



Agenda At-A-Glance:

Monday, March 15 – Friday, March 19: Pre-Conference Sessions	
Monday, March 22	
3 – 4:30 p.m.	Opening Welcome Reception
Tuesday, March 23	
8 – 8:30 a.m.	Daily Meetup Grab your favorite beverage and join some friends for informal networking to kick off or wind down your day.
8:30 – 9:00 a.m.	Virtual Exhibit Hall Open Visit and explore Exhibitors & Ergo Cup® Teams
9 – 10:00 a.m.	Welcome and Keynote Address: John D. Lee, Ph.D., University of Wisconsin-Madison
10 – 11:30 a.m.	Extended Sessions
11:30 a.m. – 12:30 p.m.	Join the Conversation Session Join your peers for small group conversations to discussion morning sessions, partner solutions, or simply meet someone new.
12:30 pm – 1:30 p.m.	Virtual Exhibit Hall Open Visit and explore Exhibitors & Ergo Cup® Teams
1:30 – 3:00 p.m.	Extended Sessions
3 – 3:30 p.m.	Continuing the Conversation Session Join your peers for small group conversations to discussion morning sessions, partner solutions, or simply meet someone new.
3 – 4:00 p.m.	Virtual Exhibit Hall Open Visit and explore Exhibitors & Ergo Cup® Teams
4 – 5:30 p.m.	Master Track Sessions
Wednesday, March 24	
8 – 8:30 a.m.	Daily Meetup Grab your favorite beverage and join some friends for informal networking to kick off or wind down your day.
8:30 – 9:00 a.m.	Virtual Exhibit Hall Open Visit and explore Exhibitors & Ergo Cup® Teams
9 – 10:30 a.m.	Master Track Sessions
10:30 – 11:30 a.m.	AEC Aspire Talks: Amy May, Boeing Canada Winnipeg, Wayne Maynard, Liberty Mutual (retired)

11:30 a.m.– 12:00 p.m.	Join the Conversation Session Join your peers for small group conversations to discussion morning sessions, partner solutions, or simply meet someone new.
12 – 1:00 p.m.	Virtual Exhibit Hall Open Visit and explore Exhibitors & Ergo Cup® Teams
1 – 2:15 p.m.	Breakout Sessions
2:15 – 2:30 p.m.	Continuing the Conversation Session Join your peers for small group conversations to discussion morning sessions, partner solutions, or simply meet someone new.
2:30 – 3:30 p.m.	Virtual Exhibit Hall Open Visit and explore Exhibitors & Ergo Cup® Teams
2:30 – 3:30 p.m.	Poster Session
3:30 – 4:45 p.m.	Breakout Sessions
4:45 – 5:00 p.m.	Continuing the Conversation Session Join your peers for small group conversations to discussion morning sessions, partner solutions, or simply meet someone new.
5:00 p.m.	Ergo Cup® Excellence Award Voting Closes
5 – 6:00 p.m.	Networking Happy Hour
Thursday, March 25	
7:30 – 8:00 a.m.	Daily Meetup Grab your favorite beverage and join some friends for informal networking to kick off or wind down your day.
8 – 9:00 a.m.	Morning Networking Event
9 – 10:15 a.m.	Breakout Sessions
10:15 – 11:45 a.m.	Master Track Sessions
11:45 a.m. – 12:30 pm	Join the Conversation Session Join your peers for small group conversations to discussion morning sessions, partner solutions, or simply meet someone new.
12:30 – 1:30 p.m.	Virtual Exhibit Hall Open Visit and explore Exhibitors & Ergo Cup® Teams
1:30 – 2:45 p.m.	Breakout Sessions
2:45 – 3:15 p.m.	Continuing the Conversation Session Join your peers for small group conversations to discussion morning sessions, partner solutions, or simply meet someone new.
3:15 – 3:30 p.m.	Closing and Awards Ceremony - Ergo Cup® Competition, Practitioner and Student Awards

Full Agenda:

