Northeastern

Department of Civil and Environmental Engineering &
Department of Mechanical and Industrial Engineering

Distinguished Seminar Series

Research Opportunities in Infrastructure Management and Extreme Events (IMEE) at the National Science Foundation

David Mendonca
IMEE Program Director
National Science Foundation, Arlington, VA

Wednesday, April 20th, 2016
12pm-1pm
300 Richards Hall

Abstract

For more than forty years, the National Science Foundation's (NSF), Infrastructure Management and Extreme Events (IMEE) program has supported basic research on societal planning, mitigation, response and recovery in the context of hazards and disasters. In the last ten years, the program has grown strongly multidisciplinary, with core contributions from engineering, social science, and computing sciences, among other areas. This talk describes the program and identifies established and emerging research themes, methods and data within it. Also addressed are current, related research opportunities at NSF. Ample time will be made available for discussion.

Bio

David Mendonca directs the Infrastructure Management and Extreme Events (IMEE) Program at the National Science Foundation (NSF). He is an Associate Professor in the Industrial and Systems Engineering Department at Rensselaer Polytechnic Institute. He is a member of INFORMS, IEEE and the Cognitive Science Society.

David Mendonca, PhD

Program Director, Infrastructure Management & Extreme Events
NATIONAL SCIENCE FOUNDATION

Associate Professor, Industrial and Systems Engineering Dept.
RENSSELAER POLYTECHNIC INSTITUTE

Education

- **PhD, Decision Sciences and Engineering Systems,** *RENSSELAER POLYTECHNIC INSTITUTE*
- **MS,** *CARNEGIE MELLON UNIVERSITY*
- **BS,** *UNIVERSITY OF MASSACHUSETTS-AMHERST*

Research Interests

- **Cognition in high stakes, time-constrained decision making**
- **Post-disaster emergency response & restoration**
- **Use of statistical & computational models**

Selected Service and Accomplishments

- **Disaster Management Simulator**
- **Instructor,** *Human performance modeling and support: applications in competitive sports*
- **Member, INFORMS, IEEE, and the Cognitive Science Society**