Gerard (Jerry) A. Davis, PhD, CSP, CPE

Daniel & Josephine Breeden Professor, Associate Chair, Industrial and Systems Engineering Director, Center for Occupational Safety, Ergonomics, and Injury Prevention 3323E Shelby Center Auburn University, AL 36849-5346

BSME, Mechanical Engineering, University of South Carolina, 1988.

Cell: (334) 332-7745 davisqa@auburn.edu

Education

PhD, Industrial & Systems Engineering (Occupational Safety & Ergonomics), Auburn University, 2001. MEd, Kinesiology (Biomechanics), Auburn University, 1996. MS, Industrial & Systems Engineering (Occupational Safety & Ergonomics), Auburn University, 1996.

Experience

Aug 16 – Present – Professor and Associate Department Chair, Industrial and Systems Engineering, Auburn University. Participate in independent research and teach graduate/undergraduate classes in the areas of nuclear safety, occupational safety, ergonomics, and work measurement. PI/Co-PI of NIOSH ERC (OS&E and OIPRT) federally funded research/training grants. Involved in research and extension activities supporting the University, College, and Department (Effective 8/16/16).

Aug 15 – May 20 – Daniel & Josephine Breeden Professor of Industrial and Systems Engineering, Auburn University.

Aug 09 – Aug 16 - Associate Professor, Industrial and Systems Engineering, Auburn University.

Apr 15 – Present – Adjunct Associate Professor, Environmental Health Sciences Department, School of Public Health, University of Alabama at Birmingham (UAB).

May 01 – Aug 09 - Assistant Professor, Industrial and Systems Engineering, Auburn University. (Visiting Position 5/01-12/01, Research Position 1/02-8/05 & Tenure Track Position 8/05-8/09).

Dec 98 – April 00 - Industrial Engineer, Michelin Corporation. Assigned as plant ergonomics leader responsible for identification, assessment, analysis, solution identification and implementation for a workforce of 1500. Led a team of 8 individuals (ergonomics committee) to successfully accomplish this task. Performed various IE studies leading to continuous change within the facility.

Aug 94 - Mar 98 - Assistant Professor of Naval Science, Auburn University. Counseled, advised, and supervised hundreds of AU NROTC students. Taught University classes in Leadership, Management, Navigation, Safety, and various Engineering topics. University service and extension activity.

Oct 90 - Aug 94 - Naval Officer (Engineering Manager/Leader). Responsible for the safety, security, employment and operations of numerous submarine systems, programs, and personnel. Directly responsible for the day-to-day operation and maintenance (corrective and preventative) of numerous engineering and nuclear systems. Responsibilities include training, coordination, and supervision of the use of LOTO, confined space entry, permitting, safety (electrical, chemical, biological, radiological), etc....of contractors, technical representatives, Officers and Enlisted personnel. Duties included personnel management, qualification, and training development.

Dec 88 - Sep 90 - Naval Nuclear Power and Submarine Officer Schools.

Feb 78 - Dec 88 - Naval Nuclear Submarine Enlisted Fire Control Technician.

Certifications

Engineer in Training (South Carolina), inactive.

Certified in MOST & Mini-MOST by the Maynard Institute (Accenture), inactive.

Certified Professional Ergonomist (CPE): Certificate Number 1208

Certified Safety Professional (CSP): Certificate Number 18050

OSHA (Ten-Hour & Thirty-Hour) General Industry Course, Authorized Trainer, inactive. OSHA Machine Guarding & Ergonomics, Authorized Trainer, inactive.

Professional Affiliations

Professional Member, American Society of Safety Engineers (ASSP)

Past Member, Academic Practice Specialty, ASSP

Past Member, Engineering Practice Specialty, ASSP

Tau Beta Pi (National Engineering Honor Society)

Member, Society for Work Science (SWS); Elected to National Board of Directors (2003-05); President-Elect (2004-05), President (2005-06); Past-President (2006-07). Past Member.

Publications

In Review, Preparation/Revision & Accepted (6) (*Indicates student author)

Davis, GA, and Y. Abulhassan (2021). "Should we Mandate School Bus Evacuation Times in the United States?" *Transportation Research Interdisciplinary Perspectives*. (In Review – April 2021).

Zhang, Xuanxuan*, Schall, MC, Jr., Chen, H, Gallagher, S, **Davis GA**, Sesek, RF (2021). Manufacturing worker perceptions of using wearable inertial measurement unit sensors for multiple work shifts. *Applied Ergonomics* (Accepted pending revisions – March 2021).

Barim, MS*, Capanoglu, MF*, Sesek, RF, Sun, W, Schall Jr, MC, Gallagher, S, and **Davis, GA** (2021). "Morphometric Analysis of Lumbar Vertebrae: A Novel Approach for Quantifying Vertebral Endplate Degeneration." *European Spine Journal*. (In Revision).

Garnett, RF, **Davis, GA**, Sesek, RF, Gallagher, S, Schall Jr, MC, Zhang, X* (2021). "Evaluating Hand Speed in Automated Systems Using Presence Sensing Devices." *Safety Science*. (In Revision).

Brawner, J*, **Davis, GA**, Harris, GA, Sesek, RF & Garnett, RF (2021). "The Effect of Lean Manufacturing on Occupational Safety: A Systematic review to Identify Research Gaps." (In Revision).

Cao, L*, **Davis, GA**, Gallagher, S, Schall Jr, MC, and Sesek, RF (2021). "Kinematic Analysis of Evacuation Postures." (In Preparation).

In Print (42)

- 42. Moore, JF*, Carvalho, A, **Davis, GA**, Abulhassan, Y, FM Megahed (2021). Seat Assignments with Physical Distancing in Single-Destination Public Transit Settings. *IEEE Access*. (Accepted March 2021).
- 41. Abulhassan, Y, **Davis GA** (2021). Considerations for the Transportation of School Aged Children amid the Coronavirus Pandemic. *Transportation Research Interdisciplinary Perspectives*. 9 (2021) 100290. https://doi.org/10.1016/j.trip.2020.100290
- 40. Bani Hani D, Huangfu R, Sesek RF, Schall Jr MC, **Davis GA**, Gallagher S (2021). Development and Validation of a Cumulative Exposure Shoulder Risk Assessment Tool Based on the Fatigue-Failure Theory. *Ergonomics*, 64, 39-54. doi: 10.1080/00140139.2020.1811399.
- 39. Gunter, LA*, **Davis GA**, Abulhassan, Y, Sesek, RF, Schall Jr, MC, Gallagher, S (2020). Increasing Evacuation Flow through School Bus Emergency Roof Hatches. *Applied Ergonomics*, 88, 1-5. doi: 10.1016/j.apergo.2020.10317888.

- 38. Gunter L*, **Davis GA**, Abulhassan Y, Sesek RF, Gallagher S, Schall Jr MC (2020). School Bus Rear Emergency Door Design Improvements to Increase Evacuation Flow. *Safety Science*. 121, 64-70. doi: 10.1016/j.ssci.2019.09.007
- 37. Badawy M*, Schall Jr MC, Zabala M, Coker J, Sesek RF, Gallagher S, **Davis GA** (2019). Effects of Age and Obesity on Trunk Kinetics and Kinematics during One-handed Carrying. *Journal of Biomechanics*, 94, 107-114. doi: 10.1016/j.jbiomech.2019.07.016
- 36. Gungor, C*, Tang, R*, Sesek, RF, **Davis GA**, and Gallagher, S (2019). "Regression Models for the Erector Spinae Muscle Mass (ESMM) Cross-Sectional Area: Asymptomatic Populations." ASME, *J Biomech Eng*; 141(8):081009-081009-8. doi:10.1115/1.4043558.
- 35. Tang, R*, Gallagher, S, **Davis, GA**, Sesek, RF, Gungor, C. and Foreman, KB (2019). "Prediction Models for the Cross-Sectional Areas of Lower Lumbar Intervertebral Discs and Vertebral Endplates." *International Journal of Industrial Ergonomics*, 72, 12-34.
- 34. Badawy, M*, Schall Jr, MC, Zabala, ME, Coker, JE, **Davis, GA**, Sesek, RF, and Gallagher, S (2019). "Trunk Muscle Activity among Older and Obese People during One-Handed Carrying." *Applied Ergonomics*, 78, 217-23.
- 33. Barim, MS*, Sesek, RF, Capanoglu, MF*, Drinkhaus, P, Schall Jr, MC, Gallagher, S, and **Davis, GA** (2019). "Improving the Predictive Capability of the Revised NIOSH Lifting Equation by Incorporating Personal Characteristics." *Applied Ergonomics*, 74, 67-73.
- 32. Badawy, M*, Schall Jr, MC, Sesek, RF, Gallagher, S, and **Davis, GA** (2019). "One-handed Carrying Among Elderly and Obese Individuals: A Systematic Review to Identify Research Gaps. *Ergonomics*, 61(10), 1345-54. doi:10.1080/00140139.2018.1470680
- 31. Abulhassan, Y*, **Davis, GA**, Sesek, RF, Callender, A, Gallagher, S, and Schall Jr, MC (2018). "Physical and Cognitive Capabilities of Children during Operation and Evacuation of a School Bus Emergency Roof Hatch. *Safety Science*, 110, 265-272.
- 30. Garnett, RF*, **Davis, GA**, Sesek, RF, Gallagher, S, Schall Jr, MC, and Huangfu, R* (2018). "Evaluating the OSHA Hand Speed Constant for Stamping Press Applications." *Safety Science*, 107, 1-8. doi:10/2016/j.ssci.2018.04.002
- 29. Cao, L*, **Davis**, **GA**, Gallagher, S, Schall Jr, MC & and RF Sesek (2017). "Characterizing Posture and Associated Physiological Demand during Evacuation." *Safety Science*, 104, 1-9. doi:10.1016/j.ssci.2017.12.032
- 28. Y Abulhassan*, **GA Davis**, RF Sesek, MC Schall Jr and S Gallagher (2017). "Evacuating a Rolled-Over School Bus: Considerations for Young Evacuees." *Safety Science*, 108, 203-208. doi: 10.1016/j.ssci.2017.07.017
- 27. Y Abulhassan*, **GA Davis**, RF Sesek, S Gallagher and MC Schall Jr (2016). "Establishing School Bus Baseline Emergency Evacuation Times for Elementary School Students." *Safety Science*, 89, 249-55. doi:10.1016/j.ssci.2016.06.021.
- 26. R Tang*, C Gungor*, RF Sesek, KB Foreman, S Gallagher, and **GA Davis** (2016). "Morphometry of the Lower Lumbar Intervertebral Discs and Endplates: Comparative Analyses of New MRI Data with Previous Findings." *European Spine Journal*, 25, 1-16. doi 10.1007/s00586-016-4405-8.
- 25. **GA Davis**, L Sims*, RF Sesek, and S Gallagher (2015). "Developing Empirical Donning Times for Smoke Hoods." *Athens Journal of Technology & Engineering*, December 2015, 2(4):231-40.
- 24. AK Piper*, GT Holman, GA Davis, RF Sesek and EJ Boelhouwer (2015). "Towards incorporating

