

# ISOES NEWS

INTERNATIONAL SOCIETY FOR OCCUPATIONAL  
ERGONOMICS & SAFETY

Fall 2012

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## ISOES Officers:

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## In This Issue

Message from new president	1,2
Message from outgoing president	2
Free membership announcement	2
Conference updates	3
Call for new & renewed Membership	3
General body meeting	4-5
ISOES scholarship recipient statement	6
Message from members	7-8
Calendar of upcoming events	9-10

## New President's Message

### Vision for broader applications for Ergonomics and Safety

Paul Ray, Ph,D, P.E., CSP., FIIE

The University of Alabama, Tuscaloosa, Alabama 35487



It is my great pleasure and honor to serve as your president. I would like to thank you for your confidence and trust in me for electing me your president for a second time after about ten years in between. The current number of members is somewhat less than that during my first term, the heydays of Ergonomics. The fact indicates a change in the demand pattern for specializations and calls for rethinking the priorities to match with the current goals of our society. The current focus areas are: problems associated with the aging population, outsourcing of manufacturing operations,

low productivity of construction industry, the largest single industry in US economy, high level of injury and fatality in construction industry due to lack of application of ergonomics and safety measures, very high health care costs, and accelerated changes in information technology. Our society has been alert to these changes and is trying to adjust the priorities accordingly. This effort is evident in having Dr. Sara J. Czaja of the University of Miami, as Keynote speaker in the annual conference of the society on June 07, 2012. Dr. Czaja's keynote topic was "Aging in the 21<sup>st</sup> Century: Opportunities and Challenges". We had the first international symposium in construction safety and health at the annual conference of the society in 2010 held in Tempe, Arizona, and continued call for papers in construction safety for the annual conference in 2011. Till today, ergonomists have not devoted much effort in construction industry, as a result, there is immense potential for ergonomic applications. Another future challenge is the impact of globalization of economy, where safety and health issues are becoming more important, as is evident by the proposed changes in the OSH's Material safety Data Sheet (MSDS). We are planning to expand the society by including members form our neighbor state of Mexico, where

manufacturing and application of ergonomics is having an upward trend. I am confident that under the dedicated and competent leadership of members society will be very active in the coming years.

As for the operational activities, the regular election of the society was held on time, in April, and another dedicated group of members were selected for carrying on the society ahead. Another significant event this year was the successful annual conference at Ft. Lauderdale, Florida. We had more than 50 papers with significant overseas contribution from Canada, Germany, India, Korea, Mexico, Portugal, Thailand and United Kingdom. Dr. Purswell, retired Head of the Industrial Engineering Department of the University of Oklahoma, delivered the dinner speech. He presented the reflections of a pioneer in safety and ergonomics. This annual conference was a great success and it appeared that all attending professionals enjoyed communicating and sharing different ideas with each other.

This year we provided one student scholarship to attend the conference. The recipient Ms. Yulin Wang is a Ph.D. student in Industrial Engineering department at Texas Tech University. Her research interests include cognitive ergonomics, usability engineering, handheld usability, and assistive technologies.

Society's next annual conference will be held in Atlanta, Georgia, This location has been selected considering the convenience of transportation and facilities of the metropolitan city. The annual conference in 2014 has been scheduled to be held in EL Paso, Texas to facilitate our coordination with the Ergonomic society of Mexio (SEMAC). It is expected to help in revitalizing both the organizations.



Outgoing President's Message  
**Anil Kumar, PhD**  
 JF Associates, Inc., Vienna, VA 22181

It gives me great pleasure and honor to write to you as the past President of the ISOES. I would like to take this opportunity to express my thanks for the support of the membership and all of the Executive Committee Officers. Over the past year, several of the society's efforts were fruitful such as the conference in Ft. Lauderdale and the Student Scholarship, while others such as supporting the activities in countries in which ergonomics and safety programs are in their infancy were underused, due to non-availability of suitable institutions or organizations. I request each member to inform the Executive Committee if you are aware of any suitable institutions or organizations. The Executive Committee would appreciate hearing from you and is very receptive to your suggestions and concerns. I hope that the support provided to us in the past will continue as we plow forward. Thank you for the continued support to our Society and contributing to the discipline of ergonomics.

