Praxair Seminar Series

A Campaign of Experimentation for Cyberspace Operations

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Abstract: Cyber security as a work domain and commercial sector is relatively new, but has been maturing rapidly over the past 20 years. Cyberspace operations, on the other hand, are synchronized military activities to identify, degrade and/or deceive threat actors in cyberspace. Cyberspace operations are inherently dynamic due to changing technology and tactics of malicious actors. Recent increases in the number and scale of cyber incidents have illustrated the need for improved coordination across the Cyber Mission Force as well as accelerated technology transition. This presentation describes how cognitive engineering can inform and catalyze technology development through a campaign of experimentation. Examples from recent work and recommendations for future work and employment will be provided.

Bio: LTC Stoney Trent, Ph.D. is a Cognitive Engineer, Army Cyber Officer and the Chief of Experimentation at US Cyber Command. He has 22 years of experience in operations and intelligence assignments, and his research has focused on team cognition in mission command, intelligence and cyber operations. He directs the Cyber Immersion Lab, which is a US Cyber Command activity that develops and assesses cyber capabilities.

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