- technology to enhance the stereotype production method in warning symbol design." *IIE Transactions on Occupational Ergonomics and Human Factors*, 3(4), 231-35.
- 23. C Gungor*, R Tang*, RF Sesek, K Foreman, S Gallagher, and **GA Davis** (2015). "Morphological Investigation of Low Back Erector Spinae Muscle: Historical Data Populations." *International Journal of Industrial Ergonomics*, 49, 108-15.
- 22. C Gungor*, R Tang*, RF Sesek, K Foreman, S Gallagher, and **GA Davis** (2015). "Prediction Models for the Erector Spinae Muscle Cross-Sectional Area." *Journal of Biomechanical Engineering*, 137(7): 071012-1, 1-8.
- 21. Sesek, R, Tang, R*, Gungor, C*, and **GA Davis** (2014). "America's Changing Work Force: Ramifications for Ergonomic Modeling." *Interface, Ergonomics Practice Specialty*, 4(3), 4-8.
- 20. **GA Davis** and S Gallagher (2014). "Physiological Demand on Firefighters Crawling During a Search Exercise." *International Journal of Industrial Ergonomics*, 44, 821-6.
- 19. LR Wade, **GA Davis** and W. Weimer (2014). "Balance and Exposure to an Elevated Sloped Surface." *Gait & Posture*, 39, 599-605. [IF 1.969, 5-Yr IF 2.632; 2013]
- 18. EJ Boelhouwer*, **GA Davis**, A. Franco-Watkins, NT Dorris and C Lungu (2013). "Comprehension of Hazard Communication: Effects of Pictograms on Safety Data Sheets and Labels." *Journal of Safety Research*, 46, 145-55. [IF 1.379, 5-Yr IF 1.970; 2013]
- 17. R Kady* and **GA Davis** (2009). "The Impact of Exit Route Designs on Evacuation Time for Crawling Occupants." *Journal of Fire Sciences*, 27, 481-93. [IF 0.86, 5-Yr IF 1.115; 2009]
- 16. R Muhdi* and **GA Davis** (2009). "The Effect of Occupant Characteristics on Crawling Speed in Evacuation." *Fire Safety Journal*, 44, 451-7. [IF 1.259, 5-Yr IF 1.384; 2009]
- 15. R Muhdi*, S Gwynne and **GA Davis** (2009). "The Incorporation and Validation of Empirical Crawling Data into the buildingEXODUS Model." *Safety Science*, 47, 97-104. [IF 1.220, 5-Yr IF 1.426; 2009]
- 14. LR Wade* and **GA Davis** (2009). "Postural Sway Following Increased Duration to an Inclined Surface." *Safety Science*, 47, 652-8. [IF 1.220, 5-Yr IF 1.426; 2009]
- 13. GT Holman*, **GA Davis** and S Maghsoodloo (2008). "The Effects of Dynamic Movement on Reach Arcs." *Ergonomics*, 51(5), 691-701. [IF 1.416, 5-Yr IF 1.799; 2009]
- 12. S Walker, **GA Davis** and D. Desai* (2008). "Postural Assessments & Job Rotation." *Journal of the American Society of Safety Engineers*, 53(2), 32-6.
- 11. LR Wade*, **GA Davis**, TS Marzilli and WH Weimar (2006). "Information Processing Capacity While Wearing Personal Protective Eyewear." *Ergonomics*, 49(10), 955-67. [IF 1.416, 5-Yr IF 1.799; 2009]
- 10. LR Wade* and **GA Davis** (2005). "Transitioning Sloped Surfaces: The Effects of Roofing Work on Balance and Falls." *Journal of the American Society of Safety Engineers*, 50(9), 45-50.
- 9. RE Thomas and **GA Davis** (2005). "Earning a Ph.D. from an Engineering Based Safety & Ergonomics Program: The Case for a Flexible Campus Based Program." *Journal of Safety, Health and Environmental Research* (JSHER), 2(2), Feature (4).
- 8. **GA Davis,** S Ahuja* and EB Hollingsworth* (2005). "Your Establishment Received a Letter from OSHA: Now What?" *Journal of the American Society of Safety Engineers*, 50(3), 33-7.

- 7. **GA Davis**, R. Kuhns* and DJ. Watson (2004). "Evaluating Emergency Medical Services: Controlling the Rising Cost of Saving Lives." *Journal of Health and Human Services Administration*, 26(4), 485-512.
- 6. LR Wade*, W Weimar and **GA Davis** (2004). "Effect of Personal Protective Eyewear on Postural Stability." *Ergonomics.* 47(15), 1614-23. [IF 1.416, 5-Yr IF 1.799; 2009]
- 5. **GA Davis** and S Ahuja* (2004). "Safety Faculty Support for Student Contest Projects." Journal of Safety, Health and Environmental Research (JSHER), 1(2), Feature (2).
- 4. **GA Davis** and F Hayati* (2003). "Building a Solar House: An Exercise in Safety Education & Experience." *Journal of the American Society of Safety Engineers*, 48(5), 24-8.
- 3. Watson, DJ, Hassett, WL*, **GA Davis**, and RE Thomas (2002). "Use of Industrial Engineering in Measuring Police Manpower: A Small City Case Study." *Journal of Public Performance & Management Review*, 26(2), 132-7.
- 2. **GA Davis**, ED Edmisten*, RE Thomas, LA Smith and D Pascoe (2001). "Effects of Ventilated Safety Helmets in a Hot Environment." *International Journal of Industrial Ergonomics*, 26(5), 321-9. [IF 0.956, 5-Yr IF 1.260; 2009]
- 1. Bordas, RM*, **GA Davis**, BL Hopkins, RE Thomas and RB Rummer (2001). "An Evaluation of Forest Harvesting Hazards in East Central Alabama." *Journal of Agricultural Safety & Health*, 7(2): 123-33.

Proceedings, Peer reviewed (58)

In Review, Preparation & Accepted (1) (*Indicates student author)

Bandekar A, Sesek RF, Bani Hani D, Huangfu H, Schall Jr MC, **Davis GA**, Gallagher S (Accepted). Concurrent validation of The Shoulder Tool against physician-diagnosed bicipital tendinosis. Proceedings of the 21st Congress of the International Ergonomics Association (IEA 2021).

In Print (57)

- 57. Tang, R., Gungor, C., Sesek, R.F., Gallagher, S., **Davis, GA**, and Foreman, K.B. "Predicting the Cross-sectional Areas of Low Back Intervertebral Discs: Archived Medical Records Versus MRI Scans from Asymptomatic Subjects." Proceedings of the Human Factors and Ergonomics Society 64th Annual Meeting, February 9, 2021. https://doi.org/10.1177/1071181320641346
- 56. Nageswaran, S*, Gunter, LA, Sesek, RF, **Davis, GA** (2020). Using RFID to Quantify School Bus Evacuation Times. Proceedings of the 5th NA International Conference on Industrial Engineering and Operations Management. Detroit, MI, August 10-12, 2020.
- 55. Granzow R*, Schall Jr MC, Smidt M, **Davis GA**, Sesek RF, Gallagher S (2019). Measuring the Effect of Tool Design on Exposure to Physical Risk Factors among Novice Hand Planters. Proceedings of the Human Factors and Ergonomics Society 63rd Annual Meeting. 2019 October 28 November 1; Seattle, WA. doi: 10.1177/1071181319631091
- 54. Bani Hani, D*, Gallagher S, Sesek RF, Huangfu R*, Schall Jr MC, **Davis GA** (2019). Shoulder Risk Assessment Based on Fatigue Failure Theory. Proceedings of the Human Factors and Ergonomics Society 63rd Annual Meeting. 2019 October 28 November 1; Seattle, WA. doi: 10.1177/1071181319631395
- 53. Barim MS, Sesek RF, Capanoglu MF*, Gallagher S, Schall Jr MC, **Davis GA** (2019). Can the Revised NIOSH Lifting Equation Be Improved by Incorporating Personal Characteristics? In: Bagnara S, Tartaglia R, Albolino S, Alexander T, Fujita Y. (eds) Proceedings of the 20th Congress of the

- International Ergonomics Association (IEA 2018). IEA 2018. Advances in Intelligent Systems and Computing, vol 825. (pp. 553-560). Springer, Cham. doi: 10.1007/978-3-319-96083-8_73
- 52. Barim MS, Sesek RF, Capanoglu MF*, Sun W, Gallagher S, Schall Jr MC, **Davis GA** (2019). Quantifying Vertebral Endplate Degeneration Using the Concavity Index. In: Bagnara S, Tartaglia R, Albolino S, Alexander T, Fujita Y. (eds) Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018). IEA 2018. Advances in Intelligent Systems and Computing, vol 825. (pp. 734-741). Springer, Cham. doi: 10.1007/978-3-319-96083-8_88
- 51. Barim MS, Sesek RF, Capanoglu MF*, Gallagher S., Schall Jr MC, **Davis GA**. (2019). Evaluating the Reliability of MRI-Derived Biomechanically-Relevant Measures. In: Bagnara S, Tartaglia R, Albolino S, Alexander T, Fujita Y. (eds) Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018). IEA 2018. Advances in Intelligent Systems and Computing, vol 825. (pp. 742-749). Springer, Cham. doi: 10.1007/978-3-319-96083-8_89
- 50. Huangfu R*, Gallagher S., Sesek RF, Schall Jr MC, **Davis GA**. (2019) Evaluating the Effectiveness of Estimating Cumulative Loading Using Linear Integration Method. In: Bagnara S., Tartaglia R., Albolino S., Alexander T., Fujita Y. (eds) Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018). IEA 2018. Advances in Intelligent Systems and Computing, vol 820. (pp. 283-288). Springer, Cham. doi: 10.1007/978-3-319-96083-8_38
- 49. Garnett RF, **Davis GA**, Sesek RF, Gallagher S, Schall Jr MC, Chen H. (2019) Evaluating an Inertial Measurement Unit Based System for After-Reach Speed Measurement in Power Press Applications. 9th International Conference on Applied Human Factors and Ergonomics (AHFE); 2018 July 21-25; Orlando, FL. (pp. 146-157). In: Ahram T. (eds) Advances in Human Factors in Wearable Technologies and Game Design. AHFE 2018. Advances in Intelligent Systems and Computing, vol 795. Springer, Cham. doi: 10.1007/978-3-319-94619-1 14
- 48. Badawy M*, Schall Jr MC, Gallagher S, Sesek RF, **Davis GA**. (2018). Heart Rate and Perceived Exertion among Young Adult Obese Males during One-Handed Carrying. Proceedings of the Human Factors and Ergonomics Society 62nd Annual Meeting. 2018 October 1-5; Philadelphia, PA. (pp. 893896). doi: 10.1177/1541931218621205
- 47. Huangfu R*, Gallagher S, Whitley P, Sesek RF, Schall Jr MC, **Davis GA**. (2018). Lumbar Muscle Fatigue Analysis Using Sorensen Test with Different Upper Body Offload Conditions. Proceedings of the Human Factors and Ergonomics Society 62nd Annual Meeting. 2018 October 1-5; Philadelphia, PA. (pp. 879-881). doi: 10.1177/1541931218621201
- 46. Huangfu R*, Gallagher S, Sesek RF, Schall Jr MC, **Davis GA** (2018). Evaluating the Linear Integration Method of Cumulative Loading Using an Eccentric Muscle Model. Proceedings of the Human Factors and Ergonomics Society 62nd Annual Meeting. 2018 October 1-5; Philadelphia, PA. (pp. 882-885). doi: 10.1177/1541931218621202
- 45. Abulhassan, Y, Bani Hani, D*, **Davis, GA** (2018). "Effectiveness of Pictogram Instructions for Donning Smoke Hoods." *Proceedings of the Human Factors and Ergonomics Society 62nd Annual Meeting*, (10/18), Philadelphia, PA.
- 44. Barim MS, Sesek RF, Capanoglu MF*, Gallagher S, Schall Jr MC, **Davis GA** (2018). Can the Revised NIOSH Lifting Equation Be Improved by Incorporating Personal Characteristics?. In: Bagnara S, Tartaglia R, Albolino S, Alexander T, Fujita Y. (eds) Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018). IEA 2018. Advances in Intelligent Systems and Computing, 825, 553-60. Springer, Cham. doi: 10.1007/978-3-319-96083-8_73
- 43. Barim MS, Sesek RF, Capanoglu MF*, Sun W, Gallagher S, Schall Jr MC, **Davis GA** (2018). Quantifying Vertebral Endplate Degeneration Using the Concavity Index. In: Bagnara S, Tartaglia R, Albolino S, Alexander T, Fujita Y. (eds) Proceedings of the 20th Congress of the International

- Ergonomics Association (IEA 2018). IEA 2018. Advances in Intelligent Systems and Computing, 825, 734-41. Springer, Cham. doi: 10.1007/978-3-319-96083-8_88
- 42. Barim MS, Sesek RF, Capanoglu MF*, Gallagher S, Schall Jr MC, **Davis GA** (2018). Evaluating the Reliability of MRI-Derived Biomechanically-Relevant Measures. In: Bagnara S, Tartaglia R, Albolino S, Alexander T, Fujita Y. (eds) Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018). IEA 2018. Advances in Intelligent Systems and Computing, 825, 742-9. Springer, Cham. doi: 10.1007/978-3-319-96083-8_89
- 41. Huangfu R*, Gallagher S, Sesek RF, Schall Jr MC, **Davis GA** (2018). Evaluating the Effectiveness of Estimating Cumulative Loading Using Linear Integration Method. In: Bagnara S., Tartaglia R., Albolino S., Alexander T., Fujita Y. (eds) Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018). IEA 2018. Advances in Intelligent Systems and Computing, 820, 283-8. Springer, Cham. doi: 10.1007/978-3-319-96083-8_38
- 40. Garnett RF, **Davis GA**, Sesek RF, Gallagher S, Schall Jr MC, Chen H (2018). Evaluating an Inertial Measurement Unit Based System for After-Reach Speed Measurement in Power Press Applications. 9th International Conference on Applied Human Factors and Ergonomics (AHFE); 2018 July 21-25; Orlando, FL. (pp. 146-157). In: Ahram T. (eds) Advances in Human Factors in Wearable Technologies and Game Design. AHFE 2018. Advances in Intelligent Systems and Computing, vol 795. Springer, Cham. doi: 10.1007/978-3-319-94619-1_14
- 39. Badawy M*, Schall Jr MC, Gallagher S, Sesek RF, **Davis GA** (2018). Heart Rate and Perceived Exertion among Young Adult Obese Males during One-Handed Carrying. Proceedings of the Human Factors and Ergonomics Society 62nd Annual Meeting. 2018 October 1-5; Philadelphia, PA. 62(1), 893-6. doi: 10.1177/1541931218621205
- 38. Huangfu R*, Gallagher S, Whitley P, Sesek RF, Schall Jr MC, **Davis GA** (2018). Lumbar Muscle Fatigue Analysis Using Sorensen Test with Different Upper Body Offload Conditions. Proceedings of the Human Factors and Ergonomics Society 62nd Annual Meeting. 2018 October 1-5; Philadelphia, PA. 62(1), 879-81. doi: 10.1177/1541931218621201
- 37. Huangfu R*, Gallagher S, Sesek RF, Schall Jr MC, **Davis GA** (2018). Evaluating the Linear Integration Method of Cumulative Loading Using an Eccentric Muscle Model. Proceedings of the Human Factors and Ergonomics Society 62nd Annual Meeting. 2018 October 1-5; Philadelphia, PA. 62(1), 882-5. doi: 10.1177/1541931218621202
- 36. Salar*, M. Capanoglu*, M.F., Sherman*, A., Sesek, R.F., and **Davis, GA** (2017). "Training Related Risk Factors of Firefighters." Proceedings of the Human Factors and Ergonomics Society 61st Annual Meeting, September, 2017, Vol. 61, Issue 1, pp. 1844-1847. Presented October 9-13; Austin, TX. DOI: 10.1177/1541931213601941.
- 35. Huangfu, R*, Lusk, C*, Gunter, L*, **Davis, GA**, Y Abulhassan (2017). "Does Wearing a Smoke Hood Impede One's Ability to See Stairs While Descending?" *Proceedings of the 2017 ATINER Industrial Engineering Conference*, Athens, Greece.
- 34. Sims, L, **Davis, GA**, Gallagher, S, MC Schall (2017). "An Interactive Model of Personal Protective Equipment (PPE) Donning and Doffing Times." *Proceedings of the 2017 ATINER Industrial Engineering Conference*, Athens, Greece.
- 33. Sims, L*, **Davis, GA**, Sesek, RF, Gallagher, S, Schall Jr (2016). "Determining Empirical Donning and Doffing Times for Complex Combinations of Personal Protective Equipment (PPE)." *7th International Conference on Applied Human Factors and Ergonomics (AHFE)*; 2016 July 27-31; Orlando, FL. (pp. 89-100). In: Arezes P. (eds) Advances in Safety Management and Human Factors. Advances in Intelligent Systems and Computing, vol 491. Springer, Cham. doi: 10.1007/978-3-319-41929-9 10

