BWR OPERATIONAL CHEMISTRY
TRAINING | SEPTEMBER 14TH - 18TH, 2026

INSTRUCTOR | Leah Whiteker – *Associate*



Leah has over 18 year's of experience in the nuclear industry. She joined Structural Integrity in 2024 after serving in her previous role as a Senior Chemist a Xcel Energy's Monticello Nuclear Generating Plant. In that position, Leah led several significant projects for the chemistry department, including the EPRI inline HPGE smart chemistry pilot, the replacement of the online reactor water ion chromatograph, and the installation of the groundwater remediation demineralizer. Additionally, she managed the fuel monitoring program and implemented EPRI's mitigation and boiling water chemistry guidelines. Leah has a BS in Chemistry and an MBA.

INSTRUCTOR | Geo Ferru – *Senior Consultant*



Geo Ferru received his Ph.D. from the University of Pierre and Marie Curie (Paris VI) for his work at the French Atomic and Alternative Energies Commission on Separative Chemistry involved in spent fuel recycling processes. After 2 postdocs on similar themed Research projects at Washington State University (WA, USA) and Argonne National Laboratory (IL, USA), Geo joined the nuclear industry at the Byron Nuclear Station as Instrument Chemist for 4 years. He then transferred to Peach Bottom Atomic Power Station, where he was Instrument Chemist and then Unit Chemist for a total of 5 years. Geo gained experience and knowledge in all chemistry aspects of BWR plants, including analytical chemistry, radiochemistry, OLNC, HWC, BWRVIA, MCO, zinc injection, and day to day operations. He also interfaced closely with Engineering and Maintenance departments for outage preparation and execution and conducted complex troubleshooting work related to chemistry. Recently, Geo joined SIA as a Senior Consultant, working on various Chemistry related projects to support the Nuclear Industry.

COURSE DESCRIPTION

This course provides practical, hands-on information and techniques for personnel responsible for operational chemistry analysis, corrosion prevention, and system diagnostics. Attendees are encouraged to bring plant data for group discussion and analysis. Common topics will be covered as well as reactor coolant chemistry and radiochemistry, condensate chemistry, balance of plant chemistry, demineralizer and filtration performance, start up and shutdown chemistry, corrosion concerns, and data evaluation techniques.

WHO SHOULD ATTEND

Chemists and Engineers who desire a practical knowledge of Boiling Water Reactor operational water chemistry. This core course is designed for chemistry personnel that have a basic understanding of plant operation and plant systems, focusing on the essentials of reactor water, condensate and processing equipment used in BWR water chemistry operations.

EVENT DETAILS

Event Date: *Monday September 14th - Friday September 18th, 2026*

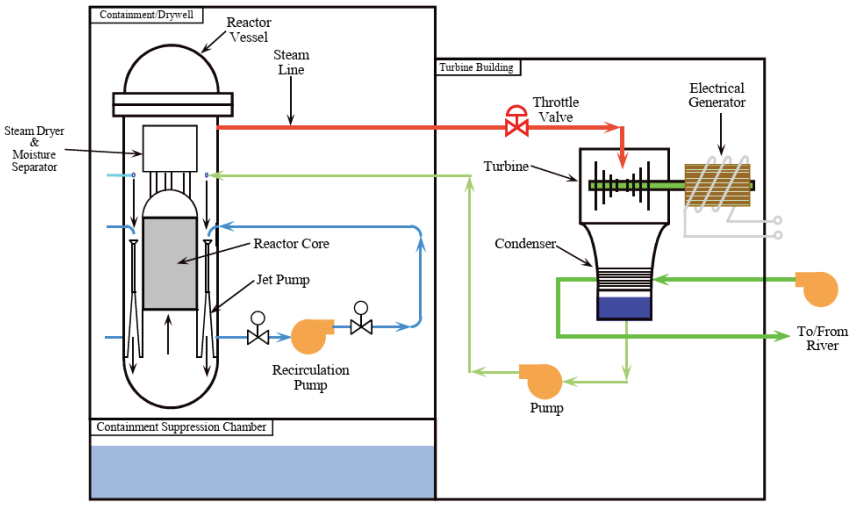
Daily Duration: *8:00 a.m. to 4:30 p.m.*

Individual Price: *$2,700 (Includes snacks and lunch)*
Includes BWR Operational Chemistry Handbooks

Location: ***KKL Nuclear Power Plant***
Eigen, 5325 Leibstadt, Switzerland

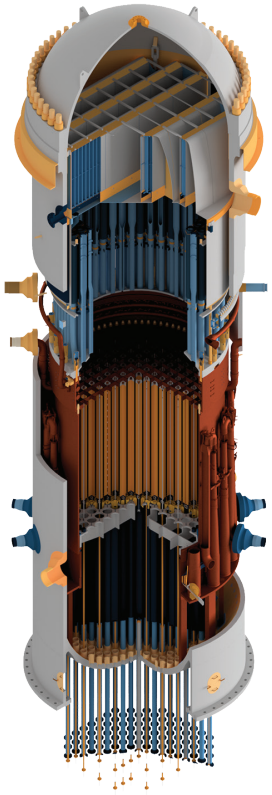
REGISTRATION

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COURSE TOPICS

- BWR Plant Design, Systems, and History
- Materials and Corrosion Fundamentals
- BWR Chemistry Basis Programs and Documents
- BWR Water Chemistry Fundamentals and Instrumentation
- Electrochemical Corrosion Potential and Intergranular Stress Corrosion Cracking
- Hydrogen Water Chemistry Regimes and Noble Metals
- BWR Radiation Field Source Term
- Moisture Carryover
- Chemistry Sampling Fundamentals
- Chemistry Impurities
- Ion Exchange Fundamentals
- Condensate Polishing and Reactor Water Cleanup Systems
- Mass Balances and Transients
- Fission Products and Fuel Defects
- Drywell Leakage Monitoring
- Condenser Leakage
- Plant Chemistry Casualty Scenarios



REGISTRATION

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