

Laurel D. Kincl

Email: lkincl@uoregon.edu

Phone: (541) 346-3073

Education

1998 - June 2002 Ph.D. (Occ. Safety and Ergonomics). University of Cincinnati, Cincinnati, OH
1995 – 1998 M.S. (Industrial Hygiene). University of Cincinnati, Cincinnati, OH
1988 – 1993 B.S. (Bioengineering). Texas A&M University, College Station, TX

Work Experience

July 2003 - present University of Oregon Eugene, OR

Research Associate, Labor Education and Research Center

- Manage project entitled, “Cabin Air Quality Incident Monitoring and Reporting” of the Occupational Health Research Consortium in Aviation.
- Developed and currently disseminate Fire and EMS ergonomics training curriculum in the state of Oregon.
- Complete biomechanical evaluations using the lumbar motion monitor and electrogoniometers for the wrist and forearm for a variety of occupational tasks including manual patient handling techniques for community based health care workers and the use of an extended handled screw gun for construction workers.
- Participate in the Oregon Coalition for Health Care Ergonomics.
- Serve on the Governor’s Occupational Safety and Health Conference 2207 planning committee.
- Conduct Occupational Safety and Health education and training.

Oct. 1999 - May 2003 University of Cincinnati Cincinnati, OH

Research Associate, Biomechanics & Ergonomics Research Laboratories, College of Medicine

- Conducted NIH funded grant research on occupational safety and ergonomics.
- Established study designs and testing protocols for data collection.
- Collected and analyzed human biomechanics/ergonomics data [force platform (kinetic), 2-D and 3-D motion analysis (kinematic), electromyography, eye tracking, electrogoniometry, vision screening, anthropometric, strength].
- Trained students in equipment use, data acquisition and analysis processes.
- Assisted with writing including proposals for future grants, renewals and final reports.
- Assisted in designing new laboratory space to accommodate flexible data collection.
- Assisted with teaching “Occupational Ergonomics” for the continuing education courses conducted at University of Cincinnati.

February 2000 Sardar Patel University Vallabh Vidya Nagar, Gujarat, India

Visiting Lecturer, Center for Environmental and Industrial Hygiene Studies, Birla Vishvakarma Mahavidyalaya

- Taught “Principles of Ergonomics” for masters program in Industrial Hygiene.
- Assisted students in preparing abstracts for international conference.

June 1996 - Oct. 1998 University of Cincinnati Cincinnati, OH

Graduate Assistant, Biomechanics & Ergonomics Research Laboratories

- Prepared subjects for data collection.
- Collected and analyzed human motion analysis data.
- Trained other students for the use of laboratory equipment and data analysis processes.

July 1993 - Sept. 1995 United States Peace Corps The Gambia, West Africa

Secondary Math / Science Education Volunteer

- Taught mathematics and biology at Armitage High School, Georgetown.
- Coordinated the establishment of a Community Skills Training Center.
- Established environmental education classes/projects.

June 1991 - Sept. 1992 National Institutes of Health, NCRR Bethesda, MD

Co-op Student, Biomedical Engineering and Instrumentation Program

- Examined the characteristics of diffusion and clearance of neurotransmitters and metabolites in rat brain.
- Investigated the decomposition of 3,4 dihydroxyphenylacetic acid (DOPAC) to 3,4 dihydroxybenzyl alcohol using reverse phase high performance liquid chromatography (HPLC).
- Assisted in the development of an *in-vivo* PO₂ monitoring probe.

