VIRTUAL EVENT
AUGUST 4-6, 2020

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### SCHEDULE AT-A-GLANCE

**All times are eastern daylight time (EDT)**

<table>
<thead>
<tr>
<th>Time</th>
<th>TUESDAY, AUGUST 4</th>
<th>WEDNESDAY, AUGUST 5</th>
<th>THURSDAY, AUGUST 6</th>
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<tr>
<td>1 p.m.</td>
<td>Welcome</td>
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| 1:05 – 1:30 p.m. | **Utilization of Smart and Wearable Technology to Evaluate the Impact of Ergonomic Solutions**  
Ben Zavitz, Ergo Human Performance LLC | **Ergonomics Regulations in the United States**  
Gary Orr, OSHA | **Managing Ergonomics for Work at Home (WAH) Employees**  
Hank Austin, NL Austin Consultants LLC |
| 1:35 – 2 p.m.  | **Static and Dynamic Assessments of Back-Support Exoskeletons**  
Maury Nussbaum, Virginia Tech | **Ergonomics in a Global Company**  
Allison Stephens, Fanshawe College  
Salima Ladha, Ford Motor Company | **Computer-based Prompt’s Impact on Postural Variability and Sit-Stand Desk Usage: A Cluster Randomized Control Trial**  
Greg Garrett, The Boeing Company |
| 2:05 – 2:30 p.m. | **Exploring Neuroergonomic Fit of Passive Exoskeleton During Simulated Manual Material Handling Task**  
Yibe Zhu, Texas A&M University | **Profitability: How Ergonomics Can Impact ROI in the Construction Industry**  
Brian Roberts, CNA | **A Sneak Peek at Revisions to BIFMA G1 as it Transitions to an ANSI Standard**  
Teresa Bellingar, Haworth  
Lucy Hart, ergoCentric Seating Systems |
| 2:35 – 3 p.m.  | **Potential Use of Optimization Techniques to Refine Anthropometric Design of Products**  
Matt Camilleri, Synaptics  
Thomas Albin, High Plains Engineering Services LLC | **$8 Million Payback in Three Years – How the Lear Corporation Did That**  
Jack Nunes, Lear Corporation | **Hand-Held Technology – It’s Worse Than We Thought**  
Tim Pottorff, OP3 ErgoSystems |
| 3 – 3:30 p.m.  | Break                                      | Break                                    | Break                                     |
| 3:30 – 5 p.m.  | **Master Track Panel Discussion Exoskeletons Implementation… The Pros and Cons**  
Moderator: Joe Wallace, CNA Insurance | **Master Track Panel Discussion Industry 4.0**  
Moderators: Allison Stephens, Fanshawe College  
Kelly Hogan, Sandalwood of Canada | **Master Track Panel Discussion Role of Ergonomists Amid the COVID-19 Crisis**  
Moderator: Ben Zavitz, Ergo Human Performance LLC |

