

Program Director of Materials Science

and Engineering, Baylor University

6:00 p.m. - 9:50 p.m. November 15, 2024

Galloway Building, Room 118, 1904

crosses physics-based constitutive models in commercial software to predict and design microstructures and

mechanical behavior of materials under various loading conditions. This session will feature presentations on

the development of advanced constitutive models for materials and their application in engineering design.

Establishing the Digital Twin for Design and Simulation of Mechanical Systems

6:00 p.m.

use of advanced modeling and simulation techniques to create digital twins of mechanical systems, enabling

designers to predict system behavior and optimize performance before physical testing. This session will

highlight the latest advancements in digital twin technology and its application in mechanical design and

simulation. Key topics include data integration, model validation, and the use of digital twins for

design optimization and predictive maintenance. This session is intended for researchers, engineers, and

service industries. The event is presented by the American Society of Mechanical Engineers (ASME) and

the International Society for Digital Manufacturing (ISDM). For more information, please visit the event

website at <https://www.asme.org/conferences-and-exhibitions/2024-digital-twin-for-design-and-simulation>.

The event is free of charge. Registration is required. Space is limited. Register now to secure your spot.

The event is presented by the American Society of Mechanical Engineers (ASME) and the International Society for Digital Manufacturing (ISDM).

For more information, please visit the event website at <https://www.asme.org/conferences-and-exhibitions/2024-digital-twin-for-design-and-simulation>.

The event is free of charge. Registration is required. Space is limited. Register now to secure your spot.

The event is presented by the American Society of Mechanical Engineers (ASME) and the International Society for Digital Manufacturing (ISDM).

For more information, please visit the event website at <https://www.asme.org/conferences-and-exhibitions/2024-digital-twin-for-design-and-simulation>.

The event is free of charge. Registration is required. Space is limited. Register now to secure your spot.

The event is presented by the American Society of Mechanical Engineers (ASME) and the International Society for Digital Manufacturing (ISDM).

For more information, please visit the event website at <https://www.asme.org/conferences-and-exhibitions/2024-digital-twin-for-design-and-simulation>.

The event is free of charge. Registration is required. Space is limited. Register now to secure your spot.

The event is presented by the American Society of Mechanical Engineers (ASME) and the International Society for Digital Manufacturing (ISDM).