

COLLOQUIUM

Cyber-Informed Engineering

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Cyber risk is an emerging factor to be considered in engineering design and risk analysis. Traditional engineering analysis considers risk applied to functionality, safety and security of operations, however, cyber risk is typically considered outside of and often after the primary engineering design process. Cyber informed engineering (CIE) is a body of knowledge and methodologies to characterize and mitigate risks presented by the introduction of digital technology in this formerly analog environment, focused on the application of traditional engineering techniques informed by an awareness of cyber-security threat and mitigation methods. This talk will describe how managers and engineers can participate in mitigating cyber-security risk in engineering projects throughout the design and installation life cycle.