

## Nuclear Engineering Seminar

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**Wednesday, November 29, 2017**

**3:30pm | WTHR 200**

#### **Radiological Emergency Preparedness**

**"The future belongs to those who prepare for it."**

##### **Abstract**

This presentation will be a discussion on the past and future of radiological emergency preparedness (EP) as it pertains to the U.S. Nuclear Regulatory Commission's mission to protect the health and safety of the public. The regulatory history and philosophy of EP will be presented, and a regulatory framework for the future—one that envisions small modular reactors and other new technologies—will be discussed. An informative look into the research underway to support enhancements to radiological emergency preparedness and response will be presented.

Todd Smith is an Emergency Preparedness Specialist in the Office of Nuclear Security and Incident Response at the US NRC. As a member of the Policy and Oversight Branch, he develops emergency preparedness policies, regulations, and guidelines for licensed facilities and conducts related research to advance the state-of-the-practice in radiological emergency preparedness and response. Prior to joining the NRC, Dr. Smith served in the United States Navy as a Submarine Warfare Officer, including assignments as Naval Reactors Lead Engineer for Advanced Reactor Digital Instrumentation & Control (I&C), Engineering Department Head, and Special Assistant for Radiological Emergency Planning at Submarine Group 10 in Kings Bay, GA. He graduated from Purdue University with a Doctorate in Nuclear Engineering, specializing in thermal-hydraulics and reactor safety.