



ISE Newsletter

Quarterly newsletter of the INDIAN SOCIETY OF ERGONOMICS (ISE)

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CONTENTS:

- * [In Memorium](#)
- * [Welcome New Members](#)
- * [Member activities](#)
- * [Forthcoming National Events](#)
- * [Forthcoming conferences](#)
- * [Knowledge Base](#)

Forthcoming National events:

- [1-day Basic Ergonomics Course, October 1, 2010, Bangalore](#)
- [2-day Workshop on Ergonomics Workplace Analysis, October 2 & 3, 2010, Bangalore](#)
- [Conference On “Extra-Ordinary” Ergonomics, November 20&21, 2010, Bangalore, India](#)
- [Conference On Work-Related Musculo-Skeletal Disorders, January 8&9, 2011, Bangalore, India](#)

Forthcoming International events:

- [APCHI 2010 & Ergofuture 2010, August 3-5, 2010, Bali, Indonesia](#)
- [1st SEANES, 14-17 December 2010, Cebu City, Phillipines](#)
- [ODAM 2011, April 4-6, 2011, Grahamstown, South Africa](#)

ISE is online at : <http://ise.org.in/>

In Memorium

Masamitsu Oshima



Professor Masamitsu Oshima, MD, Honorary President of the Japan Ergonomics Society (JES) passed away on May 1st, aged 95. Prof. Oshima is the founding father of JES, and also an IEA fellow. We share the same deep sorrow and regret that our Japanese colleagues have experienced. Professor Oshima's death is not only the loss of JES but also a big loss of international ergonomics community.

W. T. Singleton



A family man who pioneered ergonomics and believed in fitting the job to the person died aged 86. Professor William Thomas Singleton was internationally known for his enduring interest in human skill.

Known as Tom, he was Emeritus Professor of applied psychology at Aston University from 1965 to 1982. He graduated from St Catharine's College, Cambridge, in 1949 after his studies were interrupted by wartime service in the RAF. In 1953, he joined the Shoe and Allied Trades Research Association to work on human contributions to productivity and in 1961 he lectured at the College of Aeronautics, launching the Ergonomics and Systems Design Laboratory. In 1965, he was appointed as professor at Aston, where his applied psychology department produced research and taught in many fields, but particularly ergonomics.

Prof Singleton was one of the pioneers of his field and wrote numerous books on the subject.

He had many international commitments, working with the World Health Organisation, International Labour Organisation and the universities of Leuven and Geneva. He was a member of 33 national and international committees, including the development of the 1974 Health and Safety Act.

After retirement in 1982, he continued his academic interests with characteristic vigour.

He died on Tuesday, May 11th after more than a decade of illness.

Welcome New members!

ISE Newsletter welcomes the following new Life Members:



- L300 Sangeeta Singhal, Aligarh
- L301 Rahul V. Pathare, Pune
- L302 Petra Devadass, Bangalore
- L303 M. Balaganapathy, Anand
- L304 Manish Kr. Saini, Meerut

Member Activities

Dr. Deepak Sharan, Consultant in Orthopaedics and Ergonomics, from RECOUP, Bangalore has won an International Scholarship to present the following research papers at PREMUS 2010, the 7th International Conference on Work Related Musculoskeletal Disorders at Angers, France (August 29-September 1, 2010):

- Does the work style contribute to musculoskeletal symptoms in Indian computer professionals?
- Effectiveness of a new sequenced multi-disciplinary rehabilitation protocol for thoracic outlet syndrome in Indian computer professionals.

Seminar on "Industry Skill Requirements in Biomedical Engineers"

Department of Biomedical Engineering at Trident Academy of Technology (TAT) has organized a Seminar on "Industry Skill Requirements in Biomedical Engineers" on 13th March 2010 at TAT campus, Bhubaneswar. Prof. Mukherjee from the Dept. of Biomedical Engineering, JIS College of Engineering, Kalyani, West Bengal and Mr. K.A. Godwa, Deputy General Manager - HR of Larsen & Toubro (L&T) Medical Systems, Mysore, Karnataka were the guest speakers. Prof. Mukherjee discussed the technical skill requirements in the students to enter medical device industry, and shared some of his experiences at Siemens Medical Systems. Mr. K.A. Godwa gave advice to the students to improve their soft skills for improved performance.



Chief Guest Prof. Mukherjee with TAT faculty



(L to R) Prof. Mitra, Prof. Joshi, Prof. Mukherjee and Mr. K.A. Godwa

Forthcoming National events



BASIC COURSE IN ERGONOMICS

October 1, 2010
9 am to 6 pm

Venue: RECOUP Hospital Auditorium, 80 Feet Road, 10th Block, Further extension of Anjanapura Layout, Bangalore – 560 062

Course Director: Dr. Deepak Sharan

Course Faculty: RECOUP's Ergonomists who have been trained by Prof. Arun Garg, Prof. Daniela Colombini and Dr. Natale Battevi). The trainers have extensive experience of conducting Ergonomic Workplace Analysis in the Industry.

