Richard Sesek, PhD, MPH, CPE

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EDUCATION

Ph.D. Mechanical Engineering, 1999: Ergonomics & Safety	University of Utah
M.P.H. Public Health, 1998: Occupational Safety & Health	University of Utah
M.S. General Engineering, 1990: Concentration: Ergonomics	Univ. of Illinois (Urbana)
B.S. Engineering Psychology, 1988: Cognate: Physics	Univ. of Illinois (Urbana)
B.S. General Engineering, 1988: Concentration: Human Factors	Univ. of Illinois (Urbana)

PROFESSIONAL EXPERIENCE

8/14-Present	Associate Professor, Tim Cook Professor (8/15-present), Industrial and Systems Engineering Department, **Auburn University**.
7/09-8/14	Assistant Professor, Industrial and Systems Engineering Department, **Auburn University**.
12/99-6/09	Research Assistant Professor, Department of Mechanical Engineering, **University of Utah**.
5/12-Present	Ergonomics and Safety Consultant **WD Ergo, LLC**.
9/94-6/09	Ergonomics and Safety Consultant **Wasatch Ergonomics, LLC**.
6/95-9/95	Ergonomics Preceptorship, **Kennecott Utah Copper Corporation**.
9/94-9/99	Ph.D. Student, Teaching, and Research Assistant, Department of Mechanical Engineering, **University of Utah**.
10/92-9/94	Safety Engineer **Michelin Tire Corporation**.
3/92-9/92	Ergonomist, **ErgoDynamics**.
10/90-3/92	Safety Engineer, **Georgia Tech Research Institute**.
8/88-9/90	Masters Student, Teaching, and Research Assistant, General Engineering Department, **University of Illinois**.

PUBLICATIONS

Publications in Refereed Scientific Journals (*student, †corresponding author)

1. Youngblood, N.E., Capanoglu*, M.F., and **Sesek**, R.F. "The Accessibility of State Occupational Safety and Health Consultation Websites." Universal Access in the Information Society. (2020). DOI: 10.1007/s10209-020-00713-y.
2. Mehdizadeh*, A., Vinel†, A., Hu, Q., Schall Jr., M.C., Gallagher, S., and **Sesek**, R.F. "Job Rotation and Work-Related Musculoskeletal Disorders: A Fatigue-Failure Perspective" Ergonomics. 2020, Vol. 63, Issue 4, 461-476. DOI: 10.1080/00140139.2020.1717644.
3. Gunter*, L.A., Davis, G.A., Abulhassan, Y., **Sesek**, R.F., Gallagher, S., Schall Jr., M.C. "School Bus Rear Emergency Door Design Improvements to Increase Evacuation Flow". Safety Science. (2020). 121, 64-70. DOI: 10.1016/j.ssci.2019.09.007.
4. Badawy*†, M., Schall Jr., M.C., Zabala, M.E., Coker, J., **Sesek**, R.F., Gallagher, S. and Davis, G.A. "Effects of Age and Obesity on Trunk Kinetics and Kinematics during

Dominant Side One-handed Carrying." Journal of Biomechanics. 2019: 94: 107-114. DOI: 10.1016/j.jbiomech.2019.07.016.

5. Gungor*†, C., Tang*, R., **Sesek**, R.F., Davis, G.A., and Gallagher, S. "Regression Models for the Erector Spinae Muscle Mass (ESSM) Cross-sectional area: Asymptomatic Populations" Journal of Biomechanical Engineering. 2019: 141(8). DOI: 10.1115/1.4043558.
6. Tang*†, R., Gungor*, C., **Sesek**, R.F., Gallagher, S., Davis, G.A., Foreman, K.B. "Prediction Models for the Cross-Sectional Areas of Lower Lumbar Intervertebral Discs and Vertebral Endplates." International Journal of Industrial Ergonomics. July, 2019. 72: 12-34. DOI: 10.1016/j.ergon.2019.03.006.
7. Badawy*†, M., Schall Jr., M.C., Zabala, M.E., Coker, J.E., Davis, G.A., **Sesek**, R.F., Gallagher, S. "Trunk Muscle Activity among Older and Obese People during One-handed Carrying." Applied Ergonomics. 2019: 78: 217-223. DOI: 10.1016/j.apergo.2019.03.007.
8. Barim*†, M.S., **Sesek**, R.F., Capanoglu*, M.F., Drinkaus, P., Schall Jr., M.C., Gallgher, S., and Davis, G.A. "Improving the Predictive Capability of the Revised NIOSH Lifting Equation by Incorporating Personal Characteristics." Applied Ergonomics. January, 2019: 74: 67-73. DOI: 10.1016/j.apergo.2018.08.007.
9. Abulhassan*†, Y., Davis, GA, **Sesek**, R.F., Callender, A., Schall Jr., M.C., and Gallagher, S. "Physical and Cognitive Capabilities of Children During Operation and Evacuation of a School Bus Emergency Roof Hatch. Safety Science. December 2018: 110: 265-272. DOI: 10.16/j.ssci.2018.08.026.
10. Garnett*, R., Davis†, G.A., **Sesek**, R.F., Gallagher, S., Schall Jr., M.C., and Huangfu*, R. "Evaluating the OSHA Hand Speed Constant for Stamping Press Applications." Safety Science. August 2018: 107: 1-8. DOI: 10.1016/j.ssci.2018.04.002.
11. Gallagher†, S., Schall Jr., M.C., **Sesek**, R.F., and Huangfu*, R. "An Upper Extremity Risk Assessment Tool Based on Fatigue Failure Theory: The Distal Upper Extremity Tool (DUET)." Human Factors. July 31, 2018: DOI: 10.1177/0018720818789319.
12. Badawy*†, M., Schall Jr., M.C**.**, **Sesek**, R.F., Gallagher, S., Davis, G.A., and Capanoglu, M.F. "One-Handed Carrying Among Elderly and Obese Individuals: A Systematic Review to Identify Research Gaps." Ergonomics. April 21, 2018: DOI: 1080/00140139.2018.1470680.
13. Schall† Jr., M.C., **Sesek**, R.F., Cavuoto, L. "Barriers to the Adoption of Wearable Sensors in the Workplace: A Survey of Occupational Safety and Health Professionals." Human Factors. January, 2018. DOI: 10.1177/0018720817753907.
14. Cao*, L., Davis, G.A†., Gallagher, S., Schall Jr., M.C., and **Sesek**, R.F. "Characterizing Posture and Associated Physiological Demand during Evacuation." Safety Science. April 2018, Vol. 104, pp 1-9. DOI: 10.1016/j.ssci.2017.12.032.
15. Abulhassan*†, Y, Davis J, **Sesek** R, Schall M., Gallagher S. "Evacuating a rolled-over school bus: considerations for young evacuees." Safety Science. August, 2017. DOI: 10.1016/j.ssci.2017.07.017
16. Lu*, L, Megahed, F, **Sesek**, R, Cavuto†, L. "A Survey of the Prevalence of Fatigue, its precursors and individual coping mechanisms among U.S. Manufacturing Workers." Applied Ergonomics. 2017: 66: 139-151. DOI.org/10.1016/j.apergo.2017.06.004
17. Gallagher†, S., **Sesek**, R.F., Schall Jr., M.C., and Huangfu*, R. "Development and Validation of an Easy-to-Use Risk Assessment Tool for Cumulative Low Back Loading: The Lifting Fatigue Failure Tool (LiFFT)." Applied Ergonomics. May 2017: 63: 142-150. DOI.org/10.1016/j.ssci.2016.06.021

18. Tang*†, R., Gungor*, C., **Sesek, R.F.**, Foreman, K.B., Gallagher, S., Davis, G.A. "Morphometry of the lower lumbar intervertebral discs and endplates: comparative analyses of new MRI data with previous findings." European Spine Journal. February 12, 2016: 1-16. DOI: 10.1007/s00586-016-4405-8
19. Abulhassan*†, Y, Davis, G.A., **Sesek**, R, Gallagher, S., Schall, M. "Establishing school bus baseline emergency evacuation times for elementary school students." Safety Science. November, 2016: Volume 89, p 249-255. DOI: 10.1016/j.ssci.2016.06.021.
20. Piper*†, A.K., Holman, G.T., Davis, G.A., **Sesek**, R. F., and Boelhouwer, E.J. "Towards incorporating technology to enhance the stereotype production method in warning symbol design" IIE Transactions on Occupational Ergonomics and Human Factors. Volume 3, Issue 3-4, Pages 221-235, 2015. DOI: 10.1080/21577323.2015.1093041.
21. Gungor*†, C., Tang*, R., **Sesek**, R.F., Foreman, K.B., Gallagher, S., and Davis, G.A. "Prediction models for the erector spinae muscle cross-sectional area" Journal of Biomechanical Engineering. 137(7): 8 pp. 2015.
22. Ding†, Q., Barker, K.N., Flynn, E.A., Westrick, S.C., Chang, M., Thomas, R.E., Braxton-Lloyd, K., and **Sesek**, R.F. "Incidence of Intravenous Medication Errors in a Chinese Hospital" Value in Health Regional Issues. Pages 33–39, Volume 6, May 2015.
23. Gungor*†, C., Tang*, R., **Sesek**, R.F., Gallagher, S., and Davis, G.A. "Morphological investigation of low back erector spinae muscle: Historical data populations" International Journal of Industrial Ergonomics. Volume 49, September 2015, Pages 108-115.
24. Lynch*, S., Smidt, M., Merrill, P., and **Sesek**, R. "Incidence of MSDs and neck and back pain among logging machine operators in the Southern U.S." Journal of Agricultural Safety and Health. 20(3):211-8, July, 2014.
25. Thiese†, M., Hegmann, K., Wood, E., Garg, A, Moore, J.S., Kapellusch, J., Foster, J. Greene, T., Stoddard, G., Biggs, J., and BackWorks Study Team (**Sesek, R.F.,** BackWorks Study Team member). "Low Back Pain Ratings for Lifetime, 1-Month Period, and Point Prevalences in a Large Occupational Population" Human Factors. 56(1):86-97, Feb, 2014.
26. Dansie†*, C., **Sesek**, R.F., and Bloswick, D.S. "Ergonomic Risk Assessment Based on a Bayesian-Optimized Expert System" International Journal of Human Factors Modeling and Simulation Vol. 4, No. 1, 2013.
27. Garg†, A., Hegmann, K.T., Moore, JS, Kapellusch, J., Thiese, MS, Boda, S., Bhoyr, P., Bloswick, D.S., Merryweather, A., **Sesek**, R.F., Deckow-Schaefer, G., Foster, J., Wood, E., Sheng, X., Holubkov, R., BackWorks Study Team. "A prospective cohort study of low back pain" BMC Musculoskeletal Disorders. 2013 Mar 7;14:84. doi: 10.1186/1471-2474-14-84.
28. Zhang†*, J., Hai, Z., Thirugnanasambandam*, S., Evans, J., Bozack, M.J., **Sesek**, R.F., Zhang, Y., and Suhling, J. "Correlation of Aging Effects on Creep Rate and Reliability in Lead Free Solder Joints" Journal of Surface Mount Technology (SMTA) Volume 25, Issue 3, 2012.
29. Gandhi*, M., Redd, C., Tuckett, R., **Sesek**, R.F., and Bamberg†, S. "A Novel Device to Evaluate the Vibrotactile Threshold" Journal of Medical Devices Transactions of the ASME. Volume 6, September 2012.
30. Zhang†*, J., Thirugnanasambandam*, S., Evans, J., Bozack, M., and **Sesek**, R. "The Impact of Isothermal Aging on the Long-Term Reliability of Fine Pitch Ball Grid Array Packages with Different Sn-Ag-Cu Solder Joints" IEEE Transactions on Components, Packaging, and Manufacturing Technology. Vol. 2, No. 8, August 2012.
31. Garg†, A., Kapellusch, J., Hegmann, K., Wertsch, J., Merryweather, A., Deckow-Schaefer,

G., Malloy, E.J., & the WISTAH Hand Study Research Team (**Sesek**, R.F., WISTAH Team Member). "The Strain Index (SI) and Threshold Limit Value (TLV) for Hand Activity Level (HAL): risk of carpal tunnel syndrome (CTS) in a prospective cohort" Ergonomics. 55:4, 396-414, 2012.

32. Garg†, A., Hegmann, K., Wertsch, J., Kapellusch, J., Thiese, M., Bloswick, D.S., Merryweather, A., **Sesek**, R.F., Deckow-Schaefer, G., Foster, J., Wood, E., Kendall, R., Sheng, X., Holubkov, R., and WISTAH Hand Study Team. "The WISTAH Hand Study: A Prospective Cohort Study of Distal Upper Extremity Musculoskeletal Disorders" BMC Musculoskeletal Disorders. June 2012 6;13(1):90.
33. Gandhi*, M., **Sesek**, R.F., Tuckett, R., Bamberg†, S. "Progress in Vibrotactile Threshold Evaluation Techniques: A Review" Journal of Hand Therapy, Jul-Sep 2011 24(3):240-55.
34. Howard†*, B., **Sesek**, R.F., Bloswick, D.S. "Typical whole-body vibration exposure magnitudes encountered in the open pit mining industry" Work: A Journal of Prevention, Assessment and Rehabilitation, Vol. 34, No. 3, 2009.
35. Merryweather†, A., Bloswick, D.S., **Sesek**, R.F. "A Calculation of Dynamic Back Compressive Force: A Pilot Study to Identify Load Displacement Velocity Constants" Journal of Safety, Health, and Environmental Research American Society of Safety Engineers, Winter 2008, Vol. 5 No. 3.
36. **Sesek**†, R.F., Drinkaus*, P.H., Khalighi, M., Tuckett*, R., Bloswick, D.S. "Development of a Carpal Tunnel Syndrome Screening Method Using Structured Interviews and Vibrotactile Testing" Work, 2008, Vol. 30, 403-411.
37. Jayal†*, A., Balaji, A.K., **Sesek**, R.F., Gaul*, A., and Lillquist, D. "Machining Performance and Health Effects of Cutting Fluid Application in Drilling of A390.0 Cast Aluminum Alloy" Journal of Manufacturing Processes, Society of Manufacturing Engineers, Vol. 9, No. 2, 2007.
38. **Sesek**†, R.F., Tuckett, R.P., Bloswick, D.S., Khalighi*, M., Anderson, M. "Effects of Prolonged Wrist Flexion on Transmission of Sensory Information in Carpal Tunnel Syndrome" Journal of Pain. 8(2), 137-151, February 2007.
39. Gilkey†, D., Keefe, T., Bigelow, P., Herron, R., Duvall, K., Hautaluoma, J., Rosecrance, J., **Sesek**, R. "Low back pain among residential carpenters: ergonomic evaluation using OWAS and 2-D compression estimation" International Journal of Occupational Safety and Ergonomics. 13(3), 305-321, 2007.
40. Drinkaus†*, P.H., **Sesek**, R.F., Bloswick, D.S., Mann, C., and Bernard, T. "Job Level Risk Assessment Using Task Level ACGIH Hand Activity Level TLV Scores: A Pilot Study" International Journal of Occupational Safety and Ergonomics. 11(3), 263-281, 2005.
41. Jayal†*, A., Balaji, A.K., **Sesek**, R.F., Gaul*, A., and Lillquist, D. "Environmentally Conscious Machining of a Cast Aluminum Alloy: Investigation of Cutting Fluid Effects in Drilling" Transactions of the North American Manufacturing Research Institute of SME. 32, 415-422, 2004.
42. Drinkaus†*, P.H., Bloswick, D.S., **Sesek**, R.F., Mann, C., and Bernard, T. "Job Level Risk Assessment Using Task Level Strain Index Scores: A Pilot Study" International Journal of Occupational Safety and Ergonomics. 11(2), 141-152, 2005.
43. Suruda†, A., Philips, P., Lillquist, D., and **Sesek**, R.F. "Fatal Injuries to Teenage Construction Workers in the US" American Journal of Industrial Medicine. 44, 510-514, 2003.
44. Drinkaus*, P.H., **Sesek**, R.F., Bloswick†, D.S., Bernard, T., Walton, B., Joseph, B., Reeve, G., and Counts, J.H. "Comparison of Ergonomic Risk Assessment Outputs from Rapid

Upper Limb Assessment and the Strain Index for Tasks in Automotive Assembly Plants" Work: A Journal of Prevention, Assessment & Rehabilitation. 21(2), 165-172, 2003.

