

Applied Ergonomics Conference and Expo 2009  
March 23 - 26, 2009  
Reno, Nevada

[www.appliedergo.org/conference](http://www.appliedergo.org/conference)

Tuesday, March 24

## Ergonomics - The Department of Defense Perspective Track

8 a.m. – 8:30 a.m.

### *Defense Occupational Health Readiness System - Industrial Hygiene*

Kevin Wisniewski, Industrial Hygienist, and Sandra Parker-Monk, Industrial Hygienist,  
U.S. Army

- The DoD Exposure Assessment Model
- The Army risk management initiatives to capture ergonomics hazards
- The data extraction reports that help to pinpoint personnel exposed to ergonomics hazards within specific work processes

8:30 a.m. – 9 a.m.

### *ErgoFix*

John Pentikis, Ergonomist, U.S. Army

- Assess typical office workstation design flaws seen in an office environment
- Identify mismatches comparing the typical setup vs. a good ergonomic setup
- Using a Web-based application to educate employees

9 a.m. – 9:30 a.m.

### *Keeping Employees Healthy at Work through Proper Ergonomics*

Sharon Terrell-Lindsay, Senior Program Analyst, Department of Defense

- The Computer/Electronic Accommodations Program (CAP)'s Healthy Work Practices Program
- How CAP provides assistive technology and services to federal employees with disabilities
- Information on proper ergonomic setups for an office
- How to conduct an office needs assessment for your employees

## Health Care Issues Track

8 a.m. – 8:30 a.m.

### *Ergonomic Best Practices for Patient Handling*

Mike Lampl, Ergonomist, Ohio Bureau of Workers' Compensation

- Descriptions and cost benefits of various equipment used to reduce lifting of residents/patients
- Usage results data in using this equipment in more than 100 facilities, showing injury rate decreases

8:30 a.m. – 9 a.m.

### *Yes, Safe Patient Handling Programs Can Work*

Carys Price, Director of Employee Injury Prevention, Denise Netta-Turner, Injury Prevention Educator,  
and Rick Zock, Injury Prevention Educator, Christiana Care Health System

- The basic components necessary to initiate and implement a successful safe patient handling program
- Equipment choices based on mobilization needs of population
- Two new uses for equipment/devices
- Three teaching strategies used for learning safe behavior practices

9 a.m. – 9:30 a.m.

***Choosing Patient Handling Equipment and Slings to Fit Caregiver and Patient Needs***

Lynda Enos, Ergonomist, Nursing Practice Consultant, Humanfit

- Identify optimal physical and cognitive ergonomics design features of safe patient handling equipment
- Discuss appropriate choice, use and care of patient handling slings
- Define a process for choosing patient handling equipment that best meets patient care goals, patient characteristics and facility design constraints

## Manufacturing Applications Track

8 a.m. – 8:30 a.m.

***Ergonomic Design Guidelines Your Engineers Need to Know***

Blake McGowan, Senior Consultant and Ergonomics Engineer, Humantech

- The latest ergonomic design principles
- Practical ergonomic design guidelines based on functional anthropometry
- Key learnings from actual engineering projects

8:30 a.m. – 9 a.m.

***Impact of the Use of Gloves on Worker's Performance and Comfort in the Semiconductor Industry***

Awwad Dababneh, Ph.D., C.P.E., University of Jordan and Paul Schwab, Ergonomics Program Manager, Texas Instruments Inc.

- Assess the impact of using wet and dry gloves on worker's performance and comfort in the semiconductor industry
- Results evaluated include function while using gloves, type of gloves and other factors
- Discussion of uses for future investigation

9 a.m. – 9:30 a.m.

***An Assessment of Human Performance for Hydraulic Excavator Operators***

Khaliyah Hughes, Doctoral Student, and Xiaochun Jiang, Associate Professor, North Carolina A&T State University

- Learn how human performance can be modeled for hydraulic excavator operators
- Gain knowledge about design issues using Micro Saint Simulation software

## Ergonomics - The Department of Defense Perspective Track

1:30 p.m. – 2 p.m.

***Army Installation Program Development***

Kelsey McCoskey, C.P.E., Ergonomist, U.S. Army

- How to implement a comprehensive ergonomics program development and assessment
- Perform an ergonomics program assessment
- Facilitate development of revised program plans and priorities

2 p.m. – 2:30 p.m.