*Plus, access to many, many more recorded sessions!*
**TUESDAY, AUGUST 4**

### ADVANCEMENTS IN ERGONOMICS

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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</table>
| 1:05 – 1:30 p.m. | **Utilization of Smart and Wearable Technology to Evaluate the Impact of Ergonomic Solutions**  
                Ben Zavitz, Ergo Human Performance LLC                                                        |
|             | Smart and wearable technology is all the rage, but can it be used to effectively identify cost  
                effective solutions in industry and convince management of the need to make an improvement?  
                This presentation will provide an overview of some of the technology available today and the  
                challenges and benefits of using various smart and wearable technologies and measurement  
                equipment. A series of industrial ergonomic projects related to material handling, equipment  
                design and selection, whole body vibration of vehicle seats, hand arm vibration of power tools,  
                and evaluation of PPE will be shared with the audience to demonstrate how various types of  
                technology were used to evaluate the impact of ergonomics solutions. Examples of technology  
                that will be shared include motion capture suits, heart rate monitors, wireless EMG, phone-based  
                apps, accelerometers and pressure sensors.                                                  |
| 1:35 – 2 p.m. | **Static and Dynamic Assessments of Back-Support Exoskeletons**  
                Maury Nussbaum, Virginia Tech                                                                     |
|             | Prolonged or repetitive trunk bending is associated with increased low-back musculoskeletal  
                disorders (MSDs), yet reducing this risk can be challenging. Back-support exoskeletons  
                (BSEs) are an emerging technology that may be of benefit, allowing workers to perform tasks  
                with less physical effort and reduced MSD risks. There is emerging evidence showing the  
                potential benefits of BSEs, particularly for simple (static or symmetric) tasks. Yet, this  
                evidence is relatively limited, especially regarding differences between exoskeleton design,  
                diverse tasks, and adverse effects that may result from BSE use. We complete two laboratory-based  
                studies to evaluate two very different BSE designs, in the context of pseudo-static trunk  
                bending and repetitive lifting. Major results indicated that there are clear potential benefits  
                of BSE use, in terms of reducing trunk muscle activity, metabolic demand, and perceived  
                exertion. However, these benefits differed substantially between the two BSE design tests and  
                varied across the range of task characteristics investigated (e.g., work location and symmetry).  
                Further, such benefits were minimal in some cases. Potential adverse effects were also evident,  
                such as related to localized discomfort at the exoskeleton-body interface, especially in more  
                “extreme” postures involving trunk flexion, bending, or twisting.                                |
| 2:05 – 2:30 p.m. | **Exploring Neuroergonomic Fit of Passive Exoskeleton During Simulated Manual Material Handling Task**  
                        Yibe Zhu, Texas A&M University                                                                 |
|             | Approximately 40 percent of non-fatal occupational musculoskeletal disorders (MSDs) are low-back  
                injuries. Recent advances in human-robotic cooperation have shown strong potential to reduce  
                MSD risks by reducing or transferring biomechanical loading from targeted joints. However,  
                human-robot synchrony (i.e., reducing mismatch between motor, mind, machine interactions),  
                learnability, and usability of these technological solutions remain untested. The ultimate goal  
                of the study is to improve exoskeleton-workplace safety and productivity by understanding,  
                assessing, and augmenting the neuroergonomic fit of exoskeletons. Neuroergonomic fit is defined  
                as a human-robotic fitness that minimizes the physical load while maximizing the neural  
                (cognitive) availability of a user. In this study, the neuroergonomic fit of an industrial passive  
                low-back exoskeleton (Laevo, Delft, The Netherlands) was evaluated during simulated manual  
                handling tasks with varying levels of physical and cognitive demands of twelve healthy subjects.  
                The preliminary brain activation result showed significant increase of connectivity strength between  
                the dorsolateral prefrontal cortex and the premotor cortex for exoskeleton condition compared to  
                non-exoskeleton condition regardless of cognitive demand level. This result implicates that the  
                exoskeleton requires higher connection between the cognitive workload area and the motor  
                planning area than non-exoskeleton MMH task requires.                                             |
| 2:35 – 3 p.m. | **Potential Use of Optimization Techniques to Refine Anthropometric Design of Products**  
                Matt Camilleri, Synaptics  
                Thomas Albin, High Plains Engineering Services LLC                                               |
|             | Designers seek to build products that will accommodate a specified fraction of users. If multiple  
                percentile values are used, the percent of users accommodated is generally less than expected.  
                The Virtual Fit Tool (VFT) is a spreadsheet-based anthropometric design tool developed for the  
                Human Factors and Ergonomics Society that addresses the problem. Upon input of a set of values  
                for multiple variables, the VFT calculates the percent of males and females accommodated on  
                each dimension, both separately and jointly, to ascertain if the desired percentage of users will  
                be accommodated. It is possible that more than one design, for example, different height, width  
                and depth dimensions, would each accommodate the desired percent of intended users. In this  
                presentation, we will describe utilization of an optimization technique available within Excel  
                to determine the most efficient solution in terms of materials costs, range of adjustment, etc.,  
                that will satisfy the desired accommodation percentage. An alternative use of the optimization  
                technique would be to determine an ‘inverse solution’, i.e., determine the largest accommodation  
                percentage that will satisfy desired materials cost, range of adjustment, etc. The technique might  
                be used by product designers, or by consumers to define a product "wish list".                        |
| 3 – 3:30 p.m. | **Break**                                                                                      |
| 3:30 – 5 p.m. | **Master Track Panel Discussion – Exoskeletons Implementation...The Pros and Cons**  
                Moderator: Joe Wallace, CNA Insurance                                                             |
|             | Exoskeletons are becoming more utilized in industrial, construction and medical work environments  
                to help reduce worker exposure while helping to increase productivity and quality. This session  
                will focus on challenges and successes during implementation of exoskeletons into the workplace.  
                Attendees will be able to see how companies adopted the use of the tools and question the obstacles  
                and challenges.                                                                                 |
### ERGONOMICS IN ACTION

