

2024 AEC Educational Program

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Monday, March 25, 2023

Monday 3/25	8:00 am - Noon	M101-102	M103	M104	M107	M105-106
		1707				1513
		Promoting Wellness in Office Environments Sheryl Ulin, University of Michigan-AnnArbor and Teresa Bellingar, Haworth				Ergonomics Certification – Preparing to take BCPE Exam
Monday 3/25	Noon - 1:00 pm					Robert Smillie
	1:00 pm - 5:00 pm	1709		Velocity EHS Meeting (by invitation only)		
		Recent Advances in Physical Ergonomics Assessment Tools Jim Potvin, Potvin Biomechanics				
	6:00 pm - 7:30 pm	Welcome Reception and Ergo Cup Team Photos (Hall C)				

Tuesday, March 26, 2023

Track	Ergonomics Programs	Advancements in Ergonomics	Office Ergonomics	Roundtable/Master Track	Student & Emerging Professionals	
Session Coordinator: Wendy Lee	M100	M103	M104	M107	M105/106	
Tuesday 3/26	8:00 am - 8:30 am	4284	4620	4420	1732	
		Moderator 1: Adam Pickens Moderator 2: Sandra Sellers	Moderator 1: Jared Glaspell Moderator 2: Jared Smith	Moderator 1: Lucy Hart Moderator 2: Ann Hall	Moderator 1: Keith White Moderator 2: Self-Moderated	
		Gamify your ergonomics awareness program	Empowering a Collaborative Workforce: Toward Expert Skill-based Training	The New BIFMA x10.1-2024 Ergonomics Standard: Pearls for Practicing Ergonomists	Virtual motion capture and assessments: Let's hear from vendors!	#N/A
		Mr. Alex DaRosa, Ms. Carrie Taylor and Mr. Aaron Gebhardt, Taylor'd Ergonomics Incorporated, Cambridge, ON, Canada	Prof. JuHyeong Ryu, West Virginia University, Morgantown, WV	Lucy Hart, ergoCentric Inc., Mississauga, ON, Canada and Dr. Teresa Bellingar, Haworth, Inc., Holland, MI		#N/A
Tuesday 3/26	8:30 am - 9:00 am	4436	9998	4625		
		Modernizing Injury Prevention in a Tik Tok World	From Headlines to Application: How AI and digital humans can create real-world ergonomic impacts	On-the-Go Ergonomics: Keeping your Workforce Safe and Comfortable	Robert Radwin, University of Wisconsin - Madison, Madison, WI; Jim Potvin, Potvin Biomechanics, Inc., Tecumseh, ON, Canada; Shane Larson, Inseer, Inc., Coralville, IA; Blake McGowan, VelocityEHS, Chicago, IL; Matt Jeffs, Tumeke Ergonomics, St. Augustine, FL	
	Heather Ritz, Briotix Health, Centennial, CO	Dr. Kaysey Aguilar, Texas A&M University, College Station, TX	Ms. Trisha Sikkema, Chubb Insurance, Johnston, IA			
Tuesday 3/26	9:00 am - 9:30 am	4760	4378	4231		
		Lessons Learned with Ergo Blitzes	Experiences of automotive workers in using a soft back exoskeleton for up to 10 months	The Virtual Fit Tool: How to Modify it to Simulate your Target Population		
		Haley Guin, Michelin, Tuscaloosa, AL and Mr. Joe Fox, Michelin, Woodburn, IN	Prof. Maury Nussbaum1, Dr. Sunwook Kim1, Mr. Ryan Porto2 and Ms. Ariana Porter3, (1)Virginia Tech (Virginia Polytechnic Institute and State University), Blacksburg, VA, (2)General Motors, Warren, MI, (3)GM, Warren, MI	Dr. Teresa Bellingar, Haworth, Inc., Holland, MI		
	9:45 am - 10:45 am	Keynote Presentation - Casey Chosewood (Hall A)				
	10:45 am - 3:00 pm	Exhibit Hall Open (Hall C)				
	Noon - 1:15 pm	Lunch (Hall A)				
	1:00 pm - 2:00 pm	Poster Sessions (Hall C)				
	1:00 pm -- 2:45 p.m	AES Town Hall (M100)				

