

Course Directors



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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.

2024 NPSC SPEAKERS

NUCLEAR ENERGY AGENCY (NEA)

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

NUCLEAR ENERGY INSTITUTE (NEI)

Mr. Douglas TRUE, Senior VP and Chief Nuclear Officer, NEI
Dr. Jennifer UHLE, VP Generation & Supply, 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)

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

Anders GILBERTSON, 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)

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

Ms. Julie GORGEMANS, Director, Advanced Passive Technology Deployment, Westinghouse Electric Co.

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)

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