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1:05 – 1:30 p.m.</td>
<td><strong>Ergonomics Regulations in the United States</strong>&lt;br&gt;Gary Orr, OSHA&lt;br&gt;Musculoskeletal disorders (MSDs) account for roughly 1/3 of all non-fatal incidents. The cost of MSDs is as high as 60% of all workers' compensation for some industries. Given the high costs in terms of both life changing injury and compensation, some states have passed regulations that employers must implement to prevent MSDs. These regulations vary from requiring an ergonomics program to the implementation of controls for specific jobs. This session will give US and international attendees an understanding of ergonomics-related requirements for the US and will provide comparisons to ergonomics regulations in other countries.</td>
</tr>
<tr>
<td>1:35 – 2 p.m.</td>
<td><strong>Ergonomics in a Global Company</strong>&lt;br&gt;Allison Stephens, Fanshawe College&lt;br&gt;Salima Ladha, Ford Motor Company&lt;br&gt;Ford Motor Company’s Ergonomics program is a Global program that effectively integrates ergonomic principles into the design of its manufacturing process around the world. It is often challenging to implement cross border programs with different regional requirements, cultural norms and travel distance. Ford has years of experience that will give you insight on how they leveraged the diversity and expertise around the globe to build a world class Global Ergonomics program. Each facility should have a vision of what they want to accomplish from awareness to measured outcomes like injury reduction. These facility goals should align with the Corporate Mission Statement. Corporate goals must address and align with the region differences and diversity. An internal Global metric driven process was the Business Plan Review – BPR. All components of the business from Safety, Quality, Delivery, Cost and Moral created metrics that were tracked. On a rotating basis presentation to directors around the globe were given. Ensuring ergonomics was measured and kept in the forefront of the company. Communication is key to keeping a productive Global Ergonomics team. Sharing of ideas and challenges, along with consistent analysis methods and specifications. The G.R.E.A.T. book – Global Reference of Ergonomic Assessment Tools was developed with that in mind. Communication is key. Weekly tech meetings were used for specification reviews, new technology development and research updates.</td>
</tr>
<tr>
<td>2:05 – 2:30 p.m.</td>
<td><strong>Profitability: How Ergonomics Can Impact ROI in the Construction Industry</strong>&lt;br&gt;Brian Roberts, CNA Insurance&lt;br&gt;The cost of doing business requires employers to examine productivity and efficiencies. The Motion is Money process integrates principles of ergonomics with the concepts of lean construction. The focus of the presentation deals with increasing productivity, enhancing workers efficiency, improving bottom line profitability, and reducing jobsite exposures. The Motion is Money methodology examines how walking, bending, reaching, lifting, lowering and carrying are overlooked and never seen on a jobsite. These movements cost time and money and no one measures these movements. We will discuss how to measure these activities and success stories of reducing labor hours and the cost of completing job tasks and the overall project.</td>
</tr>
<tr>
<td>2:35 – 3 p.m.</td>
<td><strong>$8 Million Payback in Three Years – How the Lear Corporation Did That</strong>&lt;br&gt;Jack Nunes, Lear Corporation&lt;br&gt;The Lear Corporation is a leading supplier of automotive seating and electrical and serves its customers with global capabilities. Headquartered in Southfield, Michigan, they maintain 261 locations in 39 countries around the globe and employ approximately 161,000 employees. Like most large operations, getting approval to invest in a new, enterprise wide ergonomics process took some number crunching. When the value of ergonomics was communicated to management and the return on investment of implementing an ergonomics process using a cloud-based system was demonstrated, the company moved from an expert-based process to a participatory ergonomics approach with union support. This presentation will explain how they standardized their process elements by: • establishing an ergonomics team • providing online ergonomics training in multiple languages • implementing a common musculoskeletal risk assessment tool to be used across their globe sites • engaging their engineers using global ergonomics design guidelines • engaging manufacturing employees in the continuing improvement process • providing an easy-to-share data management system. The results of how Lear improved its overall continuous improvement process and increased productivity, human capital and employee engagement, and efficiency in the amount of $8 million dollars will also be shared.</td>
</tr>
<tr>
<td>3 – 3:30 p.m.</td>
<td><strong>Break</strong>&lt;br&gt;</td>
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<tr>
<td>3:30 – 5 p.m.</td>
<td><strong>Master Track Panel Discussion - Industry 4.0</strong>&lt;br&gt;Moderators: Allison Stephens, Fanshawe College&lt;br&gt;Kelly Hogan, Sandalwood of Canada&lt;br&gt;Industry 4.0 is the name given to the next revolution in manufacturing and production. It has been proclaimed the future of work. From AR/VR and simulation to AI, emerging technologies and Big Data, this leap or journey into the next industrial revolution is fascinating and intimidating. It will change how we work from the front office to the factory floor. As ergonomists we know that the human needs to be considered as work changes, how can we ensure this continues to happen and how can we leverage these activities to further advance ergonomics. Many have written about the need to focus on the human in these changing times. There are articles are warnings of consequences when the human is not considered fully, descriptions of complex system designs and the potential for error. There is a frustrating lack of actionable advice on how to include the human voice in Industry 4.0. This MT we will provide an overview of Industry 4.0 and a collection of ideas for the ergonomics, health and safety community on how to begin involving themselves in the Industry 4.0 movement. This presentation is intended as a call to arms for ergonomists to engage in the design, implementation, and regulation of the future work.</td>
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</table>
### Managing Ergonomics for Work at Home (WAH) Employees

