



TEXAS TECH UNIVERSITY
IUCRC CLOUD AND AUTONOMIC COMPUTING CENTER



DEPARTMENT OF COMPUTER SCIENCE
WHITACRE COLLEGE OF ENGINEERING

HIGH PERFORMANCE COMPUTING CENTER

Introduction to Lancium– Co-locating Computing Resources with Low-Cost Energy Sources

By Michael McNamara
Co-Founder and CEO, Lancium

Date: April 24th, 2019 (Wed.)

Time: 10 a.m.-11 a.m.

Venue: ESB (Experimental Science Building) 120 (Seminar Room)

Abstract:

Lancium is a new company focused on solving power over-generation problems caused by the growth of renewable energy. The company makes very special data centers that are designed to co-locate directly at renewable facilities and draw load when power prices are low (or when power would otherwise be wasted/grounded) and spin down when power is unavailable or expensive. By their design, these data centers have no UPS, HVAC or redundant systems. Power and thermal control is achieved by dynamically managing individual servers. Lancium's data centers are the world's lowest cost on both an installed and operating basis. This cost advantage allows the company to offer extremely low cost computing solutions for any parallel computing application. These data centers include advancements in electrical, thermal and software engineering which are covered by over a dozen patent filings. By consuming renewable energy that would otherwise be wasted, Lancium data centers enable a faster transition to a carbon neutral power grid.

Speaker Bio:

Michael McNamara is the Co-Founder and CEO of Lancium. He is an entrepreneur and private investor with deep experience in the power, energy and technology industries. Previously, Michael covered energy and resources at a number of multi-billion dollar buy side institutions. Michael graduated from Georgetown University magna cum laude with degrees in Finance and Accounting.



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