Track	Ergonomics in Action	Advancements in Ergonomics	Ergonomics in Health, Safety and the Environment (HSE)	Master Track	Student & Emerging Professionals	
Session Coordinator: Dr. Lora Cavuoto	M100	M103	M104	M107	M105/106	
Tuesday 3/26	3:00 pm - 3:30 pm	4693	4198	4239	4337	
		Moderator 1: Kelly Hogan Moderator 2: John Lewkowicz	Moderator 1: Hannah Payne Moderator 2: Courtney Worthington	Moderator 1: Adam Pickens Moderator 2: Chelsea Anderson	Moderator 1: Keith White Moderator 2: Self-Moderated	Moderator 1: Carey Wake Moderator 2: Waylon Fleet
		A Discussion of the MSD Solutions Index: A Groundbreaking, Organizational-Level Benchmarking Tool	Evaluating the Longevity and Ergonomic Implication of Industrial Cart Wheels: A Five-Year Study	Ergonomics for All Ages: Navigating Comfort and Well-Being for Baby Boomer and Gen Z Workers		Ergonomics Unveiled: Trailblazing Careers and Proven Paths, a Roundtable Discussion
		Dr. Rammohan Maikala, National Safety Council, MUKILTEO, WA, Dr. Paige DeBaylo, National Safety Council, Austin, TX and Sydney Mosser, National Safety Council, Itasca	Ms. Madeline Shoot, Darcor Limited, Toronto, ON, Canada	Mr. Kevin Lombardo, DORN Companies, Denver, CO		Victoria Ballard1, Savannah Maples2 and Chelsea McMeen2, (1)Auburn University, AUBURN, AL, (2)Auburn University, Auburn, AL
Tuesday 3/26	3:30 pm - 4:00 pm	4416	4426	4293		
		Cognitive and Behavioral Markers for Damage Detection of AI-assisted Drone-Based Bridge Inspections	Updates and Case Studies In the Field of Powered Casters	Picking Personal Protective Equipment: How to run PPE product trials		#N/A
	Fatemeh Dalilian, University of Iowa, Iowa City, IA	Mr. Rob Jorden, Blickle USA Wheels and Casters, Inc., Newnan, GA	Mr. Aaron Gebhardt, Taylor'd Ergonomics Incorporated, Cambridge, Canada and Ms. Carrie Taylor, Taylor'd Ergonomics Incorporated, Cambridge, ON, Canada		#N/A	

2024 AEC Educational Program

Tuesday 3/26	4:00 pm - 4:30 pm	4312	4775		1740
		A Practical Return on Investment (ROI) Calculator Nicole Ervin, GE Appliances, Louisville, KY	A Computer Vision approach for classifying the risk of a lifting task Ms. Afroz Shakeri, Mr. Victor Eghujovbo and Dr. Eunsik Kim, University of Windsor, Windsor, ON, Canada	#N/A	
Tuesday 3/26	4:30 pm - 5:00 pm	4175	4444	4283	
		Communicating the Value of Ergonomics to Business Stakeholders Blake McGowan, VelocityEHS, Chicago, IL	Exploring Cognitive Challenges in Virtual Reality: Implications for User-Centric Design Mr. Anand Sivaramakrishnan, North Carolina State University, Raleigh, NC and Karen Chen, North Carolina State University, Raleigh	Sweet dreams: How does ergonomics impact restful sleep? Ms. Christina Timmons and Ms. Carrie Taylor, Taylor'd Ergonomics Incorporated, Cambridge, ON, Canada	
	5:15 pm - 6:15 pm	Speed Networking (Hall A)			
	6:00 pm - 9:00 pm	Louisville Slugger Museum Networking Event (Market Stree Prefunction Area)			