Topics:

- Introduction to Ergonomics
- Ergonomic Applications
- Cognitive Ergonomics
- System Ergonomics
- Health Care Ergonomics
- Work Related Musculoskeletal Disorders
- Environmental Issues in Ergonomics
- Human factors and Design in Office
- Environment and Manufacturing Systems



WORKSHOP ON ERGONOMIC WORKPLACE ANALYSIS (EWA)

October 2 - 3, 2010
9 am to 6 pm

Venue: RECOUP Hospital Auditorium, 80 Feet Road, 10th Block, Further extension of Anjanapura Layout, Bangalore - 560 062

Course Director: Dr. Deepak Sharan

Course Faculty: RECOUP's Ergonomists who have been trained by Prof. Arun Garg, Prof. Daniela Colombini and Dr. Natale Battevi). The trainers have extensive experience of conducting Ergonomic Workplace Analysis in the Industry.

Topics

- Subjective EWA
- Postural evaluation tools
- Moore/Garg Strain Index
- Methods for assessing back injury risks
- MAPO Index (Movement & Assistance of Hospital Patients)
- Revised NIOSH Lifting Equation, Snook tables
- Measurement of work effort and fatigue
- Occupational Repetitive Action (OCRA) Methods: OCRA Index and OCRA Checklist

Course fee includes Course Transcript, Certificate, Lunch and Beverages. Day registrations are not available. Students must enclose a supporting certificate from the Head of Institution. Please contact for assistance with accommodation.

Address for Correspondence:

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RECOUP Neuromusculoskeletal Rehabilitation Centre, #231, 37th Cross,
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* Forthcoming conferences

APCHI & Ergofuture 2010 APCHI 2010 & Ergofuture 2010

August 3-5, 2010
Bali, Indonesia

Joint International Conference of APCHI (Asia Pacific Computer Human Interaction) 2010 and Ergofuture 2010

Call for Papers and Participation - <http://iea.cc/upload/Ergofuture%202010%20Brochure.pdf>
secretariat e-mail : ergofuture2010@yahoo.co.id

Message from Adnyana Manuaba

In August 2010 in Denpasar Bali Indonesia, a Joint International Seminar APCHI and ERGOFUTURE 2010 shall be organized. It is a pity if you loose this opportunity as so many programs are in the agenda. You will hear ergonomic experts from around the world shall talk about many things, through tutorials, workshops, key-notes, symposia, and free communication programs. Among topics for tutorials / workshops is Kanzei Implementation at industry, Sustainable Development and Ergonomics. In process: Check List for Industry/Agriculture, Transportation/Traffic, etc. For Keynotes the topics include Sustainable Development, Ageing and Work. In Process: Transportation/ Traffic/ Accident, SMEs, Macro Ergonomics, CHI, etc.



CONFERENCE ON “EXTRA-ORDINARY” ERGONOMICS

**November 20 - 21, 2010
Bangalore, India**

Customarily, the designer of workplaces and homes, machines, and jobs considers normal adults of regular size with standard abilities. But many persons are not “normal” by virtue of their being smaller or weaker or bigger; less able to see, hear, or move about; injured; or bedridden.

Topics:

- Importance of Ergonomics in “Extra-Ordinary” individuals and population groups
- Ergonomic considerations in design of wheel chair, assistive devices, locomotion aids, automobiles, computers, tele-support systems and consumer products
- Ergonomic Solutions for the very small and big, for those with lower back problems or RSI, and for bedridden persons
- Musculoskeletal disorders in children due to backpacks, handheld gaming devices and computers
- Assessment methods and techniques
- Ergonomics for motor impaired
- Ergonomics in sensory impaired
- Virtual reality based rehabilitation
- Design for pregnant women
- Child abilities and health
- Children and product design
- Design for aging

Further Details on www.recoup.in

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Mobile: +91-95350 95610, Email- academics@recoup.in



1st SouthEast Asia Network of Ergonomics Societies Conference (SEANES)
December 14-17, 2010
Cebu City, Phillipines

LINKING ERGONOMICS AND ORGANIZATIONAL STRATEGY

The deadline has been moved to **April 30, 2010**. The website is ready to accept submissions.

Important Dates:

Submission of Abstracts: April 30, 2010 Submission of Full Paper: July 15, 2010
Notification of Acceptance: June 15, 2010 Registration of Authors: October 1 - 20, 2010

Contact Information:

Email: firstseanesconference@gmail.com conference website: <http://www.seanes2010.com>

The 1st SEANES conference which will be held in Cebu, Phillipines from December 14-17, 2010 is being organized by the Southeast Asian Network of Ergonomics Societies (SEANES) and the Philippine Ergonomics Society (PHILERGO).

