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XXIXth Annual International Occupational Ergonomics and Safety Conference
June 1-2, 2017
Seattle, Washington, USA

2017 Conference - Papers Sorted by Session

SESSIONS LISTING

June 1, Thursday

[KEYNOTE ADDRESS: Neck Biomechanics for Ergonomics: Lessons Learned and Challenges Ahead](#)

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June 2, Friday

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[Session 1 - Environmental Stressors and Sustainability](#)

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Thursday, June 1, 2017

Session-1: Work-Related Musculoskeletal Disorders

Paper

[Calculating the Maximum Acceptable Effort for an Isolated Subtask While Still Accounting for the Demands of all Other Subtasks](#)

- Murray Gibson and Jim Potvin

[Systematic Review of Subjective Tools Available to Investigate the Development of Work-related Musculoskeletal Disorders Among Surgeons](#)

- Kiana Kia and Xinhui Zhu

[Identifying the Negative Social Environment as a Result of Having Carpal Tunnel Syndrome in the Workplace](#)

- Stella Rostkowski

[Getting a Handle on Grip Strength](#)

- George Page, Steve Fleming, and Greg Weames

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Session-2: Prevention Through Design and Reconstruction

Paper

[Tanker Truck Loading Platform Fall Protection Accident Reconstruction Analysis](#)

- Dennis Brickman, Erick Knox, Daniel Kruger, Rod Brewster, and Joel Lueck

[Evaluating the Effectiveness of Innovative Ceiling Installation Techniques Among Drywall Installers](#)

- Priyadarshini Dasgupta, Benjamin Hughes, and Bryan Buchholz

[Virtual Ergonomics in Prevention through Design \(PtD\) Example of a Value Added Proposition](#)

- Jeanne Guerin

[Prevention Through Design: A Commercial Fishing Vessel Case Study](#)

- Deborah Read and Gregory Mohs

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Session-3: Employee Health and Wellness

Paper

[A Proposal of Allostatic Load Operationalization Within Homeostatic Range - Occupation as a Risk Factor and Self-Rated Health as Outcome](#)

- Manuel Cifuentes, Devan Hawkins, and Mujahed Shraim

[Safe Client Handling Program in Fraser Health](#)

- Deanna Harrison, Remi Adejumo, Melanie Gee, Nermin Helal, and Leah Thomas-Olson

[Workplace Wellness Programs: A Healthier, Happier, and More Productive Workforce?](#)

- Gabriel Ibarra-Mejia

[Integrating Safe Client Handling](#)

- Leah Thomas-Olson, Remi Adejumo, Melanie Gee, Deanna Harrison, and Nermin Helal

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Session-4: Student Presentations - I

Paper

[Injury-Specific Novel Safety Training Helps to Reduce Injuries in the Renewable Energy Generation Sector](#)

- Madhia Ahmed and Naira Campbell-Kyureghyan

[Call Center Productivity Over 6 Months Following a Standing Desk Intervention](#)

- Gregory Garret, Mark Benden, Ranjana Mehta, Adam Pickens, Camille Peres, and Hongwei Zhao

[Gender Differences in Safe Loading Thresholds for Rotator Cuff Muscles](#)

- Mohammed Motabar, Esther Raub, and Ashish Nimbarte

[Fatigue Risk Assessment & Management in high risk Environments \(FRAME\): The FRAME scale](#)

- Ashley Shortz, Ranjana Mehta, Camille Peres, and Sloane Hoyle

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Session-5: Hot Topics

Paper

[A Chair Assessment Model for Organizational Benefit, Safety, and Asset Management](#)

- Alison Heller-Ono

[Do Sit-Stand Workstations Increase Variation in Upper Arm Postures While Performing Computer-Intensive Office Work?](#)

- Divya Srinivasan, Svend Erik Mathiassen, Dechristian Barbieri, and Ana Beatriz Oliveira

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Session-6: Risk Assessment and Risk Perception

Paper

[A Survey Study of Ergonomic Risks Associated with Older Workers in the Road Construction Industry](#)

- Alexander Barkley, Kwangseog Ahn, and Sang Choi

[Assessing the Risk of Falls using the Ratings of Perceived Loss of Balance: A Pilot Study](#)

- Sang Choi

[A Method For Measuring Slip Resistance On Footwear Designed For Snow and Ice](#)