Wednesday, March 27, 2023

Track	Ergonomics in Action	Advancements in Ergonomics	Ergonomics Programs	Master Track	Student & Emerging Professionals
Room	M100	M103	M104	M107	M105/106
Wednesday 3/27	4343	4573	4200	1726	4294
	Moderator 1:	Moderator 1:	Moderator 1:	Moderator 1: Keith White	Moderator 1:
	Moderator 2:	Moderator 2:	Moderator 2:	Moderator 2: Self-Moderated	Moderator 2:
	8:00 am - 8:45 am	DEI & Universal Design Gary Downey, The Ergonomics Center (NCSU), Raleigh, NC	Understanding Ergonomic analysis tools to help evaluate new technology. Allison Stephens, Fanshawe College, Ann Arbor, MI	Integrating Ergonomics: Building a Sustainable Ergonomics Program Through Shared Responsibilities. Ms. Rachel Mitchell, ERGO Inc., Richmond Hill, ON, Canada	Cart handling: Push-pull force update and vendor initiatives Keith White, Lennox International, Inc., Colleyville, TX; Amanda Kauder, Kia Georgia, West Point, GA; Brent Bowers, John Deere, Fruitland, IA; Connie Brown, Amgen, Thousand Oaks, CA; Rob Jordan, Blickle USA, Newnan, GA; Eric Hassen, Caster Connection, Inc., Columbus, OH; Neal Wiggemann, Baxter, Batesville, IN
Wednesday 3/27	8:45 am - 9:30 am	4682	4722	4651	4727
	The application of ergonomics standards within manufacturing Ms. Salima Latha, Ford Motor Company, Dearborn, MI	Technological Investments in Ergonomics: is it worth it? Owen Janisse, Sandalwood Engineering and Ergonomics, LaSalle, ON, Canada	Global Ergonomics: COPE Strategies for the 21st Century Dr. Matt Jeffs, Tumeke Ergonomics, St. Augustine, FL		From Collegiate to Corporate: Navigating the Transition Courtney Worthington, Sandalwood Engineering and Ergonomics, Livonia, MI
	9:45 am - 10:45 am	Keynote Presentation - Marty Smets (Hall A)			
	10:45 am - 1:15 pm	Exhibit Hall Open (Hall C)			
	11:30 am - 12:30 pm	Poster Presentations (Hall C)			
	Noon - 1:15 pm	Lunch Break			
		Ergonomics in Action	Advancements in Ergonomics	Multi-Skilled Ergonomics Practitioner	Round Table
		M100	M103	M104	M107
Wednesday 3/27	1:30 pm - 2:15 pm	9999	4348	4311	1731
		Beyond Once Upon a Time: Storytelling for Ergonomists (Includes Bonus Content) Sandra Sellers, Disney Parks, Experiences and Products, Lake Buena Vista, FL	Understanding real-time body tracking in VR-based ergonomics analyses Dr. Nick La Delfa1, Mr. Ryan Porto2 and Mr. Ryuta Dharmaputra1, (1)Ontario Tech University, Oshawa, ON, Canada, (2)General Motors, Warren, MI	Advantages and Pitfalls of Common Ergonomic Program Metrics Nicole Ervin, GE Appliances, Louisville, KY	Diversity, equity, and inclusion AND Ergonomics Shandrea Middlebrook, Lennox International, Inc., McKinney, TX; Anuja Patil, CNA, Chicago, IL; Brian Sherman, Pentair, Garner, NC; Taylor Mosser, National Safety Council, tbd