***Ergonomics: An Army Industrial Hygienist's Corporate Perspective***

Dennis Palalay, Program Manager, U.S. Army

- Describe the Army industrial hygienist's (IH) role with integrating ergonomics in an industrial hygiene program
- Summarize the challenges and successes from the Army's IH corporate perspective
- List actions we are taking to improve ergonomic assessments
- Discuss the return on investment to implementing the listed actions
- Dramatize the strategic importance of becoming a "Trim Tab" in guiding the successful integration of ergonomics in an industrial hygiene program

2:30 p.m. - 3 p.m.

*Navy Mishap Prevention and Hazard Abatement Program*

Cathy Rothwell, Navy Ergonomics Subject Matter Expert and Theresa Stack, Ergonomist, Naval Facilities Engineering Command

- Understand the Navy Mishap Prevention and Hazard Abatement (MPHA) program
- Overview of the ergonomics technical support and project funding to Navy activities
- Understand what projects and activities are eligible for funding and how to apply for funding
- Gain knowledge of successful ergonomic interventions funded through the MPHA program

## Health Care Issues Track

1:30 p.m. – 2 p.m.

*Occupational Injury in Medical Imaging and Managing Change*

Carolyn Coffin, Sound Ergonomics

- Describe the types and causes of occupational injuries common in medical imaging professionals
- Discuss what changes in work posture and work environment can reduce risk for injury
- Discuss resistance to change and how to approach change

2 p.m. – 2:30 p.m.

*Workbench Worries: Work-Related Injury in the Laboratory*

Susan Murphey, President, Essential Ergonomics

- Identify risk factors associated with work-related musculoskeletal disorders (WRMSDs) in medical laboratories
- Understand and recognize the needs of laboratory workers to ensure their safety from WRMSDs
- Recognize economic and ergonomic benefit of work safety programs in the laboratory as a pro-active approach to preventing work-related injuries

2:30 p.m. - 3 p.m.

*COWs & WOWs: Fodder for Mobile Computing Workstations*

Susan Murphey, President, Essential Ergonomics

- Understand and recognize the needs of health care workers utilizing workstation/computers on wheels to ensure their safety from work-related musculoskeletal disorders
- Identify the need for balancing technological requirements with ergonomic value in order to achieve an ergonomically sound workstation for electronic charting in health care
- Recognize economic and ergonomic benefit of ergonomic input prior to the purchase of workstations on wheels or computers on wheels equipment

## Manufacturing Applications Track

1:30 p.m. – 2 p.m.

*Resistance Welder Ergonomic Enhancements - Cooperative Redesign for Injury Prevention*

Maritza Barrera, Industrial Hygienist; Neeltje Mack, Certified Industrial Hygienist; and Enrique Castro, Primary Manufacturing Engineer, Northrop Grumman

- Identify the tool-related ergonomic risk factors that can affect an operator's hands, wrists and shoulders
- Describe how a cooperative tool redesign effort among engineers, ergonomic, health and safety (EHS) operators and management can be used to eliminate ergonomic risk factors and prevent ergonomic injuries
- Provide relevant information on the basic ergonomic methods, tools and techniques that can be used to evaluate existing and proposed tool designs for ergonomic enhancements

2 p.m. – 2:30 p.m.

***Grit Blast/Paint Room Risk Factors and Solutions***

Bob Rutledge, Regional Safety and Loss Control Manager, AIG Aviation

- Discover risk factors in grit blasting and painting job tasks by surveying workstation layout, hand tools and equipment used to complete job tasking
- Provide solutions to reduce risk factors by redesign of workstation layout, hand tool selection and use and equipment modification.

2:30 p.m. - 3 p.m.

***Ergonomic Assessment of Hand Tools and Workstation Layout***

Abdul Kamal, Associate Professor, Industrial Engineering, Western New England College

- Understand an actuator control system function
- Existing poor ergonomic design of hand tools and workstation layout
- Analytical, yet simple, ergonomic principles and concepts applied to mitigate current designs

## Ergonomics Programs Tracks

1:30 p.m. – 2 p.m.

