



# Puget Sound Human Factors and Ergonomics Society

August 2007 Newsletter

[www.pshfes.org/](http://www.pshfes.org/)

## Renew Your Membership or Join Today!

Our chapter is a non-profit organization associated with the Human Factors and Ergonomics Society and serves the interests of the local community of the Pacific Northwest. Our funding is generated via the chapter's membership dues and activities.

For only \$18 (\$9 for students), you can enjoy opportunities for professional development, network with fellow professionals, and tour local facilities when you join PSHFES.

Members receive discounts on all events, including tours, informative dinner meetings, and the Annual Occupational Ergonomics Symposium. Join and have your business listed on our Web site, too.

Join for the 2007 calendar year by visiting our Web site at [www.pshfes.org/](http://www.pshfes.org/), click "Membership," and pay online (Pay Pal) or by check.

## SPECIAL SYMPOSIUM EDITION

A year's worth of planning and preparation will finally pay off September 12th and 13th with the presentation of the 2007 PSHFES Occupational Ergonomics Symposium and Workshop. A mix of nationally renowned and prominent local presenters will address this year's theme: *"Real Ergonomics, Real Results: Doing the Right Thing and Proving It."*

We are especially pleased to welcome Dr. Hal Hendrick, Emeritus Professor at USC and Principal of Hendricks and Associates as our keynote speaker. Drawing upon his 46-year professional career as a practitioner, educator, consultant, and manager in ergonomics, he will present, *"Effective and Cost-Beneficial Ergonomics: Some Documented Lessons Learned."* Dr. Hendrick will highlight a number of highly useful and well-supported "lessons learned" when applying ergonomics to the analysis and design of systems as simple as a single person with a tool or as complex as a multinational corporation. This is your chance to hear from an industry leader practical information that will prove useful for systems analysis, design, and "selling" ergonomics programs and projects to clients or to one's own management.

As you will see in the pages ahead, we have a distinguished cast of speakers and workshop leaders. For fun and our enlightenment, Lorraine Howell will lead us through an exercise in articulating our message to management. We will hear from real live national Ergo Cup participants, learn documentation methods in the healthcare setting, get updated on a groundbreaking 5-year SHARP study, become skilled at innovative ways to capture costs, discover psychosocial factors in lifting, and much, much more!

Of course, don't forget the vendors. Perhaps you will find the tool or computer workstation accessory that has eluded you thus far, and maybe, just maybe, this will be the year you'll win something in the vendor raffle for yourself.



SITE OF 2007 SYMPOSIUM

It all adds up to an invaluable combination of fun, learning, and personal connections that will keep on giving once you return to work. Read on for details of the symposium and workshop, but should you have more questions than we can answer here, feel free to log on to our Web site ([www.pshfes.org/](http://www.pshfes.org/)) or contact us at [pastpresident@pshfes.org](mailto:pastpresident@pshfes.org).

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## 2007 OCCUPATIONAL ERGONOMICS SYMPOSIUM & WORKSHOP AT SEATTLE'S MUSEUM OF FLIGHT

### Real Ergonomics, Real Results: Doing the Right Thing and Proving It

#### Symposium Presentations—Wednesday, September 12th

**Keynote Speaker—Hal Hendrick**

Learn key lessons from an industry leader confirming the economic value of good ergonomics interventions

**Panel Discussion**

Discuss programs that work by effectively working through administrative and management barriers

**Breakout Problem-Solving Session—Lorraine Howell, Lori Winnemuller, and Steve Russell**

How to “message” to management quickly, grab their attention, and get them to buy into your ergonomics interventions and processes

**Cost-of-Injury Model for Calculating the Financial Impact of Injuries—Barb Smith (Boeing-Wichita)**

**NIOSH/SHARP 5-year prospective epidemiological study on work-related upper extremity musculoskeletal disorders —Stephen Bao (SHARP)**

**Competing in the Applied Ergonomics Conference Ergo Cup—Cindy Williamson (Boeing-Everett) and Steve Russell (Boeing-Frederickson)**

**Psychosocial Factors in Safe Lifting—Steve Johnson (Central Washington University)**

**Documenting Cost-Effectiveness of an Ergonomics Program in the Healthcare Setting —Jeannette Murphy (St. Luke's Rehabilitation Institute, Spokane, WA)**

### EXHIBITOR BOOTHS FOR INDUSTRIAL AND OFFICE PRODUCTS—MEET THE VENDORS!

If you are interested in exhibiting, contact: [symposium@pshfes.org](mailto:symposium@pshfes.org).

#### Workshop—Thursday, September 13th

*Effective Ergonomics Processes in Industry: A Model for Success*

**Steve Prevette—Fluor Corporation**

If one doesn't identify the true cause of the problem, then the solutions one derives may not resolve the issue. Prevette will lead participants through “The Red Bead Experiment” to learn to use their data to determine the source of the problem and show change.

