



Dr. Joy Rempe

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Dr. Joy Rempe has over 35 years' experience in the areas of reactor safety and instrumentation performance. Prior to retiring as a Laboratory Fellow from the Idaho National Laboratory (INL), she founded an instrumentation development and deployment laboratory, which supported irradiation testing in U.S. and international facilities. During her tenure at INL, she also led numerous severe accident research efforts for U.S. and international organizations, including post-accident inspection and analysis efforts to support the Three Mile Island Unit 2 Vessel Investigation Program and efforts to investigate in-vessel retention in advanced light water reactors. As Principal of Rempe and Associates, LLC, Dr. Rempe provides consulting assistance to U.S. and international organizations.

Dr. Rempe has authored or co-authored numerous peer-reviewed journal publications, book chapters, technical reports, peer-reviewed conference papers, and invited presentations on reactor safety, severe accident phenomena, high temperature testing, and in-pile instrumentation. She is an inventor/co-inventor of four patents (one patent winning an R&D 100 award). Dr. Rempe received NRC and Organization for Economic Cooperation and Development (OECD) recognition awards for achievements accomplished in the OECD TMI-2 Vessel Investigation Project; and in 2011, she was awarded the DOE Secretarial Honors Award for her contributions in the US response to the events at Fukushima. Dr. Rempe is a Fellow in the American Nuclear Society. Since 2010, she has been a member of the U.S. NRC Advisory Committee on Reactor Safeguards (since 2022, she is their Chairman). Previously, she was Co-chair of the U.S. DOE Nuclear Energy Advisory Committee, Chair of the ANS Thermal Hydraulics Division, a Member of the ANS Board of Directors, and Honorary Chair of the 18th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-18). She holds MS and PhD degrees in Nuclear Engineering from the Massachusetts Institute of Technology and a BS degree in Nuclear Engineering from the University of Missouri – Rolla.