45. Suruda†, A., Milliken, W., Stephenson, D., and **Sesek**, R.F. "Fatal Injuries in the United States Involving Respirators, 1984 - 1995" Applied Occupational and Environmental Hygiene. 18(4), 289-292, 2003.
46. **Sesek**†, R.F., Gilkey, D., Drinkaus*, P.H., Bloswick, D.S., and Herron, R. "Evaluation and Quantification of Manual Handling Risk Factors" International Journal of Occupational Safety and Ergonomics. 9(3), 271-287, 2003.
47. Suruda†, A., Whitaker*, B., Bloswick, D.S., Philips, P., and **Sesek**, R.F. "Impact of the OSHA Trench and Excavation Standard on Fatal Injury in the Construction Industry" Journal of Occupational and Environmental Medicine. 44(10), 902-905, 2002.

Publications in Process (*student, †corresponding author)

1. Badawy*†, M., Schall Jr., Davis, G.A., **Sesek**, R.F., Gallagher, S. "Physiological and Psychophysical Responses to One-handed Carrying in Elderly and Obese Individuals." Applied Ergonomics. (Under review)
2. Garnett*, R.F., Davis, G.A., Sesek, R.F., Gallagher, S., **Schall Jr., M.C.**, Zhang*, X., Cressman*, S. Evaluating Hand Speed in Automated Systems Using Presence Sensing Devices. Safety Science. (submitted).
3. Bani Hani*, D, Huangfu, R, **Sesek**, RF, Schall Jr, MC, Davis, GA, Gallagher, S. "Development and Validation of a Cumulative Exposure Shoulder Risk Assessment Tool based on the Fatigue-Failure Theory". Submitted to *Ergonomics* (In review).
4. Gunter L, Davis GA, **Sesek**, RF, Abulhassan Y, Gallagher S, Schall Jr MC. Increasing Evacuation Flow through School Bus Emergency Roof Hatches. Submitted to *Applied Ergonomics* (In review).

Book Chapters (†corresponding author)

1. Bloswick†, D.S., and **Sesek**, R.F. "Occupational Safety Management and Engineering" in Maynard's Industrial Engineering Handbook, edited by Kjell B. Zandin, McGraw-Hill, 6.171-6.204, 2001.
2. Bloswick†, D.S., and **Sesek**, R.F. "Occupational Safety" in Patty's Industrial Hygiene Fifth Edition, edited by Robert L Harris, John Wiley & Sons, 2639-2685, 2000.
3. **Sesek**†, R.F., and Bloswick, D.S. "Materials Handling" in Safety and Health Management Planning, edited by James P. Kohn, Government Institutes, 635-671, 1999.

Refereed Conference Proceedings and Abstracts (*student)

1. Granzow* R, Schall Jr MC, Smidt M, Davis GA, **Sesek** RF, Gallagher S. "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.
2. Bani Hani* D, Gallagher S, **Sesek** RF, Huangfu R, Schall Jr MC, Davis GA. "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.

3. Barim MS, **Sesek** RF, Capanoglu* MF, Gallagher S, Schall Jr MC, Davis GA. "Can the Revised NIOSH Lifting Equation Be Improved by Incorporating Personal Characteristics?" Proceedings of the 20th Congress of the International Ergonomics Association. IEA 2018. Vol 825. (pp. 553-560). DOI: 10.1007/978-3-319-96083-8_73.
4. Barim MS, **Sesek** RF, Capanoglu* MF, Sun W, Gallagher S, Schall Jr MC, Davis GA. "Quantifying Vertebral Endplate Degeneration Using the Concavity Index". Proceedings of the 20th Congress of the International Ergonomics Association. IEA 2018. Vol 825. (pp. 734-741). DOI: 10.1007/978-3-319-96083-8_88.
5. Barim M.S., **Sesek** RF, Capanoglu* M.F., Gallagher S., Schall Jr MC, Davis GA. "Evaluating the Reliability of MRI-Derived Biomechanically-Relevant Measures". Proceedings of the 20th Congress of the International Ergonomics Association, IEA 2018. Vol 825. (pp. 742-749). DOI: 10.1007/978-3-319-96083-8_89.
6. Gallagher, S., **Sesek**, R.F., Schall Jr., M.C., Huangfu*, R. "Validation of the Lifting Fatigue Failure Tool (LiFFT)." Presented at 20th Congress International Ergonomics Association. August 26-30, 2018. Florence, Italy. DOI: 10.1007/978-3-319-96068-5_24.
7. Huangfu R, Gallagher S., **Sesek** RF, Schall Jr MC, Davis GA. "Evaluating the Effectiveness of Estimating Cumulative Loading Using Linear Integration Method". Proceedings of the 20th Congress of the International Ergonomics Association. IEA 2018. Vol 820. (pp. 283-288). DOI: 10.1007/978-3-319-96083-8_38.
8. Badawy*, M., Schall Jr., M.C., Gallagher, S., **Sesek**, R.F., Davis, G.A. "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. DOI: 10.1177/1541931218621205.
9. Huangfu*, R., Gallagher, S., Whitley, P., **Sesek**, R.F., Schall Jr., M.C., and Davis, G.A. "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. DOI: 10.1177/1541931218621201.
10. Huangfu*, R., Gallagher, S., **Sesek**, R.F., Schall Jr., M.C., and Davis, G.A. "Evaluating the Linear Integration Method of Cumulative Loading Using an Eccentric Muscle Exercise." Proceedings of the Human Factors and Ergonomics Society 62nd Annual Meeting. 2018 October 1-5; Philadelphia, PA. DOI: 10.1177/1541931218621202.
11. Vinel, A., Mehdizadeh*, A., Schall Jr., M.C., Gallagher, S., **Sesek**, R.F. "An Optimization Framework for Job Rotation to Better Assess the Impact on Overall Risk." Proceedings of the Human Factors and Ergonomics Society 62nd Annual Meeting. 2018 October 1-5; Philadelphia, PA. DOI: 10.1177/1541931218621192.
12. Gallagher, S., Schall Jr., M.C., **Sesek**, R.F., Huangfu, R. "Use of Varied Definitions of Repetition with the Distal Upper Extremity Tool (DUET)." Proceedings of the Human Factors and Ergonomics Society 62nd Annual Meeting. 2018 October 1-5; Philadelphia, PA. DOI: 10.1177/1541931218621187.
13. Garnett, R., Davis, G.A., **Sesek**, R.F., Gallagher, S., Schall Jr., M.C., and Chen, H. "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. DOI: 10.1007/978-3-319-94619-1_14.
14. Gallagher, S., **Sesek**, R.F., Schall Jr., M.C., Huangfu*, R. "Job Rotation as a Technique for the Prevention of MSDs: The Fatigue Failure Perspective." Proceedings of the Human

Factors and Ergonomics Society 61st Annual Meeting, September, 2017, Vol. 61, Issue 1, pp. 993-994. Presented October 9-13; Austin, TX. DOI: 10.1177/1541931213601730.

15. Salar*, M. Capanoglu*, M.F., Sherman*, A., **Sesek**, R.F., and Davis, G.A., R. "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.
16. Gallagher, S., Schall Jr., M.C., **Sesek**, R.F., Huangfu*, R. "Validation of a Fatigue Failure-based Risk Assessment Tool for Distal Upper Extremity MSDs." Proceedings of the Human Factors and Ergonomics Society 61st Annual Meeting, September, 2017, Vol. 61, Issue 1, pp. 911-913. Presented October 9-13 October 9-13; Austin, TX. DOI: 10.1177/1541931213601707.
17. Zhang*, X., Schall Jr., M.C., **Sesek**, R.F., Gallagher, S., Michel, J.S. "Burnout and its Association with Musculoskeletal Pain among Primary Care Providers." Proceedings of the Human Factors and Ergonomics Society 61st Annual Meeting. Sept., 2017, Vol. 61, Issue 1, pp. 1010-14. Presented October 9-13; Austin, TX. DOI: 10.1177/1541931213601735.
18. Salar*, M. Capanoglu*, Bandekar, A.*, and **Sesek**, R.F. "Comparison of Low-Noise Air Nozzles: A Pilot Study." Proceedings of the Human Factors and Ergonomics Society 61st Annual Meeting, September, 2017, Vol. 61, Issue 1, pp. 1356-1359. Presented October 9-13; Austin, TX. DOI: 10.1177/1541931213601822.
19. Gallagher, S., **Sesek**, R.F., Schall Jr., M.C., Huangfu*, R. "Validation of the LiFFT Risk Assessment Tool and Guidance on Its Use." Proceedings of the Human Factors and Ergonomics Society 61st Annual Meeting, September, 2017, Vol. 61, Issue 1, pp. 993-994. Presented October 9-13; Austin, TX. DOI: 10.1177/1541931213601709.
20. Salar*, M., Capanoglu*, M.F., Garner*, A., Zhang*, X., **Sesek**†, R.F., Devall, T., and Thomas, R., "Does Participatory Safety Education and Training Increase Learning?" Proceedings of the American Society of Safety Engineers Annual Meeting, Denver, CO, June 22, 2017.
21. Gallagher, S., **Sesek**, R.F., Schall Jr., M.C., Huangfu*, R. "Job Rotation as a Technique for the Control of MSDs: A Fatigue Failure Perspective." Proceedings of the Human Factors and Ergonomics Society 61st Annual Meeting, September, 2017, Vol. 61, Issue 1, pp. 911-913. Presented October 9-13; Austin, TX. DOI: 10.1177/1541931213601730.
22. Salar*†, M., **Sesek**, R.F., and Schall, M. "The concavity index: a novel approach for quantifying intervertebral disc degeneration." Proceedings of the Human Factors and Ergonomics Society Annual Meeting (1st ed., vol. 60, Issue 1, pp. 953-957), Sept., 2016. DOI 10.1177/1541931213601380
23. Abulhassan*†, Y., Davis, G.A., **Sesek**, R.F., Gallagher, S., Schall, M., and Callender, A. "Relating the strength capabilities of children to the design of school bus emergency roof hatches." Proceedings of the Human Factors and Ergonomics Society Annual Meeting (1st ed., vol. 60, Issue 1, pp. 1652-1655), Sept., 2016. DOI 10.1177/1541931213601380 Awarded HFES Safety Technical Group Student Paper Award.
24. Schall†, M., Huangfu*, R., Gallagher, S. Davis, G.A., **Sesek**, R.F., and Escobar, C. "Applications of Inertial Measurement Units to Assess Vehicle Ingress and Egress." Proceedings of the Human Factors and Ergonomics Society Annual Meeting (1st ed., vol. 60, Issue 1, pp. 855-855), Sept., 2016. DOI 10.1177/1541931213601195
25. Huangfu*†, R., Davis, G.A., Schall Jr., M.C., **Sesek**, R.F., Gallagher, S. and Thomas, R.E. "Smoke hood design considerations for stairwell evacuation." Proceedings of the 4th Annual

International Conference on Industrial, Systems, and Design Engineering. Athens, Greece. June, 2016. (No. 2016-1954).

26. Salar*, M., **Sesek**, R.F., Schall Jr., M.C. "The Concavity Index: A Novel Approach for Quantifying Intervertebral Disc Degeneration." 9th International Scientific Conference on the Prevention of Work-Related Musculoskeletal Disorders Book of Abstracts -- PREMUS 2016. June 20-24, 2016. Toronto, Canada.
27. Sims*†, L. Davis, G.A., **Sesek**, R.F., Gallagher, S., Schall, M., and Bhardwaj, P. "Determining Empirical Donning and Doffing Times for Complex Combinations of Personal Protective Equipment (PPE)." In: Arezes P. (eds) Advances in Safety Management and Human Factors. Advances in Intelligent Systems and Computing, Vol. 491. 2016. Springer. DOI 10.1007/978-3-319-41929-9_10.
28. Granzow*, R., Schall Jr., M.C., Gallagher, S., **Sesek**, R.F., Huangfu*, R., Davis, G.A. "Strategies for Vehicle Ingress/Egress: Aging and Obese Populations." 5th Annual Southeastern States Occupational Network (SouthON) Meeting. March 8-9, 2016. New Orleans, LA.
29. Davis†, G.A., Sims, L.*, **Sesek**, R.F. and Gallagher, S. "Developing Empirical Donning Times for Smoke Hoods." Athens Journal of Technology & Engineering. December, 2015: 231-240. Athens, Greece.
30. Davis†, G.A., Sims, L.*, **Sesek**, R.F. and Gallagher, S. "Developing Empirical Standards for Donning Smoke Hoods." Proceedings of the 3rd Annual ATINER Industrial Engineering Conference in Athens, Greece. (pp 34) June, 2015.
31. Lynch*†, S., Smidt, M., Maples, E., and **Sesek**, R.F. "Noise and Vibration in Full-tree Logging Systems in the Southeastern USA." Proceedings of the 38th Annual COFE Meeting – Engineering Solutions for Non-Industrial Private Forest Operations. Lexington, KY, July 2015.
32. Gallagher, S. and **Sesek**, R.F. "The Low Back Cumulative Trauma Index: An Exposure Assessment Tool Based on Fatigue Failure Theory." Proceedings of the Human Factors and Ergonomics Society Annual Meeting (1st ed., vol. 58, pp. 1605-1607), Sept., 2014.
33. Ketzler*†, J., **Sesek**, R.F., Thomas, R., and Gisbson, S. "A case study of possible improvements to the AIHA Toolkit." Abstracts of the American Industrial Hygiene Association, AIHce. (CS-106-04) 2014. Tichauer Award for Best Podium Session.
34. **Sesek**†, R.F., Gungor*, C., Tang*, R., and Davis, G.A. "America's Changing Work Force: Ramifications for Ergonomic Modeling." Proceedings of the American Society of Safety Engineers Annual Meeting, Orlando, FL, June 10, 2014.
35. Davis†, G.A., Tang*, R., **Sesek**, R.F., and Gallagher, S. "Evaluating Firefighter Performance in a Controlled Environment." Proceedings of the 5th International Conference on Applied Human Factors and Ergonomics, Krakow, Poland, July, 2014. 615-620.
36. Gallagher†, S., **Sesek**, R.F., and Davis, G.A. "Effects of Force and Repetition on Inflammation during Eccentric Muscle Contractions." Proceedings of the 5th International Conference on Applied Human Factors and Ergonomics, Krakow, Poland, July, 2014. 6687-6693.
37. **Sesek**†, R.F., Tang*, R., Gungor*, C., Gallagher, S., Davis, G.A., and Foreman, K.B. "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, Krakow, Poland, July, 2014. 2394-2399.