The theme of the conference is "Linking ergonomics and organizational strategy". Such a theme was chosen in order to promote the value of ergonomics in the organizational context. The conference aims to illustrate that ergonomics is an investment rather than a cost for

companies. It should be seen as a strategy for increasing efficiency and improving the marketability of products.

The venue of the conference is Cebu City which is one of the oldest and historic cities in the Philippines. The city has many interesting tourist spots which include the Magellan's Cross and several Spanish colonial buildings. Participants may also visit the neighboring island of Bohol which is home to the Tarsier and many beaches.



CONFERENCE ON WORK-RELATED MUSCULO-SKELETAL DISORDERS

January 8 - 9, 2011
Bangalore, India

Topics:

- Pathophysiology and risk factors in the development of WRMSD's
- Diagnosis of WRMSD
- Common WRMSDs
- How to choose the most appropriate Risk Assessment Tool in WRMSD?
- Management of WRMSD
- Severity and Prognosis of WRMSDs
- Case Studies and Practical Demonstrations

Further Details on www.recoup.in

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ODAM2011

10th International Symposium on

Human Factors in Organisational Design and Management

4 - 6 April 2011 • Grahamstown • South Africa

www.odam2011.net

Conference topics

- Work System Design
- Micro-Macro Ergonomics Work related Musculoskeletal Disorders
- Ergonomics in Health Care Participatory and Developmental Ergonomics
- Human Factors in Quality Management
- Safety Management and Safety Culture
- Ergonomics in Emerging Countries
- Ergonomics Education
- Ergonomics of Manual Work
- The Ageing Workforce
- Ergonomics of Engineering and Innovation Quality of Life and Work
- and others

Students and junior researchers are particularly encouraged to participate with reduced fees and economic accommodation.

Submission of proposals

Please submit a 200-300 word abstract with title, author(s) and affiliation, short description of the presentation and the type of presentation (e.g. empirical study, conceptual paper or special session) via email to odam@ru.ac.za or Fax: +27-46-603 8934.

Deadlines:

Proposal submission: **1 August 2010** Notification of acceptance: 1 October 2010

Submission of full paper: 1 January 2011

Scientific contributions will be compiled into a peer-reviewed book published by IEA press.

Conference Fees Include: Airport shuttle (from/to Port Elizabeth), local transport in Grahamstown, Conference proceedings (book and CD), welcome reception, gala dinner, refreshments, lunch and dinner meals, wireless Internet.

Normal Rate: R3600 (~ 500 USD) Registration before 1 Feb 2011

Reduced rate: R2200 (~300 USD) for students and participants from IDCs

Accommodation is available from R285 to R950 (40-140 USD) per day.

For **further information** see <http://www.odam2011.net>

*** Knowledge Base**

Mysteries of human behaviour as a challenge to device design

Michael Wiklund

Michael Wiklund works to ensure safe and usable medical devices through the application of human factors engineering, and helped develop the standard, ANSI/AAMI HE75:2009, Human factors principles for medical device design.

People's perceptions and stated opinions do not always match their decisions and behaviors. For example, an individual might say she prefers a functionally lean and simple-to-use device, but then buys one packed with features that are hard to use because it holds greater emotional appeal.

Manufacturers must decide how broadly to address the potential for use error. A narrow approach will keep them focused on intended device uses and lead them to mitigate against the associated use errors. A broader approach will lead them to evaluate unintended uses (including off-label uses) and mitigate against a larger set of potential use errors. The broader approach is likely to pay off by lowering the potential for adverse events while the narrow approach could result in potentially preventable patient injuries and deaths.

Knowledge of human factors can help them recognize medical devices with good versus poor user interfaces. Presuming their departments play a role in purchasing capital equipment, they can promote the purchase of safer and more user-friendly products. Knowledge of human factors also can help clinical engineers link use errors to user interface design flaws, rather than attribute them to human blunder.

An ever-increasing number of medical devices have microprocessors at their core and communicate via a computerized display. Human factors engineering research, design, and testing efforts will focus increasingly on the user-computer interface as opposed to the design of ergonomically correct seating positions, logical control panel layouts, and comfortable handle grips. They will also help to create devices that protect against use errors.

ANSI/AAMI HE75:2009 was conceived based on user research. Years ago, a sample of medical device designers were asked what kind of human factors design standard they wanted. They said that they wanted a comprehensive standard that would be a "one-stop" source of guidance. So that's what was developed — a virtual encyclopedia of user interface design guidance to complement the design process-related guidance contained in ANSI/AAMI HE74:2001, Human factors design process for medical devices.

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<http://www.aami.org/publications/AAMINews/Feb2010/inprofile.html>