



Program Director – Engineering Technology

Aug 12 - present

Curriculum Development and Maintenance, Schedule Development  
Open Houses, Lab Tours, Student Athlete Recruitment

Associate Professor – Quality/Manufacturing/Outdoor Gear Design

Aug 09 - Jul 19

Teaching: mechanical/manufacturing topics; lab instruction & maintenance (see TEACHING)

Scholarship/Engagement: Industry projects with regional industry (CORA, Advanced Superabrasives, Eaton, TUTCO-Farnam, BorgWarner, HomTex, Stanley Furniture, Moog, Meritor, Edmonds Consulting, FLS Energy, Curtiss Wright Controls, General Electric - Gas Turbines)

Service: Chancellor Search Committee, LEAD Conference Steering Committee (Outdoor Economy), QEP/DegreePlus, 2020 Strategic Plan Committee, version 2.0, Athletics Committee (chair), 2020 Commission, Provost Search Committee, Kimmel School Dean Search Committee, Faculty Senate, Collegial Review Council, Academic Integrity Panel, ABET preparation, faculty

Graduate Research Assistant – Precision Machining Research Consortium      Mar 99 - Aug 02  
Analytical, numerical, & experimental approach to analyze subsurface damage in grinding titanium  
aluminide  
CAD/CAM, CNC programming; multi-machine exposure (VMC, surface grinder, wire EDM)  
High-temperature material property analysis at Oak Ridge National Lab

Black Belt (certified) – Airfoils/Rotors Center of Excellence      Nov 96 - Mar 99  
Six Sigma Training & Projects - Measure-Analyze-Improve-Control methodology, SPC  
Quality Data Collection - plant-wide team conversion to on-line system of data recording  
Train operators & support personnel in use of Six Sigma statistical & quality tools

Cell Engineer/Team Leader – Buckets Cell      Nov 94 - Nov 96  
Process ex

Laser Micro-Machining

Research performed at Western Carolina University on the Oxford Laser Micro-Machining Center

Experimental investigations into the quality of data matrices and the volume of material removed

Fall 2017 – Quality Systems (lecture), Engineering Practices and Principles III (project-based), academic advising  
Spring 2017 – Lean Six Sigma (lecture), Engineering Practices and Principles III (2 sections, project-based), academic advising  
Fall 2016 – Quality Systems (lecture), Engineering Economic Analysis (lecture), Engineering Practices and Principles III (project-based), academic advising  
Spring 2016 – Lean Six Sigma (lecture), Engineering Analysis (lecture), Engineering Statics (lecture), academic advising  
Fall 2015 – Quality Systems (lecture), Engineering Economic Analysis (lecture), Engineering Graphics (lecture/lab), academic advising  
Spring 2015 – Lean Six Sigma (lecture), academic advising (*Interim Dept. Head*)  
Fall 2014 – Quality Systems (lecture), academic advising (*Interim Dept. Head*)  
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Fall 2005 – Fluid Power (lecture), Statics & Strength of Materials (lecture), graduate-level Quality Assurance (lecture), academic advising  
Spring 2005 – Statics & Strength of Materials (lecture), Reverse Engineering (lecture & lab), Engineering Analysis (lecture), academic advising  
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Coburn, A. and Stone, W. (2020). Planning for an Outdoor Recreation Economy Initiative at Western Carolina University. *Appalachian Regional Commission (ARC) Grant*





Stone, W., & Kurfess, T. R. (2007). Grinding Titanium Aluminide: Subsurface Damage. *International Journal of Manufacturing Technology and Management*, 12 (1/2/3), 200-224 (peer-reviewed journal paper).

Stone, W., & Kuhn, Z. (2007). Integrating Laser Machining Applications into a Quality Course for Engineering Technology Students. *Proceedings of the 2007 American Society for Engineering Education Annual Conference & Exposition* (peer-reviewed paper).

Stone, W. L., Ferguson, C. W., & Ball, A. (2006), Engagement in Industry: Preparing Undergraduate Engineering Technology Students for Graduate Study. *Proceedings of the 2006 American Society for Engineering Education Annual Conference & Exposition* (peer-reviewed paper).