38. Zhang†*, J., Hai, Z., Thirugnanasambandam*, S., Evans, J., Bozack, M., and **Sesek**, R.F. "Isothermal Aging Effects on the Harsh Environment Performance of Lead-Free Solder Joints." Surface Mount Technology International (SMTAI) Orlando, October, 2012.
39. Zhang†*, J., Hai, Z., Thirugnanasambandam*, S., Evans, J., Bozack, M., **Sesek**, R.F., Zhang, Y., and Suhling, J. "Aging Effects on Creep Behavior of Lead-Free Solder Joints and Reliability of Fine-Pitch Packages." Surface Mount Technology International (SMTAI) Orlando, October, 2012.
40. **Sesek**†, R.F. and Davis, G.A. "Rules of Thumb and Safety Truisms." American Society of Safety Engineers Conference Baltimore, MD, June 17, 2010.
41. Gandhi†*, M., **Sesek**, R.F., and Bamberg, S. "Design of a Portable Vibrotactile Threshold Tester for Workplace Screening of Carpal Tunnel Syndrome." 7th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 16, 2009.
42. Garg A., Hegmann K., Thiese M., Kapellusch J., Merryweather A., Bloswick D.S., Bhoyar P., Boda S., Drury D., Edwards H., Fitzpatrick M., Foster J., Held B. Holmes E., Holubkov R., Korpi J., Milholland S., Oostema S., Schaefer G., Schueller M., Seeds R., Sheng X., **Sesek** R., Vos G., and Wood E. "Low Back Pain Risk Factors in a Large, Multi-Center Prospective Occupational Cohort." International Commission on Occupational Health Congress Capetown, South Africa, March 26, 2009.
43. **Sesek**, R.F. and Gilkey†, D. "OWAS Applications in Exposure Assessment of Construction Tasks to Identify Risk for Musculoskeletal Injury." AIHce08 Minneapolis, June 4, 2008.
44. Gilkey†, D. and **Sesek** R. "ErgoMaster 2-D Modeling Applications in Exposure Assessment of Construction Tasks to Evaluate Compression and Shear in the Lumbar Spine." AIHce08 Minneapolis, June 4, 2008.
45. Gandhi†*, M., **Sesek**, R.F., and Bamberg, S. "Design and Validation of a Portable Vibro-Tactile Threshold Tester for Workplace Screening of Carpal Tunnel Syndrome." 5th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 2007.
46. Tolbert†*, J. and **Sesek**, R.F. "Slim RNLE A Simplified Lifting Method for the Revised NIOSH Lifting Equation." 5th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 2007.
47. **Sesek**†, R.F., Collingwood, S., and Wood, E. "Academics to Practice (A2P): Collaboration Between Interdisciplinary Academic Teams and Industry." 5th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 2007.
48. Hayden*, B., Nicholson*, T., Philpott*, T., and **Sesek**†, R.F. "Hand Truck Loading Analysis." 5th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 2007.
49. Thiese†, M., Hegmann, K., Garg, A., Moore, S., Merryweather*, A., Kapellusch, J., Vos, G., Wood, E., Holmes, E., Deckow-Shaefer, G., Drury, D., Foster, J., Bloswick, D.S., Schuller, M., Milholland, S., Groth, G., and **Sesek**, R.F. "Low Back Pain and Associated Personal Factors at Baseline of a Cohort Study." 5th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 2007.
50. Thiese† MS, Hegmann KT, Garg A, Wertsch JJ, Wood EM, Kapellusch J, Deckow-Schaefer G, Foster J, Drury D, Groth G, Bloswick DS, **Sesek** RF, and Holmes EB. "Causal analyses

for Lateral and Medial Epicondylalgia." State-of-the-art Conference on Musculoskeletal Disorders Salt Lake City, Utah. March 1-2, 2007.

51. Bloswick, D.S., Merryweather†*, A., Loertscher*, M., and **Sesek**, R.F. "Quantifying Stresses and Intervention Strategies for Back-Related MSDs." State-of-the-art Conference on Musculoskeletal Disorders Salt Lake City, Utah, March 1-2, 2007.
52. Hegmann, K., Garg, A., Thiese, M., Holmes, E., Foster, J., Wood, E., Groth, G., Deckow-Schaeffer, G., Sesek, R.F., and Bloswick, D.S. "Prevalence of Periscapular Pain with Tenderness and Analyses of Associated Factors." 28th International Congress on Occupational Health (ICOH) Milan, Italy, June 11-16, 2006.
53. Wood†, E., Hegmann, KT, Garg, A, Thiese, M, Oostema, S, Moore, JS, and **Sesek**, R.F. "Seasonal Influences on Low Back Pain." Proceedings of NORA 2006: Research Makes a Difference Washington, DC. April 2006.
54. Reading*, M., Bloswick, D.S., **Sesek**†, R.F., and Reading, J. "Estimating the Percent of Maximum Effort Using Handgrip Strength and Perceived Exertion." 4th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 20, 2006.
55. **Sesek**†, R.F., Drinkaus*, P.H., and Bloswick, D.S. "The Utah Lifting Index: An Exploration of Low Back Pain Predictive Models." 3rd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 21, 2005.
56. Mecham*, W. and **Sesek**†, R.F. "The Effects of Travel Direction and Surface Condition on Slip Resistance." Proceedings of American Society of Safety Engineers Conference Las Vegas, June 10, 2004, Session #713.
57. Balaji†, A.K., Jayal*, A., **Sesek**, R.F., Gaul*, A., and Lillquist, D. "Environmentally Conscious Machining of Cast Aluminum Alloy: Investigation of Cutting Fluid Effects in Drilling." Proceedings of 32nd North American Manufacturing Research Conference (NAMRC 32) Charlotte, North Carolina, June 3, 2004, Paper #N-074.
58. **Sesek**†, R.F., Gilkey, D., Rosecrance, J., and Guzy, A. "The Utility of OWAS in Auto Manufacturing Assembly Job Evaluations." 2nd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 16, 2004.
59. Beck†*, L., Bloswick, D.S., and **Sesek**, R.F. "Health Effects of Vibrating Equipment - A Comparative Analysis of a Caterpillar CS-4338 Vibratory Compactor," 2nd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 16, 2004.
60. Reese†*, S., **Sesek**, R.F., Tuckett, R., and Bloswick, D.S. "Tactile Response of Three Study Groups to Four Ergonomic Risk Factors." 2nd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 15, 2004.
61. Gaul*, A., **Sesek**†, R.F., Lillquist, D., Jayal*, A., Balaji, A.K., and Yamamoto*, D., "Health Exposures During Wet and Dry Drilling of A390." 2nd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 15, 2004.
62. Ellis†*, E., Bloswick, D.S., and **Sesek**, R.F. "A Pilot Study in to the Correlation Between Grip Parameters and UECTDs in Sewing Operations," 2nd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 15, 2004.

63. Bloswick†, D.S., Hall-Counts, J., Reeve, G., Joseph, B.S., **Sesek**, R.F., Walton, R. Drinkaus*, P.H., and Schwartz, S. "An Ergonomic Survey Tool for Industrial Operations." 15th Triennial Congress of the International Ergonomics Association Seoul, Korea, August 2003.
64. **Sesek**†, R.F., Drinkaus*, P.H., Bloswick, D.S., and Gilkey, D. "Application of the NIOSH Revised Lifting Equation to One-handed Lifting Tasks." 1st Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, June 13, 2003.
65. Yamamoto†*, D., **Sesek**, R.F., Lillquist, D., Balaji, A.K., and Jayal*, A. "Respirable Silica Exposures During Dry Machining of Aluminum-Silicon Alloys.", 1st Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, June 13, 2003.
66. Mecham*, W., and **Sesek**†, R.F. "The Effects of Floor Wear on Slip Resistance Measurements: A Pilot Study." 1st Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, June 12, 2003.
67. Reese†*, S., **Sesek**, R.F., Tuckett, R., and Bloswick, D.S. "Measuring the Effects of Ergonomic Risk Factors on Tactile Sensation." 1st Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, June 12, 2003.
68. Gilkey†, D., Keefe, T., Bigelow, P., Herron, R., Duvall, K., Hautaluoma, J., and **Sesek**, R.F. "Occupational Low Back Pain in Residential Carpenters: OWAS Categories and Forces of Compression and Shear." 1st Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, June 12, 2003.
69. **Sesek**†, R.F., Tuckett, R., Bloswick, D.S., and Khalighi*, M. "Prolonged Provocative Wrist Flexion as an Improved Method for Carpal Tunnel Syndrome Screening." 1st Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, June 12, 2003.
70. West†*, G., Bloswick, D.S., and **Sesek**, R.F. "Biomechanical and Psychophysical Aspects of Handwheel Turning.", 1st Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, June 12, 2003.
71. Drinkaus†*, P.H., **Sesek**, R.F., Bloswick, D.S., Mann, C., and Bernard, T. "The Hand Activity Level: Using Task Level Outputs to Evaluate Job Risk." 1st Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, June 12, 2003.
72. Drinkaus†*, P.H., Bloswick, D.S., **Sesek**, R.F., Mann, C., and Bernard, T. "The Strain Index: Using Task Level Outputs to Evaluate Job Risk." 1st Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, June 12, 2003.

Other Publications (non-peer reviewed) (*indicates supervised student authorship)

1. Gallagher, S., Schall Jr., M.C., **Sesek**, R.F., and Davis, G.A. "Motion Capture of Critical Populations for Vehicle Ingress/Egress." Final Technical Report, HATCI, Ann Arbor, MI. December, 2015.

Conference Presentations (*indicates supervised student authorship)

1. Haight, J., **Sesek**, R.F., Castillo, D., Schall Jr., M.C., Gesinger, S. (Accepted). "Automation and its Impact on Safety and Health of the Workforce." Safety 2020: the American Society of Safety Professionals' Professional Development Conference. Orlando, FL. Lecture Panelist. June 23–25, 2020.
2. Bandekar, A., **Sesek**, R.F., Drinkaus, P.H., Liu, J., Gallagher, S., and Harris, G. "Using Machine Learning (ML) to Explore Associations Between Multiple Risk Factors and Work-related Musculoskeletal Disorders (WMSDs)." 18th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 17, 2020.
3. Nageswaran, S., Davis, G.A., Abulhassan, Y., **Sesek**, R.F., Gallagher, S., Schall Jr., M.C. "Implications of a Lift-Lever Buckle on School Bus Emergency Evacuation." 18th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 17, 2020.
4. **Sesek**, R.F. "Empirical Ergonomics: Life Doesn't Give You Lemons – You Make Them." Institute of Industrial and Systems Engineers (IISE) Southeastern Regional Conference. Auburn, AL February 15, 2020.
5. **Sesek**, R.F. "Practical Ergonomics Training and Evaluation." 20th Annual Public Employees Safety Council of Alabama (PESCA) Conference Montgomery, AL October 17, 2019.
6. Mehdizadeh, A., Vinel, A., Hu, Q., Schall Jr., M.C., Gallagher S., **Sesek**, R.F. "Job Rotation and Work-related Musculoskeletal Disorders: A Fatigue-Failure Perspective." 4th annual Academic Research Colloquium (ARC). Dayton, OH. September 10-12, 2019.
7. **Sesek**, R.F. "Next Generation Ergonomic Assessment Tools." Presented at Millersville University. September 4, 2019.
8. Badawy*, M, Schall Jr., MC, Zabala, M., Coker, J., **Sesek,** R.F., Gallagher, S., Davis, G.A. "Trunk Kinetics and Kinematics among Obese and Older Individuals during One-handed Carrying". XXVII Congress of the International Society of Biomechanics held in conjunction with the 43rd Annual Meeting of the American Society of Biomechanics. Calgary, Alberta, CAN July 31- August 4, 2019.
9. **Sesek**, R.F. and Thomas, R.E. "Understanding Generation Z – The Newest Workforce Population." Presented at Lagrange/Troup County Chamber of Commerce. June 28, 2019.
10. **Sesek**, R.F. "Human Factors and Usability in Marketing." Presented in "Economic Sciences II" course at the University of Applied Sciences Wurzburg-Schweinfurt (FHWS). Schweinfurt, Germany. June 25 & 26, 2019.
11. **Sesek**, R.F. and Thomas, R.E. "Understanding Generation Z – The Newest Workforce Population." Presented at ORCHSE Strategies Occupational Safety and Health Group Corporate Health Directors Network Joint Meeting. May 9, 2019. Washington, D.C.
12. Zhang*, X., Schall, Jr., M.C., **Sesek,** R.F. "Perceived Barriers of Using Wearable Sensors among Industrial Workers in the Internet of Things Architecture." Southeast Regional Research Symposium. Tampa, FL. April 4-5, 2019.
13. Sesek, R.M. and **Sesek**, R. F. "Workshop on Invention, Creativity, and Capturing Intellectual Property." 4/2/19. Auburn, Alabama.
14. **Sesek**, R.F., Schulz, M., Youngblood, N.E., and Sesek, R. M. "Workshop on Faculty Collaboration Among Faculty Across Disciplines." 4/2/19. Auburn, Alabama.
15. **Sesek**, R.F. and Thomas, R.E. "Training "Generation Z" Students and Employees: It Can be Done!" presented at 2019 Applied Ergonomics Conference. 3/28/19. New Orleans, Louisiana.

16. Schall Jr., M.C., Bevly, D., Davis, G.A., Gallagher, S., **Sesek**, R.F. and Zabala, M.E. "Operator 4.0: Collaborative Research to Improve Worker Performance and Safety During the 4th Industrial Revolution." Presented at This is Research: Faculty Symposium. Auburn, Alabama. 10/23/18.
17. Schall Jr., M.C., Gallagher, S., **Sesek**, R.F., Huangfu*, R., Davis, G.A. "Musculoskeletal Disorders as a Fatigue Failure Process: A New Foundation for Risk Assessment: Workshop and Short Course - Musculoskeletal Disorders." Presentations included "Evidence and Implications," "A New Low Back Exposure Assessment Tool," "The Distal Upper Extremity Tool (DUET)," "Collecting and Assessing Job Related Data," "Assessment of Job Rotation Effects for Lifting Jobs Using Fatigue Failure Analysis," and "Future Research Needs." Presented at 20th Congress International Ergonomics Association. Florence, Italy. August 26-30, 2018.
18. Barim*, M., **Sesek**, R.F., Capanoglu*, F., Gallagher, S., Schall Jr., M.C., Davis, G.A. "Evaluating the Reliability of MRI-derived Biomechanically-relevant measures." Presented at 20th Congress International Ergonomics Association. August 26-30, 2018. Florence, Italy. DOI: 10.1007/978-3-319-96083-8_89.
19. Huangfu*, Gallagher, S., R., **Sesek**, R.F., Schall Jr., M.C., Davis, G.A. "Evaluating the Effectiveness of Estimating Cumulative Loading Using Linear Integration Method." Presented at 20th Congress International Ergonomics Association. August 26-30, 2018. Florence, Italy. DOI: 10.1007/978-3-319-96083-8_38.
20. Barim*, M., **Sesek**, R.F., Capanoglu*, F., Sun*, W., Gallagher, S., Schall Jr., M.C., Davis, G.A. "Quantifying Vertebral Endplate Degeneration Using the Concavity Index." Presented at 20th Congress International Ergonomics Association. August 26-30, 2018. Florence, Italy. DOI: 10.1007/978-3-319-96083-8_88.
21. Barim*, M., **Sesek**, R.F., Capanoglu*, F., Gallagher, S., Schall Jr., M.C., Davis, G.A. "Can the Revised NIOSH Lifting Equation be Improved by Incorporating Personal Characteristics?" Presented at 20th Congress International Ergonomics Association. August 26-30, 2018. Florence, Italy. DOI: 10.1007/978-3-319-96083-8_73.
22. Badawy, M., Schall Jr, M.C., Coker, J., Sesek, R.F., Davis, G.A., Zabala, M.E., Gallagher, S. "Effect of Obesity on Trunk Muscle Activity During One-handed Carrying." Presented at 42nd Annual Meeting of the American Society of Biomechanics. August 8-11, 2018, Rochester, MN.
23. **Sesek**, R.F., Gallagher, S., Schall, Jr., M.C., Huangfu*, R., Davis, G.A., and Garnett, R. "A New Understanding of MSD Injuries and the Associated New Tools for Assessing Ergonomic Risk." Presented at ORCHSE Strategies Occupational Safety and Health Group Corporate Health Directors Network Joint Meeting. August 8, 2018. Washington, D.C.
24. Callender, A., Abulhassan, Y., Davis, G.A., **Sesek**, R.F., Gallagher, S., Schall Jr., M.C. "Children's Cognitive Abilities to Understand Emergency Instructions in a Rolled over School Bus." Presented at Annual Meeting of the Association for Psychological Science. May 24-27, 2018. San Francisco, CA.
25. **Sesek**, R.F., Gallagher, S., Schall, Jr., M.C., Huangfu*, R., Davis, G.A., and Garnett, R. "A New Understanding of MSD Injuries and the Associated New Tools for Assessing Ergonomic Risk." Presented at ORCHSE Strategies Western Occupational Safety & Health Group. May 15, 2018. Newport Beach, CA.
26. Lusk*, C., Zhang*, X., Badawy*, M., Cressman*, S., **Sesek**, R.F., Redden, L., Pascoe, D., Schall Jr., M.C. "Aluminet: Investigating a Potential Intervention for Preventing Heat-related

Illness Among Construction Workers." presented at 7th Annual Southeastern States Occupational Network (SouthON) Meeting. April 5-6, 2018. Savannah, GA.