***Ergonomic Program Development: Conducting Effective Program Audits***

Julia Greenwald, Senior Ergonomist, The Ergonomics Center of North Carolina

- Learn how to set up and conduct an effective, value-added program audit
- See best practice examples of program audits

2 p.m. – 2:30 p.m.

***What Gets Measured Gets Done: Performance Measures for Ergonomics***

Cindy Hung, C.P.E., Senior Consultant & Ergonomics Engineer, Humantech

- Effective metrics for driving and tracking progress
- The steps to establish an ergonomic improvement process
- How to demonstrate return on investment
- Methods for planning, monitoring and tracking progress

2:30 p.m. - 3 p.m.

***Grease the Wheels with an Ergonomics Steering Team***

Sally Shute, Consultant, and Maria Junge, Senior Consultant, Bureau Veritas North America,  
Lester Cacao, Principal, Bayer Healthcare LLC

- How to select ergonomics steering team members
- How to select partners for projects
- Sample case studies will illustrate examples of tool selection and use in upstream ergonomics, job design and other best practice examples

Wednesday, March 25

## Ergonomics - The Department of Defense Perspective Track

8 a.m. – 8:30 a.m.

### *Hand-Arm Vibration at a U.S. Army Installation*

Steven Chervak, Human Factors Engineer, U.S. Army

- A methodology for conducting field assessment of anti-vibration gloves
- Possible pitfalls when conducting field assessments
- The International Standards governing hand-arm vibration

8:30 a.m. – 9 a.m.

### *Assessing Musculoskeletal Injury Risk during Product Development*

Don Goddard, Ergonomist, U.S. Army

- The importance of identifying and mitigating ergonomic risks during product design
- The current Army process for identifying and mitigating injury risks from ergonomic exposures
- The vision for improving risk assessment of ergonomic exposures

9 a.m. – 9:30 a.m.

### *Embracing Vendor Relationships to Improve Quality*

Sharon Wilson, Industrial Engineer Tech, and John Pentikis, Ergonomist, U.S. Army

- Develop relationships with vendors that offer skill sets not found at your installation
- Think of ergonomics as a means to meet quality and Lean Six Sigma objectives as well as improve worker health
- Involve your work force so they are the mechanism for change

## Health Care Issues Track

8 a.m. – 8:30 a.m.

### *Six Sigma Methodology Applied to Safe Patient Mobilization*

Daniel Perrot, Director of Employee Safety and Health, Sutter Health

- Six Sigma problem solving methodology as applied to reducing patient mobilization injuries in an acute care hospital
- Describe how Six Sigma tools were applied to identify and validate root causes as well as methodology used to develop solutions

8:30 a.m. – 9 a.m.

### *The Ergonomics of Patient Handling*

Kent W. Wilson, Safety Program Manager, Hill-Rom

- Identify the patient handling tasks most commonly associated with caregiver injuries
- Describe the role of room design in an effective ergonomics program
- List examples of steps that can be taken to reduce injury risk during patient handling

9 a.m. – 9:30 a.m.

### *Safe Patient Handling Legislation Update*

Lynda Enos, Ergonomist, Nursing Practice Consultant, HumanFit

- Identify states with Safe Patient Handling (SPH) laws and current legislative initiatives
- Identify core components of these state SPH laws
- Discuss effectiveness of SPH initiatives and activities in states with and without SPH legislation

## Tools of the Trade Track

8 a.m. – 8:30 a.m.

### *A Task Risk Characterization Model for Muscle Fatigue*

Dishayne Garcia, Senior Ergonomist, and Stephen Werner, Corporate Ergonomist, Intel Corp.

- Gain an overview of the research and assumptions used to develop a task risk characterization model
- Learn how the model evaluates muscle fatigue potential associated with static postures and exertions
- Model data collection, analysis and results interpretation

8:30 a.m. – 9 a.m.

### *Long-Distance Push Task Assessment Methodology*

Mike O'Brien, Senior Ergonomist, and Mark Harralson, Corporate Ergonomist, Intel Corp.

- Review ergonomics risk factors associated with long-distance pushing (manual material handling)
- Understand scientific bases for methods used to analyze pushing tasks
- Learn input and output variables of an Intel model for risk assessment of long-distance pushing tasks

9 a.m. – 9:30 a.m.