- 32. Huangfu, R*, **Davis, GA**, Schall Jr, MC, Sesek, RF, Gallagher, S (2016). "Smoke Hood Design Considerations for Stairwell Evacuation." *4th Annual International Conference on Industrial, Systems, and Design Engineering*; 2016 June 20-23; Athens, Greece. No: IND2016-1954.
- 31. Abulhassan, Y*, **Davis, GA**, Sesek, RF, Gallagher, S, Schall Jr, MC, Callender, A (2016). "Relating Strength Capabilities to the Design of Emergency Evacuation Exits." *Proceedings of the Human Factors and Ergonomics Society* 60th Annual Meeting. 2016 September 19-23; Washington D.C. (pp. 1650-1653). doi: 10.1177/1541931213601380. Awarded HFES Safety Technical Group student paper award.
- 30. Granzow, R, Schall Jr, MC, Gallagher, S, Sesek, RF, Huangfu, R* & **GA Davis** (2016). "Strategies for Vehicle Ingress/Egress: Aging and Obese Populations." 5th Annual Southeastern States Occupational Network (SouthON) Meeting; 2016 March 8-9; New Orleans, LA.
- 29. Schall Jr, MC, Huangfu, R*, Gallagher, S, **Davis, GA**, Sesek, RF & C Escobar (2016). "Application of Inertial Measurement Units to Assess Vehicle Ingress and Egress Characteristics." *Proceedings of the Human Factors and Ergonomics Society 60th Annual Meeting*. 2016 September 19-23; Washington D.C. (pp. 854). doi: 10.1177/1541931213601195
- 28. **Davis, GA**, Sims, L*, Sesek, RF & S Gallagher (2015). "Developing Empirical Standards for Donning Smoke Hoods." *Proceedings of ATINER Industrial Engineering Conference*, Athens, Greece.
- 27. Cao, LI*, **Davis, GA**, and S Gallagher (2014). "The Impact of Posture on Evacuation Speed." *Proceedings of the 2nd International Tall Building Fire Safety Conference*, pp. 111-21, London, England.
- 26. **Davis, GA**, Tang, R*, Sesek, RF, and S Gallagher (2014). "Evaluating Firefighter Crawling Performance in a Controlled Environment." *Proceedings of the 5th International Conference on Applied Human Factors and Ergonomics*, pp. 615-20, (7/14), Krakow, Poland.
- 25. Gallagher, S, Sesek, RF, and **GA Davis** (2014). "Effects of Force and Repetition on Inflammation during Eccentric Muscle Contractions." *Proceedings of the 5th International Conference on Applied Human Factors and Ergonomics, pp. 6687-93, (7/14),* Krakow, Poland.
- 24. Sesek, R, Tang, R*, Gungor, C*, Gallagher, S, **Davis, GA**, and KB Foreman (2014). "Using MRI-Derived Spinal Geometry to Compute Back Compressive Stress (BCS): A New Measure of Low Back Pain Risk." *Proceedings of the 5th International Conference on Applied Human Factors and Ergonomics*, pp. 2394-9, (7/14), Krakow, Poland.
- 23. Boelhouwer, EJ* & **GA Davis** (2010). "Effects of GHS Hazard Category, Signal Words, and Pictograms on an Individual's Assessment of Perceived Risk." *Proceedings of the Human Factors and Ergonomics Society (HFES), 54th Annual Meeting*, pp. 1851-5.
- 22. Sesek, R & **GA Davis** (2010). "Rules of Thumb and Safety Truisms." *Proceedings of the American Society of Safety Engineers Annual Meeting.* Baltimore, MD.
- 21. Piper, AK*, Boelhouwer, EJ* & **GA Davis** (2010). "Converging International Safety Symbol Designs Using Distributed Interactive Evolutionary Computation." *Proceedings of the 2010 Industrial Engineering Research Conference*.
- 20. Piper, AK*, Boelhouwer, EJ* & **GA Davis** (2009). "The Use of Hazard and Precautionary Symbols on Safety Data Sheets." *Proceedings of the Human Factors and Ergonomics Society (HFES), 53rd Annual Meeting,* (10/09).

- 19. Kady, R, Gwynne, S & **GA Davis** (2009). "A Review of the Sources of Occupant Performance Data Used in Building Evacuation Models." *Proceedings of the Human Behavior in Fires Conference,* (July 2009).
- 18. Piper, AK*, **GA Davis** & EJ*. Boelhouwer (2009). "Towards the Determination of a Difficulty Factor for Converting Warning Referents into Wordless Safety Symbols." 7th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, UT.
- 17. Piper, AK*, Boelhouwer, EJ*, **GA Davis**, Holman, GT* & LS Montgomery* (2008). "Using Hand Drawn Images to Determine Warning Symbol Design Parameters within Interactive Evolutionary Computation Software." *Proceedings of the Human Factors and Ergonomics Society (HFES)*, 52nd Annual Meeting, 1708-12.
- 16. Valenzuela, J., **GA Davis** & L. Sims (2008). "Undergraduate Research in Automotive Manufacturing Systems at Auburn University." *Proceedings of the ICEE 2008 Conference*, Budapest, Hungary.
- 15. Piper, AK*, Montgomery, L* & **GA Davis** (2008). "Using Artificial Intelligence to Assist Individuals and Focus Groups in Designing Safety Warning Symbols." *Proceedings of the IERC* (08).
- 14. Gwynne, S, Muhdi, R* & **GA Davis** (2007). "The Development and Validation of A Crawling Model in an Existing Computational Egress Tool." *Proceedings of the 11th International Conference on Fire Science and Technology* (Interflam 2007).
- 13. Muhdi, R* & **GA Davis** (2007). "Helping Safety Managers Make Project Decisions in the Workplace: The Weighted Scoring Decision Making Approach." *Proceedings of the American Society of Safety Engineers Annual Meeting*, (6/07).
- 12. Desai, D*, Walker, SW & **GA Davis** (2006). "Using RULA to Generate Job Rotation Schedules: Perspective of Assembly Line Supervisors." *Proceedings of the American Society of Safety Engineers Annual Meeting*.
- 11. Muhdi, R*, Garrett, A*, Agarwal, R*, **GA Davis**, Dozier, G & Umphress, D (2006). "The Application of Evolutionary Computation in Evacuation Planning." *Proceedings of the IEEE Intelligent Transportation Systems Conference. Special session on Study and Potential Solutions to Evacuation Planning Issues for IEEE ITSC 2006.* pp. 600-5.
- 10. Muhdi, R*, **Davis, GA**. & T. Blackburn (2006). "Improving Occupant Characteristics in Performance-Based Evacuation Modeling." *Proceedings of the Human Factors and Ergonomics Society(HFES), 50th Annual Meeting,* 1199-203.
- 9. Escobar, C*, NT Dorris, RE Thomas, S Maghsoodloo & **GA Davis** (2006). "Critical Variables in the Application of Subjective Posture-Based Ergonomic Assessment Tools." *Proceedings of the IERC* (06).
- 8. Garrett, A*, Carnahan, B, Muhdi, R*, **GA Davis**, Dozier, G, SanSoucie, M, Hull, P, and M. Tinker (2006). "Evacuation Planning via Evolutionary Computation." *IEEE Congress on Evolutionary Computation*, CEC 2006, pp. 157-64. **Session Best Paper Award.**
- 7. LR Wade* & **GA Davis** (2005). "Experience on an Elevated Inclined Surface and Postural Control." *Proceedings of the Human Factors and Ergonomics Society*, 49th Annual Meeting, pp. 1311-4.
- 6. S Ahuja*, **GA Davis** & LR Wade (2005). "Postural Stability of Commercial Truck Drivers: Impact of Extended Durations of Whole-Body Vibration." *Proceedings of the Human Factors and Ergonomics Society*, 49th Annual Meeting, pp. 1810-4.
- 5. D Desai*, B Carnahan, GA Davis & S Maghsoodloo (2005). "Development and Validation of an

Ergonomic Job Rotation Schedule at a Manufacturing Facility." *Proceedings of the Institute of Industrial Engineers (IIE)*, 2005 Meeting.

- 4. LR Wade*, W Weimar & **GA Davis** (2004). "The Influence of an Inclined Surface on Flat Surface Postural Control." *Proceedings of the Human Factors and Ergonomics Society*, 48th Annual Meeting, pp. 1431-4.
- 3. JM Olson*, RE Thomas, AK Raj & **GA Davis** (2004). "Tactile Display Landing Safety, Situational Awareness, and Workload Reduction Improvements for the Space Shuttle." *Proceedings of the Aerospace Medical Association*, Annual Meeting, May 2004.
- 2. LR Wade*, W Weimar & **GA Davis** (2003). "Effect of Flat Surface Postural Stability Following Extended Durations on A Pitched Roof Setting." *Proceedings of the Human factors and Ergonomics Society*, 47th Annual Meeting, pp. 1295-8.
- 1. NT Dorris* & **GA Davis** (2003). "Testing the Effects of Label Deterioration on the Legibility and Comprehensibility of Warnings," *Proceedings of the Human Factors and Ergonomics Society*, 47th Annual Meeting, pp. 1726-30.

Abstracts (4)

- 4. Schall, MC, Huangfu, R*, Gallagher, S, Sesek, RF & C Escobar (2016). "Application of Inertial Measurement Units to Assess Vehicle Ingress and Egress Characteristics." *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 2016.
- 3. LR Wade & **GA Davis** (2005). "Gait Kinematics on an Elevated Inclined Surface." Congress of the *International Society of Biomechanics (ISB)* and 29th Annual Meeting of the *American Society of Biomechanics (ASB)*, World Congress Meeting.
- 2. Williams, R*, **Davis, GA**, & Thomas, RE (1999). "The Use of Rapid Upper Limb Assessment (RULA) as an Evaluation Tool in Industry," Abstracts of the American Industrial Hygiene Association Conference and Exposition, Toronto, Canada.
- 1. **Davis, GA**, Duncan, TL* & Thomas, RE (1998). "A Further Evaluation of Rapid Upper Limb Assessment (RULA)," Abstracts of the American Industrial Hygiene Association Conference and Exposition, Atlanta, GA.

Book Chapter (2) (*Indicates student author)

- 2. Kady, R*, Barefield, K* & **GA Davis** (2012). "Ergonomic Hazards and Repetitive Strain Injuries: Cost Analysis & Budgeting." <u>The Safety Professionals Handbook, Technical Applications</u>. American Society of Safety Engineers, Des Plaines, II. Joel M. Haight, 2nd Ed.
- 1. Muhdi, R* & **GA Davis** (2008). "Ergonomic Hazards and Repetitive Strain Injuries: Cost Analysis & Budgeting." <u>The Safety Professionals Handbook, Technical Applications</u>. American Society of Safety Engineers, Des Plaines, II. Joel M. Haight, 1st Ed., pp. 959-75.