- Steve Fleming, Greg Weames, and George Page

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Session-7: Education/Training - Ergonomics, Safety, and Sustainability

Paper

[Effectiveness of Text Message Ergonomics Refresher Training in Young Masonry Apprentices](#)

- Dan Anton, Leah Mohtes-Chan, Amelia Vaughan, Miles Havard, Laurel Kincl, Jennifer Hess, and Douglas Weeks

[Assessment of A Core Class on Sustainability](#)

- Anoop Desai

[A Real-World Ready \(RWR\) Initiative to Engage Students in Conducting Construction Safety Research](#)

- Lu Yuan

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Session-8: Student Presentations - II

Paper

[Identifying Ergonomic Risk in Marching Percussion](#)

- Hope Archer, Julie Boyd, and Yousif Abulhassan

[Adaptability of Orchard Ladders with Short Rung Spacing](#)

- Victor Duraj, Tyler Hunter, and Fadi Fathallah

[Use Experience and Task Completion Time Evaluation of Impact Protective Gloves](#)

- David Moore and Naira Campbell-Kyureghyan

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Session-Panel: Research to Practice to Research

Paper

[RtPtR – Ergonomics in Construction Industry](#)

- Jim Borchardt and Sang Choi

[Discussion Panel: Research to Practice to Research \(RtPtR\) – Bridging the Gap between the Practitioners and Academics](#)

- Sang Choi and Jim Borchardt

[Manual Material Handling in the Automotive Industry: Research, Guidelines and Standards](#)

- Robert Fox

[Translational Research in Ergonomics: from Mobile Devices to Semi-trucks](#)

- Jay Kim and Peter Johnson

[Operator-Power Tool Interaction and the Need to Update the Standards](#)

- Jim Lin

[GM Global Ergonomic Manufacturing Engineering Process - Applying Consistent Strategies and Methodologies for Success](#)

- Gwen Malone

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Friday, June 2, 2017

Session-1: Environmental Stressors and Sustainability

Paper

[A Modular Framework for Green Product Design](#)

- Anoop Desai and Anil Mital

[System for Performance Impacts from Conditions in the Environment \(SPICE\)](#)

- Rajiv Prasad, Garill Coles, Angela Dalton, Nancy Kohn, Kristi Branch, Alvah Bittner, and Scott Taylor

[Ultraviolet Radiation Penetration Through Clothing and Hair](#)

- Uwe Reischl

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Session-2: Whole-body Vibration Exposure

Paper

[Whole-body Vibration Exposure in Operating Drill Machines in Iron-Ore Mines: A Case Study](#)

- *Dhanjee Chaudhary, Aditya Patra, and Ashis Bhattacharjee*

[Influence of Some Mechanical Factors on Whole-body Vibration \(WBV\) for 100-tonne Dumpers](#)

- *Soumyadeep Pati, Kaushik Dey, and Ashis Bhattacharjee*

[Neonate Exposure to Whole Body Vibration: What is Really Happening during Ground Transport?](#)

- *Dawn Ryan, Jeffrey Weness, David Hirschman, and Peter Johnson*

[Association of Some Personal and Occupational Factors with Accidents at Continuous Miner Worksite: A Case Study](#)

- *Amrites Senapati, Ashis Bhattacharjee, and Karthik Ravichandran*

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Session-3: Behavioral Safety and Safety Management

Paper

[Risk Reduction \(R2\) Scorecard: A Safety Management Case Study from the Hospitality Sector](#)

- *Craig Halpern and Steve Garvy*

[Evaluation of Symbols for Safety Behaviors](#)

- *S. David Leonard, Erica Medrano, and Patty Livingston*

[Emotion Based Safety – The Role of Emotions in Occupational Health & Safety in the Workplace](#)

- *Terrance Stobbe, William Cormier, and Christopher Monteressi*

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Session-4: Exposure Assessment - Mental Workload

Paper

[Scaling Environmental-Condition \(EC\) Aversiveness: Direct-Estimation and Borg-10 Scale Comparison for Felt-Recoil](#)

- *Alvah Bittner*

[Application of Mental Models Approach to Inform the Design of a Firefighters Personal Exposure Reporting System](#)

- *Barbara Millet*

[Analysis on User Interface Aspects of Software Used by Commercial Banks in India](#)

- *Era Poddar*

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