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Wei received his Bachelor's degree (in 1988) and Ph.D. degree (in 1993) in nuclear engineering from Xi'an Jiaotong University, China. After graduation, Wei has worked in the nuclear industry for the past 24 years, at SNERDI, KAERI, EPM, AECL (Candu Energy), and CNSC.

Wei is an internationally recognized expert in reactor physics. Wei served as a Primary Developer and Primary Code Holder in the Canadian reactor-physics Industry Standard Toolset for many years. He was promoted as Section Head at AECL in 2005, and was promoted as Principal Specialist at AECL in 2009, serving as the Technical Leadership Authority and Consultant in Reactor Physics within the company.

Wei is currently an Adjunct Professor at Royal Military College of Canada and Xi'an Jiaotong University, China. Wei is the author of over 100 peer-reviewed journal papers and technical reports, and the designated reviewer of hundreds technical reports and papers. He has been serving as the Guest Editor and designated technical reviewer for many international journals, and is actively delivering lectures and plenary talks on diverse subjects at various courses, schools, conferences, and workshops.

Wei is current CNS Council member and the Plenary Program Chair for the 37th CNS Annual Conferences held at Niagara Falls in June 2017. Wei has been serving as the Technical Program Chair for the CNS Annual Conferences for 4 times in the past 10 years. He also serves on the ANS Standards Committee, and the ANS Reactor Physics Division Program Committee.