Pre-Conference Schedule - March 15-19, 2021

	Monday, March 15	Tuesday, March 16	Wednesday, March 17	Thursday, March 18	Friday, March 19
8 a.m. – Noon	<p>Highly Effective Change Influence and Leadership Skills in Ergonomics Jack Slavinski, Organizational Change Consultant</p>	<p>Facilitative Leadership Skills – A Key for High Impact Ergonomics Teams Suzanne Nobrega, University of Massachusetts Lowell</p>	<p>Student & Young Professional Workshop (Part 1 of 2) Join us for the first part of our workshop featuring: Bobbie Watts, Michelin Americas Ethics Roundtable Michael Giuliano Networking Session</p>	<p>How to Craft an Ergonomics Business Case in Dollars and “Sense” Suzanne Nobrega, University of Massachusetts Lowell Blake McGowan, VelocityEHS Humantech</p>	
1 – 5 p.m.	<p>Ergonomics Certification – Applying for the Exam – Review of Requirements for Education, Experience, and Work Products Robert J. Smillie, Foundation for Professional Ergonomics Bill Boyd, IISE</p>	<p>Using Fatigue Failure Based Exposure Assessment Tools to Control Work-Related Musculoskeletal Disorders Sean Gallagher and Richard Seseq, Auburn University</p>	<p>Practical Anthropometry: Determining the Percentage of Users Concurrently Accommodated on Multiple Design Dimensions Thomas Albin, High Plains Engineering Services LLC</p>		<p>Ergonomics Certification – Preparing to Take BCPE Exam Robert J. Smillie, Foundation for Professional Ergonomics Carrie Bath-Scheel, Concordia University Wisconsin and Synergistic Solutions</p>
3 – 7 p.m.				<p>Student & Young Professional Workshop (Part 2) Join us for the second part of our workshop featuring: Tim Page-Bottorff, SafeStart Diversity & Inclusion in Ergonomics Roundtable Networking Session</p>	

Monday, March 22

3 – 4:30 p.m.	Opening Welcome Reception
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Tuesday, March 23

8 – 8:30 a.m.	Daily Meetup Grab your favorite beverage and join some friends for informal networking to kick off or wind down your day.			
8:30 – 9:00 a.m.	Virtual Exhibit Hall Open Visit and explore Exhibits & Ergo Cup® Teams			
9 – 10:00 a.m.	Welcome and Keynote Address “Trust & Adaptation to New Workplace Technology” – John D. Lee, Ph.D., University of Wisconsin-Madison.			
10 – 11:30 a.m. Extended Sessions	Advancements in Ergonomics	Ergonomics in Action	Ergonomics Programs	Ergonomics in Health, Safety and the Environment (HSE)
	Utilizing Lab Results to Predict if Job Tasks Will Benefit from Exoskeleton Usage Jason Gillette, Iowa State University; Terry Butler, Lean Steps Consulting Inc.	How to Put an Aircraft Back Together Marcella Kimbrell, Lockheed Martin	Participatory Ergonomics: A Lockheed Martin Success Story Mirtha Perazza, The Ergonomics Center of NC; Scott Dinnan, Lockheed Martin	Ergonomics Lessons Learned from the COVID-19 Pandemic W Gary Allread, SRI-Ergonomics, The Ohio State University
	Utilizing Emerging Technologies to Enhance Ergonomics at Toyota Marisol Barrero, Toyota Motor North America (TMNA); Aaron Sparks, Toyota Motor North America (via Aerotek)	Maintainability: Applying Ergonomics to Maintenance Work Paul Adams, 3M	Participatory Ergonomics - Simplifying Complex Concepts for use by the Front Line Glenn Flood, Cintas; Fiona Quinn, Cintas	Workstations - Social Distancing in Industry James Galante, EASE Council
11:30 a.m. – 12:30 p.m.	Join the Conversation Session			
12:30 – 1:30 p.m.	Virtual Exhibit Hall Open Visit and explore Exhibits & Ergo Cup® Teams			
1:30 – 3:00 p.m. Extended Sessions	Advancements in Ergonomics	Ergonomics in Action	Ergonomics Programs	Ergonomics in Health, Safety and the Environment (HSE)
	The New Liberty Mutual Manual Handling Equations Jim Potvin, Potvin Biomechanics Inc.	Karakuri-"Free" Ergonomic Solutions Jose Morales, Michael Wilson, Misty Wies, John Alteneeder, Toyota Motor Manufacturing	Prevention through Design for Ergonomics Samuel Cantu, Samsung Austin Semiconductor	Ergonomics for Small Businesses Emily Horton, CNA; Anuja Patil, CNA
	LiFFT and Arm Force Field Ergonomic Assessment on Turkey farms Allison Stephens, Fanshawe College; Christopher Loma, Fanshawe College; Jack Wang, Fanshawe College	Driving Risk Reduction Through an Ergonomic Engineering Model Jamie Burget, Lockheed Martin; Cynthia DiMeglio, Lockheed Martin	Ensuring Ergonomics in Workplace Design Peter Budnick, Ergoweb	Featured Speaker: NeuroErgonomics: A New Frontier in the Evaluation of Work with Applications Ranging from Modern Office Solutions to Exoskeletons Ranjana Mehta, Texas A&M University

