

# Ben Rouben, Ph.D., Fellow of CNS

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- 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.

# Dr. Glenn Harvel

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- A Professor at the Ontario Tech University in Oshawa, Ontario, Canada and a licensed professional engineer in the Province of Ontario. Dr. Harvel obtained his PhD in Nuclear Engineering from McMaster University in 1995.
- From 1995 to 2006, Dr. Harvel worked for Atomic Energy of Canada Limited (AECL) in the areas of Operational Thermalhydraulics and Safety, Plant Ageing, and Nuclear Design. He held the position of Technical Design Manager for 4 years working on CANDU and Small Reactor Design (MAPLE) improvements.
- Currently teaching/researching in Nuclear Plant Design, SMRs, Design Safety, Plant Operations and Decommissioning.

# Dr. Wei Shen, Fellow of CNS

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- Wei received his Bachelor degree (in 1988) and Ph.D. degree (in 1993) in nuclear engineering from Xi'an Jiaotong University, China.
- Wei works as Safety and License Program Manager at CANDU Owners Group (COG) since 2017.
- From 2013 to 2017, Wei worked as a Technical Specialist at the CNSC. From 1999 to 2013, Wei worked as a reactor physicist at AECL and was promoted to section Head in Reactor Core Physics Branch in 2005, and 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 domestic and international universities, with over 100 published peer-reviewed research papers.

# Ricky Khaloo, MSc. CHP

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- 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. Markus Piro

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- Markus Piro received his Bachelors and Masters degrees in Mechanical Engineering from Queen's University and PhD in Nuclear Engineering from the Royal Military College of Canada.
- He is currently an Associate Professor at McMaster University. Previously, he was the Canada Research Chair in Nuclear Fuels and Materials at Ontario Tech where he was also the Chair of the Energy and Nuclear Engineering Department. He was also a Section Head at the Canadian Nuclear Laboratories and a Post Doctoral Fellow at the Oak Ridge National Laboratory.
- His areas of expertise are in nuclear fuels and materials, including fuel chemistry, fission product behaviour, fuel performance, and fuel safety.

# Dr. Yujun Guo

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- 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. Alex Viktorov

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- Alex has been with the CNSC, the Canadian regulatory authority for over 25 years, and currently holds the position of the Director General for Power Reactor Regulation, with responsibility for licensing and regulatory oversight of all power reactors in the country.
- Prior to becoming the DG, Alex was involved or led diverse activities and projects within the CNSC, such as relicensing and subsequent execution of oversight at Pickering NPP, regulatory evaluation of safety analysis with particular focus on Best Estimate and Uncertainty methodology, Design Extension Conditions, implementation of Canadian post-Fukushima actions, fuel and containment behavior.
- Before joining the CNSC, Alex was engaged in the research and safety analysis for nuclear facilities.

# Vincent Lau

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- Vincent has 28 years of experience in the CANDU nuclear industry. He has worked on a number of CANDU-6 refurbishment projects, Darlington safety analyses, and Bruce-A restart safety analyses.
- Vincent has in-depth understanding of the shutdown systems design and extensive experience in trip coverage analysis. He leads and provides oversight on safety analysis for various commercial and CANDU 6 development projects, including the resolution of GAIs, CSIs.
- Vincent has in-depth knowledge of Deterministic Safety Analysis methodology, CANDU 6 design and operation, and regulatory standards (a member of CSA N290.15 and CSA N290.19 technical sub-committee). He is also experienced in interacting with CNSC and regulators abroad.



# Dr. Thambiayah (Nithy) Nitheanandan

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- 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

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- Formerly Director of Safety and Licensing at AECL, 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 then 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 delivered 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.