Lesley Strawderman
She received her Ph.D. in Industrial Engineering from Pennsylvania State University in 2005. She has also received M.S.I.E. from Pennsylvania State University and a B.S.I.E. from Kansas State University. She joined the Industrial and Systems Engineering faculty in August 2006.
strawderman@ise.msstate.edu
(662) 325-7214

Dr. Strawderman’s research interests center around human factors and ergonomics. She is particularly interested in the use of usability metrics in service quality improvement. Her research has also included topics such as health care process improvement, consumer product design, cognitive processing, safety systems, and customer satisfaction. Dr. Strawderman has taught courses in the areas of human factors, safety systems, work measurement, and facilities layout.

Kari Babski-Reeves
She received her PhD, MS, and BS degrees in Industrial Engineering from Mississippi State University in 2000, 1998, and 1995 respectively. She joined the Industrial and Systems Engineering Faculty in June 2006. Prior to joining MSU, Dr. Baboki-Reeves was an assistant professor in the Grado Department of Industrial and Systems Engineering at Virginia Tech.
kari@ise.msstate.edu
(662) 325-1677

Dr. Baboki-Reeves’ research efforts are focused in the areas of human factors, ergonomics, and safety. Specifically, her research interests include industrial ergonomics, work related musculoskeletal disorder prevention and control, occupational biomechanics, psychosocial risk factors, work physiology, occupational safety and health, total body fatigue, localized muscle fatigue, and thermography applications in ergonomics. Her research has been funded by entities such as NIOSH, NIU, DHS, TARDEC, TACOM, ORNL, Honda, Hyundai, UPS, ClimaTech Safety Inc., Revealed Knowledge Inc., John’s Hopkins Public School of Health, and the Virginia Institute for Critical Technologies.

Select Current and Recent Projects

**Thermographic Applications in Ergonomics Research**

**Usability Research**

**Occupational Ergonomics in Construction Research**

**Automotive Research**

**Project Titles:** Recommended limits for manual torqueing tasks; User-centered vehicle design

**Funding Sources:** Honda of America and Hyundai

**Body Armor Research**

**Project Title:** Investigation of the Effects of Increased Coverage Area for Soft Body Armor,

**Funding Source:** National Institute of Justice (NIJ)

**Project Title:** Using expert knowledge to prevent upper extremity injuries; Modeling total fatigue during finished carpentry tasks

**Funding Sources:** National Institute for Occupational Safety and Health (NIOSH); Center for Innovation in Construction Research (VT)/NIOSH

**Project Title:** Ergonomic evaluation of a bed assistive device

**Funding Source:** Revealed Technologies, Inc.
Select Current and Recent Projects

Situational Awareness and Cognitive Task Analysis Research

**Project Title:** Semantics-driven knowledge discovery systems for wide area monitoring of electric power grid,

**Funding Source:** Department of Homeland Security (DHS)/Oak Ridge National Laboratory (ORNL)/Southeast Region Research Initiative (SERRI)

Healthcare Service Delivery

**Project Title:** Quantifying the quality of service for healthcare delivery in Mississippi

**Funding Source:** MSU Office of Research – Research Initiation Program (RIP),

Pedestrian Behavior Modeling

**Project Title:** Multi-agent pedestrian simulation modeling

**Funding Source:** United States Department of Transportation (DOT)

Project Titles: Validation of digital human models, Using virtual soldier research (VSR) to determine the work required to integrate cognitive architecture modeling into the TARDEC ground vehicle simulation lab (GVSL), Virtual soldier research: human factors development and evaluation

**Funding Sources:** Tactical Army Command (TACOM) / U.S. Army Tank Automotive Research, Development and Engineering Command (TARDEC)

Virtual Soldier Research

**Project Title:** DSP safety training system, The national highway watch analysis and improvement program, Ergonomics essentials workshop development

**Funding Sources:** UPS, Department of Homeland Security (DHS) and American Trucking Associations (ATA), Center for Advanced Vehicular Systems Extension (CAVS-E)

Training Program Research

**Project Title:** The role of intermodal transportation in humanitarian supply chains

**Funding Source:** National Center for Intermodal Transportation (NCIT)