27. Badawy*, M., Schall Jr., M.C., Gallagher, S., **Sesek**, R.F., Davis, G.A. "How much load should young adult obese males carry in one hand?" presented at 2018 Deep South Center for Occupational Health and Safety Research Symposium. April 3-4, 2018. Savannah, GA.
28. **Sesek**, R.F., Thomas, R.E., Salar*, M., Capanoglu*, M.F., Garner*, A., Devall, T., and Zhang*, X. "Generation Z: Insights for Our Youngest Students and Employees." presented at 2018 Applied Ergonomics Conference. March 26-29, 2018. Atlanta, GA.
29. Cavuoto, L., Schall Jr., M.C., **Sesek**, R.F. "Understanding the potential uses of and barriers to adoption of wearable technology in the workplace." presented at 2018 Applied Ergonomics Conference. March 26-29, 2018. Atlanta, GA.
30. Badawy*, M., Schall Jr., M.C., Gallagher, S., **Sesek**, R.F., Davis, G.A. "One-handed carrying in the workplace: A systematic review of the literature." presented at 2018 Applied Ergonomics Conference. March 26-29, 2018. Atlanta, GA.
31. **Sesek**, R.F. and Thomas, R.E. "Understanding Generation Z and How to Improve Your Safety Training." presented at Auburn University Risk Management Quarterly Professional Development Training. February 13, 2018.
32. **Sesek**, R.F. and Thomas, R.E. "Are You Ready for Generation Z?" presented at American Society of Safety Engineers East Alabama Section Meeting. October 27, 2017.
33. **Sesek**, R.F, Gallgher, S., Schall, M., and Davis, G.A. "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.
34. Zhang*, X., Schall Jr., M.C., **Sesek**, R.F., Gallagher, S., Michel, J.S. "Burnout and its Association with Musculoskeletal Pain among Primary Care Providers." Proceedings of the Human Factors and Ergonomics Society 61st Annual Meeting. 2017, October 9-13; Austin, TX. (pp. 1010-1014). DOI: 10.1177/1541931213601735.
35. Schall Jr., M.C., Granzow*, R.F., Smidt, M., **Sesek**, R.F., Gallagher, S., Davis, G.A. "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.
36. Pentikis*, J., Salar*, M., Capanoglu*, and **Sesek**, R.F., "One-handed and Asymmetric Lifting Assessment." presented at American Society of Safety Engineers Conference. Denver, CO, June 20, 2017.
37. Schall Jr., M.C., Cavuoto, L., and **Sesek**, R.F. "Perceived Barriers to the Adoption of Wearable Technologies in the Workplace." presented at ErgoX 2017 (invited). Tampa, FL. June 19-21, 2017.
38. Gallagher, S., Schall Jr., M.C., **Sesek**, R.F., and Huangfu*, R. "Job Rotation to Prevent Back Pain: Help or Hindrance?" presented at ErgoX 2017. Tampa, FL. June 19-21, 2017.
39. Gallagher, S., **Sesek**, R.F., Schall Jr., M.C**.**, Huangfu*, R. "The LiFFT Tool: A practitioner-friendly risk assessment tool to assess the risk of low back pain." Presented at American Industrial Hygiene Conference and Exposition (AIHce). Seattle, WA. June 3-5, 2017.
40. Schall, Jr., M.C., Gallagher, S., Huangfu*, R. and **Sesek**, R.F., "LiFFT: A New Application for Assessing Cumulative Low Back Risk in the Workplace." Presented at IISE Annual Conference and Expo: Safety, Human Factors, and Ergonomics (SHFE) Invited Lecture Panel. Pittsburgh, PA. May 20-23, 2017.

41. **Sesek**, R.F., Devall, T., and Bandekar*, A. "Respect for People and Continuous Improvement: The Foundation for both Lean Engineering and Occupational Safety and Health." presented at Georgia Chapter AIHA Quarterly Meeting (invited). Atlanta, GA. May 4, 2017.
42. Salar*, M., Capanoglu*, M.F., Bandekar*, A., and **Sesek**, R.F. "What is the True Cost of Low-Noise Air Nozzles?" Poster presented at the Deep South Center for Occupational Health and Safety Dillon-Carnahan Research Symposium. Opelika, Alabama. March 31, 2017. (3rd Place Overall at Symposium.
43. **Sesek**, R.F. and Devall, T. "Occupational Safety and Health in a Lean Production Environment." presented at Emerging Issues in Occupational Safety and Health. Opelika, AL. March 30, 2017.
44. **Sesek**, R.F. and Devall, T. "Jidolka is Built on a Foundation of Human Factors." Universidad Catolica Del-Norte, Coquimbo, Chile. January 3, 2017.
45. Gallagher, S., Schall Jr., M.C., Sesek, R.F., Thomas, R.E., and Davis, G.A. "Cutting Edge Ergonomics." 8-hour Workshop. Auburn, AL. December 12, 2016.
46. **Sesek**, R.F., "Human Factors Engineering Short Course." 2-day Course in Hobbs, New Mexico, for URENCO Inc. October 19 & 20, 2016.
47. **Sesek**, R.F. "Personalizing Ergonomics." presented at This is Research. Faculty Symposium 2016. Auburn University, September 16, 2016.
48. Thomas, R.E. and **Sesek**, R.F. "The Value of Listening to Our Students." presented at This is Research. Faculty Symposium 2016, Auburn University, September 16, 2016.
49. Huangfu*, R., Davis, G.A., Abulhassan*, Y., Schall Jr., M.C., Sesek, R.F., Gallagher, S. "Quantifying stairwell evacuation times." Presented at This is Research. Student Symposium 2016. April 12-13, 2016. Auburn, AL.
50. **Sesek**, R.F., Gallagher, S., Schall Jr., M.C., Thomas, R.E., and Davis, G.A. "How to Apply Ergo Principles in the Real World." 8-hour Workshop. Auburn, AL. August 8, 2016.
51. Salar*, M., **Sesek**, R.F., Schall, M.C., and Capanoglu*, M.F. "The Concavity Index: A Novel Approach for Quantifying Intervertebral Disc Degeneration." presented at 9th International Scientific Conference on the Prevention of Work-Related Musculoskeletal Disorders (PREMUS), Toronto, Canada. June 22, 2016.
52. Schall, M. C., Davis, G.A., Huangfu*, R., Sesek, R.F., and Gallagher, S., "Smoke hood design considerations for stairwell evacuation." presented at 4th Annual International Conference on Industrial, Systems, and Design Engineering, Athens, Greece. June, 2016.
53. **Sesek**, R.F. and Salar*, M. "Engineers and Designing for Safety and Ergonomics." presented at Charlotte Safety School Annual Conference Charlotte, NC. April 21, 2016.
54. **Sesek**, R.F., Davis, G.A., and Salar*, M. "Risk Assessment and Management: A Hands-on Approach Using a Case Study." presented at Charlotte Safety School Annual Conference Charlotte, NC. April 21, 2016.
55. Abulhassan*, Y., Davis, G.A., **Sesek**, R.F., Gallagher, S., and Schall Jr., M.C. "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.
56. Huangfu*, R., Davis, G.A., Abulhassan, Y., Schall Jr., M.C., **Sesek**, R. and Gallagher, S., "Quantifying Stairwell Evacuation Times." presented at This is Research: Student Symposium, Auburn, AL. April 12-13, 2016.

57. Schall, M. C., Granzow*, R., Gallagher, S., **Sesek**, R.F., Huangfu*, R., and Davis, G.A., "Strategies for Vehicle Ingress/Egress: Aging and Obese Populations." presented at 5th Annual Southeastern States Occupational Network (SouthON) Meeting, New Orleans, LA. March, 2016.
58. Schall Jr., M.C., Huangfu*, R., Granzow*, R., Su*, S., Huang*, Z., Gallagher, S., **Sesek**, R.F., Davis, G.A. (2015). "Motion capture of critical populations for vehicle ingress and egress." Auburn University College of Engineering Graduate Research Showcase. October 22, 2015. Auburn, AL. (Awarded Best in Industrial and Systems Engineering)
59. **Sesek**, R.F. "Applied Usability: Maximizing the utility of your products and processes." 4-hour workshop. Sharing Safety Strategies: A Workshop for International Safety Exchange Izmir, Turkey. July 2, 2015.
60. Davis, G.A., **Sesek**, R.F., Salar*, M., "Risk Assessment of a Publicly Accessible Commercial Machine." presented at Sharing Safety Strategies: A Workshop for International Safety Exchange. Yasar University & Auburn University, Izmir, Turkey. July 2, 2015.
61. **Sesek**, R.F. and Devall, T.L. "Lean Safety Engineering." Presented at Sharing Safety Strategies: A Workshop for International Safety Exchange Izmir, Turkey. July 1, 2015.
62. Ketzler*, J, Thomas, R., Gallagher, S., **Sesek**, R.F., and Seals, C. "A Proposed Mobile Application to Include Multiple Ergonomics Assessment Tools." Presented at AIHce Conference in Salt Lake City, UT. 2015.
63. **Sesek**, R.F., Devall, T.L., Megahed, F., Davis, G.A., Thomas. R.E., and Gallagher, S. "Research at the Speed of Industry: Integrating Research and Problem Solving into the Curriculum." Brouha Work Physiology Symposium Greenville, SC. April 30, 2015.
64. Devall, T., Megahed, F., Evans, J., and **Sesek**, R. "Integrating Experiential Learning into the Occupational Safety and Ergonomics Curriculum." 13th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 16, 2015.
65. **Sesek**, R.F., Devall, T., and Davis, G.A. "R2C2P: Translating Academic Theory to Practice with Classroom Experimentation." Deep South Center for Occupational Health and Safety Research Symposium Opelika, AL, April 10, 2015.
66. Cao*, Li, Davis, G.A., Gallagher, S., and **Sesek**, R.F. "The Impact of Posture on Evacuation Speed." Deep South Center for Occupational Health and Safety Research Symposium Opelika, AL, April 10, 2015.
67. **Sesek**, R.F., Devall, T., Megahed, F., and Evans, J. "Teaching Human Factors & Ergonomics via the Tiger Motors Experiential Learning Lab." 18th Annual Applied Ergonomics Conference Nashville, TN, March 18, 2015.
68. Salar*, M., **Sesek**, R.F., Capanoglu*, M., Gungor*, C., and Tang*, R. "The Impact of Aging on Spinal Morphology." 18th Annual Applied Ergonomics Conference Nashville, TN, March 18, 2015.
69. Larson, N. and **Sesek**, R.F., Round Table Facilitators for "Case Studies in Ergonomics." 18th Annual Applied Ergonomics Conference Nashville, TN, March 18, 2015.
70. Pentikis*, J., Salar*, M., and **Sesek**, R.F. "Modeling Asymmetric Loads: A Pilot Test to Better Understand the Implications of One-Hand Lifting Tasks." 18th Annual Applied Ergonomics Conference Nashville, TN, March 17, 2015.
71. Ketzler*, J., **Sesek**, R.F. "Available Ergonomic Assessment Tools and their Application." workshop 18th Annual Applied Ergonomics Conference Nashville, TN, March 16, 2015.

72. Haynes*, K., Sesek, R.F., and Davis, G.A. "Warning Symbol Methodology." presented at 18th Annual Applied Ergonomics Conference Nashville, TN March, 2015.
73. **Sesek**, R.F., Gallagher, S., Davis, G.A., and Thomas. R.E. "Occupational Safety and Ergonomics (OSE) at Auburn University." 1er Workshop Internacional de Ingenieria Aplicada Universidad Austral de Chile, Puerto Montt, January 9, 2015.
74. **Sesek,** R.F., Invited Keynote Presentation: "Human Factors 'vs.' Ergonomics." 2014 Gulfstream Corporate Ergonomics Symposium and Ergo Fair Savannah, GA, October 28, 2014.
75. Pentikis*, J., Tang*, R., Salar*, M., **Sesek**, R.F., Gungor*, C., and Foreman, K. "Modeling Asymmetric Loads: Impacts on Lumbar Loading and Ramifications for One-handed Lifting." 12th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, April 17, 2014.
76. **Sesek**, R.F., Davis, G.A., Gallagher, S., Thomas, R.E., and Tang*, R. "Human Factors Engineering." 2-Day Workshop. Auburn, AL. December, 2013.
77. Gallagher, S., Thomas, R.E., **Sesek**, R.F., Davis, G.A., and Tang*, R. "Ergonomics." 2-Day Workshop. Auburn, AL. December, 2013.
78. Blackwell*, T., Thomas. R.E., **Sesek**, R.F. "A Case Study of Utility Workers' Perceptions of Ergonomic Assessment Tools in the AIHA Toolkit." AIHce2013 Montreal, Canada, May, 2013.
79. **Sesek**, R.F., Tang*, R., Gungor*, C., and Foreman, K.B. "Improved Risk Estimation Using Subject Specifics." Brouha Work Physiology Symposium Savannah, GA. April 23, 2013.
80. **Sesek**, R.F., Tang*, R., Gungor*, C., and Foreman, K.B. "Personalizing Ergonomic Evaluations: Using MRI to Improve Risk Assessment." Deep South Center for Occupational Health and Safety Research Symposium Opelika, AL. April 11, 2013. Awarded "Best Dillon-Carnahan Research Presentation."
81. **Sesek**, R.F., and Thomas, R.E., "Systems Approach to Ergonomics." Southern Company Corporate Safety Meetings (invited) Birmingham, AL on January 8, 2013 and Atlanta, GA on January 11, 2013.
82. **Sesek**, R.F. Key Note Presentation. "The Biomechanical Cost of Extra Weight: Obesity's Big Impact." Gulfstream Aerospace Physician's Advisory Board (invited) Savannah, GA, July 17, 2012.
83. **Sesek**, R.F. "Body Mechanics for Industrial Settings." Southern Nuclear Fleet Safety Symposium (invited) Opelika, AL, July 11, 2012.
84. **Sesek**, R.F., Tang*, R., Gungor*, C., and Foreman, K.B. "Personalizing Ergonomic Evaluations: Using MRI to Improve the Predictive Validity of Biomechanical Models." 50th meeting of the Lucien Brouha Work Physiology Symposium Auburn, AL, April 26, 2012.
85. **Sesek**, R.F. "Juncture of Industry and Research: Collaborations Between Industry & Academia." 50th meeting of the Lucien Brouha Work Physiology Symposium Auburn, AL, April 25, 2012.
86. Tang*, R., Gungor*, C., **Sesek**, R.F., Foreman, K.B. "Improving the Estimation of Individual Lumbar Musculoskeletal Structures." 10th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 19, 2012.
87. **Sesek**, R.F., Wei*, T., and Davis, G.A. "Modular Safety Training for Student Design Competition Teams." 10th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 19, 2012.