### *How to Assess Hand Impact Tasks*

Siobhan Gaizutis, Project Engineer, Sandalwood

- Measurement methods and tools for hand impact
- Examination of the dynamic tasks performed in order to assess the risk factors

## Master Panel

8 a.m. – 9:30 a.m.

### *Obesity in the Workplace*

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8 a.m. - 9:30 a.m.

Mark E. Benden C.P.E., Ph.D., Texas A&M Health Science Center, Sharon Joines, Ph.D, N.C. State University, and Ann Kuhnen, M.D., Employee Health Management U.S.

Obesity is defined as having a high proportion of body fat to the point where personal health is negatively impacted. Current statistics paint an alarming picture; the population as a whole is getting heavier and unhealthier. Attend this session to learn how ergonomics can enable both obese individuals and those who work with them. Discussions will center on work accommodation and how the applied ergonomics community can advocate making positive long-term personal health choices.

## Ergonomics - The Department of Defense Perspective Track

1:30 p.m. – 2 p.m.

### *Ergonomic Challenge: Pentagon and Leased Facilities for 60,000 Workers*

Brian Higgins, Special Assistant, Environment & Safety, Department of Defense

- Who integrates ergonomics with other safety, occupational health, accessibility and mishap reduction initiatives?
- When can communications enhance awareness and application of ergonomic principles
- How are workplaces improved during multi-year renovation and construction programs at a major DoD installation?

2 p.m. – 2:30 p.m.

### *Initiating and Sustaining Ergonomic Interventions in Decentralized Organizations*

Sean McDonald, Vice President, Mash

- Learn best practices to gain control of the ergonomics and safety prevention efforts
- Discussion will include prioritizing site locations, data presentation, establishing ergonomics and safety committees train the trainer initiatives, sustaining the process over time and more.

2:30 p.m. – 3 p.m.

*A DoD Frontier - Ergonomic Safety for Patients and Staff*

Patricia Collins, Senior Advisor to the Deputy Chief Medical Officer, TRICARE Management Activity  
Based on John P. Kotter's *Change Theory*

- Setting the stage for change: literature and data review of health care staff injuries related to patient handling and movement at our hospitals
- Change strategy and vision: Dealing with naysayers and providing proof through pilot studies
- Making it happen: Communication for understanding and buy-in, short-term wins and continuing partnerships with other organizations

## Potpourri Track

1:30 p.m. – 2 p.m.

*The Frugal Engineer Comes Back*

Leonard Walsh, Engineering Fellow, Pratt & Whitney

- Basic simple fixes even with little to no budget should not hinder a program
- Frugal doesn't mean cheap; it is, however, using the best of available resources

2 p.m. – 2:30 p.m.

*Using Voice to Solve Human Factors Problems*

William Lenharth, Associate Research Professor, University of New Hampshire

- How to design a voice system for a noisy and varied environment using off-shelf standard components
- The University of New Hampshire developed Project54 to be used as a model for how to deploy such a system
- Discussion will center on the ease of customization and application

2:30 p.m. – 3 p.m.

*Ocular, Musculoskeletal and Ergonomic Manifestations among Computer Professionals*

Vipul Shah, Public Health Master's Degree Student, University of North Carolina

- Learn about the relationship between duration of employment and other variables and ergonomic problems among computer professionals
- Learn remedial measures for common ocular and musculoskeletal conditions in computer professionals

## Tools of the Trade Track

1:30 p.m. – 2 p.m.

*The Evolution of the Physical Demands Analysis (PDA)*

Mike Harnett, Director of Operations, WorkSMART

- Design a quality, multi-use PDA document
- Apply a PDA as a proactive tool
- Quantify risks identified within a PDA

2 p.m. – 2:30 p.m.

*Ergonomic Surveys: Factors to Consider*

Robyn Lee, Statistician, U.S. Army

- Clearly defining the purpose of an ergonomic survey
- Formulating reliable and valid questions
- Conducting appropriate analyses of collected data
- How to prepare a good survey tool, analyzing the collected data and interpreting the results

2:30 p.m. – 3 p.m.