Other Publications (5) (*Indicates student author)

- 5. Gallagher, S, Schall Jr, MC, Sesek, RF, and **Davis, GA** (2015). "Motion Capture of Critical Populations for Vehicle Ingress/Egress" Final Technical Report, HATCI, Ann Arbor, MI. (12/15).
- 4. M Smidt, BJ Carnahan & **GA Davis** (2004). "Visual Guide to Landing Safety: A Handbook for Onsite Training of New Employees." Funded by the THAT'S Foundation in conjunction with the Alabama Cooperative Extension System. 18 pages.

- 3. NT Dorris* & **GA Davis**. "Action Area: Maintaining Safety Warning Systems." Forest Operations Review, Forest Resource Association (FRA) Inc., Technical Release 04-R-04, Winter 2004, 6(1), 21-22.
- 2. **Davis, GA** (2001). "Biomechanical and Cardiovascular Responses to Wearing an Industrial Back Belt." Doctoral Dissertation, Auburn University.
- 1. **Davis, GA** (1996). "Physiological Effects of Wearing a Hardhat in a Hot Environment." Master's Thesis, Auburn University.

Technical Publications (12) (*Indicates student author)

- 12. Gallagher, S, Schall, M, Sesek, R & **GA Davis**. "Motion Capture of Critical Populations for Vehicle Ingress/Egress." Final Technical Report, HATCI, Ann Arbor, MI (December, 2015)
- 11. **Davis, GA**. "Communications Division Staffing Study." Technical Report, City of Auburn, AL (August, 2005), 31 pages. Public Library, 749 E. Thatch Avenue, Auburn, AL 36830. REF 351.76155 ERG.
- 10. Carnahan, B., *Muhdi, R., *Fu, S., *Darnell, S., **Davis, GA**. & GV Dozier (2005). "GENEVAC: Evolving Exits for Evacuation Models via Genetic Search." Technical Report, Dept. of Computer Science and Software Engineering, Auburn University.
- 9. **Davis, GA**. ScriptPro Pharmacy Study at Veterans Administration (VA) Facilities. "Study of Implementation and Telepharmacy Automation at the VA." Phase (II) Technical Report (January, 2004), 158 pages.
- 8. **Davis, GA**. "Sanitary Sewer Division Manpower Evaluation." Technical Report, City of Auburn, AL (October, 2003), 133 pages. Public Library, 749 E. Thatch Avenue, Auburn, AL 36830. REF 352.9 SAN.
- 7. **GA Davis** & NT Dorris*. "Current Status of Warning-Systems in Forest Harvesting Equipment." USDA Forest Service Research Agreement No. SRS 02-CA-11330132-087. (June, 2003), 21 pages.
- 6. **Davis, GA**. "Staffing Evaluation of the Geographic Information Services (GIS) Division." Technical Report, City of Auburn, AL (June, 2003), 78 pages. Public Library, 749 E. Thatch Avenue, Auburn, AL 36830. REF 352.9 STA.
- 5. **Davis, GA**. ScriptPro Pharmacy Study at Veterans Administration (VA) Facilities. "Study of Implementation and Telepharmacy Automation at the VA." Phase (I) Technical Report (Dec 2002), 143 pages.
- 4. **Davis, GA**. Alabama Technology Network: Alabama Technical Assistance Center (ATAC). Final Technical Report for Novus Industries, Inc. Opelika, AL. "*Determination of Production Standards for Assembling the CPE Box."* (November 2002), 41 pages.
- 3. **Davis, GA**. "EMS Efficiency Study." Final Technical Report, Volumes (I & II), to Lee County, AL, City of Auburn, AL, City of Opelika, AL, and East Alabama Medical Center, Opelika, AL, (August 2002), 386 pages. Public Library, 749 E. Thatch Avenue, Auburn, AL 36830. REF 352.9 LEE.
- 2. LM Payton* & **GA Davis.** "Safety Program Evaluation." Technical Report, KENDALE Industries, Inc., Auburn, AL (2001).
- 1. **Davis, GA**. "Public Safety Patrol Division: Manpower Study." Technical Report, City of Auburn, AL (2001), 209 pages. Public Library, 749 E. Thatch Avenue, Auburn, AL 36830. REF 352.9 TUB.

Presentations (110)

In Review & Accepted (0)

Invited Presentations (18)

- 18. **Davis, GA** (2021). "The Exploitation of Temporary Workers has Serious Consequences." Philo Safety Seminar, Detroit, MI. (9/21).
- 17. **Davis, GA** (2020). "The Rise, Demise, and Potential Resurrection of Safety Engineering in the United States." Philo Safety Seminar, Detroit, MI. (9/11/20).
- 16. **Davis, GA** (2020). Invited lecturer at South Dakota School of Mines and Technology, Rapid City, SD. Presented two (2) lectures on *The Value of Human Life*, and *Ionizing Radiation* to undergraduate IE students and faculty.
- 15. **Davis, GA** (2018). "Changing the Paradigm for School Bus Safety." TEDx Rapid City, SD. June 20th, 2018.
- 14. Abulhassan, Y & **GA Davis** (2017). "Overview of School Bus Evacuation Research at Auburn University." NTSB teleconference, Washington, DC. (4/17).
- 13. **Davis, GA** (2017). "The Intersection of Work Measurement and Ergonomics." Universidad Catolica Del-Norte, Coquimbo, Chile. (1/17).
- 12. Abulhassan, Y & **GA Davis** (2017). "Overview of School Bus Evacuation Research at Auburn University." Transportation Research Board (TRB) subcommittee meeting, Washington, DC. (1/17).
- 11. **Davis, GA** & Garnett, R* (2016). "*Curriculum Improvements in ENGR 4710."* Auburn University NPGS Advisory Board Meeting, Auburn, AL. (10/16).
- 10. **Davis, GA** (2016). "Engineers and Attorneys: An Open Dialog Discussing Workplace and Product Safety." Philo Safety Seminar, Detroit, MI. (9/16).
- 9. Sesek, RF, **Davis, GA** & Salar, M* (2016). "Engineers and Designing for Safety and Ergonomics." Invited presentation, Charlotte Safety School, Gastonia, NC.
- 8. **Davis, GA** (2016). "Occupational Safety & Health in the United States: Reflections of OSHA." Invited lecture, Beijing American Center (BAC), Beijing, China.
- 7. **Davis, GA** (2016). "The Impact of the OSHAct on Safety Education and Research." Keynote address, ASSE Regional Conference, Tampa, FL.
- 6. **Davis, GA** (2015). "*Risk Assessment of a Publicly Accessible Commercial Machine."* Turkish National Workplace Safety Workshop, Izmir, Turkey.
- 5. **Davis, GA** (2015). Invited lecturer at South Dakota School of Mines and Technology, Rapid City, SD. Presented two (2) lectures on *Work Methods Research, and Human Evacuation Research,* to graduate and undergraduate IE students and faculty.
- 4. **Davis, GA** (2014). "*Risk Assessment Methodologies*". Consumer Product Safety Commission (CPSC), Bethesda, MD.
- 3. **Davis, GA** (2014). Invited lecturer at Millersville University, PA, Occupational Safety, Environmental and Health Program. Presented three (3) lectures on *Work Methods, Ionizing Radiation*, and *Systematic Risk Assessment* to UG students and faculty.

- 2. **Davis, GA** (2012). "Introduction to System Safety: Tools and Techniques Human Performance in Evacuation: A Retrospective Look to the Future." Second Annual Jack Bisantz Occupational Safety & Health Lecture, University of Buffalo. Invited Speaker.
- 1. **Davis, GA** (2009). "*Ergonomics: Cost Analysis and Budgeting."* ASSE National Webinar, Invited Speaker. 2/18/09.

Conference Presentations (92)

- 92. Nageswaran, S*, Gunter, LA, Sesek, RF, **Davis, GA**. (2020). Using RFID to Quantify School Bus Evacuation Times. 5th NA International Conference on Industrial Engineering and Operations Management. Detroit, MI, August 10-12, 2020.
- 91. Nageswaran S*, **Davis GA**, Abulhassan Y, Sesek RF, Gallagher S, Schall Jr MC. Implications of a Lift Lever Belt Buckle on School Bus Emergency Evacuations. 18th Annual Utah NORA Symposium. 2020 April 17, Salt Lake City, UT.
- 90. Gunter, LA, **Davis, GA,** Abulhassan, Y (2020). "Design Improvements for School Bus Emergency Evacuation Systems." ERC Southeast Regional Research Symposium, February 27-28, 2020. Birmingham, AL.
- 89. Nageswaran S*, **Davis, GA**, Sesek, RF, Gallagher, S, Schall, Jr, MC, Abulhassan, Y (2020). "Evaluating the Physical Capabilities of Children to Unlatch a School Bus Seat Belt Latch." ERC Southeast Regional Research Symposium, February 27-28, 2020. Birmingham, AL. Poster presentation.
- 88. Smith, TG. Gallagher, S, Schall Jr, MC, Sesek, RF, **Davis, GA** (2020). "Impact of Rest on Systematic Inflammation and Tissue Trauma in a Rat Model." ERC Southeast Regional Research Symposium, February 27-28, 2020. Birmingham, AL. Poster presentation.
- 87. Smith, TG. Gallagher, S, Schall Jr, MC, Sesek, RF, **Davis, GA** (2020). "Impact of Rest on Systematic Inflammation and Tissue Trauma in a Rat Model." ERC Southeast Regional Research Symposium, February 27-28, 2020. Birmingham, AL. Poster presentation.
- 86. Abulhassan, Y, Gunter, LA, **Davis, GA**. Challenges for Young Students when Operating School Bus Emergency Exits. School Transportation Network EXPO, Indianapolis, IN. June 2019.
- 85. **Davis, GA** (2018). "Maintenance Issues & Walking/Working Surfaces." IEOM Conference 2018, Pretoria, South Africa (10/18).
- 84. Badawy M*, Schall Jr MC, Zabala M, Coker J, Sesek RF, Gallagher S, **Davis GA**. "Trunk Kinetics and Kinematics among Obese and Older Individuals during One-handed Carrying." XXVII Congress of the International Society of Biomechanics (ISB2019), held in conjunction with the 43rd Annual Meeting of the American Society of Biomechanics (ASB2019); 2019 July 31- August 4, Calgary, Alberta, CAN. Coker presenting author.
- 83. **Davis, GA** (2018). "Revisiting the OSHA Hand Speed Constant." Philo Safety Seminar, Detroit, MI. (9/18).
- 82. Schall Jr MC, Bevly D, **Davis GA**, Gallagher S, Sesek RF, Zabala ME. "Operator 4.0: Collaborative Research to Improve Worker Performance and Safety during the 4th Industrial Revolution" This is Research: Faculty Symposium, 2018 October 23; Auburn, AL.
- 81. Salar, M, Sesek, RF, Capanoglu, MF*, Gallagher, S, Schall Jr, MC, **Davis, GA** (2018). "Evaluating the Reliability of MRI-derived Biomechanically-relevant measures." *20th Congress International*

