

Jose March-Leuba



Ph.D. in Nuclear Engineering: University of Tennessee, 1984
M. S. in nuclear engineering: University of Tennessee, 1982
Universidad Politécnica de Valencia (Spain), 1978

- Joined the Oak Ridge National Laboratory in 1986 as a Senior Development Staff Member.
- Member of the Advanced Nuclear Measurements & Control, Nuclear Science and Technology Division.
- From 1991 – 1992, Dr. March-Leuba was an Adjunct Assistant Professor in the College of Engineering at the University of Tennessee, Knoxville.
- 1985, Research Associate in the College of Engineering at the University of Tennessee, Knoxville.
- 1979 – 1984, Graduate Research Assistant in the College of Engineering at the University of Tennessee, Knoxville, under subcontract with the Oak Ridge National Laboratory.

Dr. March-Leuba has been involved in numerous research projects in the fields of noise analysis and dynamic modeling, including BWR stability measurements, study of reactor internal vibrations, measurement of flow and thermohydraulic parameters, and response time of pressure sensors. He is active in the development and applications of noise analysis techniques for safe reactor operation and is responsible for a number of reactor tests to determine the stability of commercial BWRs. He has developed improved analysis techniques for sub-critical reactivity measurements, and implemented these techniques for automated computer calculations. As part of DOE's HEU Transparency Implementation Program, Dr. March-Leuba has developed and successfully installed instrumentation in Russian facilities to monitor on-line the down-blending of highly-enriched uranium.

He currently serves as Program Manager and principal investigator for BWR dynamics projects for the U.S. NRC/NRR; these projects include planning and performing stability tests, computer audit calculations, and review of topical documents submitted by utilities/vendors. His responsibilities include being in charge of maintaining and upgrading the LAPUR computer code for the U.S. NRC and is task leader for the Instrumentation and Controls Research and Development Task in the Advanced Neutron Source (ANS) program. He has also contributed significantly to the sections of the ANS safety analysis reports.

Dr. March-Leuba has developed a number of PC-based engineering simulators, including a plant simulator for the ANS, a computer model for a liquid H₂ cold source for the HFIR reactor, and a computer simulation of VVER-type reactors for safety analysis of reactivity transients. He has developed two software packages as well; the HFIR network display system (HNDS) and the HFIR alarm monitoring system (HAM), which are used to monitor HFIR status remotely via network connections.

He is a Fellow of the American Nuclear Society and a member of its Thermal-Hydraulics Division Program Committee. Dr. March-Leuba also serves as reviewer for Nuclear Science and Engineering,

Nuclear Engineering and Design, Nuclear Technology and as a member of the Technical Program Committees for national and international conferences for which he has organized and chaired numerous sessions.

He is the author and co-author of over 170 publications, journal articles, conference proceedings, ORNL reports, and oral presentations, including testimony before the Advisory Committee on Reactor Safeguards (ACRS) and possesses over 100 citations.