**Hank Austin, NL Austin Consultants LLC**

USAA has over 40,000 employees with more than 4,000 working from homes across the United States. Program obstacles have included changes in management personnel, constant justifications, potential legal roadblocks, and the logistics of providing services and equipment to home-based workers in just about anywhere USA and sometimes very remote locations. While the program works well, there are constant challenges and opportunities for improvement. USAA was awarded IBM’s Top 13 Ergonomics Programs in the US and was the first recipient of the Center for Office Technology Outstanding Office Ergonomics Program award.

### Computer-based Prompts' Impact on Postural Variability and Sit-Stand Desk Usage: A Cluster Randomized Control Trial

**Greg Garrett, The Boeing Company**

Sit-to-stand workstations have been deployed in office environments to reduce sedentary behavior and improve worker’s health. However, efforts to initiate and sustain long-term usage of sit-stand workstations has been a challenge, with primarily anecdotal evidence suggesting many employees cease using their sit-stand workstations once the newness diminishes. To objectively determine sit-stand workstation usage and what impact computer-based prompts would have on sit-stand desk use and sustainability, 200 office workers (118 control and 82 treatment) in two different geographic locations were continuously monitored over a 4½ month period, which consisted of a 6-week baseline and a 3-month experimental period. During the 3-month experimental period, computer-based prompts elicited a 229% increase in daily standing transitions which was sustained over the entire 3 months with 40% of the participants adhering to a pre-determined sit to stand schedule. These findings indicate that the use of computer-based prompts can be used to motivate employees to change their behavior regarding the use of sit-to-stand workstations.

### A Sneak Peek at Revisions to BIFMA G1 as it Transitions to an ANSI Standard

**Teresa Bellingar, Haworth; Lucy Hart, ergoCentric Seating Systems**

BIFMA G1 Ergonomics Guideline for Furniture Used in Office Workspaces Designed for Computer Use has been in the marketplace since 2002. Revisions to the most recent edition, BIFMA G1-2013, are well underway including transition to an ANSI standard. Learn about the implications of moving from a guideline to a standard, changes to the chair measuring technique, updates to the anthropometric data and anticipated changes to seating and work surface dimensions and their impact on existing and new furniture. Find out about a new appendix that will provide recommendations for large occupants between 300 and 400 lbs.

### Hand-Held Technology – It’s Worse Than We Thought

**Tim Pottorff, QP3 ErgoSystems**

We know the use of hand-held technology has detrimental physical effects such as upper extremity and neck disorders. This talk will present findings showing how the use of hand-held technology presents risks much worse than ergonomics-related hand/wrist or neck disorders, including speech delays in toddlers, sleep deprivation, social isolation, adolescent spinal deformities, significant increases in car crash fatalities, and significant increases in pedestrian accidents—incuding those involving both vehicles and pedestrians. This is a critical issue not only from a worker injure perspective, but for the whole of society due to the effects on young people and children. We will also evaluate steps that can be taken to reduce the negative impact of improper use of handheld technology, and steps that have been taken by some governing bodies to address the issue.

### Master Track Panel Discussion - Role of Ergonomists Amid the COVID-19 Crisis

**Moderator: Ben Zavitz, Ergo Human Performance LLC**

As we bring employees back into the workplace after an event such as COVID-19, a hurricane hit, a catastrophic event to the working facility, there is going to be a lot of reconfiguration. These reconfigurations are likely to apply both in the office and in the factory setting. Employers are following CDC, OSHA, and/or EPA guidelines to put controls in place around social distancing, physical dividers, one-way path of travel etc. How do these impact how people work? What, if any, are the ergonomic challenges? Is the role of the ergonomist restricted to helping work from home workers in a less than ideal setup? How do increased cleaning duties at work and increase demands on the respiratory systems from wearing a mask apply to ergonomics? How can the ergonomist be most effective in helping to bring people back to work after possibly being sedentary? Are your project teams, who are “rethinking/redesigning” the new business norm, considering prevention through design strategies and proper ergonomic design in these new ventures up front?
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**Applied Ergonomics Society (AES)**

AES, the Applied Ergonomics Society, is a worldwide resource dedicated solely to the support of the ergonomics profession and individuals involved with improving workplace performance, quality, sustainability and employee availability. AES provides knowledge, training, and networking opportunities to enhance the skills and effectiveness of the ergonomics professional.