Wednesday 3/27	2:15 - 3:00 pm	4133	4499	4140	4430
		Applying The Lifting Fatigue Failure Tool (LIFFT): A how to for practitioners. Mr. Nathan Pool, Mr. Bob Seseck, Dr. Richard Seseck, Dr. Sean Gallagher and Dr. Mark Schall, Auburn University, Auburn, AL	Wearable sensors and computer vision systems for ergonomics risk assessment Dr. Lora Cavuoto, University at Buffalo, Buffalo, NY	Using Training to Build Ergonomics Culture Ms. Heather White, The Ergonomics Center, Raleigh, NC	
	3:00 pm - 3:30 pm	Afternoon Break			
		Ergonomics in Health, Safety and the Environment (HSE)	Ergonomics Programs	Multi-Skilled Ergonomics Practitioner	Round Table
		M100	M103	M104	M107
Wednesday 3/27	3:30 pm - 4:15 pm	4196	4178	4422	4067
		Ditch the OSHA Recordable? Are Your Ergonomics Targets and Indictors Serving You? Christopher Dockery, BMW Manufacturing Co., LLC, Greer, SC	Applying Quality Improvement Tools for Problem Solving in Ergonomics Rick Barker and Jaclyn Faraci, VelocityEHS, Chicago, IL	From Concept to Launch – An Overview of Mental Workload and Design Mr. Jack Wang and Ms. Chelsea Anderson, Sandalwood Engineering & Ergonomics, Livonia, MI	Is It Possible to Develop Holistic Ergonomics Assessment Tools? Dr. Gary Allread, The Ohio State University, SRI-Ergonomics, Columbus, OH, Dr. Rammohan Maikala, National Safety Council, MUKILTEO, WA, Dr. Ming-Lun Lu, National Institute for Occupational Safety and Health, Cincinnati, OH, Niki Howard, Washington State Department of Labor and Industries, Olympia, WA and Murray Gibson, Saturn Ergonomics / Auburn University, Auburn, AL
Wednesday 3/27	4:15 pm - 5:00 pm	5024	10001	4723	
		Optimization of the Ergonomics Process using Physical Demands Analysis (PDA) inputs Fatima Ali, Fanshawe College, London, Ontario, Canada	Office Ergonomics Program: From fragmented to harmonized in two years Ms. Wendy Lee, Enbridge Inc., Kingston, ON, Canada	MODAPTS - A proven tool to quickly identify potential MSD's in assembly processes. Ed Eisbrenner, Eisbrenner Productivity Group, Sandusky, OH and Allison Stephens, Fanshawe College, Ann Arbor, MI	

