

Course Directors



Emilio BAGLIETTO
Associate Head/
Professor of Nuclear
Science and Engineering



Benoit FORGET
Department Head
Professor of Nuclear
Science and Engineering

Course Synopsis:

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

Who Should Attend:

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

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.

2026 NPSC SPEAKERS

NUCLEAR ENERGY AGENCY (NEA)

Ms. Véronique ROUYER Head of the Nuclear Safety Technology and Regulation Division, NEA

NUCLEAR ENERGY INSTITUTE (NEI)

Mr. Marc NICHOL, Senior Director, New Reactors, NEI

Dr. Jennifer UHLE, VP Technical & Regulatory Services, NEI

NATIONAL LABORATORIES

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

REGULATORY

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

Mr. Craig ERLANGER, Director, Nuclear Security and Incident Response, (US NRC-NSIR)

Mr. Anders GILBERTSON, Sr. Project Manager, Advanced Reactor Program (US NRC -NRR)

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

Mr. Mike FRANOVICH, Deputy Office Director for Engineering, U.S. Nuclear Reactor Regulation

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, President, Long-term Operations, Westinghouse

Dr. Kent WELTER, 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, Former Chair, World Association of Nuclear Operations (WANO)

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