

# NUCLEAR PLANT SAFETY COURSE

Live Virtual @MIT

## Course Synopsis:

Covers safety and regulatory issues of operating and planned nuclear reactors in the U.S. and other countries.

**Our Speakers** are the current authorities on nuclear power plant technology, operations, safety, and regulations from industry, government, and universities. They will provide authoritative answers in their technical fields, though their opinions are their own.

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## Topics:

- Operating/new reactor safety and licensing
- Risk-informed operations
- Spent fuel storage management
- Cybersecurity
- Life extension of operating reactors to 80 years
- International perspectives on reactor safety
- High performance fuel
- PWR and BWR materials issues
- Seismic safety

## Learning Objectives:

- Describe safety and regulatory issues of operating nuclear reactors in the U.S. and other countries.
- Assess new safety developments, such as risk-informed operations, life extension, and advanced fuels.
- Examine advanced reactors and their design & safety.
- Understand fuel storage issues and licensing of spent fuel repositories.

## Who Should Attend:

Degree-holding engineers/scientists with some knowledge of nuclear technology, interested in safety design, construction, operation, or regulation of nuclear plants.

## 2023 NPSC SPEAKERS

### NATIONAL LABORATORIES

**Dr. Robert BUDNITZ**, Staff Scientist (retired), Energy Geosciences Division, Lawrence Berkeley National Lab., University of California

### VENDORS

**Dr. Christer DAHLGREN**, Manager, Light Water Reactor Plant Integration Engineering, GE-Hitachi

**Mr. Zeses KAROUTAS**, Chief Engineer Nuclear Fuel, Global Tech. Office, Westinghouse Electric Co.

**Dr. Luca ORIANI**, VP Plant Engineering & Licensing, Westinghouse Electric Co.

**Dr. Kent WELTER**, Chief Engineer, NuScale Power

### ACADEMIA

**Dr. George APOSTOLAKIS**, MIT Professor Emeritus and Head, Nuclear Risk Research Center, Japan

**Prof. Ronald G. BALLINGER**, Nuclear Science and Engineering and Material Science and Engineering(Emeritus), MIT

**Dr. Sacit CETINER**, Research Scientist, MIT Nuclear Reactor Laboratory

**Dr. Charles FORSBERG**, Principal Research Scientist, Exec. Director, MIT Nuclear Fuel Cycle Project, Director and PI, Fluoride Salt-Cooled High-Temperature Reactor Project, MIT

### UTILITIES

**Ms. Suzanne LOYD**, Senior Manager, Constellation Energy

**Mr. Tom MITCHELL**, Chairman, World Association of Nuclear Operations (WANO)

### NUCLEAR ENERGY AGENCY (NEA)

**Ms. Véronique ROUYER**, Head Nuclear Safety Technology Regulation, NEA

### NUCLEAR ENERGY INSTITUTE (NEI)

**Mr. Douglas TRUE**, Senior VP and Chief Nuclear Officer, NEI

**Dr. Jennifer UHLE**, VP Generation & Supply, NEI

### REGULATORY

**Dr. Richard MESERVE**, Former Chair (retired), Nuclear Regulatory Commission (US NRC)

**Dr. Mirela GAVRILAS**, Director, Nuclear Safety Systems, (US NRR)

**Mr. William RECKLEY**, Sr. Project Manager, Advanced Reactor Program (US NRC)

**Dr. Douglass MILLER**, Sr. Project Officer, Canadian Nuclear Safety Commission (CNSC)

**Ms. Andrea KOCK**, Deputy Office Director for Engineering, Office of Nuclear Reactor Regulation (US NRC)

### CONSULTANTS

**Dr. Dennis C. BLEY**, President, Buttonwood Consulting, Inc.

**Dr. Andrew KADAK**, Kadak Associates Inc., Former CEO of Yankee Atomic

**Dr. Joy REMPE**, Principal, Rempe & Assoc. LLC

## COURSE DIRECTORS



**Emilio BAGLIETTO**  
Professor of  
Nuclear Science and Engineering



**Benoit FORGET**  
Department Head  
Nuclear Science and Engineering



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