88. **Sesek**, R.F., Davis, G.A. "Engaging OSH Students in Active Learning." American Society of Safety Engineers Conference Chicago, IL, June 13, 2011.
89. Blackwell*, T., Thomas. R.E., Pearce*, A., Snider*, A., **Sesek**, R.F., and Gibson, S. "A Case Study of Proposed Enhancements to the AIHA Toolkit." AIHce2011 Portland, OR, May, 2011.
90. **Sesek**, R.F. and Davis, G.A. "Safe Lifting Guidelines." 12th Annual Public Employees Safety Council of Alabama (PESCA) Conference Clanton, AL, November 10, 2011.
91. **Sesek**, R.F. "The Effect of Aging and Obesity on Worker Performance." American Society of Safety Engineers East Alabama Section Meeting Auburn, AL, September 23, 2011.
92. **Sesek**, R.F. "Human Factors and Ergonomic Considerations in Material Handling." Material Handling Teachers Institute (MHTI) Auburn, AL, August 3, 2011.
93. **Sesek**, R.F. "Visualizing Innovative Uses of Technology and Devices for Engaging College Students in Active Learning: Effective Use of Props for Introducing and Reinforcing HF Topics." Human Factors and Ergonomics Society Annual Conference September 30, 2010.
94. **Sesek**, R.F. "Productivity and Human Factors are not Mutually Exclusive: How to have your cake and eat it too!" Workers' Compensation Educational Conference (65th Annual) and NIOSH ERC Regional Seminar and Research to Practice (R2P) Symposium (22nd Annual) August 17, 2010.
95. **Sesek**, R.F., Davis, G.A. and Park, W. "America's Changing Workforce: Anything but Lean." Emerging Issues in Occupational Safety and Health Destin Florida, June 23, 2010.
96. **Sesek**, R.F., Tang*, R, Foreman, K.B., and Poulsen*, R. "Estimating Low Back Pain Risk Using Disc Pressure." IERC Cancun, Mexico, June 8, 2010.
97. Piper, A., **Sesek,** R.F. and Watts, B. "Topics in Professional Ergonomics: Ergonomics You Can Use." 2-day Hands-on Workshop Greenville, SC, May 12-13, 2010.
98. Tang*, R., **Sesek**, R.F., and Poulsen*, R. "Modifying Risk Estimates for Low Back Pain Based on Disc Pressure." 8th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 15, 2010.
99. **Sesek**, R.F. and Davis, G.A. "How Ergo/Safety Practitioners determine which Portions of Tasks are Limiting or Potentially Injurious." Alabama Automotive Manufacturers Association Meeting Opelika, AL, 2/18/2010.
100. Dansie*, C., **Sesek**, R.F., and Bloswick, D.S. "Using an Intelligent System to Combine Multiple Ergonomic Analytical Tool Outcomes into a Single Risk Assessment." 7th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 17, 2009.
101. Poulsen*, R. and **Sesek**, R.F. "A Novel Model for Predicting Carpal Tunnel Syndrome and Abnormal Nerve Conduction." 7th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 16, 2009.
102. Adams*, B., Jakka*, P., Bodiga*, U., and **Sesek**, R.F. "Improvements to Inter-Rater Reliability Resulting from Increased Usability of Data Collection Methods: An Improved Utah Analyzer." 6th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 17, 2008.
103. Silverstein B, Bao S, Fan Z, Smith C, Spielholz P, Howard N, Bonauto D, Garg A, Kapellusch J, Hegmann K.T., Thiese M., Bloswick D.S., **Sesek** R.F., and Viikari-Juntura E. "Upper Extremity Musculoskeletal Disorders: Two Prospective Cohort Study Designs." 6th International Scientific Conference on Prevention of Work-Related Musculoskeletal Disorders (PREMUS) Boston, MA, August 29, 2007.

104. Garg A., Thiese M.S., Hegmann K.T., Moore J.S., Merryweather, A., Kapellusch, J., Vos, G., Wood, E., Holmes, E.B., Deckow-Schaefer, G., Drury, D., Foster, J., Bloswick, D.S., Schuller, M., Milholland, S., Groth, G., **Sesek,** R.F. "Individual Factors Associated with Prevalence of Low Back Pain." 6th International Scientific Conference on Prevention of Work-Related Musculoskeletal Disorders (PREMUS) Boston, MA, August 28, 2007.
105. Drinkaus*, P.H. and **Sesek**, R.F. "Development of an Ergonomic Surveillance Tool (EST) for Work-related Musculoskeletal Disorders (WMSDs)." American Society of Safety Engineers Professional Development Conference Orlando, June 27, 2007, Session #705.
106. Franklin*, D., Paul*, S., White*, J., Angerbauer*, S., and **Sesek**, R.F. "Investigation of Ergonomic Improvements for Manual Material Handling of Heavy Awkward Loads on a Loading Dock." 5th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 2007.
107. Davis*, S., Zorn*, M., and **Sesek**, R.F. "Addressing Ergonomic and Safety Concerns on a Local Manufacturing Production Line with Increased Productivity Demands." 5th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 2007.
108. **Sesek**, R.F. and Drinkaus*, P.H. "Rated Phalen's Test for Carpal Tunnel Syndrome Screening." 4th Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 20, 2006.
109. Merryweather, A., Sesek, R.F., Daniels II, J., and Bloswick, D.S. "Utah Ergo Analyzer Posture Classification Tool vs. Peak Motus Motion Analysis in 2D Wrist Flexion/Extension and ulnar/Radial Deviation." 3rd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 22, 2005.
110. **Sesek**, R.F., Mooy*, F., and DeVries, T. "Exploring the Effectiveness of Safety Case-Cutters." 2nd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium Salt Lake City, April 15, 2004.
111. Suruda, A.J., Lillquist, D.R., **Sesek**, R.F., Phillips, P., and Reading, J. "Fatal Injuries of Teenage Construction Workers." APHA Annual Conference Atlanta, GA, October 2001. (Abstract #26012).
112. Suruda, A., Whitaker*, B., Phillips, P., Bloswick, D.S., and **Sesek**, R.F. "Effectiveness of the OSHA Trench and Excavation Standard." APHA Annual Conference Atlanta, GA, October 2001. (Abstract #26245).
113. Milliken, W., Stephenson, D., Suruda, A., and **Sesek**, R.F. "Fatal Injuries in the U.S. Involving Respirators: 1984 – 1995." APHA Annual Conference Atlanta, GA, October 2001.
114. **Sesek**, R.F., Drinkaus*, P.H., Bloswick, D.S., Meservy, D., and Suruda, A. "Using Existing Ergonomics to Predict Job-Related CTD Symptoms and Injuries." American Industrial Hygiene Conference & Exhibition Orlando, Florida, June 2000, #262.

Broadcast Presentations (Webinars, Podcasts, Radio)

1. **Sesek**, R.F. "Let's Democratize Ergonomics with Dr. Richard Sesek." Prevennovate Podcast. WorkRight. Season 1, Episode 3, 2020.
2. **Sesek**, R.F. and Thomas, R.E. "Teaching Ergonomics to a New Generation (Z)." AEC Webinar. IISE. October 17, 2018.
3. **Sesek**, R.F. and Thomas, R.E. "New Approach to Teaching @ Auburn." Auburn/Opelika This Morning. WANI News Talk 98.7 FM 1400 AM. April 18, 2018.

PATENT AND INVENTION ACTIVITY

1. **Sesek**, R.F. and Sesek, R.M. "EZ-Stick™" disclosed to Auburn University (October 25, 2019) (Auburn IP Invention #2020-007).
2. **Sesek**, R.F. and Sesek, R.M. "System and Method to Document Fraud via 3rd Party Corroboration" disclosed to Auburn University (March 4, 2019).
3. **Sesek**, R.F., Davis, G.A., and Abulhassan, Y. "US Provisional Patent Application #62/303,470: Aftermarket School Bus Rear Emergency Door Evacuation Assistance Devices" (2016-17).
4. **Sesek**, R.F., Davis, G.A., and Abulhassan, Y. "US Provisional Patent Application #62/303,048: Aftermarket School Bus Emergency Roof Hatch Evacuation Assistance Devices" (2016-17).
5. Davis, G.A., **Sesek**, R.F., Abulhassan, Y., and Garnett, R. "US Provisional Patent Application #62/300,485: School Bus Emergency Door Evacuation Training Device" (2016-17).
6. Davis, G.A., **Sesek**, R.F., Abulhassan, Y., and Garnett, R. "US Provisional Patent Application #62/300,496: School Bus Emergency Escape Roof Hatch Evacuation Training Device" (2016-17).
7. **Sesek**, R.F., Sesek, S.A., and Sesek, A.M. "US Provisional Patent Application #62/185,274: Backster™: an Ergonomics and Biomechanics Training Aid," 6/26/15.
8. Bloswick, D.S., Ferkovich, D., **Sesek**, R.F., and Campbell, B. "Probe Bar Remover", **Patent #8,413,959, issued April 9, 2013**.
9. Gandhi, M., Bamberg, S., Redd, C., **Sesek**, R.F., and Tuckett, R. "Vibrometers, Vibrometric Systems, and Methods for Measuring Sensory Threshold", US Patent Application Docket No. 6300.237.1.1 (February 24, 2012).
10. Gandhi, M., Redd, C., Tuckett, R., **Sesek**, R.F., and Bamberg, S. "Enhanced Vibrometer for Measurement of Sensory Threshold and Methods of Operating Same", US Provisional Patent Application No. 61/475,564 (April 14, 2011).
11. Gandhi, M., Redd, C., Tuckett, R., **Sesek**, R.F., and Bamberg, S. "Enhanced Vibrometer for Measurement of Sensory Threshold", US Provisional Patent Application No. 61/446,591 (February 25, 2011).
12. **Sesek**, R.F., Poulsen, R., Skinner, T., and Gadicheria, D. "Insulating Pad Anchor Bending Device", disclosure to University of Utah U-4523 (August, 2008).
13. Tuckett, R., Reese, S., **Sesek**, R.F., and Bloswick, D.S. "Apparatus, Systems and Methods for Diagnosing Carpal Tunnel Syndrome", patent application US 2006/0004302 A1 (2005).

SPONSORED RESEARCH

1. **Sesek, RF (PI)** and Thaper, R. (Co-PI). "Noise Induced Hearing Loss (NIHL) Among Agricultural Workers in the Southeast. UK ERC. (10/1/19-9/29/20 ($18,455).
2. **Sesek, RF (PI)** and Lusk (Co-PI), C.B. "Evaluating the Effect of Tai Chi on Muscular Imbalance in Females Aged Fifty and Over Using Magnetic Resonance Imaging." VCOM/AUBE. (7/1/19-6/30/20 ($49,999).
3. Davis, GA, PI, Gallagher, S., **Sesek (Co-PI)**, Schall Jr., MC. "Pilot Project Research Training." CDC/NIOSH: Deep South Center for Occupational Health and Safety Education Research Center Training Grant, Federal. (7/1/17-6/30/18, $21,528 of $86,112).
4. "Occupational Safety and Ergonomics Program", NIOSH Education and Research Center

(ERC), funded by the National Institute for Occupational Safety and Health (NIOSH).
- Davis PI, **Sesek**, **Co-PI,** (2019-2020, $58,261 of $223,042) (UAB-000500836-016)
- Davis PI, **Sesek**, **Co-PI,** (2018-2019, $58,261 of $223,042) (UAB-000500836-016)
- Davis PI, **Sesek**, **Co-PI,** (2017-2018, $64,493 of $257,970) (UAB-000500836-016)
- **Sesek**, **PI,** Davis Co-PI, (2016-2017, $65,520 of $262,080) (UAB-000500836-016)
- **Sesek**, **PI,** Davis Co-PI, (2015-2016, $53,755 of $215,022) (UAB-000500836-016)
- **Sesek**, **PI,** Davis Co-PI, (2014-2015, $75,350 of $226,049) (UAB-000500836-016)
- Davis PI, **Sesek Co-PI** (2013-2014, $70,363 of $211,090) (UAB-000500836-002)
- Davis PI, **Sesek Co-PI** (2012-2013, $74,948 of $219,743) (UAB-000500836-002)
- Davis PI, **Sesek Co-PI** (2011-2012, $74,958 of $224,846) (UAB-000286477-001)
- Davis PI, **Sesek Co-PI** (2010-2011, $104,311 of $208,622) (UAB-OSHERC-OSE-11)
- Davis PI, **Sesek Co-PI** (2009-2010, $114,509 of $229,018)

5. "Occupational Injury Prevention Research and Training", NIOSH Education and Research Center (ERC), funded by the National Institute for Occupational Safety and Health (NIOSH).
   - Gallagher, PI, **Sesek, Co-PI** (2019-2020, $21,269 of $85,077) (UAB-000500836-004)
   - Gallagher, PI, **Sesek, Co-PI** (2018-2019, $21,269 of $85,077) (UAB-000500836-004)
   - Gallagher, PI, **Sesek, Co-PI** (2017-2018, $21,383 of $85,530) (UAB-000500836-004)
   - Gallagher, PI, **Sesek, Co-PI** (2016-2017, $31,981 of $127,924) (UAB-000500836-004)
   - Gallagher, PI, **Sesek, Co-PI** (2015-2016, $27,006 of $108,023) (UAB-000500836-004)
   - Gallagher, PI, **Sesek**, **Co-PI** (2014-2015, $37,316 of $111,949) (UAB-000500836-004)
   - Gallagher, PI, **Sesek**, **Co-PI** (2013-2014, $34,732 of $104,197) (UAB-000500836-004)
   - Gallagher, PI, **Sesek**, **Co-PI** (2012-2013, $34,633 of $103,900) (UAB-000500836-004)
   - **Sesek PI**, Davis, Co-PI (2011-2012, $36,839 of $110,518) (UAB-000286477-002)
   - **Sesek PI**, Davis, Co-PI (2010-2011, $55,565 of $111,129) (UAB-OHSERC-OIPRT-11)
   - **Sesek PI**, Davis, Co-PI (2009-2010, $45,228 of $90,455) (UAB-OHSERC-OIPRT-10)
6. **Sesek (PI)**, Krishnamurti (Co-PI), Schall and Youngblood. "Improving Hearing Conservation Program Effectiveness for Alabama Industries", Auburn Outreach Scholarship Grant Award (1/1/17-12/31/17, $4,996 of $19,984)
7. Schall (PI), Gallagher, Bevly, and **Sesek (Co-PI)**. "Sensor and Material Handling Equipment Technology to Improve Warehouse Performance and Safety", Defense Logistics Agency (Subcontract through Aptima, Inc.) (1/1/17-12/31/17, $7,496 of $29,985)
8. Schall (PI), Pascoe, and **Sesek (Co-PI)**, "Aluminet® Vests: An Innovative Intervention for Preventing Heat-Related Illness among Construction Workers", CDC/NIOSH via Center for Construction Research and Training (1/1/17-12/31/17, $10,500 of $30,000)
9. Gallagher (PI), **Sesek (Co-PI),** Davis, and Schall. "Chronic Cyclic Fatigue Failure and Muscle Fatigue in the Lumbar Spine" Subcontract – CFD Research Corp. (9/1/16-8/31/18, $36,011 of $144,043).
10. **Sesek (PI)**, and Capanoglu*, (Co-PI), "Impact of Core Muscle Strength and Size on the Low Back Health of Firefighters", Deep South Center for Occupational Health and Safety (NIOSH), Federal, (7/1/16-6/30/17, $11,850).
11. Schall (PI), **Sesek (Co-PI)**, and Sefton, J. "Auburn University's Ergonomic Consultation of Pilgrim's Facilities." Four contracts at three Pilgrim's sites (7/1/16-8/31/17, $18,021 of $72,085).
12. **Sesek (PI)**, and Salar* (Co-PI), "Evaluation of Eyestrain Control Measures during MRI Scan/Re-Scan Reliability Research", Deep South Center for Occupational Health and Safety

