INAUGURAL
AMPT SYMPOSIUM

launching the **Additive Manufacturing, Performance & Tribology (AMPT) Center** at Rice University

AUGUST 15 - 16, 2019

RICE UNIVERSITY

HOUSTON, TEXAS

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.

REGISTER AT AMPT.RICE.EDU

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 .**

AMPT CORE FACULTY

C. FRED HIGGS III

John & Ann Doerr Professor of Mechanical Engineering
Dir., Rice Center for Eng. Leadership

MATTHEW BRAKE

Mechanical Engineering

ZACK CORDERO

Materials Science & NanoEngineering

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