## *Free Membership Announcement*

ISOES is pleased to announce free annual membership for qualified students graduating in the academic year 2012-13. Membership benefits include access to ISOES publications and it is a great addition to your resume for free!

Visit our membership page (<http://isoes.info/member.htm>) to get your membership form. Please submit your application with proof of graduation to Brandy Ware ([bw@jfa-inc.com](mailto:bw@jfa-inc.com)).

## Updates from the Annual ISOES Conference

The XXIVth annual conference was a great success. The conference was held in Ft. Lauderdale from June 7th-8th, 2012. A diverse group of academic scholars, industrial experts and students attended the conference. To initiate the conference, Dr. Sara Czaja, delivered a keynote speech on the opportunities and challenges to aging persons in the 21<sup>st</sup> century. The first day of the conference was wrapped up with a catered banquet with Dr. Jerry Purswell speaking to the group. Dr. Purswell, who was involved in the development and requirement of Material Safety Data Sheets (MSDS), spoke of his experiences as a pioneer in the field of safety and ergonomics. Aside from these two speakers, there were approximately 50 shorter presentations done by attendees from all over the world, including the United States, Korea, Thailand, the United Kingdom, Canada, Germany, Mexico, and Portugal. Topics varied greatly, including, but not limited to, case studies of occupational incidents, lab-based research on kinematics and measures of stress/fatigue, and field-based research.



### Call for New & Renewed Membership

The success of the mission and vision of ISOES depends on you, the members. We are collectively committed to the goal of increasing our membership, maintaining our current members, and expanding our international diversity. To be successful, we need your help. You can help advance the goals of ISOES by:

1. Recruiting new members.
2. Sharing our information and newsletter.
3. Attending conferences.
4. Submitting manuscripts to our Conference call for papers.
5. Sharing your input and expertise with the society, especially the Executive Committee, who is committed to ensuring that the design of our organization matches the needs of its members.
6. Joining!

Go to <http://isoes.info/member.htm> to get your membership form!

## General Body Meeting Minutes

**Place: Sheraton Ft. Lauderdale Airport & Cruise Port Hotel,  
Fort Lauderdale, Florida, USA**

**Date: 8 June, 2012**

**1) Attendees:** Brandy Ware, Gabriel Ibarra, Barbara Millet, Anil Kumar, Paul Ray, Jeffery Fernandez, Yulin Wang, Klaus-Dieter Frohner

### **2) Agenda**

- a) Year in review
- b) Accounts
- c) Membership
- d) EC Members 2012
- e) New President's Agenda

### **3) Year in Review**

- a) Issues with membership
- b) Conference 2012
  - i) Same model for conference 1.5 days but started earlier on first day
  - ii) Increase in conference dues
  - iii) 2 no shows at the conference

### **4) Accounts**

- a) Morgan Stanley (Money Market) ~\$55K
- b) Bank of America \$5.2K

### **5) Memberships**

- a) 9+ new members this year
- b) Getting new members right before conference
- c) Get request for membership signup process but no follow through

### **6) New EC Members**

- a) President- Paul Ray
- b) President Elect- Gabriel Ibarra- Mejia
- c) Treasurer- Brandy Ware
- d) Secretary- Barbara Millet
- e) Newsletter Editor- Ashish Nimbarte
- f) Members at Large- Fereydoun Aghazadeh & Jian Liu
- g) Email addresses: [pray@eng.ua.edu](mailto:pray@eng.ua.edu); [anilk@jfa-inc.com](mailto:anilk@jfa-inc.com); [gabmejia@utep.edu](mailto:gabmejia@utep.edu); [bware@jfainc.com](mailto:bware@jfainc.com); [ashish.nimbarte@mail.wvu.edu](mailto:ashish.nimbarte@mail.wvu.edu); [aghazadeh@lsu.edu](mailto:aghazadeh@lsu.edu)

