



# CNS UPDATE

## MESSAGE FROM THE PRESIDENT



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Finally, we can see the light at the end of the Covid 19 tunnel. With increased vaccination, life will return to normal and hopefully we will be able to hold in-person events some time in 2022. In the meantime, all the CNS events in 2021 will remain online events. Through these events CNS continues to play an important role by enabling the sharing of scientific knowledge and innovations, and the training of young professionals for the nuclear industry. I urge you to please participate in these events and support your CNS. You can take advantage of substantially reduced fees by becoming a CNS member.

Activities initiated by our Covid 19 Taskforce have been very successful. As part of the website update, we are launching an enhancement of CNS nuclear-education content under the direction of Dr. Jason Donev. There are very positive signs for our industry, increased recognition of nuclear technology as a means to achieve zero-carbon goals, and government funding being made available for new nuclear initiatives.

For more updates visit the CNS website ([www.cns-snc.ca](http://www.cns-snc.ca)), and provide your feedback by e-mail to [cns\\_office@cns-snc.ca](mailto:cns_office@cns-snc.ca).

# CNS POST-COVID-19 TASKFORCE UPDATE

The following updates and summarizes the various initiatives of the Task Force.

- Implementation of X-CD software is now complete
- A Task Force under the Education Committee's work is continuing to: :
  - recommend enhancements of CNS existing courses and plan new ones, in collaboration with UNENE and other organizations
  - review and recommend fair honoraria for CNS course developers and lecturers
  - enhance nuclear-education content on the CNS website
- The CNS website sub committee is making progress on modernizing the CNS website.
- Creation of a CNS promotional Video for use in the CNS booth at events and on the Website is being planned.



## POSITION OF CNS OFFICE MANAGER

There has been an overwhelming response to the posting for the position of CNS office manager. An executive subcommittee is working to interview and recruit the new office manager before the departure of our current office manager, Robert O'Sullivan, in June 2021.

## TRANSPORTING USED NUCLEAR FUEL

NWMO Video

Please watch using the following link

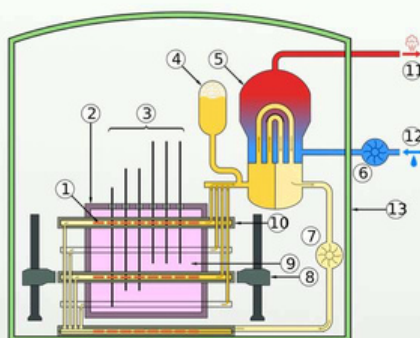
<https://www.youtube.com/watch?v=-Bb4lamaZ-k>

## CANDU REACTOR EXPLAINED IN 5 MINUTES

Please watch using the following link

<https://www.youtube.com/watch?v=YL4FmoTG-iE>

## CANDU reactor



[https://en.wikipedia.org/wiki/File:CANDU\\_Reactor\\_Schematic.svg](https://en.wikipedia.org/wiki/File:CANDU_Reactor_Schematic.svg)

## A CANDU ATTITUDE ON OUR OWN DEVICES

Please watch using the following link

<https://www.youtube.com/watch?v=wzhIAjqDE3o>



The premiers of Ontario, New Brunswick, Saskatchewan and Alberta show the signed their respective copies of the signed memorandum of understanding (MOU) between the provinces to collaborate on SMR development, from the virtual ceremony held, April 14.

Image: Government of Ontario

## Canadian provinces partner on SMRs, release joint study

**Ontario, New Brunswick, Saskatchewan and Alberta sign a Memorandum of Understanding (MOU) to collaborate on SMR development and release a joint study on SMR feasibility**

APRIL 14, 2021 — The premiers of New Brunswick, Ontario, Saskatchewan and Alberta participated in a virtual signing ceremony and have agreed on a memorandum of understanding (MOU) to collaborate on small modular reactor (SMR) development.

The ceremony marked the release of a joint study by members of the CANDU Owners Group (COG), including Ontario Power Generation (OPG), Bruce Power, New Brunswick Power (NB Power), as well as, SaskPower, which finds the development of SMRs would support domestic energy needs, curb greenhouse gas emissions and position Canada as a global leader in clean energy technology.

"It is important that our provinces take these next steps together to continue leading the development of cutting-edge small modular reactors for the benefit of future generations," said Ontario Premier Doug Ford.

The SMR Feasibility Study was one of the deliverables identified in the provincial MOU originally signed by Ontario, Saskatchewan and New Brunswick. The ceremony formally welcomed Alberta as a signatory to the SMR MOU previously signed by the other three provinces in December 2019. The Feasibility Study identifies three streams of SMR project proposals for consideration by the governments of Ontario, New Brunswick and Saskatchewan. The three streams of projects would aim to be ready by the late 2020s and into the early 2030s.

OPG, along with Bruce Power, NB Power and SaskPower, are utilities involved in the COG SMR program, which supports a harmonized approach to SMR development in Canada. Canadian Nuclear Laboratories, also a COG member, participates in COG's SMR program, as well. Additionally, 10 SMR technology development companies participate in COG's SMR vendor participant program.

