R. Goulet, Y. Hsieh, B. Norris, Effects of Plate Length and Screw Number on the Biomechanical Stability of Plated Ulnar Shaft Fracture, *AAOS Annual Meeting in San Francisco, California, March 10-14, 2004.*

Scientific and Professional Society Memberships:

American Society of Mechanical Engineers
Society of Automotive Engineers
American Society for Engineering Education
American Society of Safety Engineers (past associate member)

Honors and Awards:

Faculty Development Grant, Mini Baja, 2006
Esteemed Engineer, Tau Beta Pi, 2005
Member, Sigma Xi Research Society

Institutional Service in the Last Five Years (committee assignments, etc.):

Resident Research Committee, UT Department of Orthopaedic Surgery, active
UTC Petitions Committee, active
ME ABET Committee, active
UTC Faculty Senate, active

Professional Service in the Last Five Years:

Chair Chattanooga Chapter of ASME
Annual PDH speaker for Chattanooga Chapter of ASME
Presenter to Chattanooga Engineers Club