Stone, W. L. (2005). The History of Robotics. In T. R. Kurfess (Ed.), *Robotics and Automation Handbook*. (pp. 1-1 to 1-12). Boca Raton, Florida: CRC Press (chapter in technical handbook, peer-reviewed).

Ferguson, C. W., Ball, A., Stone, W. L., & McCrary, P. (2005), Engaging Industry in Graduate Engineering/Technology Education. *Proceedings of the 2005 American Society for Engineering Education Annual Conference & Exposition* (peer-reviewed paper).

Sanger, P. A., Ball, A., Ferguson, C., McDaniel, B., & Stone, W. (2005), Teaming in Engineering Technology Education: Lessons Learned and Experience that Works. *Proceedings of the 2005 American Society for Engineering Education Annual Conference & Exposition* (peer-reviewed paper).

Stone, W., & Kurfess, T. (2004). Grinding Titanium Aluminide: Subsurface Damage. *Grinding and Abrasives Magazine*, 22-26.

Stone, W. L., & Will, J. D. (2004). Optimizing the Structure for a Multidisciplinary Senior Design Experience. *Proceedings of the 2004 American Society for Engineering Education Annual Conference & Exposition* (peer-reviewed paper).

Stone, W. L., & Kurfess, T. R. (2002). Titanium Aluminide – Material Properties as a Function of Temperature. *Proceedings of the Japan - USA Symposium on Flexible Automation*, 1, 533-536 (peer-reviewed paper).

Stone, W. L., & Kurfess, T. R. (2002). Titanium Aluminide Thermal Diffusivity, Heat Capacitance, and Coefficient of Thermal Expansion as a Function of Temperature. *Transactions of the North American Research Institute*, 30, 417-421 (peer-reviewed paper).

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Experience with PCs, Macintosh, Mainframes; FORTRAN, BASIC, Assembly; Databasing, Microsoft Office Suite, MATLAB, SurfCAM, IronCAD, AutoCAD, CNC Programming, ANSYS, LabVIEW; speak, read, write German

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College of Engineering & Technology's Excellence in Mentoring & Advising Award for 2016-2017  
The George Reeser Outstanding Faculty Award for 2015-2016  
Kimmel School Distinguished Student Engagement Award for 2013-2014  
WCU Chancellor's Distinguished Teaching Award, 2011-2012

WCU Chancellor's Distinguished Teaching Award, 1 of 5 finalists for 2009-2010  
WCU Chancellor's Distinguished Teaching Award, 1 of 5 finalists for 2008-2009  
Kimmel School Award for Mentoring and Advising for 2008-2009  
WCU Chancellor's Meritorious Award for Engaged Teaching for 2007-2008  
ASME – American Society of Mechanical Engineers, member  
ASQ – American Society for Quality, senior member  
ASEE – American Society for Engineering Education, member

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Summit Charter School – Board of Trustees, member (2012-2016), chair (2013-2015)  
Jackson County Public Schools – Superintendent's Parental Advisory Board  
Village of Forest Hills – Zoning Administrator  
Epsilon Tau Pi (Eagle Scout Service Fraternity), Faculty advisor, (2006-present)  
Tau Beta Pi (Engineering Honor Society), President (U. Texas)  
Pi Tau Sigma (ME Honor Society), Treasurer (U. Texas)  
Texas Society of Professional Engineers, student chapter, Vice President (U. Texas)  
Georgia Tech Presidential Fellowship, 3 years  
College of Engineering Scholarship (Joe D. Kubicek), 1 year (U. Texas)  
ME Dept. Scholarships (Dow, Exxon), 3 years (U. Texas)  
Manufacturing Training Programs Association, President (GE)  
Mentoring Volunteer Program - 2 Students (Cincinnati, OH)  
Tutoring Volunteer Program - 4 Students (Greenville, SC)  
Soccer Coach - Volunteer for U6-U14 Teams (Greenville, SC; Valparaiso, IN; Cullowhee, NC)  
Cub Scout Volunteer, Tiger & Wolf Cub Den Leader  
Eagle Scout, Boy Scouts of America