### **7) Support for Developing Countries**

- a) Recipients are not forthcoming on how monies are used.
- b) Jeff Fernandez requested that ISOES support information be posted and that the criteria be documented and advertised
- c) Information on support program is currently available in the newsletter

### **8) Student Scholarship**

- a) 3 applicants
- b) 1 withdrew application



## General Body Meeting Minutes (cont.)

- c) Paul Ray & Anil Kumar selected student (Yulin Wang) to receive scholarship
- d) But scholarship recipient was only notified at the conference
- e) Going forward- need to inform scholarship recipient 4 weeks ahead of conference

### 9) Journal – this has been dealt with in the past and should be considered closed.

### 10) Conference- General

- a) A meeting attendee questioned why the conference is always in the USA.
  - i) Easier to scout
  - ii) Proposal for conference to be held in Dubai additional costs will be incurred
- b) Location
  - i) Should be an Airport Hub
  - ii) Place where people may want to stay a few extra days

### 11) Conference 2013

- a) Requested by Jeff to return to 2011 conference model
  - i) Noon to noon
  - ii) 1 night stay only
- b) Possible locations for next year's conference: Atlanta; New Orleans; Dallas; Denver; Houston; El Paso (benefits include holding workshops for Mexican colleagues, attendance from Mexican and Central American colleagues, and possible increase in membership from 15-35)
- c) Conference submissions – consider accepting abstracts and extended abstracts (we are currently doing this). Give authors the option of publishing extended abstracts or full papers.
- d) Discussion regarding teaming up with another organization such as PPCOE or German organization that we previously teamed up with to bundle, merge, or hold a joint conference
- e) It was noted that the conference is important to the organization so we may consider a joint conference.

### 12) Dr. Ray's Incoming Presidents discussion

#### President's Agenda

- i) Scholarships (to fund students or student research for a period of time)
- ii) Increasing Membership
- iii) Conference Workshops
- iv) Sending seed money to other countries or ergo organizations
- v) Student Paper Award / paper competition may be held in the fall in addition to the conference scholarship. So that students can submit additional papers or project papers.
- vi) Develop program for membership for ISOES to PhD and graduate students to be free for 1 year. They will put it on their resumes and then when they become professionals, they will renew their membership (possibly).
- vii) Webpage
  - (1) How can we enhance the webpage?
  - (2) Anil Kumar received stuff from R. Jensen and is going through it. There seems to be quite a bit that could be added to the web page.
  - (3) Consider hiring a student to enter paper titles and authors of previous papers from conferences onto a web page.
  - (4) We should be careful to clearly state that full papers are available from 2008 onward
  - (5) Papers prior to 2008 may have the copyrights held by other organizations (IOS and Taylor and Francis), but we should be able to put paper title and authors on our website.

## XXIVth ISOES Annual Conference Scholarship Recipient's Statement

**Yulin Wang,  
PhD Student  
Texas Tech University**

My name is Yulin Wang and I am the recipient of the ISOES 2012 Student Scholarship. I am grateful for receiving the scholarship and also appreciative to the entire ISOES executive committee for the acknowledgment.

I attended the XXIVth Annual International Occupational Ergonomics and Safety Conference in Fort Lauderdale on June 7-8, 2012. This was my second time attending the ISOES conference; but it was my first time presenting two papers in a same conference. So, I was excited to attend the diverse conference sessions, but also anxious to present my two papers.

The conference opened up on June 7 with a keynote address entitled "Aging in the 21<sup>st</sup> Century: Opportunities and challenges" given by Dr. Sara Czaja. I was so impressed to see a talk from Dr. Czaja, as I was very familiar with her work and have relied on her publications to guide my work. For example, when I was assisting my advisor (Dr. Barbara Millet) with her research project on the elderly and technology acceptance, I quickly learned that Dr. Czaja is an expert in this area of study. Dr. Czaja has dedicated her recent work to study human factors for aging population. I never imagined that I would have an opportunity to hear Dr. Czaja speak about her work, this conference provided this opportunity. Dr. Czaja gave an inspiring talk on her prospective for applying Human Factors and Ergonomics principles for product design for elderly. I was in awe.

