



ISE Newsletter

Quarterly newsletter of the INDIAN SOCIETY OF ERGONOMICS (ISE)

Vol. 23

September-December 2019

No. 4

Editorial Board Members

A. K. Ganguli	Kolkata	akganguli (at) rediffmail (dot) com
Debkumar Chakraborti	Guwahati	dc (at) iitg (dot) ac (dot) in
Prakash Chandra Dhara	Midnapur, WB	prakashdhara (at) rediffmail (dot) com
R Iqbal	Mumbai	rauf_iq (at) yahoo (dot) com
Dhurjati Majumdar	Delhi	majum55 (at) yahoo (dot) com
Chandan Kumar Pradhan	Kolkata	ckpradhan (dot) ise (at) gmail (dot) com
Debashish Sen	Kolkata	devashishsen_12 (at) yahoo (dot) co (dot) in

CONTENTS:

- * [Welcome New Members](#)
- * [HWWE 2019 - Report](#)
- * [ACED Council Meeting in India](#)
- * [Publications](#)
- * [Member Activities](#)
TEQUIP
- * [HWWE 2020](#)
- * [Forthcoming Conferences](#)

IMPORTANT NOTICE

Annual General Body Meeting of the Society was held at the National Institute of Technology – Jalandhar, Punjab on Saturday, 9 November 2019.

Minutes have been sent to all members.

Forthcoming National events:

- * [HWWE 2020](#)
Annual Conference of the Indian Society of Ergonomics,
December, 2020,
Boisar, Mumbai

Forthcoming International events:

- * [23rd Annual Applied Ergonomics Conference \(AEC\)](#)
March 16-19, 2020
Kentucky, USA.
- * [22nd Korea-Japan Joint Symposium of Human Factors and Ergonomics](#)
April 15-18, 2020
Jeju Island, South Korea.
- * [International Conference on Human Interaction & Emerging Technologies \(IHiet 2020\)](#)
August 27-29, 2020,
Paris, France
- * [ACED-SEANES Joint Conference](#)
December 2-4, 2020
Bohol, Philippines **DATES EXTENDED**

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

For your security, ensure that you can view the padlock symbol  and <https://ise.org.in> on the web address before you enter

* Welcome New members!

ISE Newsletter welcomes the following new Life Member:



L483 DhanashriBalaso Shinde, Pune

* HWWE 2019 - Report

The Dr B R Ambedkar National Institute of Technology (NIT) was host to the 17th Annual Conference of Indian Society of Ergonomics (ISE) and HWWE-2019 “Humanizing Work and Work Environment”, November 8-10, 2019. The HWWE-2019 conference was attended by 175 researchers and delegates from different corners of the world including Brazil, Japan, Russia, China, Philippines, Malaysia and South Korea, USA and Canada, and featured 15 key note lectures, 20 lead lectures and two hundred scientific papers.



*A Bhardwaj and L.P.Singh present a memento to L.K.Awasthi;
(sitting L to R) Rosemary Seva, Jose Orlando Gomes and A.K.Ganguli*

The conference was inaugurated by Prof. L K Awasthi Director, NIT Jalandhar, who lauded the efforts put in by the Dr L. P. Singh and Professor Arvind Bhardwaj along with faculty of Industrial Engineering Department for organizing such an international conference and said that this conference would go a long way towards suggesting ways and means for tackling the current issues concerning environmental degradation and health/ safety issues arising from the new technologies being adopted. He gave examples of how simple posture problems can degrade the output of an individual largely and reduce his efficiency. He also mentioned about the role of new technology such as sensor networks and body area networks in humanizing work and work environment. Previously, Dr. Kamana Raj Aggarwal had lamented that the research output of the institutions like NIT Jalandhar is not reaching the industry and therefore findings were not being

implemented in industry. In response, Prof. Awasthi announced an Industry liaison and Technology Transfer cell will forge ties with industry and will make available the research output. To start with, the Industry Liaison and Technology Transfer Cell would transfer at least 10% of the institute's research outputs to industry. He further said that NIT Jalandhar is open to all universities of global repute for collaborations for joint research projects and for students exchange programme.

Prof. Rosemary Seva, President of ACED (Asian Council of Ergonomics and Design) from Philippines was the Chief Guest of the inaugural ceremony. Prof. Jose Orlando Gomes, Vice President & Treasurer of the IEA (International Ergonomics Association), Dr A K Ganguli, President of ISE, Mrs Kamna Raj Aggrawal and Dr H S Sagar, former principal of the NIT (then REC) were the guest of honors of the conference.

In the key-note addresses, Prof. Rosemary Seva (Phillipines) suggested that ergonomics is a method to enhance the value of new products through sustainable production systems; Prof. Jose Orlando Gomes (Brazil) stated that emergency situations are characterised by the unpredictability and hence these situations require procedures that are flexible and agile and that situational consciousness is must for effective decision making; Prof Eric Ming Yang Wang (Taiwan) discussed the hazards related with the health care industry; Prof Wei Zhang (China) shared China's major industrialization stages and significant industrial factors; Dr. A K Ganguli (India) elaborated about ergonomics standardization, and stressed the importance of developing Indian ergonomics standards; Dr D Majumdar (India) related ergonomics practices in defence equipment and operations, particularly in high altitude and low temperature environments.