*Ergonomic Comparisons on a Budget*

Victor Garrison, Technical Director, Liberty Mutual

- Recognize when commonly available ergonomic assessment tools for workplace safety will not adequately address the task at hand
- Review methods to determine principle risk factors for musculoskeletal disorders for the task at hand
- How to select and tailor evaluation techniques for a meaningful comparison of task options
- Review examples of ergonomic task comparisons

## Lean Manufacturing and Ergonomics Track

1:30 p.m. – 2 p.m.

### *Leveraging Ergonomics to Lead in Lean Manufacturing*

Peter Budnick, President and CEO, Ergoweb Inc.

- The fundamentals of successful continuous improvement methodologies, generally referred to as lean
- The fundamentals of a broad approach to ergonomics and how ergonomics not only complements the goals of continuous improvement, but is central to its success
- Why continuous improvement is intrinsic to ergonomics methodologies and philosophy
- Why and how ergonomists can impact, influence, or better yet, be leaders in the lean journey

2 p.m. – 2:30 p.m.

### *Incorporating Ergonomics into Continuous Improvement Initiatives*

Murray Gibson, Senior Consultant, Aon Global Risk Consulting

- Learn how to incorporate ergonomics into continuous improvement initiatives including lean and kaizen
- Learn how to translate ergonomic-related improvements into the language of business (cycle time reduction, labor savings, cost savings, improved quality, etc.)
- Learn how to utilize ergonomics to increase productivity and improve quality in your organization

2:30 p.m. – 3 p.m.

### *Using Ergonomists' Tools in the Lean Environment*

Theodore Braun, Product Director - Manufacturing Technology, Liberty Mutual

- Risk and accident analysis in the context of value stream mapping
- Risk measurement to support quantitative baselining
- Guiding decisions about manual material handling design using basic tools
- Identifying risks of musculoskeletal disorders as a result of lean
- Aligning ergonomics with standard work

## Ergonomics - The Department of Defense Perspective Track

3:30 p.m. – 4:15 p.m.

### *Ten Terrific Tips to Improve DoD Workers' Compensation Outcomes*

Connie Fox-Samson, Attorney/HR Specialist, U.S. Army

- Identify the four Presidential SHARE goals.
- Describe DoD's progress toward meeting the SHARE goals and Army Medicine's balanced scorecard measures for its civilian workers
- Evaluate initiatives to improve outcomes where gaps and shortfalls exist to determine best practices
- Measures, targets and initiatives used by the Army's Center for Health Promotion and Preventive Medicine to improve workers' compensation outcomes.

4:15 p.m. – 5 p.m.

### *Elements for Funding, Implementing and Creating Ergonomics Solutions*

Richard Borcicky, Safety Engineer/Ergonomist, and Glenda Aultowski, Occupational Health Nurse, Fleet Readiness Center East

- Describe how to obtain funding for an ergonomics program from the ground up

- Detail specific strategies, including 5S+1, for implementing a successful ergonomics program in a high-risk environment
- Identify how to obtain measurable gains in production efficiency while reducing ergonomic risks

## Health Care Issues Track

3:30 p.m. – 4:15 p.m.

### *Patient Care Ergonomics and Building Design Considerations*

Mary Matz, Patient Care Ergonomics Consultant/Program Manager, Veterans Health Administration

- Background/rationale
- Ergonomic evaluation and control measures for the patient care environment
- Building design to accommodate patient handling technology

4:15 p.m. – 5 p.m.

### *Installing Patient Handling Equipment Safely*

Lynda Enos, Ergonomist, Nursing Practice Consultant, HumanFit

- Define a process for successful installation of ceiling lift equipment
- Identify general federal and state regulatory requirements for purchase and installation of safe patient handling equipment
- Identify key criteria to consider when choosing an equipment vendor

## Ergonomics for Non-Traditional Work Forces Track

3:30 p.m. – 4:15 p.m.

### *Ergonomic Innovations for the Masonry Industry*

Dan Anton, Assistant Professor, Eastern Washington University; Jennifer Hess and Laurel Kinci, Research Associates, University of Oregon; Lauren Graupner and Carlos Sanchez Marin, Graduate Research Assistants, University of Iowa

- Identify current innovations in the masonry industry
- Compare regional differences in the use of ergonomic innovations
- Generalize lessons learned from the masonry industry to other occupational groups

4:15 p.m. – 5 p.m.