After the keynote address, I attended the "Product Design and Testing" section and presented one of my papers. All papers in this section were closely related to user-centered design and product improvement, such as the one that evaluated user experience for patient lifting tools, the follow-up study on cleaning tool designs, and one discussing computer workstation designs based on anthropometric principles. These studies were conducted by researchers from different countries, providing a golden opportunity to learn how Human Factors and Ergonomics methods and principles are applied worldwide.

In the afternoon, I attended the "Strength and Fatigue Assessments" session and presented my second paper. It was wonderful to exchange ideas with others who work in similar fields. For instance I was able to discuss with a PhD student, who used similar strength testing tools as those used in my study, about the features of these different devices.

It was also beneficial to learn how research is conducted in areas of study that I am not so familiar with. For example, I learned how EMG could be used to analyze torques based on different sizes of handle designs from another presenter.

After these sessions, we had a relaxed dinner. After dinner, Dr. Purswell gave an impressive talk on occupational safety. Before this conference, I had heard of NIOSH from my physiological courses and knew about the NIOSH lifting equation, however I never expected I could have a chance to attend a talk from one of the experts who had been in the NIOSH team that developed the NIOSH lifting equation! Dr. Purswell also shared his experiences in the field throughout his career. This was an amazing talk. Additionally, the dinner also offered a great opportunity to network!

The next day I attended the sessions "Understanding Safety and Culture" and "Ergonomic and Human Factors Principles". In attending these sessions, I learned about the newest developments and hot topics in these fields.

Attending this conference was an educational asset. I gained exposure to a variety of applied human factors topics, in a relaxed setting. This conference provided me a great opportunity to discuss research with peers from other universities, to communicate face to face with researchers and experts in Occupational Ergonomics and Safety, and to get valuable feedback on my research. I am looking forward to attending the ISOES conference next year.

## Message from the members

### Submissions Welcome...

# IIE Transactions on Occupational Ergonomics & Human Factors

**Managing Editor: Maury A. Nussbaum**  
*Industrial & Systems Engineering, Virginia Tech*  
nussbaum@vt.edu

*IIE Transactions on Occupational Ergonomics & Human Factors (OEHF)*, a new journal publishing in 2012, is devoted to compiling and disseminating knowledge on occupational ergonomics and human factors theory, technology, application, and practice, across diverse areas and using a variety of approaches. The journal has a primary and fundamental emphasis on people at work. Papers will cover a wide range of topics including, but not limited to the major domains of physical, cognitive, and organizational ergonomics and human factors.

Multidisciplinary investigations are particularly encouraged, and the journal welcomes a variety of submissions, including those that are analytical, experimental, applications, or viewpoints. Submissions from practitioners are also strongly encouraged (e.g., case reports, emerging issues, applications, and letters to the editor).

*OEHF* is committed to enhancing communication and information transfer between researchers and practitioners in the occupational ergonomics and human factors discipline.

Manuscripts are reviewed and accepted based on the importance of the topic, originality, methodological relevance and rigor, clarity and conciseness of presentation, and interest to the readership. A streamlined peer-review system is used that allows for rapid and fair review and publication decisions.

Easily submit an article to <http://mc.manuscriptcentral.com/oehf>.

To subscribe or read the complete instructions for authors,  
visit the journal website: [www.tandfonline.com/uehf](http://www.tandfonline.com/uehf)

*OEHF* is an official journal of the **Institute of Industrial Engineers (IIE)**. IIE is the world's largest professional society dedicated solely to the support of the industrial engineering profession and individuals involved with improving quality and productivity.

For further information on IIE, visit [www.iinet2.org](http://www.iinet2.org).