In collaboration with the Canadian Nuclear Association, COG is part of the Canadian Nuclear Industry SMR Secretariat to track progress against the Government of Canada's SMR Action Plan, released last December. Since release of the Action Plan, several COG members and participants have been involved with [SMR-related announcements and milestones](#).

[Click here](#) to read today's full SMR MOU announcement.

[Click here](#) to download the Feasibility of SMR Development and Deployment in Canada study.

[Click here](#) to read more about Canada's SMR Action Plan and find links to COG and member chapters.

[Click here](#) to visit the COG's SMR Program page.

CANDU OWNERS GROUP

# NEW NUCLEAR POWER DEVELOPMENT AT DNNP - LICENCE RENEWAL

- OPG has renewed planning for potential new nuclear power development at the DNNP site. Nuclear power generation provides safe, reliable baseload low-carbon electricity generation. Nuclear power is a key contributor to Ontario's low-emitting electricity grid, and is considered by many experts, including the International Energy Agency, to be critical to achieving net-zero by 2050. The Canadian federal government considers nuclear essential to net-zero for Canada.
- OPG has included new nuclear generation and Small Modular Reactors in its Climate Change Plan issued in late 2020. One of OPG's first priorities is to renew the existing Site Preparation Licence, the only one in Canada. Using the Darlington site for a new nuclear installation will enable the next generation of grid-scale nuclear power plants in Canada faster than at any other location, enabling faster deployment of this tool in fighting the climate-change crisis.
- In its application, OPG is requesting to renew the Licence "as is". There is no requested increase in scope from the existing licence granted by the CNSC. OPG has not selected a technology at this time, and is not currently seeking approval for construction. OPG will ensure the selected new nuclear reactor technology is within the bounds of the licensing basis for the DNNP PRSL, with detailed demonstration during the subsequent licensing process for the Construction phase of DNNP.
- Since 2012, OPG has been maintaining the PRSL and progressing long-lead regulatory commitments related to the licence and EA, such as bank swallow mitigating measures. OPG has submitted annual reports to the CNSC and a midterm licence report in 2018. These reports provided the status and progress of the DNNP activities and the status of the commitments that OPG made in the DNNP EA, during the Joint Review Panel (JRP) hearing and as outlined in the JRP recommendations, which were accepted by the Government of Canada and documented in the "Darlington New Nuclear Project Commitments Report". OPG has shown that it is progressing on these commitments and their completion is on track per the requirements of the commitment report.
- In support of OPG's original "Application for a Licence to Prepare Site", OPG undertook extensive studies, assessments and consultations with Indigenous communities and stakeholders to complete the site evaluation studies and develop OPG's Environmental Impact Statement (EIS), for the DNNP EA. The site evaluation studies concluded that the DNNP site is suitable for a new nuclear plant. The EA was completed and concluded that the project is not likely to cause any significant adverse effects, provided the mitigation measures proposed and the commitments made by OPG are implemented. The JRP, consisting of representatives from the CNSC and the Canadian Environmental Assessment Agency, accepted the DNNP EA.

# NEW NUCLEAR POWER DEVELOPMENT AT DNNP - LICENCE RENEWAL (CONT'D)

- The CNSC requires the site evaluation information to assess the licence application for the facility's lifecycle as part of the Application for a licence to prepare site. In support of the PRSL renewal, OPG completed a review of the DNNP site evaluation in accordance with its DNNP PRSL Renewal Plan, which addressed the following:
  1. Regulatory Document REGDOC-1.1.1, Site Evaluation and Site Preparation for New Reactor Facilities, requirements and guidance which included:
    - a. Review of Original Application materials against REGDOC-1.1.1 requirements and guidance and addressing of identified gaps. REGDOC-1.1.1 superseded the previous RD-346 and expanded the scope to include small reactor facilities using a graded approach along with introducing new requirements.
    - b. Review of current codes, standards and practices referenced in the licensing basis and those associated with CNSC REGDOC-1.1.1.
    - c. Update and review of selected baseline data associated with the site.
  2. Indigenous engagement on PRSL renewal.
  3. Public engagement on PRSL renewal.
  4. Review of the management system that governs site preparation activities.
- To support its application, OPG prepared and submitted detailed Licence Renewal Activity Reports (LRARs) (also publicly available on [OPG.com](http://OPG.com)) and a Site Selection Threat and Risk Assessment, to further support the 10-year licence renewal application. The findings documented in the LRARs (along with the results from items 1 and 4 above) were reviewed and documented in the Aggregate Assessment Report. OPG has demonstrated through the Aggregate Assessment Report (see [OPG.com](http://OPG.com)) that the existing licensing basis remains valid for the next licensing period with the mitigating actions which have been added to the DNNP Commitments Report.
- With respect to items 2 and 3, OPG conducted a clause-by-clause review of REGDOC-3.2.1, "Public Information and Disclosure" and REGDOC-3.2.2, "Indigenous Engagement", to ensure compliance of OPG's relevant management system documents with these regulatory documents. Relevant documentation and governance has been updated to remove one minor gap with respect to the Public Information and Disclosure standard. No gaps were identified with respect to OPG's Indigenous Relations Policy as it related to REGDOC-3.2.2.

