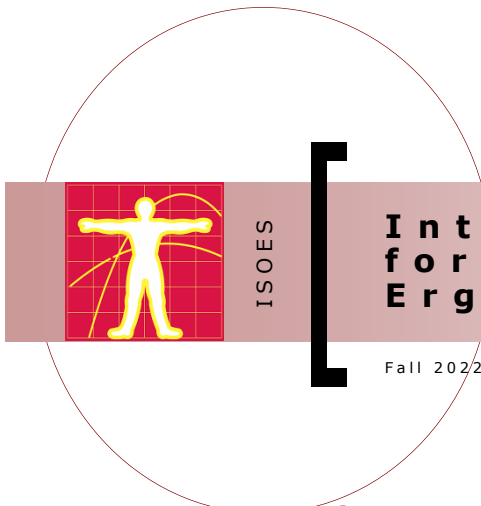


Mark your calendar
 The 2023 ISOES Conference will be held in cooperation with **SISE** in **Munich, Germany** on **October 9th-10th 2023**. Stay tuned for details...



International Society for Occupational Ergonomics and Safety

Fall 2022 Newsletter

Letter from the President

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Dr. Marc Snell
 PhD, Eur.-Erg.
 ISOES President 2022-2023

This year marks the 37th in the history of ISOES. In this long history we have seen 32 previous presidents, many of which share high notoriety in the fields of ergonomics and health and safety. The mission of ISOES continues to be "to promote through research, education and sound professional practice of ergonomics and safety, the creation of safer, healthier and more productive working environments around the world". This mission has been reached over the past years thanks to the help of our amazing executive committee. Dr. Richard Wyatt is our current president elect for the coming year, and has made significant contributions to ISOES in his past position as secretary. We welcome back Dr. Anoop Desai from Georgia Southern University who is taking over the position of secretary. Dr. Desai has previously served on the EC. Dr. Anand Iyer is a long-standing

member of the EC, serving as treasurer for over a decade. We value his continued contributions to the society. Oddly, I can further name myself in the position of newsletter editor and webmaster for the past 5 years. The ISOES EC is pleased to welcome back Dr. Gabriel Ibarra-Mejia from The University of Texas at El Paso as our new member at large. As a recent president of ISOES, and the initiator of the Outreach & Research Programs, his past contributions will help inform our future path. Further, we have Mr. George Page. With many years of practical industry experience, Mr. Page is an invaluable member of the EC. Dr. Jaejin Hwang is an Assistant Professor in Industrial and Systems Engineering Department at Northern Illinois University and one of two international members at large. His students are frequent contributors to the ISOES conference. Finally, we have Anthony Udemba, a current Ph.D. candidate and researcher at The Ohio State University-Columbus Ohio. Anthony recently was awarded the ASSP Foundation Scholarship Award. The final but biggest acknowledgement goes to Mr. Steve Fleming, our past president from the last year. His dedication and effort has left ISOES as strong as ever. What an honor to serve as president with such an experienced and distinguished executive committee.

The 2022 ISOES conference has been one of the most successful to date, with two notable speakers, and 18

presentations from researchers, students, and industry experts from around the world. The conference proceedings, including the assignment of DOI (Digital Object Identifiers) to all papers should be done before the end of the year. We were also pleased to announce Mobashira Zaman as the winner of the student award for 2022, with her paper entitled "Effects of Virtual Hands on Physical Demands and Task Performance for Typing in Virtual Reality". Both the conference itself and the student award are just some of the benefits that ISOES provides, and we continue to rely on the support of our members to provide these regular meetings and fabulous benefits. To that end, I can only encourage you to update your membership. ISOES continues to work on the honor-system, meaning we do not send annoying messages regarding your memberships. We further hope you will help spread the word about ISOES; to either a colleague, friend, or anybody who may be interested in our mission. We look forward to a productive and successful 2022-2023 executive committee term!



Steve Fleming
BSE, MBA, CPE, CXL
ISOES President 2021-2022

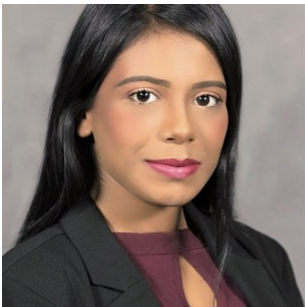
The past year was filled with successes for the practitioners, academics, and students who call the ISOES home. The 34th annual ISOES conference was held on September 15th and 16th with 18 research presenters and 2 distinguished keynote speakers. This was our third year hosting a completely free online conference. Those who

attended had the opportunity to hear from Mr. Gary Orr, OSHA Directorate of Enforcement Programs on day one, and from Ms. Raina Shah, Applied Safety and Ergonomics, A Rinkus Company on day two. Both presentations yielded great questions from the audience and the subsequent conversation was appreciated by all. The immense value of publishing a peer-reviewed paper and receiving a unique DOI number for online publication prompted interest from authors from around the globe; The ISOES received abstract submissions from Canada, Estonia, India, Indonesia, Panama, Paraguay, Portugal, Ukraine, and the United States. The EC also worked diligently with authors to succeed in the goal of finalizing the conference proceedings before November 2022. The dedication of a few has resulted in benefits for many. Thank you so much to the 2021-2022 Executive Committee: Marc Snell, Clarence Ro-

drigues, Richard Wyatt, Anand Iyer, Priyadarshini Dasgupta, George Page, Jaejin Hwang, and Udemba Chiemezie Anthony.