(NIOSH), Federal, (7/1/15-6/30/16, $11,552) (UAB-000500836-019).
13. Gallagher (PI) (25%), Davis (25%), **Sesek** (25%), Schall (25%), "Motion Capture of Critical Populations for Vehicle Ingress/Egress" funded by Hyundai America Technical Center (8/1/15-7/30/16, $19,765 of $79,060) (HATCI-PO 4500024687).
14. Megahed (PI) and **Sesek (Co-PI)**. "Advancing Safety Surveillance Through Individualized Sensor-based Technologies" ASSE Foundation via SUNY (Buffalo). (8/1/15-1/4/19, $147,500).
15. **Sesek (PI)**, "One Hand Lift Study", US Army Public Health Command, (3/31/2015-9/30/2016, $21,924.00). This purpose of this research was to model one handed and asymmetric lifting to create models to characterize risk with an end goal of providing guidance for MIL STDs related to lifting (ARMY-PHC-88-ERGO AUBURN)
16. "Extended Event Horizon Navigation and Wayfinding for Blind and Visually Impaired Pedestrians in Unstructured Environments" funded by Federal Highway Administration. Bevly PI, **Sesek Co-PI**. (9/1/14-8/31/15, Phase 2: $23,600 of $499,999) (DTFH61-13-C-00006).
17. Davis (PI), **Sesek (Co-PI)**, Gallagher, Schall. "Occupational Safety and Ergonomics Program." CDC/NIOSH: Deep South Center for Occupational Health and Safety Education and Research Center Training Grant (7/1/17-65/30/22, $1,557,525).
18. Gallagher (PI), **Sesek (Co-PI)**, Davis, Schall. "Occupational Injury Prevention Research Training Program." CDC/NIOSH: Deep South Center for Occupational Health and Safety Education and Research Center Training Grant (7/1/17-65/30/22, $521,080).
19. Davis (PI), Gallagher, **Sesek (Co-PI)**, and Schall. "NIOSH Pilot Project Research Training Grant Program." CDC/NIOSH: Deep South Center for Occupational Health and Safety Education and Research Center Training Grant (7/1/17-65/30/22, $500,000).
20. "Heavy Truck Cooperative Adaptive Cruise Control: Evaluation, Testing, and Stakeholder Engagement" funded by Federal Highway Administration (FHWA). Dave Bevly PI, Richard **Sesek Co-PI**. (9/1/13 – 8/31/16, $32,800 of $999,850) (DTFH61-13-H-0019).
21. "Towards the Identification of Predictor Variables for Commercial Vehicle Safety" funded by the National Institute for Occupational Safety and Health (NIOSH). Megahed PI, **Sesek Co-PI**, (7/1/13-6/30/14, $9,658 of $19,315) (UAB-000500836-SC008).
22. "Extended Event Horizon Navigation and Wayfinding for Blind and Visually Impaired Pedestrians in Unstructured Environments" funded by Federal Highway Administration. Bevly PI, **Sesek Co-PI**. (9/1/13-8/31/14, Phase I: $5,000 of $149,946)
23. "Morphological Analysis of the Musculoskeletal Structures of the Lumbar Spine" funded by the National Institute for Occupational Safety and Health (NIOSH). **Sesek PI**, Tang Co-PI. (7/1/11-6/30/12, $17,735 of $17,735) (UAB-000286477-019).
24. "High Tonnage Forest Biomass from Southern Pine" funded by Department of Energy. Taylor, PI. (7/1/12-6/30/13, $28,860 of $332,564).
25. "Southeast Partnership for Integrated Biomass Supply Systems (IBSS)" funded by the United States Department of Agriculture (USDA). Taylor, PI, **Sesek Co-PI** (10/2011-7/13, $125,082 of $1,166,310) (UN TN-8500022698-ISE).
26. "Modifying Risk Estimates for Low Back Pain Based on Disc Pressure" funded by the National Institute for Occupational Safety and Health (NIOSH). **Sesek PI**, Tang Co-PI (7/1/10-6/30/11, $9,881 of $9,881) (UN UT-10002211-AUBURN RS).
27. "Applied Ergonomics Research Project at Larson Manufacturing" funded by Larson Manufacturing Company). **Sesek PI**. (6/1/10-5/31/11, $25,548 of $25,548) (LARSON

MANUFACTURING).

28. "Ergonomics and Safety Research and Training", Kurt Hegmann PI, Don Bloswick Program Director, **Sesek** Investigator. (7/1/08-6/30/09, $182,524), (7/1/07-6/30/08, $182,444) (7/1/06-6/30/07, $136,920), (7/1/05-6/30/06, $136,920), (7/1/04-6/30/05, $136,920), (7/1/03-6/30/04, $149,260), (7/1/02-6/30/03, $146,348), (7/1/01-6/30/02, $93,586.), (7/1/00-6/30/01, $83,468), (7/1/99-6/30/00, $83,468), funded by the National Institute for Occupational Safety and Health (NIOSH).
29. "Occupational Injury Prevention Research and Training", Kurt Hegmann PI, Don Bloswick Program Director, **Sesek** Investigator. (7/1/08-6/30/09, $88,000), (7/1/07-6/30/08, $88,000), (7/1/06-6/30/07, $81,000), (7/1/05-6/30/06, $81,000), (7/1/04-6/30/05, $50,000), (7/1/03-6/30/04, $140,600), (7/1/02-6/30/03, $146,700), (7/1/01-6/30/02, $147,700), funded by the National Institute for Occupational Safety and Health (NIOSH).
30. "The Effect of Personal Characteristics on Self-Reported Work-Related DUE Symptoms," Phillip Drinkaus (PI), Richard **Sesek (Co-PI)**. (10/1/07-6/1/08, $12,391) funded by the National Institute for Occupational Safety and Health (NIOSH).
31. "UAW-Ford EST/ESP Validation and Reliability," Phillip Drinkaus (PI), Richard **Sesek (Co-PI)**. (2/15/07-8/15/07, $24,672) funded by the UAW-Ford Joint Committee for Health and Safety.
32. "Safety and Health Program Assistance: Martin Door Manufacturing," **Sesek**, **PI** (9/1/06-8/31/07, $3,582) funded by Martin Door Manufacturing.
33. "Collaborative Program for the Identification and Prevention of Work-Related Musculoskeletal Disorders", Kurt Hegmann, PI, Don Bloswick, Co-PI, **Sesek** Investigator. (10/1/03-9/30/06, $483,703), funded by the National Institute for Occupational Safety and Health (NIOSH).
34. "Upper Limb Musculoskeletal Disorders: Quantifying Risk", Kurt Hegmann, PI, Don Bloswick, Co-PI, **Sesek**, Investigator. (10/1/02-9/30/06, $800,730), funded by the National Institute for Occupational Safety and Health (NIOSH).
35. "Documentation of Physical Workplace Stresses in Gas Industry Operations", Don Bloswick, PI, Rich **Sesek**, **Co-PI**. (6/1/04-6/1/06, $69,968) funded by the Gas Technology Institute.
36. "Exploring the Effectiveness of Safety Case-Cutters", **Sesek**, **PI** (7/1/03-6/30/04, $16,048) funded by the National Institute for Occupational Safety and Health (NIOSH).
37. "Comparing OWAS Evaluation of Auto Manufacturing Job Tasks to Known Health Outcomes", David Gilkey, PI, Rich **Sesek**, **Co-PI**. (7/1/03-6/30/04. $15,930) funded by the National Institute for Occupational Safety and Health (NIOSH).
38. "Detection of Silica in Aluminum Alloy Machining Dust", **Sesek**, **PI** (7/1/03-6/30/04. $3,330). funded by the National Institute for Occupational Safety and Health (NIOSH).
39. "A Comparison of Aluminum-Silicate Particulate Exposure With and Without Cutting Fluids", **Sesek**, PI (7/1/02-6/30/03, $18,314) funded by the National Institute for Occupational Safety and Health (NIOSH).
40. "ASSE Professional Development Course", **Sesek**, PI (5/02, $5,045), University of Utah Teaching Grant.
41. "Wrist Flexion to Identify Carpal Tunnel Syndrome", Don Bloswick, PI, **Sesek** Co-PI. (9/30/01-8/31/02, $10,000), Neuroscience Research Institute.
42. "Development of an Ergonomic Screening Tool for Multi-Task Jobs", **Sesek**, PI (7/1/01-6/30/02, $14,784), funded by National Institute for Occupational Safety and Health (NIOSH).

43. "Investigation of Sensory Deficits Resulting from Finger Loading", **Sesek**, PI (7/1/00-6/30/01, $11,533), funded by National Institute for Occupational Safety and Health (NIOSH).
44. "Evaluation and Refinement of Ergonomic Survey Tools to Evaluate Worker Risk of Cumulative Trauma Disorders", Don Bloswick, PI, **Sesek** Co-PI. (4/00-5/01, $59,000), funded by the UAW-Ford National Joint Committee for Health and Safety.
45. "Study of Fatal Work Injuries Involving Respirators", Anthony Suruda, PI, **Sesek** Co-PI, (1/28/00-1/28/01. $5,000), funded by the University of Utah Department of Family and Preventive Medicine Health Studies Award.
46. "Research on Young Worker Safety and Health Risks in Construction", Anthony Suruda, PI, **Sesek** Investigator. (9/30/99-9/29/01, $250,466), funded by CDC/NIOSH.
47. "Evaluation and Quantification of Manual Material Handling Risk Factors", **Sesek**, PI (7/1/98-6/30/99, $14,300), funded by the National Institute for Occupational Safety and Health (NIOSH).
48. "Development of Ergonomic Analysis Survey Tool", Don Bloswick, PI, **Sesek** Dissertation, (4/1/98-12/30/00, $245,432), funded by Ford Motor Company.

PENDING PROPOSALS

1. **Sesek, RF (PI)**. "Backster 2.0: A Next Generation Visual Tool for Ergonomic Assessment." Epic Games. (3/1/20-2/28/21 ($25,000).

UNFUNDED PROPOSALS

1. Harris PI, **Sesek (Co-PI)**. "The Deep South Patient Safety Learning Laboratory to Address the Cluster of Harms Associated with Patient Deconditioning" submitted to AHRQ. (12/1/18-11/30/22, $140,800 of $704,000).
2. Krishnamurti, S. (PI), Sesek (Co-PI), Clifford, J., Youngblood, N.E., and Yordy, M. "NoiseHelp@Auburn: a Partnership between Academia and Industry: Collaborating to Address an Invisible Epidemic" submitted to Auburn Presidential Awards for Interdisciplinary Research (PAIR). (10/18-9/21, $300,000).
3. **Sesek, RF (PI)**, Youngblood, N.E., Schall Jr., MC, Krishnamurti, S. "NoiseHelp: Partnering Onsite and Online with Alabama Businesses to Empower Alabamians to Reduce Workplace Noise" Auburn Outreach Grant. (6/18-7/19, $24,963).
4. Gallagher, S. (PI), **Sesek, RF (Co-PI),** and Schall Jr., MC. "Pilot Study to Assess Shoulder Disorder Risk in Industry and to Develop Prototype Shoulder Risk Assessment Tool." CDC/NIOSH Small Research Grant Program (R03). (9/1/2018-8/31/2020 ($33,317 of $99,952).
5. **Sesek, R.F. (PI),** Schall, M.C., Gallagher, S., and Davis, G.A. "Ergonomic Surveillance Tool Modeling and Development." (9/1/17-8/31/18, $31,250 of $125,000), contract US Army Public Health Command, June, 2016.
6. Gallagher (PI) **Sesek (Co-PI)**, Schall and Davis. " The Low Back Cumulative Trauma Index: A Fatigue-Failure Based Risk Assessment Tool", CDC/NIOSH Exploratory Grant Program (R21) (10/1/17-9/30/19, $272,198).
7. **Sesek**, R.F. (PI), Schall, M.C., Gallagher, S., and Davis, G.A. "Establishing 1-hand Lifting Limits," (9/1/16-8/31/18, $125,000), contract US Army Public Health Command, June, 2016.

8. Gallagher (PI), **Sesek (Co-PI)**, and Schall. “Cumulative Damage Estimation in Myotendinous Injuries.” National Basketball Association (NBA) / General Electric. (7/1/17-6/30/19, $164,500).
9. Schall, M. C. (PI), Gallagher, S (co-PI), **Sesek**, R.F. (co-PI), Davis, G.A. (co-PI), and Franco-Watkins, A. (co-PI), "Illusions in Vehicle Interior Design to Increase Driver Perception of Space and Comfort," Sponsored by Hyundai America Technical Center, Inc. (HATCI), Private. (May 2016 - December 2017, $180,000). January, 2016.
10. Gallagher (PI) **Sesek (Co-PI)**, Davis, and Schall. " The Low Back Cumulative Trauma Index: A Fatigue-Failure Based Risk Assessment Tool", CDC/NIOSH Exploratory Grant Program (R21) (9/1/17-9/30/19, $271,095).
11. Megahed, F. (PI), **Sesek**, R.F., and Swartz, S., “Assured: Analytical Support System for Understanding Risk Exposure to Drivers”, (1/1/16-12/31/17, $146,022), CDC, 6/15/15.
12. Gallagher, S., (PI) **Sesek**, R.F., (Co-PI), Davis, G.A., (Co-PI), "The Low Back Cumulative Trauma Index: Development of an Exposure Assessment Tool Based on Fatigue Failure Theory", (10/2015-9/2017, $351,949), NIOSH, Federal resubmission March, 2015.
13. Gallagher, S., (PI) **Sesek**, R.F., (Co-PI), Davis, G.A., (Co-PI), “Optical Motion Capture of Critical Populations for Vehicle Ingress/Egress Using a Simulated Vehicle Buck”, ($117,820), Hyundai America Technical Center, Inc. (HATCI), Contract, March 2015.
14. Gallagher, S., (PI) **Sesek**, R.F., (Co-PI), Davis, G.A., (Co-PI), “Motion Capture of Critical Populations for Vehicle Ingress/Egress”, ($93,980), Hyundai America Technical Center, Inc. (HATCI), Contract, March 2015.
15. Gallagher, S., (PI) **Sesek**, R.F., (Co-PI), Davis, G.A., (Co-PI), “Motion Capture of Critical Populations for Vehicle Ingress/Egress”, ($93,968), Hyundai America Technical Center, Inc. (HATCI), Contract, March 2015.
16. Gallagher, S., (PI) **Sesek**, R.F., (Co-PI), Davis, G.A., (Co-PI), "The Low Back Cumulative Trauma Index: Development of an Exposure Assessment Tool Based on Fatigue Failure Theory", ($336,515), NIOSH, Federal.
17. **Sesek**, R. (PI) and Tang, R. (Co-PI), “Effects of Resistance Strength Training on Core Muscle Co-Contraction Behavior”, ($8,540), Rocky Mountain Center for Occupational and Environmental Health (NIOSH), Federal, May, 2014.
18. **Sesek**, R. (PI) and Salar*, M. (Co-PI), “Modeling Asymmetric Lifting: The Impacts on Lumbar Loading and Ramifications for One-Hand Lifting”, ($7,750), Rocky Mountain Center for Occupational and Environmental Health (NIOSH), Federal, May, 2014.
19. **Sesek**, R. (PI) and Tang, R. (Co-PI), “Effects of Resistance Strength Training on Lumbar Musculoskeletal Structures”, ($13,876), Deep South Center for Occupational Health and Safety (NIOSH), Federal, March, 2014.
20. Youngblood, E. (PI) and **Sesek**, R. (Co-PI), “Connecting Research & Practice: Developing a Safety Information Podcast Series”, ($13,958), Deep South Center for Occupational Health and Safety (NIOSH), Federal, March, 2014.
21. **Sesek**, R. (PI) and Salar*, M. (Co-PI), “The Impact of Aging on Spinal Morphology: an MRI Study”, ($9,672), Deep South Center for Occupational Health and Safety (NIOSH), Federal, (7/1/15-6/30/16), submitted March, 2014
22. Megahed, F.M. (PI), **Sesek**, R.F. (co-PI), Carrano, A. (co-PI), and Gallagher, S. (co-PI), "REU Site: Automotive Manufacturing Systems - From Data to Decisions Through Analytics, Statistical Learning & Process Modeling", *resubmission* to National Science Foundation, Federal. (2014-2016, $87,894 of $351,574).

