



**Agenda At-A-Glance:**

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

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

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

Monday, March 22

3 – 4:30 p.m.	<b>Opening Welcome Reception</b>
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Tuesday, March 23

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

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

**Wednesday, March 24**

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

**24<sup>th</sup> Annual Applied Ergonomics Conference**

**March 22-25, 2021**

**Virtual Program**

	<p><b>A PyQt-based Interactive Ergonomic Risk Assessment Toolkit</b>                  Dana Bani-Hani, Binghamton University;                  Yan Chen, Binghamton University; Yong Wang, Binghamton University; Tianqi Smith, Binghamton University</p>	<p><b>An Applied Review of Multi Person Lifting</b>                  Mitch Carswell, Sandalwood Engineering &amp; Ergonomics; Christopher Koshurba, Sandalwood Engineering &amp; Ergonomics</p>	<p><b>Make Everyone an Ergonomist in a Dynamic Environment</b>                  Abhi Rao, Tesla</p>	<p><b>Industrial Ergonomics and the Link between Soft Tissue Injuries and Opioid</b>                  Bonnie Austin, DEKRA</p>
2:15 – 2:30 p.m.	<b>Continuing the Conversation Session</b>			
2:30 – 3:30 p.m.	<p><b>Virtual Exhibit Hall Open</b>                  Visit and explore Exhibits, Ergo Cup® Teams &amp; Live Chat with Poster Presenters</p>			
3:30 – 4:45 p.m. Breakout Sessions	<p><b>Advancements in Ergonomics</b></p>	<p><b>Ergonomics in Action</b></p>	<p><b>Ergonomics Programs</b></p>	<p><b>Ergonomics in Health, Safety and the Environment (HSE)</b></p>
	<p><b>Impact of Virtual Reality (VR)-Induced Visual Perturbations on Postural Stability and Fall Risk</b>                  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><b>Current and Future Technology Trends in Workers' Compensation</b>                  Jeffrey Smagacz, Marsh Risk Consulting</p>	<p><b>Approaches to Cost Justifying and Estimating the Financial Impact of Ergonomics</b>                  Blake McCowan, VelocityEHS</p>	<p><b>On the Road to Employee Well-being: A Boost from Building Standards</b>                  Lucy Hart, ergoCentric</p>
	<p><b>A Structured Approach to Developing Slip, Trip, and Fall Safety Checklists for Mining</b>                  Mahiyar Nasarwanji, NIOSH; Patrick Dempsey, NIOSH; Jonisha Pollard, NIOSH</p>	<p><b>Strategies for Accommodating Individuals with Standing Restrictions in Traditionally Standing Workstations</b>                  Sandra Sellers, Walt Disney World</p>	<p><b>Ergo Risk and Work Time Assessments Made Quick and Easy</b>                  Peter Kuhlmann, MTM ASSOCIATION e.V.; Mike Mitchell, MTM Productivity Service Cooperation</p>	<p><b>Utilizing Wearable Technology to Create Individual Wellness Plans and Reduce Workplace Injuries</b>                  Kelson Wann, Briotix Health</p>
	<p><b>Does Tibial Shock Vary with Carpet Pad Thickness?</b>                  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><b>Extreme Ergonomics Accommodations</b>                  Tim Pottorff, QP3 ErgoSystems</p>	<p><b>Smartphone Ergonomics: Applying Lean/Six Sigma Tools and Multi-task Evaluation Models to Quantify Physical Exposures and Compare Solutions</b>                  Murray Gibson, Saturn Ergonomics Consulting</p>	<p><b>Effect of Different Pillow Designs on Promoting Sleep Comfort, Quality, &amp; Spinal Alignment: A Systematic Review</b>                  Ahmed Radwan, Utica College</p>
5:00 p.m.	<b>Ergo Cup® Excellence Award Voting Closes</b>			
5 – 6:00 p.m.	<b>Networking Happy Hour</b>			

**Thursday, March 25**

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

All times listed in ET.

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

	<p><b>Stop Observing and Start Measuring: Moving Ergonomics into Industry 4.0 Using AI, Wearables and Big Data</b>                  Ben Zavitz, Ergo Human Performance LLC; Scott Smith, Aon Insurance Brokers</p>	<p><b>Welding in the 21st Century</b>                  Miriam Joffe, The Boeing Company</p>		<p><b>Sacroiliac Joint Dysfunction and Seat Pan Tilt</b>                  Ahmed Radwan, Utica College; Thomas Crist, Utica College</p>
2:45 – 3:15 p.m.	<b>Continuing the Conversation Session</b>			
3:15 – 3:30 p.m.	<b>Closing and Awards Ceremony - Ergo Cup® Competition, Practitioner and Student Awards</b>			