2024 AEC Educational Program

Thursday, March 28, 2023

Track	Applied Research	Advancements in Ergonomics	Ergonomics Program	Master Track	
Room	M100	M103	M104	M107	
	4398	4437	4418	4408	[Presentation #]
8:00 am - 8:30 am	Evaluating Ergonomic Risk in Culinary Tasks: A Computer Vision Approach	Wearables and Risk Management: Enhancing Workplace Health, Ergonomics, and Fatigue Mitigation	Paralysis by Analysis: Common Failures of Ergonomic Programs and How to Make Them Successful	Physical Demands Analysis: A Key Driver to Organizational Health and Safety	#N/A
	Mr. Hari Iyer and Dr. Heejin Jeong, Arizona State University, Mesa, AZ	Anuja Patil and Briana Blair, CNA, Chicago, IL	Heather Ritz, Briotix Health, Centennial, CO		#N/A
	10000	4288	4172		[Presentation #]
8:30 am - 9:00 am	Ergonomics in Equine Dentistry -- not the horses!	Enhancing Wearable Tech with Ergonomics, Inclusion, and Accessibility Frameworks: An Oura vs. Whoop Case Study	Our Ergonomics Assessment is Done. Now What?		#N/A
	Martha Parker, Texas A&M Ergo Center, College Station, TX	Dr. Rosemarie Figueroa Jacinto, Rinkus, Tampa, FL; belongIN, St Petersburg, FL, Dr. Jessica Zandler, Rinkus, Woodinville, WA; University of Michigan, Ann Arbor, MI and Mr. Billy Lister, Team USA, Colorado Springs, CO	Josiah Allen, VelocityEHS, Chicago, IL	Rick Barker, VelocityEHS, Chicago, IL, James Rethaber, Fit For Work, San Antonio, TX, Wendy Chelette, Fit For Work, San Antonio and Patrick O'Connor, WorkSTEPS, Austin	#N/A
	4738	4344	4428		[Presentation #]
9:00 am - 9:30 am	Enabling multi-faceted collaborations between robots, humans, and teleoperators in industrial settings	Using wearables to detect workplace fall hazards	Overcoming Barriers in Implementing Solutions: Strategies for Success		
	Ms. Sakshi Pranay Taori ¹ , Dr. Sunwook Kim ¹ , Dr. Ivan Hernandez ¹ , Prof. Maury Nussbaum ¹ and Dr. Sol Lim ² , (1)Virginia Tech (Virginia Polytechnic Institute and State University), Blacksburg, VA, (2)Virginia Tech, Blacksburg, VA	Dr. Jesse Jacobs ¹ , Dr. Hoonyong Lee ² , Dr. Changbum Ahn ³ , Dr. Gaang Lee ⁴ and Prof. SangHyun Lee ² , (1)Liberty Mutual Insurance, Boston, MA, (2)University of Michigan, Ann Arbor, MI, (3)Seoul National University, Seoul, Korea, Republic of (South), (4)University of Alberta, Edmonton, AB, Canada	Andrew Dossett, CNA Insurance, Nashville, TN and Emma Brock, CNA Insurance, Atlanta, GA		#N/A
9:30 am - 10:00 am	Break				
	Ergonomics in Action	Advancements in Ergonomics	Ergonomics Program	Round Table	
	M100	M103	M104	M107	
	4262	4599	3996	1724	[Presentation #]
10:00 am - 10:30 am	Enhancing Ergonomics: Technology's Role in Neurodiverse Workers' Health, Performance, and Safety	Exoskeleton Applications in North America Versus Europe	Driver and Vehicle Ergonomics Program Development	How to Lead Successful Results Driven Ergo Teams	#N/A
	Richard Sesek, Auburn University, AUBURN, AL	Ms. Marisol Barrero, Wearable Robotics Association, Leesburg, VA	Ms. Wendy Lee, Enbridge Inc., Kingston, ON, Canada		#N/A
	4238	4083	4203		[Presentation #]
10:30 am - 11:00 am	Journey to Zero: Achieving a Safety Milestone of Zero Accidents in 90 Days	Exoskeleton Implementation at Mazda Toyota Manufacturing	Integration of Ergonomics into Employee Training and Development for Sustainable Development		#N/A
	Mr. Kevin Lombardo, DORN Companies, Denver, CO and Mr. Mark Hoffpauir, PPG Industries, Carrollton, TX	Kaleigh Fleming, Mazda Toyota Manufacturing, Madison, AL and Marvyn Rieger, SuitX, Emeryville, CA	Stephanie Bilderback, Austin Peay State University, Clarksville, TN	Davana Pilczuk, Cintas, Pooler, GA	#N/A
	5373	4377	4431		[Presentation #]
11:00 am - 11:30 am	The Ergo Cup Experience - Effective Ergo Cup Communication Strategy Empowers Engagement at Lockheed Martin	Digitizing Productive and Ergonomic Work Design with MTM-HWD®	How to Make Your Ergonomics Program Stick		
	Charlene Cornish, Lockheed Martin, Rockville, MD	Prof. Peter Kuhlmann, MTM ASSOCIATION e. V., Hamburg, Germany and Mr. Tony Campbell, MTM Productivity Services Corporation, Flower Mound, TX	Cara Armstrong, CNA Insurance, Houston, TX and Emily Horton, CNA Insurance, Charlotte, NC		#N/A
11:45 am - 1:30 pm	Ergo Cup Luncheon & Award Ceremony (Hall A)				