3 – 3:30 p.m.	Continuing the Conversation Session	
3:30 – 4:00 p.m.	Virtual Exhibit Hall Open Visit and explore Exhibits & Ergo Cup® Teams	
4 – 5:30 p.m.	Master Track Session: Positioning Ergonomic Solutions to the Executive Team	Master Track Session: OSHA and Your Ergonomics Program Gary Orr, Ben Zavitz, Dave Alexander

Wednesday, March 24

8 – 8:30 a.m.	Daily Meetup <i>Grab your favorite beverage and join some friends for informal networking.</i>			
8:30 – 9:00 a.m.	Virtual Exhibit Hall Open Visit and explore Exhibits & Ergo Cup® Teams			
9 – 10:30 a.m.	Master Track Session: COVID’s Impact on Ergonomics	Master Track Session: Sustaining Ergonomics Teams		
10:30 – 11:30 a.m.	AEC Aspire Talks: Amy May, Boeing Canada Winnipeg Wayne Maynard, Liberty Mutual (retired)			
11:30 a.m. – 12:00 p.m.	Join the Conversation Session			
12 – 1:00 p.m.	Virtual Exhibit Hall Open Visit and explore Exhibits & Ergo Cup® Teams			
1 – 2:15 p.m. Breakout Sessions	Advancements in Ergonomics	Ergonomics in Action	Ergonomics Programs	Ergonomics in Health, Safety and the Environment (HSE)
	Prediction of Occupational Physical Activities using Inertial Measurement Units and Deep Learning Models Yishu Yan, University of California, Berkeley; Hao Fan, Northwestern Polytechnical University; Yibin Li, University of California, Berkeley; Elias Hoeglinger, University of Applied Sciences Upper Austria, Linz; Alexander Wiesinger, University of Applied Sciences Upper Austria, Linz; Alan Barr, UC ERGONOMICS LAB; Carisa Harris Adamson, University of California, San Francisco	The Caster Value Proposition Rob Jorden, Blicke USA Wheels and Casters, Inc.	AA TECH’s Ergonomic Journey Wayne Young, Advanced Atomization Technologies; Gerald Johnson, Advanced Atomization Technologies	Reverse the Effects of Work Deconditioning: Using Ergonomic Principles to Prevent the Loss of Employee Conditioning During Periods of Inactivity Kelson Wann, Briotix Health
	The Use of Artificial Intelligence and Computer Vision as Technological Support to Ergonomists in Monitoring the Physical Health of Employees Giles Balbinotti, UNISOCIESC; Rufo Paganini, dod vision	Predicting How Wheels Will Perform in Your Workplace Dave Lippert, Hamilton Caster & Mfg. Co.	Managing Remote Ergonomics Processes: 3 Case Studies Prove It Works Jeff Sanford, VelocityEHS; Mary Stoesser, VelocityEHS	The Effect of Physical Therapy Delivered Ergonomic Interventions on Work-Related Musculoskeletal Disorders Joshua Prall, Coastal Consulting; Michael Ross, Daemen College