As past president for the 2022-2023 term, I pledge to outline and memorialize some of the ISOES Executive Committee processes that have been put into place and refined over the years. The hope is that we can take advantage of some of the efficiencies that are available to us through the past efforts of those who have worked to maintain the ISOES's status as a premier professional organization. The goal is not to subjugate the EC to the ways of the past, but to create more space for innovation and to afford the EC more opportunities to pursue new ideas while adding even more value to membership in our society. I am eagerly anticipating another great year ahead for the ISOES!

Student Award Recipient 2022



Mobasshira Zaman
Ph.D. Student
Northern Illinois University

I am a second-year Ph.D. student of industrial and systems engineering at Northern Illinois University. My interest in occupational ergonomics began when I was working as an industrial engineer for Singer Bangladesh Ltd. manufacturing plant. I observed the application of optimization for direct costs; however, the indirect cost-creating factor, like occupational safety, did not prevail. This scenario made me realize my thirst to work in workplace ergonomics. After joining the Ph.D. program under Dr. Jaejin Hwang's supervision, I started working on ergonomics and human factors projects. I was working as a graduate research assistant for a national science federation-funded project on mixed reality use

for learning for children, which made me realize that mixed reality is our future.

My initial motivation was based on the fact that virtual reality is becoming popular in different industries and being introduced in the workplace. Text entry is becoming a crucial factor during various work. The research I presented at the ISOES conference was evaluation of the effects of virtual hands in a virtual reality environment on physical demands and task performance during typing tasks. Although many researchers focused on studying effective methods of typing while using a VR headset, performance-wise, the best option was to use conversational keyboard typing. Past studies evaluated based on the performance of the typing, but my study focused on evaluating the effect of hand visibility in VR-keyboard typing from a biomechanical perspective. I conducted the research for biomechanical evaluation of hand representation for virtual reality typing under the supervision of my advisor Dr. Hwang for my master's thesis. My long-term goal is to work to reduce the adverse effect of technology use in day-to-day life, evaluating and analyzing

the biomechanical cause and effect of existing and new innovative gadgets (Virtual Reality, Augmented Reality, etc.), and developing ideas to use these gadgets to cope with digitalized society effectively. This project was the beginning of my research on workplace ergonomics evaluation.

I am overjoyed that my research idea and work were chosen for the best student award, and I am grateful to the panel members for providing me with this opportunity. This award will not only boost my confidence but also promote the evaluation of workplace gadgets from a biomechanical standpoint. From product design to maintaining appropriate work posture, biomechanical evaluation is necessary. As a result, this award will broaden the scope by showcasing the importance of biomechanics in human-machine interfaces. Finally, I'd like to thank Dr. Jaejin Hwang for his guidance and Chandra Sekhar Verma Alluri for his assistance in data collection for this study.

"My long-term goal is to work to reduce the adverse effect of technology use in day-to-day life"





(L to R) Steve Fleming, George Page, Richard Wyatt, Mark Hansen, and Clarence Rodrigues



(L to R) Steve Fleming, Lawrence Schulze, and Clarence Rodrigues

By James Borchardt
ISOES Emeritus Member

George Page, ISOES Member at Large, was successful in gathering several ISOES Presidents at the ISOES Booth in Chicago's McCormick Place Convention Center during ASSP's Safety 2022 Conference and Expo. Steve Fleming, 2021-22 ISOES President; Clarence Rodrigues, 2020-21 ISOES President and Richard Wyatt, ISOES'

25th President/2022-23 President Elect explained the ISOES Mission to hundreds of Safety & Health Practitioners, Students and Academics. They provided them information and encouraged them to participate in the 2022 ISOES "Virtual" Conference in the September. Our society was warmly received by the Expo attendees, including Mark Hansen, 2002 - 03 President of ASSP and 2005

ASSP Fellow among his many contributions.

Steve and Clarence also thanked ISOES' 18th President Lawrence Schulze for stopping by the booth to share stories of past contributions to the Safety and Health profession such as Larry's guidance as ASSP's Gulf Coast Chapter President and educator at the University of Houston to name a few.

