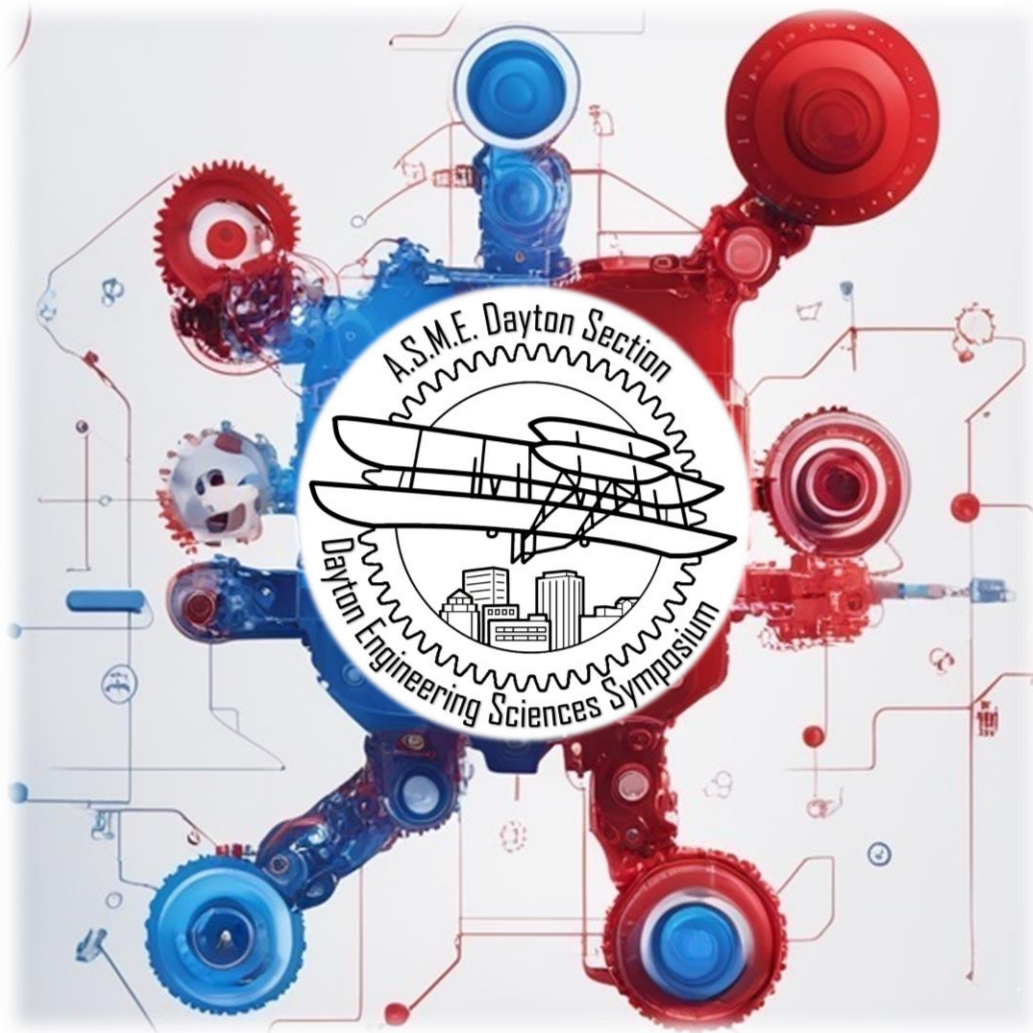


Dayton Engineering Sciences Symposium



**University
of Dayton**



**WRIGHT STATE
UNIVERSITY**



UDRI
UNIVERSITY
of DAYTON
RESEARCH
INSTITUTE



Hello All,

On behalf of the Organizing Committee, we would like to welcome you to the 16th Annual Dayton Engineering Sciences Symposium (DESS). Sponsored by the Dayton Section of the American Society of Mechanical Engineers (ASME) and hosted by the University of Dayton. This symposium is expected to facilitate communication between local and regional scientists, engineers and students by providing a forum for presenting the latest technical research, sharpening technical presentation skills, and creating outstanding opportunities for networking.