## Message from the members

### **SHO 2013 - International Symposium on Occupational Safety and Hygiene**

14-15th February 2013, Guimaraes, Portugal @ <http://www.sposho.pt/sho2013>

This international symposium is organized by the Portuguese Society for Occupational Safety and Hygiene (SPOSHO) and co-organised by the School of Engineering of the University of Minho, the Engineering Faculty of University of Porto, Faculty of Human Kinetics of the Technical University of Lisbon, the Polytechnic University of Catalonia, Spain (UPC), and the Delft University of Technology (TU Delft). For more information about the event and how to submit a paper for presentation, go to: <http://www.sposho.pt/sho2013>

- Jesus Divasson, Director General Trabajo del Gobierno de Aragon, Spain
- Ralf Giercke, VDSI, Germany
- Mafalda Santos, FCM-Formas e Construcoes Ltda, Brazil
- Jose Orlando Gomes, Assoc. Brasileira de Ergonomia, Brazil
- Maria Margarida Moreira Lima, Assoc. Brasileira de Higiene Ocupacionais, Brazil
- Anabela Simoes, ISG/CIGEST, Portugal
- Nuno Lopes, Universidade de Aveiro, Portugal
- Antonio Oliveira, Direcao-Geral das Atividades Economicas, Portugal
- F. Javier Llanaez Alvarez, Assoc. Espanola de Ergonomia, Spain
- Marino Mennozzi, ETH Zurich, Switzerland

#### IMPORTANT DATES:

- Submission of extended-abstracts: **October 5, 2012;**
- Full Papers (not mandatory): November 23, 2012;
- Early registration fee: January 04, 2013.


#### PUBLICATIONS:

- All accepted extended-abstracts (two A4 pages) will be distributed during the conference in a **proceedings book** edited with ISBN;
- The submitted full papers (not mandatory) of the accepted abstracts will be included in a **book to be published by Taylor & Francis Group** (distributed after the event and submitted to be indexed by Thomson Reuters Conference Proceedings Citation Index, and Elsevier Scopus).
- Some of the authors may also be invited to submit their papers to special issues in international peer-reviewed journals. A special issue is "Occupational Ergonomics and Safety" is previewed to be published after the event, and will be published in the international journal "**WORK: A Journal of Prevention, Assessment & Rehabilitation**", which is indexed at ISI (with Impact Factor) and endorsed by the International Ergonomics Association (IEA).



## Calendar of Upcoming Events

### October 2012

1-4	<p><b>Safety 2012 World Conference, Wellington, New Zealand</b>            Safety 2012 is the 11th World Conference on Injury Prevention and Safety Promotion. The conference is held biennially under the auspices of the World Health Organization. It brings together the world's leading injury prevention and safety researchers, practitioners and advocates, to build our knowledge and strengthen the fields of injury prevention and safety promotion worldwide.            Contact URL: <a href="http://www.conference.co.nz/worldsafety2012/home">http://www.conference.co.nz/worldsafety2012/home</a></p>
1-5	<p><b>Ergonomics and Human Factors: Strategic Solutions for Workplace Safety and Health, Boston, MA</b>            This practical human factors and ergonomics program is designed to give you the tools necessary to create effective, comprehensive, and strategic solutions to your workplace ergonomic issues. With its focus on tools, <i>Ergonomics and Human Factors</i> will help participants initiate and improve their organizations' ergonomics programs to promote workplace safety and health.            Contact URL: <a href="https://ecpe.sph.harvard.edu/programs.cfm?CSID=EHF1012&amp;pg=cluster&amp;CLID=1">https://ecpe.sph.harvard.edu/programs.cfm?CSID=EHF1012&amp;pg=cluster&amp;CLID=1</a></p>
3-6	<p><b>Association of Occupational Health Professionals in Healthcare (AOHP) 2012 National Conference, Las Vegas, NV</b>            AOHP is on the forefront of helping its members to manage change and growth within healthcare, and to meet the newest challenges of maintaining a safe workplace. Whether it is new legislative activity or an upcoming seminar, AOHP is always involved in the cutting edge activities that help our members keep their employees safe.            Contact URL: <a href="http://www.aohp.org/pages/about_aohp/contact_us.html">http://www.aohp.org/pages/about_aohp/contact_us.html</a> </p>
11-12	<p><b>7<sup>th</sup> International Conference on the Safety of Industrial Automated Systems (SIAS), Montreal, Quebec, Canada</b>            Focus areas are machine system users and designers, standard-setting bodies, manufacturers of safety systems and devices, and occupational health and safety experts concerned about the risks associated with machines.            Contact URL: <a href="http://www.irsst.qc.ca/en/sias2012.html">http://www.irsst.qc.ca/en/sias2012.html</a></p>
16-18	<p><b>XXXth International Symposium of the Construction Section of the International Social Security Association (ISSA-C), Boston, MA, USA</b>            Safety and health in the life-cycle of the construction industry: pre-construction; construction; post-construction, Safety and health at work training: Learning; aims; efficiency            Contact URL: <a href="http://www.issaboston2012.org/index.html">http://www.issaboston2012.org/index.html</a></p>

