

Semra Peksoz

Oklahoma State University, Department of Design, Housing, and Merchandising

Education

Ph. D: Functional Apparel, Oklahoma State University, Stillwater, Oklahoma. 2005.

M.Sc. Engineering Sciences Middle East Technical University, Ankara, Turkey. 1979

B.Sc. Civil Engineering Middle East Technical University, Ankara, Turkey. 1977

Professional Experience

2011-present Associate Professor, Department of Design Housing and Merchandising (DHM), College of Human Sciences Oklahoma State University

2010-2011 Interim Director, Institute of Protective Apparel Research and Technology, Oklahoma State University

2005- 2011 Assistant Professor, DHM, College of Human Environmental Sciences Oklahoma State University

2006- 2010 Assistant Director for Design, Institute of Protective Apparel Research and Technology, Oklahoma State University

Selected Research Projects

- Park, H. (PI), Limbaugh, D., Hebert, P., Mandal, S., Jayadas, A., Peksoz, S., & Boorady, L. (2020). Applications of Cotton in the Post-COVID era. *2021 Cotton in the Curriculum Grant Program*, Importer Support Program of the Cotton Research and Promotion Program, Cotton, Inc., \$28,665 (funded)
- Development of protective and comfort systems for firefighters: Smart Clothing for Firefighter protection; Sensor Gloves for Firefighters; Performance Evaluation of Glove Designs for Firefighters; FireDex Firefighter Bunker Gear Coat and Pants Design; Development of Cooling Garments for Terrorism Fighters,
- Development of ballistic protection systems for the military: Body Armor: Development of Blast Protective Garments for Limbs; Quick Release Load Carrying Ballistic Vest.
- Petrova, A, Peksoz, S., and Jayadas, A. (2019) "JVS Oven Mitt" I, II, III, III-addendum. JVS,USA LLC.
- Petrova, A. and Peksoz, S. (2015) "Product Development – Patterns and fabricating a prototype for a pressure sensor glove". Maverick Technologies, LLC.
- Petrova, A., Peksoz, S., Jayadas, A. (2018). "E-comp stockings: A compression stocking to help improve blood flow". Funding Organization: I-CORPS Site Team Award (#154803), National Science Foundation: [Undergraduate Entrepreneurial Lead: Tristan Norred]
- Peksoz, S. and Petrova, A. (2011) "Advantage Camo Glove Prototype Development and Production. Advantage Supplies Inc.
- Petrova, A. and Peksoz, S., (2009-2010) Performance Evaluation of Glove Designs for Firefighters. Funding supported by Grant No. T42/CCT610417 from the National Institute for Occupational and Environmental Health (NIOSH)/Centers for Disease Control and Prevention to the Southwest Center for Occupational and Environmental Health

Selected publications and presentations

- Petrova, A., Peksoz, S., and Jayadas, A. (2020, under review) "Rate of Heat Transfer in Materials for Oven Mitt Design: Development of Test Apparatus and Protocol"- # CTRJ-20-332. Clothing and Textiles Research Journal.
- Petrova, A., Peksoz, S., and Jayadas, A. (2020, under review) "Rate of Heat Transfer in Materials for Oven Mitt Design: Evaluation of Test Apparatus and Protocol through Material Testing". # CTRJ-20-333 Clothing and Textiles Research Journal.
- Mica, M. T. and Peksoz, S. (2020). Fit Problem and Design Modification of the Ballistic Vest for Female Police Officers International Textiles & Apparel Associations Virtual Conference, November 16-20, 2020
- Petrova, A., Peksoz, S., Jayadas, A., and Brandenburg, J. (2018). Rate of Heat Transfer: Consideration for Design and Safety of Household Oven Mitts. Proceedings of the Annual Conference of International Textile and Apparel Association (ITAA), Cleveland, Ohio, USA. November 6-9, 2018. Finalist best paper. Poster presentation and full paper.
- Peksoz, S. (2018) Engaging Students in the Grading Process. Proceedings of Annual Conference of International Textile and Apparel Association, Cleveland.
- Jayadas, A., Petrova, A. and Peksoz, S. (2017). Interactions of factors contributing to low back pain in patrol police officers: Implications for intervention. Paper presented at the 8th International Conference on Applied Human Factors and Ergonomics (AHFE 2017), Los Angeles, California, USA. July 17-21, 2017