L to R: Shamsul Bari, A.K.Ganguli, Eric Ming Yang Wang, L.K.Awasthi, L.P.Singh, A Bhardwaj and Aleksandr Volosiuk

Prof. D. Chakrabarti, Prof. Adarsh Kumar, Dr Rauf Iqbal, Dr Trinath Pachal, Prof. Manjit Kaur Chauhan, Prof. Pamita Awasthi, Prof Abid Ali Khan, Prof. Mohammad Muzammil, Dr Vinod Gupta, Prof. Debmalya Banerjee, Dr Surbhi Singh, Dr Ajita D Singh were the lead speakers and also chaired the sessions for the day.

Springer has offered prizes for young researchers titled as “Young Researcher Award” to the tune of \$200 for undergraduate, \$150 for post graduate and \$100 for PhD presenters.

* ACED Council Meeting

ACED Indian Society of Ergonomics hosted the 2019 Council meeting of the ACED (Asian Council on Ergonomics and Design) in Jalandhar, for the first time in India. This was attended by seven council members (China, Japan, Korea, Malaysia, the Philippines, Taiwan and India), one representative each from IEA and BRICS (Network of ergonomics societies of Brazil, Russia, India, China and South Africa), and five observers.

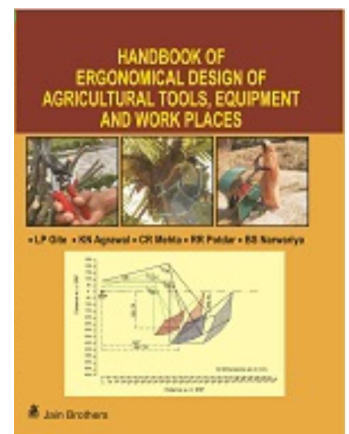


* Publications

Handbook of Ergonomical Design of Agricultural Tools, Equipment and Work Places

L P Gite, K N Agarwal, C R Mehta, R R Potdar and B S Narwariya

During the last twenty years, a large amount of ergonomics data has been generated by various centres of the All India Coordinated Research Project (ACRIP) on Ergonomics and Safety in Agriculture. Anthropometric data for 14618 persons and strength data for 9515 persons have been collected. This book presents the summarized data for 79 body dimensions and 16 strength parameters of Indian agricultural workers along with ergonomics design guidelines for tools, equipment and work places with numerous examples.



2019, ISBN: 978-81-8360-283-9

<http://www.thejainbrothers.com/> jain_bros@hotmail.com

ERGONOMICS FOR CORPORATES - Five Reasons Why You Should Invest In Ergonomics



D.Deepankar

This book covers: An insight about what Ergonomics really is; Sitting Arrangement - how to customize your work sitting arrangement to best suit your health; Painless Work Life - affordable ways to achieve a painless work life; and easy and time-efficient stretches to prevent and/or relieve any work injuries.

Available from Amazon, <http://ergonomicsforcorporates.in/>

Understanding the Impact of Musculoskeletal Disorders Among School Teachers in Chennai

MusabihaThaseen Z, Keshav Tantry S.

Abstract

This study aims to identify the occupational overuse disorders prevalent amongst school teachers in Chennai. A survey study was conducted among the school teachers in Chennai using a self administered questionnaire which was distributed among 500 teachers and collected over a period of two months between January and February 2019. The questionnaire included their working lifestyles, pain assessment, medical conditions and demographical data. A total of 500 questionnaires were distributed among the teaching faculty, from whom 330 were returned, yielding a response rate of 66%. Exclusion of about 4 % results in a response rate of 62%. The results revealed that female population of teachers was more affected by moderate pain musculoskeletal disorder compared to the male teachers. It was concluded that occupational overuse disorder is reasonably common among teachers in Chennai, particularly those of lower back, neck and ankle pain. Remedial measures such as emphasis on pain prevention, ergonomics and regular physical exercises will reduce the prevalence of musculoskeletal disorders.

International Journal of Physiotherapy and Research,
Volume 7; Issue 5 (October 2019), Page No.: 3268-3273
DOI: <https://dx.doi.org/10.16965/ijpr.2019.184>

TEQIP-III STC on Implementation of Ergonomics in Manufacturing Industries

The Department of Design, IIT Guwahati conducted the TEQIP-III STC (Technical Education Quality Improvement Programme - Short Term Course) entitled “Implementation of Ergonomics in Manufacturing Industries” during November 24-28, 2019. Prof. T.G Sithatram, Director, IIT Guwahati graced the inaugural session and the Chief Guest of the Program was Prof. Hemant B Kaushik, CET Head, IIT Guwahati. Dr. D. Uday Kumar introduced the audience to the vision and activities of the department, while Prof Hemant B Kaushik talked about TEQIP III and related programmes. Eminent speakers from both industry and academia spoke to make teaching-learning process more comprehensible, focused and result oriented. Professor Amitabha De, Ex-Director, IIM Shilong and Dr. Asish Mohan, JCB India Ltd. were among the invited speakers. A total of 58 participants of this STC were from various institutes like Dayalbagh Educational Institute, PSG College Coimbatore, Jabalpur Engineering College, Gaya College of Engineering, J.C Bose University, YMCA Faridabad, PEC Chandigarh, DCRUST Murthal etc. (This being the highest number of participants attending a workshop in IITG's history under TEQIP sponsorship).