- Ergonomics Association. August 26-30, 2018. Florence, Italy.
- 80. Salar, M, Sesek, RF, Capanoglu, MF*, Sun, W, Gallagher, S, Schall Jr, MC, **Davis, GA** (2018). "Quantifying Vertebral Endplate Degeneration Using the Concavity Index." 20th Congress International Ergonomics Association. August 26-30, 2018. Florence, Italy.
- 79. Salar, M, Sesek, RF, Capanoglu, MF*, Gallagher, S, Schall Jr, MC, **Davis, GA** (2018). "Can the Revised NIOSH Lifting Equation be improved by Incorporating Personal Characteristics?" *20th Congress International Ergonomics Association*. August 26-30, 2018. Florence, Italy.
- 78. Badawy, M*, Schall Jr, MC, Coker, J*, Sesek, RF, **Davis, GA**, Zabala, ME, Gallagher, S (2018). "Effect of Obesity on Trunk Muscle Activity During One-handed Carrying." 42nd Annual Meeting of the American Society of Biomechanics; 2018 August 8-11, Rochester, MN.
- 77. Schall Jr, MC, Gallagher, S, Sesek, RF, Huangfu, R*, **Davis, GA** (2018). "Musculoskeletal Disorders as a Fatigue Failure Process: A New Foundation for Risk Assessment: Workshop and Short Course Musculoskeletal Disorders." Presentations include "Evidence and Implications," "A New Low Back Exposure Assessment Tool," The Distal Upper Extremity Tool (DUET)," "Collecting and Assessing Job Related Data," and "Future Research Needs." 20th Congress International Ergonomics Association. August 26-30, 2018. Florence, Italy.
- 76. **Davis, GA** (2018). "School Bus Evacuation Times in the United States." Florida Association for Pupil Transportation (FAPT), Wesley Chapel, FL. July 11th, 2018.
- 75. Gunter, A and **Davis, GA** (2018). "School Bus Safety Research: Usability of Emergency Evacuation Exits." Florida Association for Pupil Transportation (FAPT), Wesley Chapel, FL. July 11th, 2018.
- 74. Callender, A, Abulhassan, Y, **Davis, GA**, Sesek, RF, Gallagher, S, Schall Jr, MC (2018). "Children's Cognitive Abilities to Understand Emergency Instructions in a Rolled over School Bus." *Annual Meeting of the Association for Psychological Science*. May 24-27, 2018. San Francisco, CA.
- 73. Badawy, M*, Schall Jr, MC, Gallagher, S, Sesek, RF, **Davis, GA** (2018). "How much Load should Young Adult Obese Males Carry in One Hand?" *2018 Deep South Center for Occupational Health and Safety Research Symposium*. April 3-4, 2018. Savannah, GA.
- 72. Gunter, A., **Davis GA**, Abulhassan Y., Schall Jr MC, Gallagher S, Sesek RF. School Bus Emergency Exit System Improvement Evaluation. *Deep South Center for Occupational Health and Safety Research Symposium*; 2018 April 3-4; Savannah, GA.
- 71. Badawy, M*, Schall Jr, MC, Gallagher, S, Sesek, RF, **Davis, GA** (2018). "One-Handed Carrying in the Workplace: A Systematic Review of the Literature." *2018 Applied Ergonomics Conference*. March 26-29, 2018. Atlanta, GA.
- 70. Sesek, RF, Gallagher, S, Schall, M, and **Davis, GA** (2018). "Musculoskeletal Risk Assessment Using Fatigue Failure Methods and Increased Personalization." 4-hour workshop presented at *34th Annual Conference on Safety and Industrial Hygiene (invited)*. Salt Lake City, Utah. October 11, 2017.
- 69. Schall Jr, MC, Granzow, RF*, Smidt, M, Sesek, RF, Gallagher, S, **Davis, GA** (2017). "Applying Wearable Sensors to Characterize Exposures to Ergonomic Hazards among Alabama Forestry Workers." Presented at *This is Research: Faculty Symposium*. September 22, 2017. Auburn, AL.
- 68. Badawy, M*, Schall, MC, Sesek, R, Gallagher, S and **GA Davis** (2018). "One-Handed Carrying in the Workplace. A Systematic Review of the Literature." 20th Annual Applied Ergonomics Conference, Atlanta, GA (Accepted).
- 67. Sesek, RF, Gallagher, S, Schall Jr, MC, and Davis, GA (2017). "Musculoskeletal Risk Assessment

- Using Fatigue Failure Methods and Increased Personalization." 4-hour workshop presented at 34th Annual Conference on Safety and Industrial Hygiene. 2017 October 11; Salt Lake City, UT.
- 66. Schall Jr, MC, Granzow, RF*, Smidt, M, Sesek, RF, Gallagher, S, **Davis, GA** (2017). "Applying Wearable Sensors to Characterize Exposures to Ergonomic Hazards among Alabama Forestry Workers." *This is Research: Faculty Symposium*, 2017 September 22; Auburn, AL.
- 65. **Davis, GA** (2017). "Work Methods & Ergonomics: The Intersection." *Workers' Compensation Educational Conference*, Orlando, FL.
- 64. **Davis, GA** & Y Abulhassan (2017). "Human Performance Implications Associated with School Bus Evacuation." *Florida Association for Pupil Transport Annual Conference*, Ponte Vedra Beach, FL.
- 63. Huangfu, R*, Lusk, C*, Gunter, L*, **Davis, GA**, Y Abulhassan (2017). "Does Wearing a Smoke Hood Impede One's Ability to See Stairs While Descending?" *ATINER Industrial Engineering Conference*, Athens, Greece.
- 62. Sims, L, **Davis, GA**, Gallagher, S, Schall, MC (2017). "An Interactive Model of Personal Protective Equipment (PPE) Donning and Doffing Times." *ATINER Industrial Engineering Conference*, Athens, Greece.
- 61. Gallagher, S, Schall Jr, MC, Sesek, RF, Thomas, RE, and **Davis, GA** (2016). "*Cutting Edge Ergonomics."* 8-hour Workshop. 2016 December 12; Auburn, AL.
- 60. Abulhassan, Y*, **Davis, GA**, Sesek, RF, Gallagher, S & MC Schall Jr (2016). "Impact of School Bus Post-accident Orientation on Egress through the Rear Emergency Exit." 14th Annual National Occupational Research Agenda (NORA) Young/New Investigators Symposium; 2016 April 14-15; Salt Lake City, UT.
- 59. Sesek, RF, Gallagher, S, Schall Jr, MC, Thomas, RE, and **Davis, GA** (2016). "How to Apply Ergonomics Principles in the Real World." 8-hour Workshop. 2016 August 8; Auburn, AL.
- 58. Huangfu, R*, **Davis, GA**, Abulhassan, Y*, Schall Jr, MC, Sesek, RF & S Gallagher (2016). "Quantifying Stairwell Evacuation Times." Auburn University This is Research: Student Symposium; 2016 April 12-13; Auburn, AL.
- 57. Granzow, R*, Schall Jr, MC, Gallagher, S, Sesek, RF, Huangfu, R* & **GA Davis** (2016). "Strategies for Vehicle Ingress/Egress: Aging and Obese Populations." 5th Annual Southeastern States Occupational Network (SouthON) Meeting; 2016 March 8-9; New Orleans, LA.
- 56. **Davis, GA**, Huangfu, R*, Sesek, RF, Schall, Jr, MC & S Gallagher (2016). "Smoke hood design considerations for stairwell evacuation," presented at 4th Annual International Conference on Industrial, Systems, and Design Engineering, Athens, Greece. June, 2016.
- 55. Sesek, RF, **Davis, GA** & M Salar* (2016). "Risk Assessment and Management: A Hands-on Approach Using a Case Study." Charlotte Safety School Annual Conference Charlotte, NC. April 21, 2016.
- 52. Huangfu, R*, **Davis, GA**, Abulhassan, Y, Schall Jr, MC, Sesek, RF, Gallagher, S (2016). "Quantifying Stairwell Evacuation Times." *Auburn University This is Research: Student Symposium*; 2016 April 12-13; Auburn, AL.
- 53. Abulhassan, Y*, **Davis, GA**, Sesek, RF, Gallagher, S & MC Schall Jr (2016). "Impact of School Bus Post-Accident Orientation on Egress through the Rear Emergency Exit." 14th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 14-15, 2016.

- 52. Huangfu, R*, **Davis, GA**, Schall, MC, Sesek, RF, Gallagher, S & RE Thomas (2016). "Smoke Hood Considerations for Stairwell Evacuation." *ATINER Industrial Engineering Conference*, Athens, Greece.
- 51. Granzow, RF*, Schall Jr, MC, Gallagher, S, Sesek, R, Huangfu, R*, **Davis, GA** (2016). "Strategies for Vehicle Ingress/Egress: Aging and Obese Populations." 5th Annual Southeastern States Occupational Network (SouthON) Meeting; 2016 March 8-9; New Orleans, LA.
- 50. **Davis, GA** (2015). "OSHA Forty (40) Years and Counting." *Turkish National Workplace Safety Conference*, Izmir, Turkey.
- 49. **Davis, GA**, Sims, L*, Sesek, RF & S. Gallagher (2015). "Developing Empirical Standards for Donning Smoke Hoods." *ATINER Industrial Engineering Conference*, Athens, Greece.
- 48. **Davis, GA** & Salar, M* (2015). "Risk Assessment of a Publically Accessible Commercial Machine." Sharing Safety Strategies: A Workshop for International Safety Exchange. Yasar University & Auburn University, Izmir, Turkey. July 2, 2015.
- 47. Huangfu, R*, Granzow, R*, Su, S*, Huang, Z*, Gallagher, S, Schall Jr, MC, Sesek, RF & **GA Davis** (2015). "Motion Capture of Critical Populations for Vehicle Ingress and Egress." Auburn University College of Engineering Graduate Research Showcase; 2015 October 22; Auburn, AL. (Awarded Best in Industrial and Systems Engineering)
- 46. Sesek, RF, Devall, T, Megahed, F, **Davis, GA**, Thomas, R, and S. Gallagher (2015). "Research at the Speed of Industry: Integrating Research and Problem Solving into the Curriculum." *Brouha Work Physiology Symposium*. Greenville, SC.
- 45. Sesek, RF, Devall, and **GA Davis** (2015). ""R2C2P: Translating Academic Theory to Practice with Classroom Experimentation." *Deep South Center for Occupational Health and Safety Research Symposium.* Opelika, AL.
- 44. Cao, L*, **Davis, GA**, Gallagher, S, and RF Sesek (2015). "The Impact of Posture on Evacuation Speed." *Deep South Center for Occupational Health and Safety Research Symposium*, Opelika, AL.
- 43. Sesek, RF, Gallagher, S, **Davis, GA**, and R Thomas (2015). "Occupational Safety and Ergonomics (OSE) at Auburn University." First Workshop Internacional de Ingenieria Aplicada, Universidad Austral de Chile, Puerto Montt.
- 42. Abulhassan, Y* & **GA Davis** (2015). "Physical Requirements to Evacuate a School Bus Using Emergency Evacuation Systems." Applied Ergonomics Conference, Nashville, TN.
- 41. Sims, L* & **GA Davis** (2015). "Development of Standard Data for Donning & Doffing Personal Protective Equipment." Applied Ergonomics Conference, Nashville, TN.
- 40. Haynes, K*, Sesek, RF & **GA Davis** (2015). "Warning Symbol Methodology." Applied Ergonomics Conference, Nashville, TN.
- 39. Cao, LI*, **Davis, GA**, and S Gallagher (2014). "The Impact of Posture on Evacuation Speed." 2nd International Tall Building Fire Safety Conference, London, England.
- 38. Sesek, R, Gungor, C*, Tang, R*, and **GA Davis** (2014). "America's Changing Work Force: Ramifications for Ergonomic Modeling." *American Society of Safety Engineers Annual Meeting*.
- 37. **Davis, GA**, Tang, R*, Sesek, RF, and S Gallagher (2014). "Evaluating Firefighter Crawling Performance in a Controlled Environment." *5th International Conference on Applied Human Factors and Ergonomics*, Krakow, Poland.

- 36. Gallagher, S, Sesek, RF, and **GA Davis** (2014). "Effects of Force and Repetition on Inflammation during Eccentric Muscle Contractions." *5th International Conference on Applied Human Factors and Ergonomics*, Krakow, Poland.
- 35. Sesek, R, Tang, R*, Gungor, C*, Gallagher, S, **Davis, GA**, and KB Foreman (2014). "Using MRI-Derived Spinal Geometry to Compute Back Compressive Stress (BCS): A New Measure of Low Back Pain Risk." 5th International Conference on Applied Human Factors and Ergonomics, pp. 2394-2399, (7/14), Krakow, Poland.
- 34. **Davis, GA** (2013). "Introduction to "Systems Safety" Tools and Techniques." ASSE Regional Conference, Anchorage, AK.
- 33. **Davis, GA** (2013). "Fault-Tree Analysis and its Role in Risk Assessment" ASSE Regional Conference, Anchorage, AK.
- 32. **Davis, GA** (2013). "Human Performance in Evacuation: A Retrospective Look to the Future." ASSE Regional Conference, Birmingham, AL.
- 31. Sesek, R, Wei, J* & **GA Davis** (2012). "Modular Safety training for Student Design Competition Teams." 10th Annual Regional NORA Young Investigator Symposium. Salt Lake City, UT.
- 30. Sesek, R & **GA Davis** (2011). "Engaging OSH Students in Active Learning." *American Society of Safety Engineers Annual Meeting.* Chicago, IL.
- 29. Piper, AK*, Boelhouwer, EJ* & **GA Davis** (2010). "Converging International Safety Symbol Designs Using Distributed Interactive Evolutionary Computation." *Proceedings of the 2010 Industrial Engineering Research Conference*.
- 28. Sesek, R & **GA Davis** (2010). "Rules of Thumb and Safety truisms." *American Society of Safety Engineers Annual Meeting.*
- 27. Sesek, R, **Davis GA** & W Park (2010). "America's Changing Workforce: Anything but Lean." Emerging Issues in Occupational Health and Safety, Destin, FL.
- 26. Sesek, R & **GA Davis** (2010). "How Ergo/Safety Practitioners determine which Portions of Tasks are limiting or Potentially Injurious." Alabama Automotive Manufacturers Association, Opelika, AL.
- 25. Piper, AK*, Boelhouwer, EJ* & **GA Davis** (2009). "The Use of Hazard and Precautionary Symbols on Safety Data Sheets." *Proceedings of the Human Factors and Ergonomics Society (HFES), 53rd Annual Meeting*.
- 24. Kady, R, Gwynne, S & **GA Davis** (2009). "A Review of the Sources of Occupant Performance Data Used in Building Evacuation Models." *Proceedings of the Human Behaviour in Fires Conference.*
- 23. Piper, AK*, Montgomery, LS* & **GA Davis** (2008). "Using Artificial Intelligence to Assist Individuals and Focus Groups in Designing Safety Warning Symbols." Proceedings of the 2008 Industrial Engineering Research Conference.
- 22. R Muhdi* & **GA Davis** (2007). "Helping Safety Managers Make Project Decisions in the Workplace: The Weighted Scoring Decision Making Approach." American Society of Safety Engineers (ASSE) Conference.
- 21. **GA Davis** (2006). "Using RULA to Generate Job Rotation Schedules." Brouha Work Physiology Conference, Salt Lake City, Utah