**Jose Banaag—Honda of America Manufacturing, Inc.**

Measuring solution effectiveness is the key to justifying the implementation of engineering controls and expenditure of capital. Using a case study and experiential exercises, the participants will learn to measure costs of MSDs, productivity, and changes in quality.

**Rick Goggins—Labor and Industries Ergonomist**

Goggins has developed an Excel-based calculator for various industries that uses relevant data to predict a time for ROI based on a palette of variables. Attendees will use the instrument to create a case for a capital expenditure for a material handling machine in a hypothetical company.

Register before August 29th to take advantage of our early registration rates! (Additional \$25 payment after August 29th)

Symposium—September 12th

Member of PSHFES: \$70

Non-member: \$85

Workshop—September 13th

Member of PSHFES: \$250

Non-member: \$300

Full-time students 1/2 price!

To become a member of PSHFES and/or register for the Symposium and Workshop, visit us at [www.pshfes.org/](http://www.pshfes.org/).

## 2007 PSHFES Symposium Schedule

### Wednesday September 12: Symposium

- 7:30 – Registration, Breakfast, Exhibitors**
- 8:00 – Welcome**
- 8:15 – Keynote with Hal Hendrick, CPE, PhD, Fellow, Emeritus Professor, University of Southern California, Principal Hendricks and Associates**
- 9:00 – NIOSH/SHARP 5-year prospective epidemiological study on work-related upper extremity musculoskeletal disorders – Stephen Bao, SHARP Program at Washington Labor and Industries**
- 10:00 – Exhibitor Break**
- 10:30 – Cost of Injury Model for Calculating the Financial Impact of Injuries – Barbara Smith, Boeing**
- 11:00– Documenting Cost-Effectiveness of an Ergonomics Program in the Healthcare Setting – Jeannette Murphy, OTR/L, CEA**
- 11:45 – Lunch, Exhibitors**
- 12:30 – Announcements, Ergonomist of the Year Award**
- 12:45 – Interactive Breakout Session: “Getting Your Message to Management” – Lorraine Howell, Media Skills Training**
- 1:45 – Exhibitor Break**
- 2:15 – Expert Panel: Programs that work and barriers to success**
- 3:15 – Competing in the National Ergo Cup Competition – Steve Russell and Cindy Williamson, Boeing**
- 3:45 – Psychosocial Factors In Safe Lifting – Steve Johnson, PhD. Central Washington University**
- 4:30 – Door prizes, Symposium Feedback, and Wrap-Up**

### Thursday September 13: Workshop

- 7:30 – Registration, Breakfast**
- 8:00 – Welcome**
- 8:15 – 4: 00 p.m. Workshop & Lunch**
- One day, three presenters, millions of brain cells stimulated.
- This Workshop will build on the Symposium theme “Real Ergonomics, Real Results: Doing the Right Thing and Proving It” by providing participants with practical examples and tools they can use to assess their ergonomics efforts and communicate their successes to management.
- Steve Prevette** from Fluor/Hanford will perform a minor miracle by making statistics interesting. Workshop participants will take part in the Red Bead Experiment, a Deming quality exercise that explores processes, incentive programs, and data collection in a way that is both entertaining and potentially paradigm-shifting. Steve will also teach methods for presenting data to management in a dashboard format.
- Jose Banaag** from Honda of America (a perennial Ergo Cup winner) will share the methods that his company has used to achieve their phenomenal success in preventing injuries while continuously improving quality. Jose’s presentation is filled with case studies and useful advice.
- Rick Goggins** from the Department of Labor and Industries will present a simple cost-benefit calculator for ergonomics interventions, with examples from both Honda and Hanford. Workshop participants are encouraged to bring a laptop so that they can practice with the calculator in a small group exercise.
- The day will conclude with the three presenters leading a discussion among participants on methods they use to assess their programs and communicate results. There will be plenty of time for questions and answers, as well as interaction with fellow attendees.

## Joint Meeting with IIE and PSHFES

Our Joint Picnic with the local IIE Chapter was a success despite the drizzles! We identified two opportunities to educate the public about what we do and I am very excited about both!

1) 4-6 PSHFES members to sit on a panel at an IIE Chapter meeting, hopefully this late fall. We are looking for Ergonomists who are also IE's.

If you are interested in learning more, please contact me at [President@pshfes.org](mailto:President@pshfes.org).



2) A Student / parent / teacher career Fair at the Museum of Flight on a Saturday in February 2008. If you are interested in educating the younger public about what we do, please let me know if you like to learn more as this approaches, at [President@pshfes.org](mailto:President@pshfes.org).

Also, for those of you who missed the joint picnic or missed the side brainstorming that went on, in addition to these opportunities, we decided to cross promote one another's events using our email distribution lists and/or websites and to consider coming together for a joint tour of a facility some time next year!

Deborah Read  
President PSHFES



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