The topics covered under this STC were ergonomics fundamentals, requirement of ergonomics in manufacturing industries, anthropocentric perspectives in current manufacturing era, role of ergonomics in future of manufacturing i.e. Industry 4.0, cognitive ergonomics and cognitive load measurement, virtual ergonomics, Digital Human Modelling, organizational ergonomics alongwith pedagogical lecture on design ergonomics. Besides this, various labs and hands on sessions were conducted for better understanding of the subject. The participants actively engaged in all the sessions. Most of the participants found this STC very useful as they could interact during the session with faculty members and get various clarifications of their doubts and queries. Dr. Urmi R Salve of the Department of Design was the STC Coordinator.

* Forthcoming National Events

HWWE 2020

**18th Annual Conference of the Indian Society of Ergonomics,
December 2020, Boisar, Mumbai**

HWWE 2019 and the 17th Annual Conference of the Indian Society of Ergonomics will be held at the THEEM College of Engineering, Boisar, Mumbai in December 2020.

* Forthcoming International Events



**23rd Annual Applied Ergonomics Conference (AEC)
March 16-19, 2020
Kentucky, USA.**

The Applied Ergonomics Conference (AEC) is one of the largest and most impressive ergonomics conferences in North America. Presenters are practitioners sharing real-world experiences and practical solutions to common problems in industry. This conference provides comprehensive and broad-spectrum education for employees at all levels (managers to professionals to line-workers).

ISE is an International Alliance Partner of AEC. ISE Members will get Discounted Registration - contact Hony General Secretary for Alliance Partner Code.

Ergo Cup Submission Deadline: October 25, 2019.

For additional information, please visit the Applied Ergonomics Conference website:
www.appliedergoconference.org



**22nd Korea-Japan Joint Symposium of Human
Factors and Ergonomics
April 15-18, 2020**

Jeju International Convention Center, Jeju Island, South Korea.

Selected papers will be recommended for publication in Industrial Engineering & Management Systems (SCOPUS) or Journal of Ergonomic Society Korea (Google Scholar) special issues.

Activities: Complementary guided tour (half-day) on Jeju island

Contacts:

ESK: Prof. Taezoon PARK, Soongsil University, South Korea (tzpark@soongsil.ac.kr)

JES: Prof. Takashi TORIIZUKA, Nihon University, Japan (toriiduka-takashi@nihon-u.ac.jp)



IHIET 2020

International Conference on Human Interaction & Emerging Technologies

August 27-29, 2020, Paris, France

IHIET 2020 conference aims to provide a global forum for presenting and discussing novel human-interaction and engineering approaches, tools, methodologies, techniques, and solutions for integrating people, concepts, trends and applications in all areas of human interaction endeavor in industry, economy, government, and education, including but not limited to energy, transportation, urbanization and infrastructure development, digital manufacturing, social development, human health, sustainability, new generation of service systems, as well as safety, risk assessment, healthcare, and cybersecurity in both civilian and military contexts.

The conference proceedings published by Springer and submitted for indexing to ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlink.

Important Submission Deadlines:

Abstract for Paper presentations & Special interest groups 20 February, 2020

Abstract for Posters/Demonstrations 28 February, 2020

Conference Administrator: admin[at]ihiet.org
Registration Inquires: registration[at]ihiet.org
Submissions and Technical Support: support[at]ihiet.org



Joint Conference of the Asian Council on Ergonomics and Design and the Southeast Asian Network of Ergonomics Societies 2020
December 2-4, 2020
Bohol, Philippines

The Joint Congress of the Asian Council of Ergonomics and Design (ACED) and the Southeast Asian Network of Ergonomics Societies (SEANES) brings together researchers and practitioners from all over the world to talk discuss relevant work in the area of human factors and ergonomics, with the theme

"Convergence: Creating ergonomic breakthroughs thru partnerships".

Accepted and presented full-papers will appear in Advances in Intelligent Systems and Computing by Springer. They will be indexed in Scopus, Web of Science and Compendex. The abstracts of all accepted submissions will appear in the abstract book of the conference which will be available online at the conference website.

Important Dates

Submission deadline: April 20, 2020 <<< **DATE EXTENDED**
Registration deadline: October 1, 2020 Conference date: December 2-4, 2020

Contact: Website: <http://www.acedseanes2020.com/> E-mail: acedseanes2020@gmail.com