- 20. D Desai*, S Walker & **GA Davis** (2006). "Using RULA to Generate Job Rotation Schedules: Perspective of Assembly Line Supervisors." American Society of Safety Engineers (ASSE) Conference.
- 19. RE Thomas & **GA Davis** (2005). "Earning a Ph.D. from an Engineering Based Safety & Ergonomics Program: The Case for a Flexible Campus Based Approach." American Society of Safety Engineers (ASSE) Conference.
- 18. **GA Davis** (2004). "Self-Reporting Issues Associated with the Collection Safety and Ergonomics Data." Brouha Work Physiology Conference (2004), Keystone, CO.
- 17. **GA Davis** & RE Thomas (2004). "Safety Faculty Support of Student Contest Projects." American Society of Safety Engineers (ASSE) Conference.
- 16. LR Wade*, W Weimar & **GA Davis** (2004). "Effect of Personal Protective Eyewear on Postural Stability." American Industrial Hygiene Association, Annual Meeting.
- 15. LR Wade*, W Weimar & **GA Davis** (2003). "Effect of Flat Surface Postural Stability Following Extended Duration on A Pitched Roof Setting." Poster at the Human Factors and Ergonomics Society, 47th Annual Meeting.
- 14. NT Dorris* & **GA Davis** (2003). "Testing the Effects of Label Deterioration on the Legibility and Comprehensibility of Warnings," Human Factors and Ergonomics Society, 47th Annual Meeting.
- 13. RE Thomas & **GA Davis** (2003). "Challenges Associated with Maintaining an Engineering Based Safety Education Program." American Society of Safety Engineers (ASSE) Conference.
- 12. NT Dorris* & **GA Davis**. "Current Status of Warning-Systems in Forest Harvesting Equipment." National Occupational Research Agenda (NORA) Conference, Washington, DC.
- 11. LR Wade*, W Weimar, **GA Davis** & BJ Carnahan. "The Influence of a Roofing Task on Unilateral Balance." National Occupational Research Agenda (NORA) Conference, Washington, DC.
- 10. **GA Davis**. "Use of Industrial Work Measurement Techniques in Municipal Applications." Conference on Governmental Excellence and Best Practices, Montgomery, AL (2003).
- 9. **GA Davis**. "OSHA's Ergonomic Program Standard: An Overview." Alabama Textile Manufacturers Association Health & Safety Conference (2001).
- 8. **GA Davis**. "Back Belt Tension as Applied by User's." Invited Lecturer, Wichita State University, Department of Industrial & Manufacturing Engineering (2000).
- 7. **GA Davis**. "Studies Conducted Using A Spinal Curvature Measuring Device (SCMD)." Brouha Work Physiology Conference (2000), Lexington, KY.
- 6. **GA Davis**, RE Thomas & RB Rummer. "An Evaluation of Forest Harvesting Hazards in East Central Alabama." Applied Ergonomics Conference (2000).
- 5. RR Releford*, **GA Davis** & RE Thomas. "The use of Rapid Upper Limb Assessment (RULA) as an Ergonomic Evaluation Tool in Industry." American Industrial Hygiene Association Conference (1999).
- 4. **GA Davis**, TD Reed & RE Thomas. "A Further Validation of RULA." Brouha Work Physiology Conference (1998).
- 3. **GA Davis**. "A Further Validation of RULA." American Industrial Hygiene Association Conference Poster Presentation (1998).

- 2. **GA Davis**. "Evaluation of the Effects of Alternative Safety Helmet Designs in a Hot Environment." (NOIRS) National Occupational Injury Research Symposium (1997).
- 1. **GA Davis**. "Evaluation of the Effects of Alternative Safety Helmet Designs in a Hot Environment." Brouha Work Physiology Conference (1997), Seattle, WA.

Proposals in Review (0)

Unfunded proposal summary

I have submitted (or contributed to team submissions) approximately two dozen proposals totaling in excess of \$3,500,000 to major agencies such as NSF, NIOSH, NIST, DHS, USDA, AHRQ, FEMA that were not selected for funding. These proposals included collaboration with over two dozen other PI/Co-PI's both internal and external to Auburn University.

Grants and Contracts (\$4,567,487) [Davis Portion of Funding \$2,136,251] Gallagher, S, Sesek, RF, Schall Jr, MC and **Davis, GA**. NIOSH R21 Grant. "The Low Back Cumulative Trauma Index: Development of an Exposure Assessment Tool based on Fatigue Failure Theory." Funded for \$272,198 (9/1/18-8/31/20).

GA Davis, R. Sesek, S. Gallagher & MC Schall (2017). NIOSH ERC Training Grant T42/OH008434-07; "*Pilot Project Research Training Program."* Funded for \$322,920 (7/1/17-6/30/20) based on last competing proposal.

- \$107,640 (7/1/19-6/30/20)
- \$107,640 (7/1/18-6/30/19)
- \$107,640 (7/1/17-6/30/18)

Gallagher, S, Schall, MC, Sesek, RF & **GA Davis** (2016-18). "Chronic Cyclic Fatigue Failure & Muscular Fatigue in the Lumbar Spine." Funded for \$144,043 by CFD Research Corporation, Huntsville, AL.

Garnett*, R, & **GA Davis** (2016). "Hand Speed and OSHA Machine Guarding." Submitted to Sunshine ERC, Tampa, FL, Pilot Projects Research Training Program. Funded for \$4,419 by NIOSH.

Gallagher, S, Sesek, RF, **Davis, GA** & M Schall (2015). "Motion Capture of Critical Populations for Vehicle Ingress/Egress." Funded for \$79,960 by HATCI, Ann Arbor, MI.

Callender, A, **Davis, GA**, and Y. Abulhassan* (2015). "Cognitive & Physical Capabilities of Children in Operating and Exiting a Rolled-Over School Bus Escape Hatch." Funded for \$24,000 by Auburn University Intramural Grant Program.

Abulhassan*, Y, & **GA Davis** (2014). "Physical Requirements to Evacuate a School Bus Using Emergency Evacuation Systems." Submitted to NIOSH, DSCOHS, Pilot Projects Research Training Program. Funded for \$12,000 by NIOSH.

Cao*, Li, S. Gallagher & **GA Davis** (2013). "The Impact of Crawling Postures on Speed and Physiological Demand during Evacuation." Submitted to NIOSH, DSCOHS, Pilot Projects Research Training Program. Funded for \$12,000 by NIOSH.

Boelhouwer*, EJ & **GA Davis** (2009). "Improving Comprehension of GHS Safety Data Sheets." Submitted to NIOSH, DSCOHS, Pilot Projects Research Training Program. Funded for \$12,000 by NIOSH.

Piper*, AK & GA Davis (2009). "Designing Safety Warning Symbols with Artificial Intelligence Focus

Groups." Pilot Projects Research Training Program. Funded for \$12,000 by NIOSH.

Valenzuela, J & **GA Davis**. "US – Korea: Planning Visit to Add an International Experience to REU." Funded for \$13,651 by NSF (2008).

Lodree, E., **GA Davis** & RL Bulfin, "Sequencing Human Tasks: A New Paradigm for Scheduling Research, Graduate Research Supplement." Funded for \$27,280 by NSF (2007-09).

Valenzuela, J & **GA Davis**. "REU Site in Automotive Manufacturing Systems." Funded for \$245,000 by NSF (2007-09).

Lodree, E. Bulfin, RL & **GA Davis**. "Sequencing Human Tasks: A New Paradigm for Scheduling Research." Funded for \$199,319 by NSF (2006-08).

GA Davis. US Pipe & Foundry, Inc. "Ergonomics & Safety Best Practices Evaluation." Funded for \$4,000, (2005).

GA Davis. Auburn Engineers, Inc. "Ergonomics Best Practices Evaluation." Funded for \$5,000, (2005).

GA Davis. "Study to Evaluate Alabama Mental Health Pharmacy Service." Joint with the Center for Pharmacy Operation and Design (CPOD), AU. Funded for \$21,214 (05).

GA Davis. "MMI – USP 797 and Beyond." Joint with the Center for Pharmacy Operation and Design (CPOD), AU. Funded for \$16,632 (May 05).

GA Davis, R. Sesek, S. Gallagher & MC Schall (2017). NIOSH ERC Training Grant T42/OH008434-07; "Occupational Safety and Ergonomics Program." Funded for \$1,636,530 (7/1/17-6/30/22) based on last competing proposal;

- \$163,500 (7/1/20-12/31/20): **Davis** Faculty effective 1/1/21
- \$327,000 (7/1/19-6/30/20)
- \$327,000 (7/1/18-6/30/19)
- \$327,306 (7/1/17-6/30/18): **Davis** PI effective 7/1/17
- \$226,050 (7/1/16-6/30/17)
- \$226,050 (7/1/15-6/30/16): Schall added as Co-PI.
- \$226,049 (7/1/14-6/30/15): Sesek PI, **Davis** supporting faculty, effective 7/1/14
- \$211,090 (7/1/13-6/30/14)
- \$219,743 (7/1/12-6/30/13): Gallagher added as Co-PI.
- \$224,846 (7/1/11-6/30/12)
- \$208,622 (7/1/10-6/30/11)
- \$229,018 (7/1/09-6/30/10): Davis PI effective 7/1/09, Sesek added as Co-PI.
- \$209,841 (7/1/08-6/30/09)
- \$181,960 (7/1/07-6/30/08)
- \$172,901 (7/1/06-6/30/07)
- \$210,910 (7/1/05-6/30/06): Thomas PI, Davis Co-PI effective 7/1/05

S. Gallagher, R. Sesek, MC Schall & **GA Davis** (2017). NIOSH ERC Training Grant T42/OH00843436-07; "Occupational Injury Prevention Research Training." Funded for \$561,300 (7/1/17-6/30/22) based on last competing proposal;

- \$53,500 (7/1/20-12/31/20): **Davis** Faculty effective 1/1/21
- \$111,000 (7/1/19-6/30/20)
- \$111,000 (7/1/18-6/30/19)
- \$111,949 (7/1/17-6/30/18)
- \$111,949 (7/1/16-6/30/17)
- \$111,949 (7/1/15-6/30/16)

- \$111,949 (7/1/14-6/30/15): **Davis** supporting faculty, effective 7/1/14
- \$104,197 (7/1/13-6/30/14)
- \$103,900 (7/1/12-6/30/13): Gallagher PI, **Davis** & Sesek **Co-PI**'s.
- \$110,518 (7/1/11-6/30/12)
- \$111,129 (7/1/10-6/30/11)
- \$ 90,455 (7/1/09-6/30/10): **Davis** Co-PI effective 7/1/09, Sesek PI
- \$113,685 (7/1/08-6/30/09)
- \$ 92,058 (7/1/07-6/30/08)
- \$120,119 (7/1/06-6/30/07)
- \$121,688 (7/1/05-6/30/06): **Davis** PI effective 7/1/05

GA Davis. NIOSH Deep South Deep South Center for Occupational Safety & Health. "*Ergonomics Training Course Development and Delivery."* Funded for \$5,811 (Sept 04) and \$5,891 (April 04).

GA Davis. Equipment grant from NIOSH Deep South Center for Occupational Safety & Health (DSC). Funded for \$20,000 to purchase Neuro-Com Long-Board Balance Master system (April 04).

GA Davis & NT Dorris*. United States Forest Service. "The Effects of Deterioration on the Comprehensibility of Warnings Associated with Forest Harvesting Equipment." Funded for \$31,270 (2003-04).

GA Davis & BJ Carnahan. ScriptPro Pharmacy Study at Veterans Administration (VA) Facilities. "The Impact of Telepharmacy Concepts in VA Facilities on Manpower and Productivity Issues." Funded for \$88,000 (2002-03).

GA Davis & RE Thomas. United States Forest Service, "Current Status of Warning Systems in Forest Harvesting Equipment." Funded for \$30,214 (2002-03).

GA Davis. Cities of Auburn & Opelika, Alabama; Lee County, Alabama, and East Alabama Medical Center (EAMC). Funded for "EMS Efficiency Study." \$69,120 (2002).

GA Davis. City of Auburn, Alabama, Public Safety Department. "Manpower Assessment of the Police Patrol Division." Funded for \$37,076 (2001).

Other Funding

Davis, GA. Samuel Ginn College of Engineering. "CoE Safety Project." Internally funded for \$330,588 (2005-11).

Davis, GA & Payton, LN. "Nuclear Power Generation System (NPGS) Minor." Funding donated to the CoE by the nuclear industry and individuals to support the establishment and delivery of this minor.