23. **Sesek**, R.F. (PI), Gallagher, S. (co-PI), and Davis, G.A. (co-PI). "Hand Truck Investigation Study" to be funded Coca-Cola Refreshments (CCR). (1/1/2014-12/31/14, $25,000).
24. Hamilton, A. (PI), **Sesek,** R.F. (co-PI), Davis, G.A. (co-PI), and Yilmaz, (co-PI), "Security and Usability" proposed to the National Science Foundation (NSF). (7/1/13-6/30/15, $436,122).
25. Gallagher, S. (PI), **Sesek**, R.F. (co-PI), and Davis, G.A., (co-PI). "Development of a Cumulative Exposure Assessment Tool for Low Back Disorders in the Mining Industry" proposed to the Alpha Foundation, (7/1/13-6/30/15, $274,212)
26. Sesek, R.F. (PI) and Gallagher, S. (co-PI). "Bucking Bar Investigation Study" submitted to Gulfstream Aerospace. (8/12-9/13, $25,000)
27. Megahed, F.M. (PI) and **Sesek**, R.F. (co-PI). "REU Site: Automotive Manufacturing Systems - From Data to Decisions Through Analytics, Statistical Learning & Process Modeling" proposed to NSF. (8/13-7/15, $345,647) (resubmitted in 2013)
28. Murray, C. (PI), Devall/Evans/Gue/Megahed/**Sesek** (co-PIs). "University/Industry Partnership for Advanced Manufacturing in Automotive & Aerospace", proposed to Alabama Innovation Fund, Alabama Dept. of Commerce. ($441,145).

TEACHING ACTIVITIES

Auburn University (2009 – present) (*****developed by Sesek, **R**redesigned by Sesek)

INSY 7080/7086*****: Human Factors in Engineering Design (Fall 2009, Fall 2011, SU 2012, SU 2013, Fall 2013, SU 2014, SU 2015, Fall 2015, SU 2016 w/Schall, SU 2017 w/Schall, Fall 2017, SU 2018 w/Schall, SU 2019 w/Garnett, Fall 2019)
INSY 7081*****: Human Factors Lab (Fall 2017)
ENGR 1110: Introduction to Industrial and Systems Engineering (SP 2010, SP 2011, SP 2012, SP 2013, SP 2014, SP 2015, SP 2016, SP 2017, SP 2018)
INSY 7090: Occupational Safety and Ergonomics/Injury Prevention Forum (SP 2010, Fall 2011, SP 2012)
INSY 7950: Industrial and Systems Engineering Seminar (Fall 2010, Fall 2011)
INSY 8060/8066**R** Advanced Ergonomics (SU 2010)
INSY 6010/6016 Safety Engineering I (Fall 2010 w/Davis, Fall 2012, SU 2013, SU 2014, Fall 2014, SU 2015, SU 2016, Fall 2016, SU 2016, SU 2017, SU 2018 w/Garnett, Fall 2018, SU 2019 w/Garnett)
INSY 7020/7026 Safety Engineering II (SP 2011, SU 2014)
INSY 8010 Advanced Safety Engineering (Fall 2011)
INSY 3020/7970/7976**R** Occupational Safety and Ergonomics (SP 2013, SP 2014, SP 2015, SP 2016, SP 2017, SP 2018, Fall 2018, SP 2019, Fall 2019)
INSY 7190/7390***** Occupational Safety and Health Forum I & II (Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2018)
INSY 7290/7490***** Occupational Safety and Health Practicum I & II (SP 2012, SP 2015, SP 2017, SP 2019)
ENGR 3520/BUSI**R** 3520 Integrating Business and Engineering Theory with Practice (SU 2016 w/Raju, Fall 2016, SU 2017, Fall 2017, Fall 2018, Fall 2019)
INSY 4970 Industrial Engineering Special Topics – Study Abroad Germany (SU 2018, SU 2019 w/Carpenter, Devall, and Valenzuela)

University of Utah (2000 – 2009) (*developed by Sesek, [R]redesigned by Sesek)

ME EN 7105 Advanced Ergo: Occupational Biomechanics Lab (SP 00, 02, 04, 06, 08)
ME EN 5130/6130* Design Implications for Human-Machine Systems (Fall 02, 04, 06, 08)
FPMD 6759 [R] Occupational Safety and Health Field Trips (SP 01, 02, 03, 04, 05, 06, 07)
ME EN 5110/6110 [R] Introduction to Industrial Safety (SP 02, 06, 07, 08, 09)
ME EN 5120/6120* Human Factors Engineering (Fall 00, 01, 03, 05, 07, 09)
ME EN 7100 Advanced Ergonomics and Biomechanics (SP 02)
ME EN 5960/6960* Emergency Response in Public Venues Preceptorship (Olympics) (SP 02)
ME EN 6960* Engineering Control & Personal Protective Equipment (SP 03, SU 04, SP 05)
BIO EN 6230 / ME EN 7120 [R] Functional Anatomy for Engineers (SP 03, 05, 07, 09)
ME EN 7960* Computer Applications in Ergonomics and Safety (SP 04, 06)
ME EN 5960/6960* Occupational Safety and Health Solutions (SP 07, 08, 09)

While at the University of Utah, lectured on ergonomics and safety topics in: FPMD 6750 Occupational Safety and Health, FPMD 6754 Noise and Other Physical Agents, ME EN 5100/6100 Ergonomics, ME EN 7100 Advanced Ergonomics and Biomechanics, ME EN 3900 Professionalism Seminar, FPMD 6740/6741 Seminar in Occupational Safety and Health I & II, FPMD 6303 Epidemiology of Injury and Violence, ME EN 7110 System Safety, NURS 5962 Introduction to Occupational Health and Safety, PHYSL 5100 Carpal Tunnel Syndrome.

Continuing Education
Continuing Education Courses Taught for:

- Rocky Mountain Center for Occupational and Environmental Health, University of Utah
- Georgia Tech Research Institute, Atlanta Georgia
- Occupational Safety and Health Administration (OSHA)
- American Society of Safety Engineers (ASSE), Salt Lake City, UT, Auburn, AL
- OSHA Training Institute, Atlanta, GA
- Utah Safety Council
- Deep South Center for Occupational Health and Safety, Univ. of Alabama, Birmingham
- Public Employees Safety Council of Alabama (PESCA)
- Applied Ergonomics Conference
- As a private consultant for various industries

GRADUATE STUDENT ACTIVITIES

Doctoral Candidates Advised (6 current, 7 graduated)

1. Nathan Pool, Co-Advisor (w/Gallagher), "Creep Fatigue Testing of Human Flexor Tendons," *expected* graduation Spring 2023.
2. Murray Gibson, "Modeling Recovery from Physical Exertion", *expected* graduation Spring 2022.
3. Ravinder Thaper, "Identifying and Controlling Noise in Agricultural Operations", *expected* graduation Spring 2022.
4. Connor Lusk, "The Impact of Exercise on Muscular Imbalances and Subsequent Low Back Pain", *expected* graduation Spring 2021.

5. Anjaneya Bandekar, "Measuring Musculoskeletal Disorder Outcomes Continuously to Improve Testing and Validation of Ergonomic Assessment Tools", *expected* graduation Spring 2021.
6. Muhammet "Fehmi" Capanoglu, "Reliability of MRI-derived trunk and low back measurements," *expected* graduation Fall 2020.
7. Lin Lu, Co-Advisor (w/Megahed), "Physical Fatigue at Work: Prevalence and Interventions," Summer 2019.
8. Menekse "Violet" Salar, "Validation of MRI-Derived Morphometric Estimations of Biomechanical Inputs to Improve Low Pack Pain Risk Assessment," Fall 2017.
9. Stephanie Lynch, (Smidt Co-advisor), "Quantification of Ergonomic Risk Factors in Southeastern Logging Operations," Summer 2017.
10. John Pentikis, "Determination of Safe Guidelines for One-Hand Lifting," Spring 2017.
11. Ruoliang "Rio" Tang, "Morphometric Analysis of the Human Lower Lumbar Intervertebral Discs and Vertebral Endplates: Experimental Approach and Regression Models," Spring 2013.
12. Celal Gungor, "Prediction of the Erector Spinae Muscle Lever Arm Distance for Biomechanical Models," Spring 2013.
13. Jack Ogutu, Co-Advisor (w/W. Park), "Development of an Empirical Modeling Method for Determining Posture Stress Mapping Functions," Spring 2013.

Masters Candidates Advised

1. Dirk Benade (MISE/MBA), "Ergonomics Chair Redesign," Gulfstream Corporation, Spring 2011.
2. Mack Greer Eubanks (MISE/MBA), "Integrating Ergonomics into the Health and Safety Program at Rexnord Industries," Spring 2011.
3. Angela Setera (MISE), "Evaluation of Job Rotation as a Control Measure for Shoulder Risk," Spring 2011.
4. Brandon Daugherty (MISE), "Effectiveness of an Occupational Safety and Health Policy," Summer 2011.
5. Sura Toptanci (MS), "Psychosocial Factors Affecting Work Related Injuries and Illnesses," Summer 2011.
6. Sean Salvas (MISE), "Eye-tracking scan paths while ranking hazard/warning referents," graduation Spring 2010.
7. Gabe Allen (MISE), "Safety Training: Video Template Design," Spring 2010.

Doctoral Graduate Committee Service

1. Ike Stutts (Advisor, Schall), "Human Performance in Cyber-Vulnerable Highly Automated Unmanned Aerial Systems", *expected graduation Spring 2020.*
2. Yuting Ma (Advisor, Gallagher), TBD, *expected graduation Spring 2022.*
3. Shiva Nageswaran (Advisor, Davis), "Implications of a Lift-Lever Buckle on School Bus Emergency Evacuation", *expected graduation Spring 2021.*
4. Ivan Enrique Nail Ulloa (Advisor, Gallagher), TBD, *expected graduation Spring 2022.*
5. Behnam Rasoolian (Advisor, Silva), "Automating Interpretation of Images and Visual Inspections in Modern Manufacturing and Medical Settings," *expected graduation Fall 2021.*
6. Joel Brawner (Advisor, Davis/Harris), "The Effect of Lean Manufacturing on Occupational Safety", *expected graduation Spring 2021.*

7. Ilknur Uludag (Advisor, A. Smith), “The Space Allocation Problem for Temporary Displays in Supermarkets,” *expected graduation Spring 2021.*
8. David Fly (Advisor, J. Evans), “Additive Manufactured Hybrid Composites as a Lightweight Material,” *expected graduation Spring 2022*.
9. Xuanxuan “Avery” Zhang (Advisor, Schall), “Challenges and Opportunities with the Adoption of Wearable Technologies in the Workplace,” *expected Summer 2020.*
10. Ali Aldubaisi (Advisor, Valenzuela), “Equivalent Age-based Opportunistic Maintenance for Wind Farms,” *expected graduation Spring 2020*.
11. Dania Bani Hani (Advisor, Gallagher), “development and Validation of a Cumulative Exposure Shoulder Risk Assessment Tool Based on the Fatigue-Failure Theory,” Fall 2019.
12. Anto Raj Robert Raj (Advisor, Evans), “Effect of Solder Doping on Aged Lead-Free Solder under Thermal Environment,” (Advisor, Evans), Fall 2019.
13. Hamidreza Ahady Dolatsara (Advisor, Megahed), “Improving Survival Analysis of Transplant Surgeries through a Dynamic Tool,” Summer 2019.
14. Nicholas Smith, (Advisor, S. Gallagher), “In Vitro Tensile Fatigue of Human Flexor Digitorum Profundus and Sperficialis Tendons,” Summer 2019.
15. Alan Gunter (Advisor, G. Davis), “Design Improvements for School Bus Emergency Evacuation Systems,” Summer 2019.
16. Tianqi “Tenchi” (Gao) Smith (Advisor, S. Gallagher), “Effects of force and repetition on inflammation due to eccentric muscle contractions,” Summer 2019.
17. Rong Huangfu (Advisor, Gallagher), “Fatigue Failure Theory Ergonomic Modeling,” Fall 2018.
18. Zahra Maman (Advisor, Megahed), “A Data Driven Framework to Predict the Fatigue among Manufacturing Workers Using Wearable Sensors,” Fall 2018.
19. Mohamed Badawy (Advisor, Schall), “One-Handed Carrying Ergonomic Assessment,” Fall 2018.
20. Gabriel Proano Pena (Advisor, Carrano), “3D-printed Custom Substratum for Fast Functional Responses from Microbial Colonization,” Fall 2018.
21. Robert Granzow (Advisor, Schall), “Characterization of Physical Risk Factors Among Forestry Workers in the Southeastern United States,” Fall 2018.
22. Mohammad Ali Alamadar Yazdi (Advisor, Megahed), “A Web-Based Personal Driving Assistant Using Real-Time Data and a Dynamic Programming Model,” (Advisor, Megahed), Fall 2018.
23. Sivasubramanian “Siva” Thirugnanasambandam (Advisor, Evans), “Lead-free Doped Solder Joint Reliability under Harsh Temperature Cycling Environment to study the Long-Term Isothermal Aging Effects of Heat Sinks, Solder Paste Volume, Board Substrate Material, Component Substrate Material and Component Sizes,” Spring 2018.
24. Theyab Alhwiti (Advisor, Megahed), "A Novel Method for Visualizing Keywords in Bibliometric Science," Fall 2017.
25. Joseph Ekong (Advisor, Carrano), “Effect of Three-Dimensional Substratum Features on Benthic Algal Biomass Productivity,” Fall 2017.
26. Richard Garnett (Advisor, G. Davis), “Hand Speed and After-Reach Protection Machine Guarding,” Fall 2017.
27. Li Cao (Advisor, G. Davis), “Evaluation of Evacuation Performance with Different Locomotive Postures,” Summer 2017.