24th Annual Applied Ergonomics Conference

March 22-25, 2021

Virtual Program

	<p>A PyQt-based Interactive Ergonomic Risk Assessment Toolkit Dana Bani-Hani, Binghamton University; Yan Chen, Binghamton University; Yong Wang, Binghamton University; Tianqi Smith, Binghamton University</p>	<p>An Applied Review of Multi Person Lifting Mitch Carswell, Sandalwood Engineering & Ergonomics</p>	<p>Make Everyone an Ergonomist in a Dynamic Environment Abhi Rao, Tesla</p>	<p>Industrial Ergonomics and the Link between Soft Tissue Injuries and Opioi Bruce Madsen, DEKRA</p>
2:15 – 2:30 p.m.	Continuing the Conversation Session			
2:30 – 3:30 p.m.	Virtual Exhibit Hall Open Visit and explore Exhibits & Ergo Cup® Teams		Poster Sessions	
3:30 – 4:45 p.m. Breakout Sessions	<p>Advancements in Ergonomics</p>	<p>Ergonomics in Action</p>	<p>Ergonomics Programs</p>	<p>Ergonomics in Health, Safety and the Environment (HSE)</p>
	<p>Impact of Virtual Reality (VR)-Induced Visual Perturbations on Postural Stability and Fall Risk Harish Chander, Mississippi State University; Shuchisnigdha Deb, The University of Texas Arlington; Alireza Shojaei, Mississippi State University; Sachini N.K. Kodithuwakku Arachchige, Mississippi State University; Christopher Hudson, Mississippi State University; Adam Knight, Mississippi State University; Daniel Carruth, Mississippi State University</p>	<p>Current and Future Technology Trends in Workers' Compensation Jeffrey Smagacz, Marsh Risk Consulting</p>	<p>Approaches to Cost Justifying and Estimating the Financial Impact of Ergonomics Blake McCowan, VelocityEHS</p>	<p>Optimizing Preventative Movement Through Understanding Human Biomechanics Tyler Baker</p>
	<p>A Structured Approach to Developing Slip, Trip, and Fall Safety Checklists for Mining Mahiyar Nasarwanji, NIOSH; Patrick Dempsey, NIOSH; Jonisha Pollard, NIOSH</p>	<p>Strategies for Accommodating Individuals with Standing Restrictions in Traditionally Standing Workstations Sandra Sellers</p>	<p>Ergo Risk and Work Time Assessments Made Quick and Easy Peter Kuhlman, MTM ASSOCIATION e.V.; Mike Mitchell, MTM Productivity Service Cooperation</p>	<p>Utilizing Wearable Technology to Create Individual Wellness Plans and Reduce Workplace Injuries Kelson Wann, Briotix Health</p>
	<p>Does Tibial Shock Vary with Carpet Pad Thickness? Steven Lavender, The Ohio State University; Vivek Ramachandran, The Ohio State University; W Gary Allread, SRI-Ergonomics, The Ohio State University; Carolyn Sommerich, The Ohio State University</p>	<p>Extreme Ergonomics Accommodations Tim Pottorff, QP3 ErgoSystems</p>	<p>Smartphone Ergonomics: Applying Lean/Six Sigma Tools and Multi-task Evaluation Models to Quantify Physical Exposures and Compare Solutions Murray Gibson, Saturn Ergonomics Consulting</p>	<p>Effect of Different Pillow Designs on Promoting Sleep Comfort, Quality, & Spinal Alignment: A Systematic Review Ahmed Radwan, Utica College</p>
5:00 p.m.	Ergo Cup® Excellence Award Voting Closes			
5 – 6:00 p.m.	Networking Happy Hour			

Thursday, March 25

7:30 – 8:00 a.m.	<p>Daily Meetup <i>Grab your favorite beverage and join some friends for informal networking.</i></p>
8 – 9:00 a.m.	<p>Breakfast Networking Event</p>