<u>Individual</u>

- Mr. Oliver Kingsley, \$20,000 (2011)
- Mr. Ken Roebuck, \$8,000 (2011)

Corporate

- Williams Industrial Services Group, LLC, \$50,000 commitment, \$16,667 (2011)
- Tennessee Valley Authority (TVA), \$125,000 commitment, \$50,000 (2011)
- Southern Company, \$800,000 (2011)

Teaching Experience

Auburn University, (Assistant/Associate/Full - Professor) INSY Engineering

Courses Taught

| INSY 3020 | Occupational Ergonomics & Safety |
|----------------|---|
| INSY 3021 | Ergonomics & Work Measurement Laboratory |
| INSY 4500 | Professional Practice |
| INSY 4800 | Senior Design |
| INSY 5010 | Safety Engineering (I) (Undergraduate Piggyback Version) |
| INSY 6010(6) | Safety Engineering (I) (Outreach Course) |
| INSY 6940 | Special Projects (Work Measurement) |
| INSY 7050(6) | Industrial Hygiene (Outreach Course) |
| INSY 7060(6) | Ergonomics (I) (Outreach Course) |
| INSY 7190/7390 | OSE/IP Forum (I/II) |
| INSY 7290/7490 | OSE/IP Practicum (I/II) |
| INSY 7940(6) | Special Projects: Preparation for Certification in Safety & Ergonomics |
| INSY 7950(6) | Department Seminar (Outreach Course) |
| INSY 7970(6) | Special Topics (Research Methods in OSE/IP & Advanced Safety Engineering) |
| INSY 7980(6) | Master's in Industrial and Systems Engineering Project |
| INSY 7990 | Research and Thesis |
| INSY 8010(6) | Advanced Safety Engineering |
| INSY 8990(6) | Research and Dissertation |

Courses Developed & Taught

| ENGR 2700 | Introduction to Nuclear Power Operations (w Dr. Payton) |
|----------------|--|
| ENGR 4710 | Advanced Reactor Plant Operations (I): Plant Safety and Reliability, |
| | Radiological Health and Work Controls |
| INSY 3021 | Methods Engineering & Work Measurement Course |
| INSY 3021L | Ergonomics, Safety and Work Measurement Lab, to accompany INSY 3021 |
| INSY 7020(6) | Safety Engineering II (Outreach Course) |
| INSY 7190/7390 | OSE/IP Forum (I/II) (w Drs. Sesek & Gallagher) |
| INSY 7290/7490 | OSE/IP Practicum (I/II) (w Drs. Sesek & Gallagher) |
| INSY 7940(6) | Special Projects: Preparation for Certification in Safety & Ergonomics |
| INSY 7970(6) | Advanced Work Measurement Principles |
| INSY 8010/7976 | Advanced Safety Engineering (Behavioral Based Safety)/(Process Safety |
| | Management)/(School Bus Evacuation)/(Research Proposal Preparation & |
| | Submission)/(Engineers and the Law: Expert Witness) |
| INSY 8060 | Advanced Ergonomics |

Awards

American Society of Safety Professionals, Alabama Chapter, **Safety Professional of the Year** (2020).

Daniel & Josephine Breeden Endowed Professorship (2015-Present).

Professional Improvement Leave, funded by Auburn University for Spring Semester, 2014.

Nuclear Power Generation Systems **Endowed Professorship** (2011-15).

Safety efforts for the 2005 Solar Car project resulted in Auburn University receiving the **`Safety Award'** for the 700 mile Topeka, KS racing event (May 05).

Outstanding Faculty Member, Graduate School. Student Government Association (2004-05).

Outstanding Faculty Member, Industrial & Systems Engineering (2002-03).

Safety efforts developed for the *Solar House* project resulted in Auburn University being awarded **'Best Construction Safety'** for the competition (2002).

Graduate Dean's Award for Excellence (2001-02).

Recognition for achievement as the **Samuel Ginn College of Engineering Outstanding Doctoral Student** (2001-02).

United States Navy: Meritorious Service Medal (1998), Navy Commendation Medal (1994 & 1998), and Navy Achievement Medal (1992)

Student Awards, Certifications & Honors

Yousif (Joe) Abulhassan, PhD, CSP, CPE. American Society of Safety Engineers, \$500 Scholarship, 2014, NIOSH Pilot Project Research Training Grant, 2014. "Physical Requirements to Evacuate a School Bus Using Emergency Evacuation Systems." "Relating Strength Capabilities of Children to the Design of School Bus Emergency Roof Hatches", selected by the HFES Safety TG for the **Best Student Paper Award**.

Shaman Ahuja, MISE, CSP.

Kevin Barefield, MISE, AEP. JJ Keller and Associates 2009 Scholarship Recipient; GTRI OTI Student Scholarship to attend Process Safety Training, 2009; NIOSH Fellowship.

Tami Blackwell, MISE, CPE. American Society of Safety Engineers, \$500 Scholarship, 2010. NIOSH Fellowship.

Eric Boelhouwer, PhD, CSP, CPE. Informs Doctoral Colloquium; Alpha Pi Mu, Industrial Engineering Honor Society, 2007; NIOSH Fellowship; NIOSH Pilot Project Research Training Grant, 2009. "Improving Comprehension of GHS Safety Data Sheets", funded for \$12,000.

Li Cao, PhD, CPE, CSP. NIOSH Pilot/Small Research Training Grant, 2013. "The Impact of Crawling Posture

on Speed and Physiological Demand in Evacuation." Funded for \$12,000.

Deepesh Desai, MISE, CPE.

Nathan Dorris, PhD, CPE. NIOSH Fellowship.

Claudia Escobar, MS, CPE.

Richard Garnett, PhD, PE, PMP, ASP. NIOSH Fellowship. NIOSH Pilot/Small Research Training Grant, 2017. "OSHA After-Reach Hand Speed Update." Funded for \$4,300.

Alan Gunter, PE, MISE, CSP. NIOSH Fellowship. NIOSH Pilot/Small Research Training Grant, 2018. "School Bus Emergency Exit Systems." Funded for \$12,000.

Rani Kady, PhD, ASP. Beno Memorial Scholarship, PRIMA, 2006. Description: National award for outstanding leadership potential in occupational safety, from the Public Risk management Association; Session Best Paper Award. Garrett, A*, Carnahan, B, Muhdi, R*, GA Davis, Dozier, G, SanSoucie, M, Hull, P, and M. Tinker (2006). "Evacuation Planning via Evolutionary Computation." IEEE Congress on Evolutionary Computation, CEC 2006, pp. 157-164; Informs Doctoral Colloquium; NIOSH Fellowship.

Shiva Nageswaran, MISE, CSP, AEP. NIOSH Pilot/Small Research Training Grant, 2019. "Evacuation Issues Associated with Seat Belts on School Buses." Funded for \$12,000.

Christopher (CW) Perr, PhD. American Society of Safety Engineers, \$500 Scholarship, 2013, NIOSH Fellowship.

Adam Piper, PhD, CSP. Session Chair, 2008, for Usability/Evaluations and Safety Symbols Session, Human Factors/Ergonomics Track, Industrial Engineering Research Conference, Vancouver, BC; Beno Memorial Scholarship, PRIMA, 2007. Description: National award for outstanding leadership potential in occupational safety, from the Public Risk management Association; Preparing Future Faculty Fellow, Auburn University, 2007. Description: One-year interdisciplinary, university-wide program that equips future faculty members for roles in teaching, research, and service; NIOSH Pilot/Small Research Training Grant, 2009. "Designing Safety Warning Symbols with Artificial Intelligence Assisted Focus Groups", funded for \$12,000; Alpha Pi Mu, Industrial Engineering Honor Society, 2007; NIOSH Fellowship.

LuAnn Sims, PhD. NIOSH support.

Chip Wade, PhD, CPE. ASSE Liberty Mutual Research Fellowship Award; Post-Doctoral Fellowship, University of Pittsburgh with Dr. Mark Redfern.

Bobbie Watts, PhD, CPE. GTRI OTI Student Scholarship to attend Process Safety Training, 2009; Humantech, Inc. 2007 Human Factors/Ergonomics Scholarship Recipient; JJ Keller and Associates 2007 Grand Prize Scholarship Recipient; Alpha Pi Mu, Industrial Engineering Honor Society, 2007; NIOSH Fellowship.

Extension

M Smidt, BJ Carnahan & **GA Davis** (2004). "Visual Guide to Landing Safety: A Handbook for Onsite Training of New Employees." Funded by the THAT'S Foundation in conjunction with the Alabama Cooperative Extension System. 18 pages.

GA Davis. Alabama Technology Network: Alabama Technical Assistance Center (ATAC), Principles of Lean Manufacturing (Lean 101), 1 day Course. **Taught nine (9) times**. Total attendance was 224. (Wellborn Cabinets, Standard Furniture, Reliable Manufacturing, Dunbarton, ATN Six-Sigma Principles Course), 2002.

GA Davis. Alabama Technology Network: Alabama Technical Assistance Center (ATAC), Single Minute Exchange of Dies (SMED), 1/2 day course. **Taught four (4) times**. Estimated total attendance was 100. (Wellborn Cabinets and Dunbarton), 2002

GA Davis. Alabama Technology Network: Alabama Technical Assistance Center (ATAC), Total Productive Maintenance (TPM), 1/2 day course. **Taught four (4) times.** Estimated total attendance was 100. (Wellborn Cabinets and Dunbarton), 2002.

GA Davis. Alabama Technology Network: Alabama Technical Assistance Center (ATAC), Value Stream Mapping (VSM), 1/2 day course. **Taught Once.** Estimated total attendance was 25. (Wellborn Cabinets), 2002.

GA Davis. Alabama Technology Network: Alabama Technical Assistance Center (ATAC), Kanban Pull Systems (KPS), 1/2 day course. **Taught Once.** Estimated total attendance was 25. (Wellborn Cabinets), 2002.

GA Davis & BJ Carnahan. Developed and Conducted Continuing Education Training to 126 loggers via a satellite video broadcast. Requested by the <u>Alabama Cooperative Extension Service</u>. "Logging Hazard Evaluation." Program rated 4.1 out of 5.0 (May 2002).

Outreach

Gallagher, S, Sesek, R, Thomas, RE, Schall, MC & **Davis, GA** (2016). Developed and co-taught "Cutting Edge Ergonomics" Short Course for the Deep South Center for Occupational Safety & Health, Auburn, AL. 25 attendees.

Sesek, R, Gallagher, S, Thomas, RE, Schall, MC & **Davis, GA** (2016). Developed and co-taught "How to Apply Ergonomic Principles in the Real World" Short Course for the Deep South Center for Occupational Safety & Health, Auburn, AL. 35 attendees.

Sesek, R, **Davis, GA**, Gallagher, S, Thomas, RE, and R. Tang (2013). Developed and co-taught "Human Factors Short Course" for the Deep South Center for Occupational Safety & Health, Auburn, AL. 14 attendees. Rated 4.8/5.0 (**224 total training hours**).

Gallagher, S, Thomas, RE, Sesek, R, **Davis, GA** & R. Tang (2013). Developed and co-taught "Ergonomics Short Course" for the Deep South Center for Occupational Safety & Health, Auburn, AL. 15 attendees. Rated 4.2/5.0 (**240 total training hours**).

GA Davis, (2004-12). Developed and taught <u>OSHA Ten-Hour General Industry Course</u> as a component of the INSY 3020 & ENH 670 (UAB) courses, and the COE safety project.

• Trained **521** undergraduate & graduate students, totaling **5210 hours** of safety training.

GA Davis, (2004-11). Developed and taught <u>OSHA Thirty-Hour General Industry Course</u> as a component of the INSY 5010/6010(6).

• Trained **161** undergraduate & graduate students, totaling **4830** hours of safety training.

Davis, GA & R. Sesek (2011). Co-Teach OTI 2045, <u>Machinery and Machine Guarding Standards</u> for Georgia Tech Research Institute (GTRI), Auburn, AL, 37 attendees.

Davis, GA (2009). "Ergonomics: Cost Analysis and Budgeting." ASSE National Webinar; Invited Speaker. 2/18/09.

GA Davis, *Piper, AK & *R. Muhdi (2005). Developed and taught a twenty-hour short course (7/05) "An Introduction to Systems Safety for Engineers" for the Deep South Center for Occupational Safety & Health, at ACIPCO, Birmingham, AL. 29 attendees. Rated 3.8 of 5.0 (**464 total training hours**).

GA Davis & *AK Piper (2005). Taught (3/05) "Occupational Ergonomics: Assessing Ergonomic Hazards in the Workplace" for the Deep South Center for Occupational Safety & Health, at ACIPCO, Birmingham, AL. 62 attendees. Rated 4.6 of 5.0. **496 total training hours**.

GA Davis, (2004). Developed and taught (August 2004) "Occupational Ergonomics: Assessing Ergonomic Hazards in the Workplace." Deep South Center for Occupational Safety & Health. 14 attendees. Rated 4.5 of 5.0.

GA Davis & BJ Carnahan (2004). Developed and taught (March 2004) "Occupational Ergonomics: Assessing Ergonomic Hazards in the Workplace." Deep South Center for Occupational Safety & Health. 26 attendees. Rated 4.6 of 5.0.