28. Luann Carpenter (Sims) (Advisor, G. Davis), “Modelling Donning and Doffing Personal Protective Equipment,” Summer 2016.
29. Ali Dag (Advisor, Megahed), "Identifying Critical Factors for Heart Transplant Success via Data Mining Techniques," Summer 2016.
30. Chaobo Shen (Advisor, Evans), “Reliability of Aging in Microstructures for Sn-Ag-Cu Solder Joints with Different Surface Finishes during Thermal Cycling,” Spring 2016.
31. Yousif “Joe” Abulhassan (Advisor, G. Davis), “Physical Requirements to Evacuate a School Bus Using Emergency Evacuation Systems,” Spring 2016.
32. Yao Te Tsai (Advisor, Megahed), “Towards the Identification of Predictor Variables for Highway Safety,” Fall 2015.
33. Christopher “CW” Perr (Davis/Hamilton), “Improving Usable Security and System Safety,” Summer 2014.
34. Namo Vijayakumar (Advisor, J. Evans), “The Effects of Thermal Aging on the Mechanical Behavior of Fine Pitch Electronics Packages,” Fall, 2012.
35. Jiawei Zhang (Advisor, J. Evans), “The Impact of Isothermal Aging on the Long-Term Reliability of Fine Pitch Ball Grid Array Packages with Different Sn-Ag-Cu Solder Joints,” Spring, 2012.
36. Bobbie Watts (Advisor, G. Davis), “The Effect of Varying Work Order Sequences on the Physiological Responses in Manual Material Handling Tasks,” Fall 2011.
37. Zhaozhi Li (Advisor, J. Evans), “A Novel 3D Wafer Level Chip Scale Packaging Technology Processing, Reliability Characterizations and Manufacturing Assessment,” Summer, 2010.

Masters Committee Service

1. Haynes, Kristen (Advisor, G. Davis), May 2016
2. Sherman, Alexander (Advisor, G. Davis), Fall 2015
3. Snider, Audra, (Advisor, R. Thomas), May 2011.
4. Pearce, Ashley, (Advisor, R. Thomas), May 2011.
5. Townson, Bradley, (Advisor, G. Davis), May 2010.
6. Blackwell, Tami, (Advisor, R. Thomas), May 2010.
7. Moyo, Yamkelani, (Advisor, R. Thomas), May 2010.

Outside Reader

1. Robert Leithiser (PhD, Computer Science and Software Engineering) “A Framework for Universal Problem Resolution with Continuous Improvement.” Spring 2014.
2. Qian Ding (PhD, Pharmacy) “The Effects of Unit Dose Dispensing Systems on Medication Preparation and Administration Errors in Intravenous (IV) Drugs in a Chinese Hospital: Inpatient.” Fall 2011.
3. Ranjani Varadarajan (PhD, Pharmacy) “The Effect of Illumination on Medication Preparation Errors in a Long-Term Care Facility.” Summer 2011.
4. Asli Guldurdek (PhD, Math) “On Continuously Urysohn Spaces.” Summer 2010.

University of Utah

Chaired 17 master’s candidates and co-chaired 3 doctoral candidates and 11 master’s candidates. Served as committee member on 5 additional doctoral committees and an additional 49 master’s committees.

PROFESSIONAL REGISTRATION

1. Certified Professional Ergonomist (#1586), Board of Certification in Professional Ergonomics

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

1. Institute of Industrial and Systems Engineers (IISE)
2. American Society of Safety Professionals (ASSP)
3. Human Factors and Ergonomics Society (HFES)
4. American Society for Engineering Education (ASEE)

SERVICE

1. University Senate Nomination Committee (Senate Chair and Senate Secretary), 2019.
2. Industrial and Systems Engineering Representative (Senator) Auburn University Senate, 2019-present.
3. TIGER (Together Inspiring Gender Equity) Advocate for Auburn University, 2019-present.
4. Pilot Project Training Grant Proposal Reviewer for Deep South Center for Occupational Health and Safety, 2019.
5. American Society of Safety Engineers Foundation Board of Trustees, 2015 – 2017.
6. American Society of Safety Professionals Foundation Scholarship and Research Advisor, 2015 – 2019.
7. Graduate Engineering Research Showcase Judge, 2015, 2016, 2017, 2018, 2019
8. Implemented voluntary "Success Strategies" Lecture Program for undergraduates enrolled in ENGR 1110 (Introduction to Engineering). Weekly sessions included inspirational videos as well as interactive discussion about how to "cope" with engineering coursework, "discovering" your career, and general tips for exceling as a student (2015-2018).
9. Occupational Safety and Health representative for 2-day Regional Career Discovery Event. Develop and implement hands-on safety and health related demonstrations and activities for 8th and 9th graders from across the state and region (2015).
10. Brouha Work Physiology Symposium Planning Committee Board of Advisors 2013.
11. Reviewer for the Journal of Safety, Health and Environmental Research (JSHER), 2013.
12. American Society of Safety Engineers (ASSE) Regional Professional Development Conference (PDC) Organizing Committee, Track Co-Chair Ergonomics, Birmingham, AL, 2013.
13. Institute of Industrial Engineers (IIE) Industrial and Systems Engineering Research Conference (ISERC) Track Co-Chair for Human Factors and Ergonomics. IIE National Conference, Orlando, FL, 2012.
14. American Society of Safety Engineers (ASSE) Academic Practice Specialty (APS) National Professional Development Conference (PDC) Organizing Committee, Denver, CO, 2012.
15. NIOSH Education Research Center (ERC) Study Section, Evaluation of University of Cincinnati ERC, 2011.
16. Brouha Work Physiology Symposium Planning Committee/Conference Host 2012
17. Auburn University College of Engineering Safety Officer, 2011- 2015.
18. Faculty Advisor to American Society of Safety Engineers (ASSE) Auburn Student Chapter, 2011 – present. Advisor to Women in Safety in Excellence (WISE), Blacks in Safety Excellence (BISE), and Hispanic Safety Professionals (HSP).

19. Chair "Operations Research Applications in Occupational Safety and Health" track at 2010 INFORMS Southern Regional Conference, Huntsville, AL, April 5-7, 2010.
20. Faculty Advisor to Human Factors and Ergonomics Society (HFES) Auburn Student Chapter, 2010 – 2013.
21. Member Auburn University Structural Modifications ADA (Americans with Disabilities Act) Committee, 2009 – 2015.
22. College of Engineering (COE) Safety Officer, 2007 – 2009 (University of Utah).
23. Brouha Work Physiology Symposium Host 2006 (University of Utah). Brouha Symposium Advisory Board 2006 – present.
24. Faculty Advisor to American Society of Safety Engineers (ASSE) Student Chapter, 2004 – 2009 (University of Utah).
25. College of Engineering Safety Committee (Mechanical Engineering Representative), 2000 - 2009 (University of Utah).
26. Salt Lake City East Central Community Council Neighborhood Representative, Douglas Neighborhood, 1998-1999 (Salt Lake City, Utah).
27. Continuing Education Advisory Committee for the Rocky Mountain Center for Occupational and Environmental Health, 1997-1999 (University of Utah).

HONORS AND AWARDS

1. Nominated for Mark A. Spencer Creative Mentorship Award, 2020.
2. Finalist for Corey Edwards Organization Advisor of the Year Award (for ASSP), 2020.
3. Nominated for Gerald and Emily Leischuck Award for Teaching Excellence, 2019.
4. Outstanding Faculty Member for Industrial and Systems Engineering 2019.
5. Nominated for SGA Outstanding Faculty Member (College of Engineering), Student Government Association, 2019.
6. Nominated for Gerald and Emily Leischuck Award for Teaching Excellence, 2018.
7. William F. Walker Teaching Award (Merit), 2018.
8. Outstanding Faculty Member for Industrial and Systems Engineering, 2016 (student selected).
9. Thomas Walter Professor for the Thomas Walter Center Business Engineering Technology Program, 2016 - present.
10. Tim Cook Professorship in Industrial and Systems Engineering, 2015 - present.
11. Graduate Mentor Award, Auburn University Graduate Student Council, 2015.
12. Student (Neely Ketzler) Tichauer Award for Best Podium Session at AIHAce 2014 ("A case study of possible improvements to the AIHA Toolkit.").
13. Best Dillon-Carnahan Research Presentation at Deep South Center for Occupational Health and Safety Research Symposium 2013 ("Personalizing Ergonomic Evaluations: Using MRI to Improve Risk Assessment").
14. Dr. William E. Tarrants Outstanding Safety Educator Award, American Society of Safety Engineers (ASSE) 2013.
15. BCSP Award of Excellence, Board of Certified Safety Professionals 2013.
16. Nominated for Auburn Engineering Research Award for Excellence, College of Engineering, Auburn University, 2013.
17. Nominated for SGA Outstanding Faculty Member (College of Engineering), Student Government Association, 2013.

18. Outstanding Faculty Member for Industrial and Systems Engineering 2013 (student selected).
19. Outstanding Safety Educator Award 2012, American Society of Safety Engineers (ASSE) Alabama Chapter.
20. Faculty Advisor to National Applied Ergonomics Student Design Competition: 2014 (top 5 team), 2013 (1st Place team), 2012 (2nd Place team), 2011 (two top 5 teams), 2010 (top 10 and honorable mention), 2009 (2nd Place team), and 2008 (2nd Place at University of Utah).
21. ASUU Student Choice Teaching Award 2008 (University of Utah, university wide)
22. Nominated for Graduate Student and Postdoctoral Scholar Distinguished Mentor Award 2008 (University of Utah)
23. Nominated for College of Engineering Teaching Award in 2005 and 2007 (Utah)
24. Nominated for UU Early Career Teaching Award in 2005, 2006, and 2007 (Utah)
25. Workers Compensation Fund of Utah Safe Workplace Scholarship, 1997, 1998 (Utah)
26. National Institute of Occupational Safety and Health Fellowship, 1994-1999 (Utah)
27. Named as Outstanding Instructor, 1989 (University of Illinois)
28. Tau Beta Pi Honor Society 1988 (University of Illinois)
29. Phi Kappa Phi Honor Society 1988 (University of Illinois)
30. Graduation with Honors B.S. General Engineering/B.S. Psychology 1988 (Univ. of Illinois)
31. Illinois State Scholar 1984 (State of Illinois)

OUTREACH

Consultation, training, collaboration, and reports for numerous companies and governmental agencies, including:

1. Abbott Labs, Salt Lake City, UT
2. Airbus, Mobile, AL
3. Aliant Tech Systems (Hercules), Magna, UT
4. American Society of Safety Engineers, UT, NV, FL, AL
5. Barrick Gold, Salt Lake City, UT
6. Becton-Dickinson, Sandy, UT
7. Big Lots!, Montgomery, AL
8. Black Diamond Equipment, Ltd., Salt Lake City, UT
9. BMW Manufacturing, Greenville, SC
10. Boeing, Salt Lake City, UT
11. Borbet, Auburn, AL
12. Briggs and Stratton, Auburn, AL
13. Briotix Health, Portland, OR
14. Brose, Tuscaloosa, AL
15. BSH Household Appliances, Bad Neustadt, Germany
16. Cephalon, Salt Lake City, UT
17. Chevron, Wrangley, WY
18. Chic-Fil-A Corporate Headquarters, Atlanta, GA
19. Church of Jesus Christ of Latter Day Saints Salt Lake City, Alta, UT
20. Coca-Cola Refreshments, Atlanta, GA
21. Conoco-Phillips Park City, UT, Billings, MT
22. Cummins Filtration, Izmir, Turkey

23. Defense Logistics Agency, Columbus, OH
24. Deseret Bakery, Salt Lake City, UT
25. Donaldson Filtration Solutions, Auburn, AL
26. Dyo Paint, Izmir, Turkey
27. Environmental Recycling Solutions (ERS), Opelika, AL
28. Ford Motor Company, Dearborn, Sheldon Road, Livonia, Detroit, MI; Louisville, KY, Lima, OH
29. Fort Benning, Columbus, GA
30. Georgia-Pacific, San Antonio, TX, Atlanta, GA
31. Georgia Plating Technology LLC, Lanett, AL
32. Granite Mountain Record Vault, Alta, UT
33. Gratia Essentials, Opelika, AL
34. Great Lakes Metal Stamping,, Cusseta, AL
35. Gulfstream Aerospace,, Savannah, GA
36. Gunnison Prison, Gunnison, UT
37. Handi-Quilter, North Salt Lake, UT
38. Holly Corporation, Woods Cross, UT
39. Honda Manufacturing of Alabama, Lincoln, AL
40. Hospira, Incorporated, Sandy, UT
41. Hyundai America Technical Center (HATCI), Ann Arbor, MI
42. Hyundai Motor Manufacturing Alabama (C, T), Montgomery, AL
43. IFSYS, Grossbardorf, Germany
44. Imbat Coal Mine, Izmir, Turkey
45. Jopp, Bad Neustadt, Germany
46. Kennecott Utah Copper, Magna, UT
47. Kern River Gas, Salt Lake City, UT
48. Kesler and Rust, Salt Lake City, UT
49. Kia Motors Manufacturing Georgia, West Point, GA
50. Kroger Foods, Layton, UT
51. Leonhart, Harburg, Germany
52. Martin Door Manufacturing, Salt Lake City, UT
53. Michelin Tire Corporation, Greenville, SC
54. Naval Air Station, Patuxent River, MD
55. Neptune Technology Group, Tallassee, AL
56. NIOSH, Cincinnati, OH
57. Nippon Oil Lubricants, Childersburg, AL
58. NuTech Powder Coaters, Newnan, GA
59. Occupational Safety and Health Administration (OSHA) SLC, UT, Atlanta, GA
60. O.C. Tanner, Salt Lake City, UT
61. ORCHSE, Washington, DC
62. OSHA Technical Center, SLC, UT
63. Phillips 66, Woods Cross, UT
64. Pilgrim's, Carrollton, GA; Guntersville, AL; Athens, GA; Canton, GA; Gainesville, GA
65. Pinar Dairy, Izmir, Turkey
66. Polaris, Huntsville, AL
67. Pratt and Whitney, Columbus, GA

68. Public Employees Safety Council of Alabama (PESCA), Clanton, AL
69. Red Rock Software, Salt Lake City, UT
70. Rheem Manufacturing, Montgomery, AL
71. Rio Tinto, Magna, UT; Gillette, WY
72. Salt Lake County Division of Youth Services, SLC, UT
73. Sara Lee, Florence, AL
74. Seohan Auto USA, Auburn, AL
75. Smith's Manufacturing, Clearfield, UT
76. Southern Company, Birmingham, AL, Atlanta, GA
77. Southern Nuclear, Birmingham, AL
78. Tesla Gigafactory, Reno, NV
79. Tooele Army Depot, Tooele, UT
80. Toyota, Huntsville, AL
81. UAW-Ford Joint Committee for Health and Safety, SLC, UT; Detroit, MI
82. Universidad Austral de Chile, Puerto Montt, Chile.
83. US Synthetic, Orem, UT
84. Utah Alcoholic Beverage Commission, Salt Lake City, UT
85. Utah Olympic Oval, Kearns, UT
86. Utah OSHA, SLC, UT
87. Utah State University, Logan, UT
88. Utah Workers Compensation Fund, SLC, UT
89. Velcon, Sylacauga, AL
90. Vestel, Izmir, Turkey
91. Village School, Auburn, AL
92. Watson Laboratories, Salt Lake City, UT
93. Williams Gas Pipeline, Salt Lake City, UT
94. Yamaha, Newnan, GA
95. ZF, Schweinfurt, Germany