## Calendar of Upcoming Events

### October 2012

22-24	<p><b>8th Annual Mine Safety &amp; Health Conference, Reno, NV</b></p> <p>The purpose is to: Build partnerships focusing on zero fatalities, injuries and occupational illnesses in the mining industry, Foster relationships and open communication between industry and federal agencies, Create a better understanding of how to send miners home healthy after each shift.</p> <p>Contact URL: <a href="http://www.cvent.com/events/8th-annual-mine-safety-and-health-conference/event-summary-5d204afbcbb049c7a2dfe33b9bccff.aspx">http://www.cvent.com/events/8th-annual-mine-safety-and-health-conference/event-summary-5d204afbcbb049c7a2dfe33b9bccff.aspx</a></p>
27-31	<p><b>American Industrial Hygiene Association (AIHA) Fall Conference 2012, San Antonio, TX</b></p> <p>Focused area: Management and Leadership, Product Stewardship and Sustainability, Exposure Risk Assessment and Management (ERAM), Petrochemical/Oil and Gas</p> <p>Contact URL: <a href="http://www.aihafallconference.org/Pages/Default.aspx">http://www.aihafallconference.org/Pages/Default.aspx</a></p>
29-30	<p><b>Forum IV: A National Conference on Workplace Health and Safety, Halifax, Nova Scotia, Canada</b></p> <p>Topics: Mental health, Harassment and bullying, Healthy workplaces, and Psychosocial work factors and musculoskeletal disorders (MSDs).</p> <p>Contact URL: <a href="http://www.ccohs.ca/events/forumiv/">http://www.ccohs.ca/events/forumiv/</a></p>

### November 2012

14-16	<p><b>7th Annual Southeast Mine Safety and Health Conference, Birmingham, AL, USA</b></p> <p>Apply intellect, passion, and cooperation in mine safety and health issues to meet and develop an annual program that projects our mining community forward to zero injuries and illnesses and provides opportunities to network with industry and regulatory representatives.</p> <p>Contact URL: <a href="http://www.southeastmineconf.org/">http://www.southeastmineconf.org/</a></p>
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### December 2012

9-12	<p><b>Society for Risk Analysis (SRA) 2012 Annual Meeting, San Francisco, CA, USA</b></p> <p>The annual meeting of the Society for Risk Analysis (SRA) brings together nearly 1,000 international scientists and practitioners from a wide range of disciplines who share an interest in risk analysis. Representing academia, government, industry, NGOs, private firms, and themselves, SRA members recognize the value of diverse perspectives and a shared commitment to high quality risk analysis methodology and practice.</p> <p>Contact URL: <a href="http://www.sra.org/events_2012_meeting.php">http://www.sra.org/events_2012_meeting.php</a></p>
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## ISEOS officers - contact Information

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