GA Davis, (2003). "Use of Industrial Work Measurement Techniques in Municipal Applications." Conference on Governmental Excellence and Best Practices, Montgomery, AL (May 2003).

GA Davis, (2002). Alabama Technology Network: Alabama Technical Assistance Center (ATAC). Final Technical Report for Novus Industries, Inc. Opelika, AL. "Determination of Production Standards for Assembling the CPE Box." 41 pages.

Service

Professional Organizations

Reviewed Dr. Bruce Lee's Promotion & Tenure Dossier for Texas A&M University Corpus Christi, Department of Engineering (2020).

Reviewed Dr. Jung Hyup Kim's Promotion & Tenure Dossier for University of Missouri, Department of Industrial and Manufacturing Systems Engineering (2018).

Reviewed Dr. Diana Schwerha's Promotion Dossier for Ohio University, Department of Industrial and Systems Engineering (2018).

Reviewer for Journal of Safety, Health and Environmental Research (JSHER), 2018.

Reviewer for Ergonomics, 2017.

Session Moderator, ATINER Industrial Engineering Conference, Athens, Greece, June 2016.

Reviewer for International Journal of Injury Control and Safety Promotion, 2014.

Reviewed Dr. Nathan Fethke's Promotion & Tenure Dossier for University of Iowa, Department of Occupational and Environmental Health (2014).

Reviewed Dr. Leslie Strawderman's Promotion & Tenure Dossier for Mississippi State University, Industrial Engineering Department (2012).

Reviewed Dr. John C. Garner's Promotion & Tenure Dossier for the University of Mississippi Health, Exercise Science & Recreation Management Department (2012).

Reviewer for NIOSH HICAHS R^2P Project in conjunction with Colorado State University. David Gilkey and Ken Nelson PI's (2012).

Brouha Work Physiology Conference Committee Member (2011-14).

NIOSH Research Proposal Review Member (2011) for Pittsburgh Research Laboratory.

NIOSH ERC Special Emphasis Panel Member/Chair (30%). Reviewed Virginia Polytechnic Institute & Ohio State University applications (2011).

NIOSH Ag S&H Special Emphasis Panel Member. Reviewed two (2) research proposals and Small Projects applications. (2016).

NIOSH ERC Study Section Member. Site visited/reviewed University of South Florida (USF) ERC (2011).

NIOSH ERC Study Section Member. Site visited/reviewed UC Berkley, Mountain & Plains ERCs (2009).

Editorial Review Board Member, Journal of Safety, Health & Environmental Research, (2011-14).

ASSE Auburn-Montgomery Section Treasurer (2010-19).

Reviewer for Applied Ergonomics, 2010.

Reviewer for ASSE Handbook, 2010.

Editorial Review Board Member, Professional Safety, (2009-12).

Reviewer for NIOSH publications, (2008).

Reviewed for McGraw-Hill, <u>Methods, Standards, and Work Design</u>, 12th Ed., by Niebel and Freivalds. Reviewed the Work Sampling and Time Study chapters, (2007).

Session Moderator at the 9^{th} Applied Ergonomics Conference (AEC), (2006). Developed and delivered SWS (½ day) PDC at the 8^{th} Applied Ergonomics Conference (AEC). 13 attendees rated the short course excellent (4.4/5.0) New Orleans, LA, March 2005.

Applied Ergonomics/SWS Conference (2005-07) Planning Committee, SWS Chair.

Session Moderator at the 8th Applied Ergonomics Conference (AEC), (2005).

Served on the Dean's Advisory Panel on the Safety of the Queen's University (Canada) Solar Car Program (2004-05).

IIE: Society for Work Science (SWS): Elected to National Board of Directors (2003-05). Elected to President-Elect (2004-05).

Member of IIE's "Ask the Expert" panel for work measurement matters (2004).

Society for Work Science (SWS) Newsletter (eBrief) Editor (2003-05).

Reviewer for the International Journal of Forest Engineering (2001-04).

Site Reviewer for the NIOSH Training Grant Program (2001), West Virginia University.

Auburn University

Served as Intramural Grant Program (IGP) Review Panel Member, 2018/19.

Served as <u>Dissertation Outside Reader</u> for Haneen Alabdulrazzaq - "Securing Web Application: Web Application Flow Whitelisting to Improve Security", CSSE Department, Auburn University (2017).

Served as <u>Dissertation Outside Reader</u> for Jonathan Hood - "Trusted, Third-Party Authenticated, Quantum Key Distribution", CSSE Department, Auburn University (2016).

Served as <u>Dissertation Outside Reader</u> for Patrick Pape - "Efficient Reliability Verification Testing in Open Source Software Using Priority Prediction", CSSE Department, Auburn University (2015).

Served as <u>Dissertation Outside Reader</u> for Michael Urbin - "Closed-Loop Feedback Control in Skilled Overarm Throwers", Kinesiology Department, Auburn University (2012).

Faculty Senate, INSY Representative, 2010-13.

Teach Safety (LOTO) Case Study to BET students at request of PK Raju & Chet Sankar (2006-09).

Provided Safety assessment review NCAT Test Track (2004-06).

Samuel Ginn College of Engineering

Safety Manager Hiring Committee Member (2018).

Dean's Performance Review Committee Member (2017).

NCAT Test Track Safety Review, Committee Member (2017-18).

College of Engineering Promotion & Tenure Committee (2016-19).

College of Engineering Curriculum Committee, ISE Representative (2015-18).

Led team to develop and launch Nuclear Power Generation Systems Minor within the CoE (2010-12).

Developed and Implemented Safety program for Samuel Ginn College of Engineering Formula SAE Team, and Lady's & Men's Mini-Baja Teams Competitions (2004-11).

Developed and implemented Safety program for Samuel Ginn College of Engineering Solar Car Competitions (2003-11).

Developed and implemented Safety program for Samuel Ginn College of Engineering *Steel Bridge Building Competition* (2003-11).

Developed and implemented Safety program for Samuel Ginn College of Engineering *Solar House Competition* (2002-03).

E-Day (2003-2018).

Department of Industrial and Systems Engineering

Taught (2) lectures in INSY 7020(6) during Spring 2021 on 'Technological Pressure' and 'High Fidelity Safety Cultures' (2021).

Department OSEIP Center renovation Committee Chair (2019-2021).

Taught (2) lectures in INSY 7050(6) during Fall 2020 on 'Ionizing Radiation' (2020).

Taught two (2) lectures in INSY 3021 during Spring 2020 on 'Predetermined Time and Motion Systems' (2020).

Taught (2) lectures in INSY 3020 during Spring and Fall 2020 on 'The Value of Human Life' (2020).

Department Academic Coordinator Hiring Committee Member (2020).

Accountant and Multi-Media Specialist Hiring Committee Member (2019).

Department Awards Committee Member (2018-Present).

Department GTA/GRA Funding Model Committee Member (2017-18).

Associate Department Chair (2016-Present).

Department Promotion & Tenure Committee (2009-Present).

Department Strategic Planning Committee (2015-Present).

Department Committee to restructure INSY 4500 and INSY 4800 (2013-2016).

OSE/IP Team Leader for Department (2011-14, 16-Present).

Occupational Safety and Ergonomics Graduate Certificate Program Director (2010-Present).

Teaching Evaluation of Departmental Faculty Members: Chase Murray (2013), Rich Sesek (2012), Lu Ann Sims (2011), Kandace Ballard (2010), John Evans (2009, 2013, 2014), Jeff Smith (2015), Alex Vinel (2016), Menekse Salar (2016) & Richard Garnett (2017), Mark Schall (2018), Greg Harris (2021).

Faculty Search Committee Member [2006-11, 16 (Chair) & 17 (Chair)].

OSE/IP HFES Accreditation Committee Member (2013/14 & 2019/20).

Graduate Recruiting Visit (2009-13).

TIGERs Camp (2004-09).

Civil Air Patrol (CAP) (2004-09).

INSY Department ABET Faculty Representative (2004).

Constructed the "Auburn University Occupational Safety & Ergonomics Program: 2002 Alumni Survey" for the Deep South Center for Occupational Safety & Health (2002, 05, 09 & 11).

Media Interviews

Davis, GA (2017). Interviewed by Bloomberg News (Peter Waldman) regarding the 2016 AJIN fatality.

Technical Assistance (no fee consulting). Ergonomics and safety consultations, training, and reports/evaluations for numerous governmental agencies, and industry including;

Alabama Department of Public Safety (State Troopers), Montgomery, AL

Alabama Technical Assistance Center, AL

Alto Clutch Products, Atmore, AL

American Cast Iron Pipe Company (ACIPCO), Birmingham, AL

AMERICOLD, Albertville, AL

Auburn, AL Fire Department

Auburn Engineers, Inc., Auburn, AL

Auburn University, Athletic Department, Auburn, AL

Auburn University, RMS, Auburn, AL

Bank of America, Charlotte, NC

Blue Bird Bus Manufacturing, Fort Valley, GA

BMW, Spartanburg, SC

Boeing, Seattle, WA

Brasfield & Gorrie, Birmingham, AL

Briggs & Stratton Corporation, Auburn, AL

CAFLOR Industries, Rome, Italy

City of Atlanta, Fire Department, Atlanta, GA

City of Auburn, AL

City of Opelika, AL

City of Mountain Brook, AL

Clemson University, Clemson, SC

Coca-Cola Refreshments, Atlanta, GA

Coca-Cola Refreshments, Montgomery, AL

Colorado State University, Fort Collins, CO.

Daimler-Chrysler, Huntsville, AL

Disney Land, Anaheim, CA

Disney World, Orlando, FL

Donaldson Filtration Solutions, Auburn, AL

Dorris and Associates, Atlanta, GA

Duracell, LaGrange, GA

East Alabama Medical Center, Opelika, AL

East Carolina University, Greenville, NC

East Stroudsburg University, East Stroudsburg, PA

Easter Seals Achievement Center, Opelika, AL

Envent Corporation, Long Beach, CA

Eurorail, London, UK

Falk Industries, Auburn, AL

Families in Grief Held Together (FIGHT) Project, Fairhope, AL

Fulton County Fire Department, Atlanta, GA

Fulton County Managers Office, Atlanta, GA

General Electric Corporation, Locomotive Division, NY

Georgia Pacific, Atlanta, GA

Golden Peanut and Tree Nuts, Dawson, GA

Greenwich University, London, UK

Gulfstream, Savannah, GA

Heil Environmental, Fort Payne, AL

Holland America Lines, Seattle, WA

Honda Manufacturing of Alabama, Lincoln, AL

Hyundai Automobile Manufacturing, Hope Hull, AL

InterfaceFLOR, LaGrange, GA

Italia Connect, Rome, Italy & Atlanta, GA

KapStone Paper Mill, North Charleston, SC

Keystone Foods, Eufaula, AL

KIA Automobile Manufacturing, Inc., West Point, GA

Kroger Company, Auburn, AL

Lee County, AL

Marsh Risk Consulting USA, Charlotte, NC

Master Brand Cabinets, Auburn, AL

Medtronic Surgical Innovations, North Haven, CT

Millersville University, Millersville, PA

Milliken & Company, LaGrange, GA

Mississippi State University, Starkville, MS

Mobis, West Point, GA

Murray State University, Murray, KY

NASDPTS, Kansas City, MO

Neptune Technologies Inc., Tallassee, AL

NuTech Powder Coaters, Newnan, GA

NTSB, Washington, DC

Opelika, AL Fire Department

OSHA, Area Office, Birmingham, AL

OSHA, Region (IV) Office, Atlanta, GA

OSHA, Washington, DC

Pennsylvania State University

Philo Seminar, Detroit, MI

PowerTech, West Point, GA

ProcessMAP, Sunrise, FL

Progressive Rail Company, Montgomery, AL

Public Employees Safety Council (PESCA), Clanton, AL

Rheem Manufacturing, Montgomery, AL

Royal Caribbean International, Miami, FL

Sabic, Montgomery, AL

Seohan Auto USA, Auburn, AL

Smiths' Station, AL Fire & Rescue

South Carolina State University, SC

South Dakota School of Mines and Technology, Rapid City, SD

Southern Company, Farley Nuclear Plant, Dothan, AL

Thomas Bus, High Point, NC

United States Forest Service, Southern Research Center, Auburn, AL

Universidad Catolica del Norte, Coquimbo, Chile

University of Alabama, Tuscaloosa, AL.

University of Alabama-Birmingham, Birmingham, AL

University of Alabama-Huntsville, Huntsville, AL

University of North Alabama, Florence, AL.

University of North Carolina-Wilmington (UNCW), NC

University of South Carolina (USC), Columbia, SC

University of Texas-San Antonio (UTSA), TX

University of Washington (UW), WA

US Army, Fort Benning, Columbus, GA & Fort Rucker, Ozark, AL

US Pipe and Foundry, Inc., Bessemer, AL

Velcon, Sylacauga, AL

Weidmann Plastics Technology, Inc., Auburn, AL