This Symposium will showcase the latest intersectional research in the fields of Additive Manufacturing, Performance and Tribology, highlighting the powerful research capabilities of Rice University’s new AMPT Center. The agenda includes plenary sessions as well as separate technical tracks in each field. The Symposium will also introduce the AMPT Center membership model and how corporate and institutional members can help set the strategic direction of AMPT research.

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ABOUT AMPT
The Additive Manufacturing, Performance & Tribology (AMPT) Center is a collaborative, multidisciplinary research unit that leverages the deep expertise of Rice engineering faculty to rapidly solve the fundamental problems facing industry 4.0 — the companies driving the Fourth Industrial Revolution that is changing how people work and live, and how products are produced and consumed. The AMPT Center will broadly impact the way engineering systems and devices having surfaces in relative motion are manufactured, monitored, and maintained over their lifetimes.

The core competencies of the AMPT Center — additive manufacturing, advanced materials processing, tribology, and tribomechadynamics — underpin the Fourth Industrial Revolution of production. The AMPT Center brings Rice and industry researchers together to use numerous tools to advance the performance of Industry 4.0 technologies, including artificial intelligence, the internet of things (machines, sensors, and the big data they produce), augmented/virtual reality, and multiphysics simulations-based engineering. The AMPT Center is also preparing the Industry 4.0 product-manufacturing and engineering workforce.

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