**Bionic Lift LLC**

Bionic Lift LLC is the US Distributor of the Skelex 360, a lightweight, wearable, non-powered, upper-body Exoskeleton with an innovative carbon-fiber FlexFrame. The Skelex 360 has high ergonomic wearability without limiting freedom of movement while also reducing muscular-skeletal strain when working overhead, holding tools or with arms extended. Ideal for assembly, construction, maintenance, mechanical and other trades.

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**Board of Certification in Professional Ergonomics (BCPE)**

The non-profit Board of Certification in Professional Ergonomics provides internationally recognized, comprehensive, professional certification for human factors/ergonomics/user experience practitioners. BCPE is the primary source of credentialed practitioners, providing employers and consumers an independent verification of competency and knowledge they are working with a professional who has met a rigorous standard.

**BodyBilt by ErgoGenesis**

Our life’s work is to put you in the best possible position to do yours. Manufactured by ErgoGenesis, BodyBilt seating and workplace solutions have long exemplified the evolution of ergonomic thinking. This year we proudly introduce three new ergonomic products: Next24, Pendum, and Midback Aircelli. Stop by and see us!

**Caster Connection**

Caster Connection’s team of veteran experts will exhibit ergonomic caster, wheel, and mobility solutions for visitors’ toughest challenges. Stop by for tips on reducing downtime in your facility by eliminating employee ergonomic injury and product failure, and learn about our push/pull collaboration with The Ohio State University Spine Research Institute.

**Center for Occupational and Environmental Health (COEH)**

The Center for Occupational and Environmental Health Continuing Education presents the Online Ergonomics Training Program, consisting of six, eight-week online courses. Ideal for learners with a degree in a related field, these asynchronous, instructor-led courses are designed to provide expertise in core competencies required for CPE Certification by BCPE.

**The Center for Occupational and Environmental Health (COEH)**

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Berkeley, CA 94720
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coeh.berkeley.edu
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EASE Council
The EASE Council, a division of the MHI (Material Handling Industry) is a trade association of 18 manufacturers of material handling equipment which offer solutions that provide better human results and increased productivity to the ergonomic challenges in the industrial workplace.

EASE Council
8720 Red Oak Blvd.
Charlotte, NC 28217-3992
P: (704) 676-1190
www.mhi.org/ease

Ekso Bionics
Ekso Bionics is a leading developer of exoskeleton solutions that amplify human potential. During Applied Ergonomics Conference, Ekso Bionics will be demoing the EksoVest – an upper body exoskeleton that elevates and supports a worker’s arms to assist them with tasks ranging from chest height to overhead.

Ekso Bionics
1414 Harbour Way South, Suite 1201
Richmond, CA 94804
P: (510) 984-1761
eksobionics.com

Enviance
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www.Enviance.com

Ergo Advantage Inc.
Ergo Advantage is North America’s leading manufacturer of modular ergonomic PVC matting. For 25 years our tiles have been improving industrial employee comfort and safety. They have the best warranty and environmental footprint on the market. We pride ourselves on exceptional product quality, incomparable service, and long-term value to customers.

Ergo Advantage
630 Glenary Cres.
Fergus, ON, Canada N1M 3E2
P: (519) 791-4989 | F: (519) 843-1982
www.ergoadvantageinc.com
**The Ergonomics Center**
The Ergonomics Center is a client-based organization housed in the College of Engineering at North Carolina State University. The Center’s highly experienced, board-certified ergonomists provide the highest quality ergonomics consulting, training programs and research for companies throughout the world. Our services include onsite training, job and task analysis, program development, engineering design guidelines, and cost-saving solutions for both industrial and office ergonomics.

**ErgoScience**
ErgoScience helps employers decrease work-related musculoskeletal strains/sprains and slips, trips and falls. We provide pre-hire and return-to-work Physical Abilities Testing, Job Analysis, Ergonomic Assessment, Worksite Early Intervention/Rehabilitation and employee education and training. Come by our booth to see a demo of our new grip sensor gloves for job analysis.

**ErgoScience**
201 Office Park, Suite 150
Birmingham, AL 35223
P: (205) 879-6447 or Toll free: (866) 779-6447
www.ErgoScience.com

**Ergotron**
Ergotron uses movement to improve how people work, learn, play and care for others. With a focus on healthcare, education, general office and custom solutions, we rely on human-centered design principles and the technology of movement to build environments that help people thrive. Our products remove limitations to support healthier, more productive environments for life and work. Ergotron is moving you forward.

