

Dr. Wei Shen, Fellow of CNS



- Dr. Wei Shen received his Bachelor degree (in 1988) and Ph.D. degree (in 1993) in nuclear engineering from Xi'an Jiaotong University, China. Wei has been working on both PWR and CANDU industry and regulatory body for over 30 years as an expert on reactor physics and safety & licensing.
- Wei works as Safety and License Program Manager at COG since 2017. Prior joining COG, Wei worked as a Technical Specialist at the CNSC for 5 years, and worked as a reactor physicist at AECL for 14 years and was promoted as the Principal Specialist (the top technical position) in 2009.
- Wei is the Chair of Nuclear Science & Engineering Division of the CNS. Wei also serves as an Adjunct Full Professor with Royal Military College of Canada and with Xi'an Jiaotong University, China.

Ben Rouben, Ph.D., Fellow of CNS



- Ben Rouben holds an Hons. B.Sc. from McGill University and a Ph.D. from the MIT. Ben joined AECL in 1975, where he worked on the design and analysis of CANDU reactors. From 1993 to 2006, Ben served as Manager of the Reactor Core Physics Branch at AECL. He retired from AECL in 2007 February.
- Ben was President of the CNS in 1997-98, and was its Executive Director, 2011-2019. He was elected CNS Fellow in 1999.
- Ben is currently a consultant, and an Adjunct Professor at McMaster and at the Ontario Tech where he teaches various courses on Reactor Physics and Power Plant Operation. He teaches also in the M. Eng. Program offered by UNENE, the University Network of Excellence in Nuclear Engineering, where he also serves as Secretary/Treasurer.

John P.S. Froats, P. Eng.



- John Froats has over 45 years of nuclear industry experience including many plant roles including as a Licenced Shift Manager and the executive role of Chief Nuclear Engineer and VP Engineering and Modifications. He led the CANDU Owners Group as President and CEO and the CSA Nuclear Standards Program as Chair.
- He has taught approximately 2,000 students on subjects including safety culture, nuclear design methods, nuclear safety design and power plant operation.
- John is currently an Associate Professor and Nuclear Engineer in Residence at Ontario Tech University. He remains fully active in the nuclear sector and in educational work in support of the sector.

Ricky Khaloo, MSc. CHP

- Ricky has 3 decades of Radiation Physics, Health Physics, Waste Management and Safety Analyses experience in the CANDU Nuclear industry. He has worked in experimental work at Chalk River, Design and Safety Analyses at AECL-Mississauga and has supported extended CANDU Refurbishment outages in design (since 2005) and through field support (since 2008).
- Ricky is currently a Specialist Health Physicist at Candu Energy Inc. He currently supports Darlington Refurbishment (remotely) and Cernavoda-1 refurbishment preparations. He has also recently been involved with supporting the GEH SMR Darlington project through public dose calculations, spent fuel optioneering and LLW and ILW planning.



Dr. Eleodor Nichita, CNS Fellow



Dr. Nichita is a former president of the Canadian Nuclear Society. He holds a B.S., in Engineering Physics from the University of Bucharest, an M.S. in Medical Physics from McMaster University, and an M.S. in Health Physics and Ph.D. in Nuclear Engineering from Georgia Institute of Technology. After obtaining his Ph.D., he worked for six years in the reactor physics branch at Atomic Energy of Canada Ltd. (AECL) in Sheridan Park where he was part of the RFSP core-simulator development team. From AECL he moved to academia and is currently an associate professor in the Faculty of Engineering and Applied Science at Ontario Tech University where he teaches reactor and radiation physics related disciplines. His research expertise and interests cover computational physics, nuclear reactors, production and use of medical radionuclides, interaction of radiation with matter and general process modelling and simulation.

Dr. David Novog



- Dr. David Novog is an expert in safety analysis methods and uncertainty quantification. He holds an Industrial Research Chair in Nuclear Safety and has been a professor at McMaster since 2006.
- From 1998-2006 he worked at Ontario Hydro, OPG, Nuclear Safety Solutions and AMEC in the areas of reactor physics, thermal hydraulics and reactor trip assessment. Prior to these positions he was a visiting researcher at Mitsubishi Heavy Industries in Japan on their APWR project.
- His current research is focused on experimental and analytic issues related to fuel and fuel channel integrity, severe accident modelling, and applications of machine learning to nuclear safety topics.

Dr. Yujun Guo



- Dr. Guo holds a Ph.D. degree in nuclear engineering. His early career was with academia, as an associate professor at Xi'an Jiaotong University, China, dedicated to R&D on experimental and analytical reactor thermalhydraulics and safety analyses.
- Dr. Guo joined AECL, now CNL, in 2001 as a scientist specialized in experimentation and analysis of CANDU fuel thermalhydraulics. He headed a group of professionals responsible for large-scale CANDU fuel thermal-hydraulic experiments and associated data analysis and model development in support of CANDU reactor design and safety analysis.
- Since 2008, Dr. Guo has been a technical specialist at the CNSC, responsible for technical assessments of CANDU safety in support of licensing.
- Altogether, Dr. Guo has had more than 35 years of experience in reactor design, safety analysis and associated R&D activities.

Dr. Paul Chan



- Paul has 35 years of experience in nuclear fuel, reactor safety and regulatory affairs.
- Paul worked for the Atomic Energy of Canada Limited and Bruce Power as a senior scientist and a manager until 2010.
- Paul is a Professor, a Director of the Analytical Science Group and a Licensed Operator of the SLOWPOKE-2 Facility at the Royal Military College of Canada.
- Paul received many awards and was the past-chair of the Fuel Technologies Division for the CNS. Paul has published over 140 peer-reviewed journal and conference papers since he joined RMC in 2010.

Constantin Banica, BSc, Meng, P.Eng.



- Constantin holds a degree in Engineering Physics (Nuclear Reactors) from University of Bucharest (Romania), and a MEng degree from University of Toronto. He started his career in 1992 at Cernavoda NPP Unit 1 with reactor physics commissioning tests. He led physics commissioning teams for the new Molybdenum irradiation system (Dec. 2022) and full restart at Darlington Unit 2 in 2020, as well as the initial start-up of the Qinshan CANDU units (2002-2003, China). In Canada, he worked for CNUS, AECL, NSS and OPG.
- Constantin wrote reports and papers on start-up physics tests, flux detectors, adjuster aging, etc., and delivered many technical presentations to nuclear professionals.

Dr. Thambiayah (Nithy) Nitheanandan



- Dr. Nithy Nitheanandan is the Director of Reactor Behaviour Division at the Canadian Nuclear Safety Commission.
- Nithy has a Masters and a Doctoral degrees in Mechanical Engineering from University of Manitoba. He joined AECL in 1993 and worked with AECL/CNL for 25 years.
- His area of expertise is Steam-explosion studies, Contact-boiling experiments, High-temperature fuel-channel heat transfer, Pool boiling, Reactor safety and Thermalhydraulics.

Dr. Victor G. Snell



- Formerly Director of Safety and Licensing at AECL-CANDU, Victor managed the industry side of the pre-project regulatory reviews of SES-10, CANDU 3, CANDU 9, the Advanced CANDU Reactor and the Enhanced CANDU 6 reactor.
- He has since consulted for the nuclear industry for both research and power reactors
- He was Program Director of the University Network of Excellence in Nuclear Engineering (UNENE) from 2008-2016, responsible for the joint M.Eng. He delivers the CANDU Safety Design graduate courses for UNENE and for Ontario Tech University. He has written or co-written about eighty public documents on Reactor Safety and Licensing.