Publications

- Kincl L**, Dietrich K, Bhattacharya A. Injury Trends for Adolescents with Early Childhood Lead Exposure. *Journal of Adolescent Health*. 39(4): 604-6, Oct 2006.
- Weinstein M, Hecker S, Hess J, **Kincl L**. There is Nothing So Practical as a Good Theory: A Roadmap to Diffuse Ergonomic Innovations in the Construction Industry. *International Journal of Occupational and Environmental Health*. In press, 2006
- Hecker SF, Schneider S, Hess JA, **Kincl L**. Ergonomics in Construction. In Occupational Ergonomics Handbook, 2nd edition, Marras WS, Karwowski W eds., CRC Press, Boca Raton, FL., 2006.
- Kincl L**, Murawski J, Hecker S. Occupational Health Research Consortium in Aviation Research Project. *The Journal of Occupational Health and Safety Australia and New Zealand*. 21 (5): 469-474, 2005.
- Kincl L**, Bhattacharya A, Bagchee A, Succop P. The Effect of Workload, Work Experience and Inclined Standing Surface on Visual Spatial Perception: Fall potential/prevention implications. *Occupational Ergonomics*. 3 (4): 251-259, 2002/2003.
- Bhattacharya A, Succop P, **Kincl L**, Lu M, Bagchee A. Postural stability during task performance on elevated and/or inclined surfaces. *Occupational Ergonomics*. 3 (2): 83-97 2002/2003.
- Kincl L**, Bhattacharya A, Succop P, Clark C. Postural Sway Measurements: A Potential Safety Monitoring Technique for Workers Wearing Personal Protective Equipment. *Applied Occupational and Environmental Hygiene*. 17(4): 256-266, 2002.
- Bhattacharya A, Talbot N and **Kincl L**. Occupational Ergonomics: Principles and Applications. Chapter 104 in *Patty's Toxicology, Fifth Edition*. Eds. E. Bingham, B. Cohrssen, C. Powell. John Wiley & Sons, Inc. 2001.
- Mefford I, **Kincl L**, Dykstra K, Simpson J, Markey S, Dietz S and Wightman R. Facile oxidative decarboxylation of 3,4-dihydroxy-phenylacetic acid catalyzed by copper and manganese ions. *Biochimica et Biophysica Acta*, 1290: 224-230, 1996.
- Hess J, **Kincl L**, Albers J, High R. Ergonomic Evaluation of an Extended Handled Screw Gun to Improve Work Postures. *Applied Ergonomics*. In review. 2006.

Grant Funding/ Awards

- 2005-2007: Cabin Air Quality Incident Monitoring and Reporting. (Co-PI) FAA. \$1.3M.
- 2005-2006: Determining Manual Patient Transfer Best Practices to Improve Training of Community-Based Health Care Providers. (Co-PI) Collins Medical Trust. \$25k.
- 2004-2005: Firefighter and EMS Ergonomics Training. (Co-PI) OR-OSHA Training and Education Grant. \$39k.
- 2004-2005: Ergonomic Intervention in Construction, Tool Extension. (Co-PI) NIOSH contract. \$15k.

- 2000: Injury Trends for Adolescents with Childhood Lead Exposure. (P.I.) ERC Pilot Research Training Grant. \$7k
- 2000: Assessment of Risk Factors Associated with Work on Slippery Surfaces at an Automobile Parts Manufacturing Facility. (Co-P.I.) ERC Pilot Research Training Grant. \$6k.
- 2000: Outstanding Performance for Department of Environmental Health Staff, University of Cincinnati, Cincinnati, OH.
- 1998: American Industrial Hygiene Foundation Fellowship, University of Cincinnati.
- 1995-1997: Hazardous Waste Academic Training Program Participant, CDC/NIOSH Education and Research Grant to the University of Cincinnati.