**Ergotron**
1181 Trapp Road
Eagan, MN 55121
P: (800) 888-8458
www.ergotron.com/en-us

**Flokk (HÅG)**
HÅG Capisco is a design icon inspired by a horseback rider’s posture. Its pioneering saddle seat and unique shape offers endless ways to sit or half stand. This encourages you to vary your positions. It is perfectly suited to any table height. We also will feature HÅG Futu and HÅG SoFi.

**Flokk (HÅG)**
62 Seville Road
Madison VA, 22727
P: (855) 821 5270

**Goldtouch**
Goldtouch offers ergonomic solutions designed to increase productivity, employee satisfaction and ROI, while decreasing RSI’s, workers comp claims, and absenteeism. Goldtouch products range from ergonomic wired and Bluetooth keyboards, to wired and wireless ergonomic mice, as well as numeric keypads, wrist rests, laptop stands, and our EasyLift Sit/Stand Desk Converter.

**Goldtouch**
1320 Arrow Point Drive
Bldg. 1, Suite 101
Cedar Park, TX 78613
P: (512) 259-5688
www.Goldtouch.com

**HealthPostures**
HealthPostures provides ergonomic workspace solutions designed for a workforce increasingly tied to computers and desk. Since 1998, HealthPostures has been an industry leader in promoting the long-term benefits of increasing movement in the workplace. HealthPostures products are designed with outstanding ergonomic features and are proudly made in the U.S.A.

**HealthPostures**
16801 Industrial Circle SE
Prior Lake, MN 55372
P: (952) 873-3266
www.healthpostures.com

**Hamilton Caster & Mfg. Co.**
Hamilton Caster manufactures industrial casters and wheels with capacities from 150 lbs. to 40,000 lbs. Popular models are stocked for same-day/next day shipment. Hamilton gladly engineers custom solutions for special applications. Hamilton also manufactures a complete line of industrial carts and trailers, with capacities from 1,000 lbs. to 100,000 lbs.

**Hamilton Caster & Mfg. Co.**
1637 Dixie Highway
Hamilton, OH 45011-4087
P: (888) 699-7164
www.HamiltonCaster.com

**HammerLink**
Empower employees to do their best work. HammerLink is a global SaaS company providing cloud-based solutions for Health, Safety, Environment and Sustainability digitization, data analysis, and reporting. With intuitively designed features, HammerLink enables companies to create a safer, more sustainable workplace. Visit our booth to see how HammerLink provides a simple and affordable solution.

**HammerLink**
P.O. Box 763
Burlington, VT 05402
P: (802) 658-7173
www.HammerLink.com

**HealthPostures**
HealthPostures provides ergonomic workspace solutions designed for a workforce increasingly tied to computers and desk. Since 1998, HealthPostures has been an industry leader in promoting the long-term benefits of increasing movement in the workplace. HealthPostures products are designed with outstanding ergonomic features and are proudly made in the U.S.A.

**HealthPostures**
16801 Industrial Circle SE
Prior Lake, MN 55372
P: (952) 873-3266
www.healthpostures.com

**Ergoweb LLC**
Ergoweb offers flexible cloud-based software for companies of any size. Use our tools to help your employees navigate the world of ergonomics. Our platform is agile and adaptable. With our resources, you can streamline management reporting, and improve your employee’s lives and work environments. Ergoweb can help make your job easier.

**Ergoweb LLC**
P.O. Box 2353
Carefree, AZ 85377
P: (888) ERGOWEB (888-374-6932)
www.ergoweb.com
**Kensington**

Kensington is a leader in desktop and mobile device accessories, trusted by organizations around the world for over 35 years. Kensington products empower people to be more productive and create content at the highest levels. In both desktop and mobile environments, Kensington's extensive lineup of award-winning products provide trusted security, desktop productivity innovations, and ergonomic well-being.

**Kensington**
1500 Fashion Island Blvd., 3rd Floor
San Mateo, CA 94404
P: (650) 267-2664
www.kensington.com

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**Kinetica Labs Inc.**

No markers, no sensors, no suits...you just need a smartphone or digital camera. Kinetica Labs harnesses the power of computer vision and machine learning to help you assess ergonomic risks. You video a worker, review the worker’s skeleton and calculate ergonomic scores with commonly used ergo tools.

**Kinetica Labs Inc.**
1600 Huron Parkway
Ann Arbor, MI 48109
P: (734) 355-6014
http://kineticalabs.com/solutions.motion-capture-app

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**K-Tec**

K-Tec (Kinetic Technologies) engineers and manufactures material handling carts, equipment and solutions focused on ergonomics and safety. Ensuring that your employees are operating within company ergo zone and safety guidelines, from push-pull limits to lifting, rotating and elevating, K-Tec has a solution for you.