The theme for this year's symposium is Artificial Intelligence. The keynote presentation "AI in Engineering Education - The Here and Now and the Future: Discussions and Demonstrations" will be delivered by Dr. Kevin Hallinan, AI Education Consultant & Director of Impact Mining, Synota.io. In addition, there will be multiple parallel sessions featuring technical presentations and posters spanning a broad range of topics in science, technology, and engineering.

To ensure that all attendees have up to the minute schedule information, and to be environmentally friendly, we have opted to include the detailed schedule as a scannable QR code. The QR code will take you directly to the online schedule with all session, talks, and presenter information. Please see the next pages for the QR code, basic overview of the day, and facilities maps.

We hope the return of this symposium allows us to continue highlighting engineering and science productivity in the greater Ohio region. It would not have been possible without the continued support and active participation of all speakers, session chairs, sponsors, students, faculty, government and industry representatives, organizing committee, and the ASME Dayton Section Executive Board. We thank each and every one of you for your dedicated and committed contributions.

Megan Reissman
Symposium Chair

DESS Committee

Chair – Megan Reissman
Past Chair – Timothy Reissman
Technical Program Chair – Rydge Mulford
Conference Website & Registration Chair – Tim Leger
Sponsor Relations – Sivaram Gogineni, Sean Cahill
Venue Coordinator – Timothy Reissman
Government Relations – Carl Tilmann
ASME Dayton Section Chair – Tim Reissman
ASME Dayton Section Treasurer – Tim Leger

Session Chairs

Timothy Reissman, UD
Katie Opacich, NCR
Robert Lowe, UD
Mitch Wolff, WSU
Rydge Mulford, UD
Jackson Godsey, UAK
Allison Kinney, UD
Samuel Atchison, AFIT
Kevin McHugh, AFRL

Schedule Overview - for detailed schedule scan the QR code



8:30 AM	-	Shuttle service from U Lot begins
9:00 AM	-	Registration and Breakfast open
9:20 AM	-	Podium Session 1
10:20 AM	-	Coffee Break
10:30 AM	-	Podium Session 2
11:15 AM	-	Poster Session KU Ballroom
11:45 AM	-	Lunch Buffet KU Ballroom
12:00 PM	-	Welcome remarks
12:10 PM	-	Keynote starts
1:10 PM	-	Dismissal remarks
1:15 PM	-	Podium Session 3
2:00 PM	-	Break
2:10 PM	-	Podium Session 4
3:20 PM	-	Last bus to U Lot departs

Keynote Speaker

Dr. Kevin Hallinan

"AI in Engineering Education - The Here and Now and the Future: Discussions and Demonstrations"

**AI Education Consultant &
Director of Impact Mining, Synota.io**



AI is here. It's certain that employers are increasingly demanding student preparation for AI Engineering skills. But, the response by universities has been relatively slow. This talk will showcase the way that AI is being used now for education and the impact it has had on students and faculty. For students its use has included AI supported learning experiences, AI tutoring, AI career and life mentoring, AI supported design and other experiential projects. Educators have employed it to design learning experiences, creative experiential learning opportunities for students, design assessment rubrics, provide tutoring to students, and even grading.

The future, while not completely certain, almost certainly will be such that students will be able to take far greater ownership of their learning. It also will require that students be capable of 'engineering' AI integrated systems.

Dr. Kevin Hallinan currently works as an AI Educational Consultant - helping K-12 schools in the Dayton city and primarily local universities and colleges integrate AI into their education. Through Synota.io he is also working to enable investment in AI supported education in sub-Saharan Africa. Previously, he served 36 years at the University of Dayton as a Professor in Mechanical and Aerospace Engineering in various roles, including serving as Department Head for 12 years, and as the founding Director for the Renewable and Clean Energy Master's program.

Second Floor Diagram



Third Floor Diagram

