



Greater Boston Chapter
American Society of Safety Engineers
www.asseboston.com

Date: Thursday November 11, 2010 **Time:** 5:30 PM—9:00 PM
Location: Liberty Mutual Research Institute for Safety
71 Frankland Rd Hopkinton, MA 01748-1298

Please join GBC ASSE for a technical meeting presentation.

.3 CEUs have been awarded for this meeting!

Topic: Prevention of Slips, Trips and Falls at Work / Research / Prevention / Research to Practice

Speakers: Dr. Wen Chang (See attached Bio)
Mike Sample

Lab Tour:

Studies the mechanics of muscular activity and the effects of different stresses on the body during work tasks involving pushing and pulling, walking and carrying, and manual handling. The goal is to find the safest way for industrial workers to perform these tasks.

Tribology:

Investigates the interactions between shoes, contaminants, and floor surfaces to understand the conditions and mechanisms that lead to slips, trips, and falls.

Agenda

5:30 PM Registration, Professional Networking, Buffet,
6:00 PM Biomechanics & tribology lab tour
6:45 PM Prevention of Slips, Trips and Falls at Work / Research / Prevention / Research to Practice
Dr. Wen Chang: Research / Prevention
8:30 PM Mike Sample: Research to Practice
9:00 PM Open technical Question & Answer

Registration Fees:

-For advanced registration rate, payment must be received by November 08, 2010.

-Due to catering costs, we will be unable to refund cancellations received on or after November 08, 2010 or for "no shows". Final Head count must be given to host for catering purposes on November 08, 2010.

Members

Before 11/8: \$15
After 11/8 : \$20

Non-members

Before 11/8 :\$20
After 11/8 : \$25

Full-time Students

\$10 for full-time students

Retired/Unemployed

In advance or at the door: \$10

Cancellations received after November 8th, or NO SHOWS to the meeting will be charged the full amount.

Please respond via e-mail (preferred) to George R Batchelder CSP, george@nlrisk.com or call (978) 408-6607 to confirm your attendance. When responding, please provide your name and company.

Make checks payable to "Greater Boston Chapter ASSE" and mail to :

George R Batchelder
Nutting Lake Risk Consultancy
PO Box 52 Nutting Lake, MA 01865

Wen-Ruey Chang, Ph.D.



Since joining Liberty Mutual in 1995, Dr. Chang has investigated shoe and floor interfaces with the goal of finding ways to reduce occupational slips and falls. His projects involve identifying preferred, higher-friction microscopic geometric features of floors, measurement of slipperiness, developing protocol to measure friction and a statistical model to estimate the probability of slip incidents, and ladder safety. The findings from these studies help develop interventions and guidelines to reduce slip and fall incidents.

Dr. Chang's experience includes research on footwear and floor contact, surface roughness measurement, surface friction and lubrication, ball bearing dynamics, wear, viscoelasticity, and whole body vibration. His publications have appeared in major safety and ergonomics journals, including *Ergonomics*, *Applied Ergonomics*, *Safety Science*, the *International Journal of Industrial Ergonomics*, *Epidemiology*, the *Journal of Occupational and Environmental Hygiene*, and the *Scandinavian Journal of Work, Environment and Health*. In recognition of his work in the area of slips and falls research, he received the 2003 Ergonomic Society's William F. Floyd Award. He earned the distinction of Fellow with the American Society of Mechanical Engineers in 2005 and the Ergonomics Society (UK) in 2006. In 2006, he was a co-recipient of the the National Occupational Research Agenda (NORA) Partnering Award for Worker Health and Safety from the National Institute for Occupational Safety and Health (NIOSH).

Dr. Chang is a member of the American Society of Mechanical Engineering, the Ergonomics Society, the Human Factors and Ergonomics Society, and the American Society of Testing and Materials and serves as chair of the International Ergonomics Association Technical Committee on Slips, Trips, and Falls. He is an editor of *Ergonomics* and on the editorial board of the *Journal of Testing and Evaluation*. Dr. Chang earned his B.S. in mechanical engineering from the National Chung-Hsing University in Taiwan, and his M.S., and Ph.D. in mechanical engineering from the University of California at Berkeley.