Presentations/Posters

- Hess J, **Kincl L**. Evaluation of Manual Patient Transfer Techniques by a Single Care Provider to Establish Best Practices. International Ergonomics Association 16th World Congress on Ergonomics. Maastricht, The Netherlands. July 10th-14th, 2006.
- Hess J, **Kincl L**. Evaluation of a Tool Extension to Reduce Low Back Injury in Carpenters. International Ergonomics Association 16th World Congress on Ergonomics. Maastricht, The Netherlands. July 10th-14th, 2006.
- Kincl L**, Hess J. Needs Assessment for Long Term Care Facilities and Emergency Medical Service Providers Handling Patients, Including Heavy Patients. 2nd National Health Care Ergonomics Conference. Portland, OR. June 26th-29th, 2006.
- Hess J, **Kincl L**. Comparison of Three Single Person Manual Patient Transfer Techniques for Workers in the Home Environment. 2nd National Health Care Ergonomics Conference. Portland, OR. June 26th-29th, 2006.
- Kincl L**, Hess J. Safe Patient Handling for Emergency Services. Safe Patient Handling & Movement Conference. Tampa, Florida, February 28th-March 3rd, 2006.
- Kincl L**, Murawski J, Hecker S. *OHRCA Research Project*. Contaminated Air Protection: Air Safety and Cabin Air Quality. London, UK. April 20-21st, 2005.
- Bhattacharya A, Gordon J, Succop P, Sobeih T, **Kincl L**. *Effect of workplace risk factors on gait task performance by low-seam miners*. American Industrial Hygiene Conference & Exposition, Anaheim, CA, May 21st-26th, 2005.
- Kincl L**, Hess J, Moss H. *Ergonomic Solutions for Emergency Medical Technicians (EMTs) and Community-based Healthcare Workers*. Healthcare Ergonomics Conference. Portland, OR. July 26-28, 2004.
- Gordon J, **Kincl L**, Bhattacharya A, Succop P. *Postural stability analysis of lead hazard control personnel performing work on ladders on contaminated polyethylene surfaces* American Industrial Hygiene Conference & Exposition – Dallas, TX, May 14, 2003. Awarded the 2003 Tichauer Award – (Best Platform Presentation Paper).
- Kincl L**, Bhattacharya A, Succop P. *The effect of challenging somatosensory inputs on the relationship of eye movement and postural sway patterns of experienced and inexperienced workers*. Human Factors and Ergonomics Society Baltimore - Annual Meeting, MD. September 30-October 4, 2002.
- Gordon J, **Kincl L**, Bhattacharya A. *Ergonomic Walkthrough Evaluation of Lead Risk Assessment and Abatement Tasks*. American Industrial Hygiene Conference and Exposition, San Diego, CA, June 2002.
- Kincl L**, Ning Y, Bagchee A, Mitchell T, Bhattacharya A, Succop P. *The Effect of Workload and Experience in Industrial Workers While Working on Inclined Surfaces on Visual Spatial Perception*. International Society for Occupational Ergonomics & Safety. Fairfax, VA. June 4-7, 2001.
- Lu M, **Kincl L**, Bhattacharya A. *Assessment of Slipperiness of Work Surfaces on Subjective Slip/Fall Measures at an Automobile Parts Manufacturing Facility*. American Industrial Hygiene Conference & Exposition. New Orleans, LA. June 2-7, 2001.
- Gordon J, Menrath W, Auyang E., **Kincl L**, Bhattacharya A. *Identification of Ergonomic Hazards*

- Associated with Lead Hazard Reduction Work Using Focus Groups.* American Industrial Hygiene Conference & Exposition. New Orleans, LA. June 2-7, 2001.
- Kincl L**, Lu M, Wong A, Auyang E, Bhattacharya A. *Walkthrough Ergonomic Checklist for Evaluating Slip/Fall Potential in Lead Abatement Tasks.* XIVth Triennial Congress of the International Ergonomics Association and the 44th Annual Meeting of the Human Factors and Ergonomics Society. San Diego, CA. July 29-August 1, 2000.
- Kincl L**, Dietrich K. *Injury Trends for Adolescents with Childhood Lead Exposure.* Presented at the Pilot Research Project Symposium, University of Cincinnati, October 12th and 13th, 2000 and at the Suskind Symposium, University of Cincinnati, September 8th, 2001.
- Auyang E, **Kincl L**, Lu M, Bhattacharya A. *Determination of postural stability and required coefficient of friction of shoe-ground surface in a low-seam mine scaling task.* American Industrial Hygiene Conference & Exposition. Toronto, Canada. June 7-11, 1999.
- Kincl L**, Bhattacharya A, Succop P, Clark C. *The Use of Postural Sway Measurements as a Safety Monitoring Technique for Workers Wearing Personal Protective Equipment.* American Industrial Hygiene Conference & Exposition. Atlanta, GA. May 9-15, 1998.
- Kincl L**, Lu M, Medvedovic M, Wong A, Bagchee A, Bhattacharya A. *The Effect of Direct Glare on Postural Balance.* American Industrial Hygiene Conference & Exposition. Atlanta, GA. May 9-15, 1998.
- Bliss T, **Kincl L**, Auyang E, Baker J, Dye L, Everitt P, Mangharam J, Paternak E, Rice C. *Residual Pesticides in Housing and Bedding at Migrant Labor Camps in Northwestern Ohio.* American Industrial Hygiene Conference & Exposition. Atlanta, GA. May 9-15, 1998.