	Advancements in Ergonomics	Ergonomics in Action	Ergonomics Programs	Office Ergonomics Programs and Applications
9 – 10:15 a.m. Breakout Sessions	Digital Production Planning Using EMA Software Lars Fritzsche, IMK Automotive	Prone Patients in a Pandemic: How Ergonomics Transformed This Process Danielle Barzoloski, Alta Bates Summit Medical Center	Communicating the Value of Ergonomics to Business Stakeholders Blake McGowan, VelocityEHS	Safety, Ergonomics and Furniture: BIFMA's New Compliant Program Lucy Hart, ergoCentric; Teresa Bellinger, Haworth
	Leveraging Technology to Address Rapidly Changing Office Ergonomics Program Demands Erin Hanson, Cority	Hospitality-The Industry Ergonomics (and Safety) Left Behind Tim Pottorff, QP3 ErgoSystems	Educating Students Today to Prepare the Workforce of Tomorrow Melissa Afterman	On the Road to Employee Well-being: A Boost from Building Standards Lucy Hart, ergoCentric
	Hand Posture and Force Estimation Using Surface Electromyography and an Artificial Neural Network Mengcheng Wang, University of California, Berkeley; et all.	The Post-COVID Ergonomics Analysis to Compare Factors Affecting Learning Rate of IT, Health and Manufacturing Industries Vikram Kumar Gupta, Indian Institute of Management Indore; Surbhi Choudhary, Indian Institute of Management Indore	Teaching Ergonomics in a COVID Restricted Environment Robert Thomas, Industrial and Systems Engineering Dept; Richard Sesek, Auburn University; Anjaneya Bandekar, Industrial and Systems Engineering Dept; Connor Lusk, Industrial and Systems Engineering Dept	Providing Remote Ergonomics Assessments, Job Coaching and Stretch and Flex Programs Ronald Porter, The Back School
10:15 – 11:45 a.m.	Round Table Session: Prioritizing Ergonomics within HSE		Master Track Session: Emerging Technology	
11:45 a.m. – 12:30 p.m.	Join the Conversation Session			
12:30 – 1:30 p.m.	Virtual Exhibit Hall Open Visit and explore Exhibits & Ergo Cup® Teams			
1:30 – 2:45 p.m. Breakout Sessions	Advancements in Ergonomics	Ergonomics in Action	COVID's Impact on Ergonomics	Office Ergonomics Programs and Applications
	Exoskeleton Use in Construction Nancy Gutierrez, UC Ergonomics Laboratory; et all.	Flying High: Delta's Success with In-Air Ergonomics Jeffrey Smagacz, Marsh Risk Consulting	Adjusting to Working from Home: How to Use Ergonomics to Help Teresa Bellinger, Haworth Inc. and Hank Austin, NL Austin Consultants LLC	Comparison of alternative office workstations with respect to computer usability, activity and discomfort Tricia Salzar, Texas A&M Health Science Center; Mark Benden, Texas A&M Ergonomics Center EOH Dept. School of Public Health
	Integrating a Digital Human Model into Your Business Christopher Koshurba, Sandalwood Engineering & Ergonomics	Injury Risk Potential During Flight Operations of National Guard Helicopters Steven Chervak, U.S. Army Public Health Center		Impact of Alternative Office Workstations on Computer Usability Tricia Salzar, Texas A&M Health Science Center; Mark Benden, Texas A&M Ergonomics Center EOH Dept. School of Public Health

	<p>Stop Observing and Start Measuring: Moving Ergonomics into Industry 4.0 Using AI, Wearables and Big Data Ben Zavitz, Ergo Insight Inc; Scott Smith, Aon Insurance Brokers</p>	<p>Welding in the 21st Century Miriam Joffe, The Boeing Company</p>	<p>Returning to Work with COVID-19: Lessons from the California Grocery Worker Study Caris Harris Adamson, University of California at San Francisco</p>	<p>Sacroiliac Joint Dysfunction and Seat Pan Tilt Ahmed Radwan, Utica College; Thomas Crist, Utica College</p>
2:45 – 3:15 p.m.	Continuing the Conversation Session			
3:15 – 3:30 p.m.	Closing and Awards Ceremony - Ergo Cup® Competition, Practitioner and Student Awards			