**Kinetic Technologies**
1350 Rockefeller Road
Wickliffe, OH 44092
P: (440) 943-4111 | F: (440) 943-4777
www.ktecinc.com

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**kybun USA**

kybun standing mats and shoes are a simple way to improve workplace ergonomics and provide comfort while reducing fatigue and sick leave absences. Swiss made from a multi-component polyurethane material, both place the foot in a dynamic motion that strengthens muscles and improves balance and coordination.

**kybun USA**
14300 N. Northsight Blvd, Suite 102
Scottsdale, AZ 85260, USA
P: (480) 687-9060
www.kybun.us

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**Lean Factory America LLC**

For over five years Lean Factory America has represented some of the finest ergonomic equipment companies in the world. These include lifters from Orgatex and Howmand along with compact tuggers fromMovexx. These devices help reduce or eliminate ergonomic injuries from bending, lifting, and pushing/pulling. Stop by our booth to see how we can help with your challenging applications.

**Lean Factory America LLC**
816 E. 3rd Street
Buchanan, MI 49107
P: (888) 674-2839
www.leanfactoryamerica.com

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**Levitate Technologies Inc.**

The Levitate AIRFRAME™ is a wearable, lightweight technology engineered to improve upper extremity musculoskeletal health in professionals and skilled trade workers who engage in repetitive arm motion and/or static elevation of the arms. The AIRFRAME™ lowers exertion levels by up to 80% - keeping workers healthier and more productive, while mitigating healthcare and disability costs.

**Levitate Technologies, Inc.**
9540 Waples St., Suite F
San Diego, CA 92121
P: (858) 668-5381
www.levitatetech.com

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**LifeBooster Inc**

LifeBooster is doing the heavy lifting to make the challenging work of professional ergonomic assessments easier. Our Senz technology is an extensible platform that digitizes, automates and scales proven ergonomic standards. Personal wearable sensors make the exacting measurement and analysis of motion data dynamic to better determine levels of risk.

**LifeBooster Inc.**
400-610 Main Street
Vancouver BC
V6A2V3
Canada
P: (206) 898-8520
lifebooster.ca

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**Loctek/FlexiSpot**

At Loctek/FlexiSpot, we’re passionate about bringing healthy movement to the modern workplace and home, and strive to create new, innovative ways to stay active in our increasingly sedentary lives. From desk bikes to voice-controlled height adjustable desks, experience the workplace of the future, today! Join the movement at flexispot.com!
EXHIBITORS

Logitech
Logitech designs products that have an everyday place in people's lives, connecting them to the digital experiences they care about. More than 35 years ago, Logitech started connecting people through computers, and now it's a multi-brand company designing products that bring people together through music, gaming, video and computing.

Logitech
7700 Gateway Blvd.
Newark, CA 94560
P: (510) 795-8500
www.logitech.com

Mark-10
Mark-10 force gauges and testing kits help ergonomists with job task analysis and muscle strength testing. A selection of implements accommodate a wide range of push and pull requirements, up to 500 lbf / 2,500 N of force. Mark-10 products are designed and manufactured in the USA.

Mark-10 Corporation
11 Dixon Ave.
Copiague, NY 11726
P: 888-MARK-TEN; (631) 842-9200
www.mark-10.com

MEGAComfort
MEGAComfort is an innovative work-life wellness solutions company for the workplace. We provide clinically proven and field-tested footwear accessories including ergonomically designed, anti-fatigue insoles and orthotics with patented dual-layer memory foam technology, to proactively combat pain and fatigue. MEGAComfort's work-life wellness solutions are created to maximize employee engagement, motivation, and productivity in a cost-effective way.

MEGAComfort
14351 Myford Road, Suite 220-F
Tustin, CA 92780
P: (949) 387-7159
megacomfort.com

Modjoul Inc.
Modjoul is a data analytics company that utilizes a wearable device, The Modjoul SmartBelt, to capture employee movement metrics. Data from SmartBelt is streamed real time to an online dashboard for employees and supervisors. Our mission is to improve the safety record of every company by providing data and actionable insights to eliminate employee injuries.

Modjoul Inc.
105-2 Sloan Street
Clemson, SC 29631
P: (864) 722-9760
www.modjoul.com

O’Mara Sprung Floors
O’Mara Sprung Floors, USA-manufacturer of ergonomic flooring since 1996. Industrial anti-fatigue floors with a 70% shock-absorption rating reduce injury caused by working on hard and unsupportive surfaces, while increasing employee energy and productivity levels. Resilient panels with industrial finishes are suitable for high-traffic areas; patented system allows for easy installation and reconfiguration. Custom configurations available.

