

NUCLEAR PLANT SAFETY COURSE

Live (Synchronous), 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 the design, construction, operation, or regulation of nuclear plants.

2021 NPSS SPEAKERS

NATIONAL LABORATORIES

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

VENDORS

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

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

Dr. Jose REYES, CTO NuScale Power

CONSULTANTS

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

Dr. Douglas CHAPIN, Principal, MPR Associates, Inc. (Emeritus)

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

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

ACADEMIA

Prof. Ronald G. BALLINGER, Nuclear Science and Engineering and Material Science and Engineering, MIT

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

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

NUCLEAR ENERGY AGENCY (NEA)

William D. MAGWOOD, IV, Director General of the OECD Nuclear Energy Agency, 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 NRO)

Mr. Marcel DE VOS, Sr. Project Officer, New Major Facilities Licensing Division, Canadian Nuclear Safety Commission (CNSC)

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

UTILITIES

Marri MARCHIONDA-PALMER, Site VP, Exelon Generation Company

Mr. Tatsuhiro KOBAYASHI, Tokyo Electric Power Co. Holding

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

COURSE DIRECTORS



Emilio BAGLIETTO
Associate Professor of
Nuclear Science and Engineering



Michael SHORT
Associate Professor of
Nuclear Science and Engineering

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