### *The Challenges and Improvements of TruGreen's Ergonomics Success*

Michael Higgins, Director Risk Management and Safety, TruGreen, and Deepesh Desai, Senior Consultant & Ergonomics Engineer, Humantech

- Identify and assess ergonomics risk in the lawn care environment
- Conduct engineering feasibility design tests and implement the resulting improvements
- Sustain ergonomics success

### Master Panel

3:30 p.m. – 5 p.m.

### *Insights to Facilitating a Global, Multicultural and Cross-Functional Ergonomic Process*

David Davis, Eli Lilly, Brad Dishno, Abbott labs, Monica Matlis, Axendia Inc., Nancy Larson, 3M, and Graciela Perez, GlaxoSmithKline

David Davis, Eli Lilly, Brad Dishno, Abbott Labs, Monica Matlis, Axendia Inc., Nancy Larson, 3M, and Graciela Perez, GlaxoSmithKline

This expert panel discussion is a must for anyone who wants insight into what it takes to run global, multicultural and cross functional processes. The panel will share their combined experiences about global ergonomics communication success and lessons learned related to education/ training, risk assessment, procurement and design. Formed in 2006, the Consortium of Global Human Factors and Ergonomics Professionals are ergonomists with global responsibility. Their goal is to share non-proprietary information among corporate ergonomists.

Thursday, March 26

## Special Populations in Today's Work Force Track – Obese/Aging Population

8 a.m. – 8:45 a.m.

### *Responses to Obesity Simulation Suit*

Sharon Joines, Assistant Professor of Industrial Design, North Carolina State University

- How to recreate our obesity suit and manage its limitations
- How to improve the simulation suit
- An understanding of benefits and design of simulation techniques for obese people

8:45 a.m. – 9:30 a.m.

### *Ergonomics Roundtable - Networking in Your Community*

Kristy Schultz, Ergonomics Consultant, and Ann Pudoff, Ergonomics Consultant, State Fund  
As co-chairs of the Ergonomics Roundtable of Sacramento since 2002, we want to introduce you to this great resource. The roundtable is a nonprofit organization established in 1996 and currently has 400 members throughout Northern California. We meet bimonthly. Our meetings average 40 to 60 members. For more information, visit the Web site at [www.ErgoRT.org](http://www.ErgoRT.org).

### Potpourri Track

8 a.m. – 8:45 a.m.

### *Communicating Hazards for Industrial and Construction Equipment*

Paul Adams, Senior Consultant, Applied Safety and Ergonomics Inc.

- Broaden the perspective of safety and ergonomics practitioners beyond CTD prevention
- Contrast how people acquire hazard knowledge in both the consumer product and occupational domains
- Understand features of occupational settings that affect how workers learn of hazards
- Recognize when warnings might be appropriate and when they are likely to be ineffective

8:45 a.m. – 9:30 a.m.

### *Work Site Intervention Improving Employment for Workers with Arthritis*

Diana Baldwin, Co-Investigator, University of Missouri

- Learn why work site interventions to decrease injuries and pain for workers with arthritis is more effective than provision of educational materials
- Identify variables for work site health promotion/wellness and musculoskeletal disorder prevention programs based on self-management and problem solving based on social learning theory
- Identify the most acceptable modifications in work behaviors and the work environment to decrease work-related problems

## Office Ergonomics Programs and Applications

8 a.m. – 8:45 a.m.

### *Trends in Ergonomic Design for Office Environments*

Jonathan Puleio, Director of Consulting, Humanscale

- Designing healthy work environments
- Common musculoskeletal problems for intensive computer users
- Apply ergonomic principles to design of workstations

8:45 a.m. – 9:30 a.m.

### *Quest for the Holy Grail - Ensuring Sponsorship for Your Ergonomics Program*

Deepesh Desai, Senior Consultant and Ergonomics Engineer, Humantech

- Understand the role of and potential opportunities for management to ensure success of the program

- Identify strengths and opportunities for improvement in current ergonomics program
- Understand how ergonomics can be integrated with and leveraged from common business initiatives

#### Master Panel

##### *Ergo Stew: Recipes for Bringing Health care and Education Professionals Into the Discipline of Ergonomics*

8 a.m. - 9:30 a.m.

