

# The School of Electrical and Computer Engineering

# DISTINGUISHED SEMINAR SERIES

# 2021

The Distinguished Seminar Series of the School of Electrical and Computer Engineering (ECE) presents the work of internationally recognized researchers. This seminar series is intended to provide an open platform for the faculty & students to have a dialog with leading researchers in various fields of ECE, and to build a dynamic and vibrant culture of research and academic exchange in the ECE department. All seminars are free and open to the public.

## ECE



**Dr. Matthew Perry**

General Manager of  
Silicon and Hardware  
Systems, Microsoft  
Azure Hardware  
Division

## Advanced Hardware Technologies of the Microsoft Azure Platform and their Impact on AI and Edge Computing

3:00 p.m. Friday, October 22 | ATRC 102

**Abstract:** Computing at planetary scale pushes the boundaries of semiconductors and computing architectures as we know it today. To address these challenges, we have entered a renaissance era where advanced computing technology development becomes essential to deliver the hardware system platforms to run tomorrow's workloads. These renaissance advancements will come through multiple potential technologies such as increased security, dramatically larger storage, quantum computing, reconfigurable computing fabrics, AI acceleration and a host of other hardware technologies. Dr. Perry will provide a glimpse into some of the advanced technologies being worked on in Microsoft Azure.

**Speaker Bio:** Dr. Matthew Perry is an Oklahoma State University alumni with three degrees in Electrical Engineering. He last graduated from OSU with his Ph.D. in 1991, where he focused on signal processing, system theory and mathematics. Dr. Perry has over 35 years of industry and academic experience, spanning three different areas: first in defense, then semiconductors, and finally hyperscale hardware and software systems. He is currently the general manager of silicon and hardware systems for Microsoft's Azure Hardware Division where he is developing next generation data center silicon/hardware solutions with emphasis on artificial intelligence, computation and intelligent edge. **Due to his significant professional accomplishments over the past 35 years, Dr. Perry will be inducted into CEAT's prestigious Hall of Fame on Saturday, Oct. 23, 2021.**

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