O’Mara Sprung Floors
3116 Eugene Street
Burton, MI 48519
P: (810) 309-9025 | F: (810) 743-2303
www.antifatiguefloors.com

Personal Positioning Technologies LLC
The Human Hoist Power Shop Chair eliminates bending, stooping and crawling. Save money by reducing injury, improving productivity and increasing quality. Retain skilled workforce while enhancing worker experience. Position your worker to the work. Eliminate injuries leading to opioid dependence. Human Hoist is a product of Personal Positioning Technologies LLC. Made in the USA!

Personal Positioning Technologies LLC
1655 Tech Drive
Bay City, MI 48706
989-843-3020
www.humanhoist.com

PPS UK
Pressure Profile Systems Inc.’s TactileGlove features tactile pressure sensing elements embedded throughout the palm and fingers, enabling natural hand use and high-resolution pressure mapping for product development, ergonomics research, and OSHA compliance. Our second product, Wrist-Aid MD, is a discrete non-invasive orthotic that actively relieves symptoms of carpal tunnel syndrome.

PPS UK
Inovo, Suite-H.
121 George St.
Glasgow G1 1RD
SCOTLAND
P: +44 141 559 7150
www.pps.us

PHS West Inc.
Ergo-Express® Motorized carts and tugs are a safe and efficient solution for moving heavy materials, equipment and supplies. With any of our motorized products, one staff member can safely perform the same task that may currently take multiple trips or multiple staff members.

PHS West Inc.
6704 Bleck Drive
Rockford, MN 55373
P: (763) 498-7576 | F: (763) 498-8128
www.phswest.com

PHS West Inc.
7700 Gateway Blvd.
Newark, CA 94560
P: (510) 795-8500
www.logitech.com
**RFM Seating**
For nearly 40 years, RFM Seating has created fully customizable, ergonomic seating for a healthy and productive workforce. Whether you need seating that can keep up with a 24-hour shift or fill the executive board room you will find one of the largest selections of ergonomic chairs available.

**Roemheld**
Roemheld provides products to create ergonomic workstations for light/medium duty assembly. Our products are used as building blocks to create a customized workstation capable of lifting, tilting, rotating and moving your work-piece during the assembly process. By optimizing the part position, human effort is minimized and part quality is optimized.

**SRI-Ergonomics, The Ohio State University**
SRI Ergonomics, part of OSU’s Spine Research Institute, offers comprehensive ergonomics technical assistance services to companies and organizations nationwide. These include quantitative evaluations of work activities, training courses by our ergonomics experts (both at the university and on-site), and applied research projects related to ergonomics issues of concern to practitioners.

**SelectFlex**
SelectFlex® is the world’s first ARCH-ADJUSTABLE Orthotic Insole providing relief from Flat Feet, Plantar Fasciitis, Lower Extremity Fatigue and Joint Pain. Our proprietary PowerLift Arch™ dynamically lifts and uncompresses the arch delivering:
- CORRECTIVE RE-ALIGNMENT and ENERGY RETURN to the body
- Up to 50% Greater ANKLE STABILIZATION
- (3) SELECTABLE COMFORT LEVELS

**TEA Ergo**
TEA ERGO Inc. is a high tech company developing software and wireless sensors for the measurement and analysis of human behavior. We assist companies to prevent organizational hazards and academic laboratories in their research by providing the most comprehensive ergonomics assessment tool available on the market. Visit us at booth 506.

**Texas A&M University Ergonomics Center**
The Texas A&M ErgoCenter will be expanding its reach at AEC. We’ll showcase opportunities in the areas of consulting, education and research. We’ll discuss recent findings and projects and talk with booth goers as to how we may be able to help them improve worker safety and health.

**University of Michigan Center for Ergonomics**
Ergonomic job analysis and design software developed by the University of Michigan Center for Ergonomics will be explained and demonstrated. Information will be available about continuing education and academic training opportunities in ergonomics and other occupational health and safety sciences.

**Working Concepts**
We design and manufacture ergonomic knee protection, standing mats and other custom products. Our products are Soft Knees no strap knee pads, Ergo Kneel Kneeling Mats, Extreme Standing Mats for standing without pain and Stop a Ladder.
Making your workplace safer.

IISE is committed to improving the design of systems, jobs, machines, products and various workplace exposures. With the new **Applied Ergonomics Society (AES)**, IISE members can work together to build a safer workforce. Join us as we revolutionize the ergonomics profession and expand on the important lessons shared at the Applied Ergonomics Conference year after year.

Be part of the movement to apply ergonomics principles and improve workplaces to meet the vision of an efficient and safe work environment.


www.iise.org/AES
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New Orleans, Louisiana