Miriam Joffe, Auburn Engineers Inc., Ira Janowitz, Lawrence Berkeley National Laboratory, R.J. Banks, California State Fund, Deidre Rogers, Ergovera Ergonomic Consulting, and Melanie Alexandre, Joint Genome Institute

- Identify educational gaps between health care and ergonomics
- Understand when the job commitment exceeds skill level
- Identify the organizational dynamics of an ergonomics program and getting approval on recommendations (e.g., management buy-in, impact on production, purchasing requirements, budget requests and budget cycle)
- Understand how the team process works (production/process engineers, sourcing, HR, maintenance and others.)
- Identify how to improve knowledge about the team process
- Understand the need for evidence-based practice in ergonomics

## Special Populations in Today's Work Force Track – Obese/Aging Population

9:45 a.m. – 10:30 a.m.

##### *Ergonomic Design for the Obese Office Worker*

Mark Benden, Texas A&M Health Science Center

- General knowledge of the scope of the financial and physical impacts on corporations and workers from the obesity pandemic
- Specific results from pilot studies conducted by researchers at Texas A&M and summaries of other research that show specific ways to help workers win the battle of the bulge while at work

10:30 a.m. – 11:15 a.m.

##### *Is the World Shrinking or Are We Getting Bigger?*

Melanie Alexandre, Senior Ergonomist, Joint Genome Institute

- Obtain an understanding of the scope, severity and impacts of obesity on today's and tomorrow's work force
- Examine how ergonomics plays an active role in optimizing productivity and comfort
- Explore how ergonomists can facilitate improvements for obese children and young adults

## Potpourri Track

9:45 a.m. – 10:30 a.m.

##### *Human Performance in Simulated Tasks Using Game Controllers*

Leslie Parker, Sara McGinley, Daniel W. Carruth and John McGinley, Research Assistants, Mississippi State University

- Similarity of human motion in simulated tasks to real-world tasks
- Similarity of muscle activation between simulated tasks and real-world tasks
- Wii and other similar systems are potentially useful for rehabilitation and work force training

10:30 a.m. – 11:15 a.m.

*Human Error: Causes and Strategies for Prevention*

Michael Topf, CEO and President, Topf Initiatives

- Cutting-edge technology to address the human factors that can cause errors
- Practical self- and team management skills and techniques to prevent errors
- Strategies for error prevention citing examples from industry

## Ergonomics Programs Tracks

9:45 a.m. – 10:30 a.m.

*Partnership for a Healthy Work Force - 2008 Ergo Cup Winner*

David Litzke, Administrative Coordinator, and John Anthony Blackburn, Production Safety Staff, Honda of America Manufacturing Inc.

- The importance of a proactive approach to injury reduction
- The benefits of physical conditioning
- The importance of a process-ready associate
- Basic production skill identification
- The importance of gradual acclimation to job processes

10:30 a.m. – 11:15 a.m.

*John Deere Des Moines Works "Red Flag" Ergonomic Assessment*

Michael Hilby, Manager, Manufacturing Engineering, John Deere Des Moines Works

- How a nontraditional organizational ownership of an ergonomics program can drive results in the work environment
- Methodology and assessment techniques used to achieve step-functional improvement
- Employee engagement for ergonomic success

## Special Populations in Today's Work Force Track – Obese/Aging Population

9:45 a.m. – 10:30 a.m.

*Physical & Cognitive Changes with Age: Ergonomic Implications*

Ben Zavitz, Principal Consultant, Lead Ergonomist, EORM

- The physical and cognitive changes related to age
- Ergonomic tools, methods and guidelines that can be applied to an aging work force
- Simple ergonomic solutions that are applicable to an aging population

10:30 a.m. – 11:15 a.m.

*Ergonomic Risk Reduction for the Aging Health Care Worker*

Don Goddard, Ergonomist, U.S. Army

- Understand the physiological changes of aging that make senior health care workers more vulnerable to injury
- State the key ergonomic risk factors that need to be evaluated to protect senior health care workers from injury
- Explain controls that can be used to reduce injury risk from ergonomic risk factors