## Conclusion:

The DNNP site evaluation and licence application has been reviewed against applicable regulatory requirements, current codes, standards and practices as well as current site baseline data. While changes have been identified and assessed, their resulting impacts are not significant and do not alter the previous conclusion on the suitability of the DNNP site for a new NGS. As such, the DNNP site remains suitable for a new nuclear-generation installation, and OPG's site preparation licenced activities would not pose any unreasonable risk to the public, personnel or environment.

## SHOWING OUR SUPPORT IS THE LEAST WE CAN DO

Doddy Kastanya

*"I alone cannot change the world, but I can cast a stone across the waters to create many ripples"*

Mother Teresa

# NEW NUCLEAR POWER DEVELOPMENT AT DNNP - LICENCE RENEWAL (CONT'D)

For a period of three months from November 12, 2020, through February 10, 2021, Petition e-2962 to the House of Commons was available for signatures. The petition calls upon the Government of Canada to:

1. Uphold its commitments under the Paris Agreement by maintaining and expanding its CANDU nuclear reactor fleet in Canada and abroad; and
2. Continue to support research and deployment of small modular reactors.

In one part of the petition, it states that “Nuclear Energy provides high paying jobs to 60,000 Canadians with a 95% made in Canada supply chain”. Therefore, it is only natural that one might expect that the number of signatures supporting this petition will be in the same order or even higher since those nuclear-energy workers likely have significant others who would benefit from the presence of nuclear industry in Canada. However, when the petition was presented to the House of Commons, a total of 5874 signatures were obtained. This number is less than the number of citizens and residents of Canada who are directly or indirectly involved in or benefited from the application of nuclear energy in Canada.

While it is good to observe that at least the number of signatures obtained are larger than the number of the current active memberships of the Canadian Nuclear Society (CNS), we as a society still have several questions that we should ponder. The first and the most basic question to ask is “did every member of the CNS sign the petition?” We need to show our support to our industry. We are proud to be part of the industry and we work hard every day in our respective fields to support the operation, maintain the performance, and improve the robustness of the operating CANDU stations in Canada. We also need to communicate our pride in this industry to our family, our friends, and our government. Signing Petition e-2962 would have been one avenue to show our pride.

The second question to ask is “why is there a big difference between the number of people working in the nuclear industry in Canada and the number of active CNS members?” As a member of the CNS, each of us needs to be more active in encouraging our colleagues in the industry to become a member. An increased number of memberships will enable the society to expand its programs. It has been challenging to invite people to become a member of the CNS. On one side, people are reluctant to be a member because they think CNS does not offer relevant member benefits; On the other side, it can be difficult for CNS to offer member benefits for a society which is highly diverse in its interests. I do not believe that CNS membership fee is a significant problem since all members in Canada’s nuclear industry are well compensated.

The third and last question to ask is “what else can we do to keep the application of nuclear science and technology flourishing in Canada?” There are many correct answers to this question. Each one of us must have a unique way to contribute to this mission. Once you figure out what it is, do it diligently.



[1] Source: <https://petitions.ourcommons.ca/en/Petition/Details?Petition=e-2962>

## BRUCE POWER COMMITS TO NET-ZERO BY 2027

Bruce Power is continuing to contribute to a Net Zero Canada by 2050 by announcing its commitment to achieve Net Zero greenhouse gas (GHG) emissions from its site operations by 2027.

This makes Bruce Power the first nuclear operator in North America to announce such an ambitious commitment.

“One of the largest emissions-reduction initiatives in a generation – the phase-out of coal in Ontario – was made possible by Bruce Power, and we are building on this leadership role by recognizing that we will be successful in our fight against climate change by leveraging our existing assets as part of our clean-energy agenda”, said Mike Rencheck, Bruce Power’s President and CEO.

Learn more about [Net Zero 2027](#), as well as the [Carbon Offset Co-op\\*](#), which will help fund clean air initiatives in southwestern Ontario.

*\*This initiative is in the early stages of planning to form a co-op in collaboration with various stakeholders and it has not been formally constituted under the Co-operative Corporations Act.*



## CNS SCHOLARSHIP AWARDS 2021

The CNS Scholarship Committee is happy to announce the following recipients of the 2021 CNS Scholarships:

### **Undergraduate Scholarships**

Sam Tchemer, and  
Anita Seyedan.

### **Graduate Scholarships**

Noah LeFrancois, and  
Owen Purdy.

The scholarship recipients were selected from a number of applicants who all have high qualifications.

The Scholarship Committee Congratulates the winners and wishes all the best for all applicants in their career in Nuclear Science and Engineering.



# CNS EVENTS 2021-2022

CNS Events 2021	Date	Venue	Division Chair	Division
CNS Short Course on CANDU Reactor Technology (On-Line) - Part 2	Mar 22-24	Virtual	Wei Shen	NSED
41st Annual CNS Conf & 45th Annual CNS/CNA Student Conf	June 6-9	Virtual		
STORI Workshop - Radio Isotopes, Science, Tech & Safety	May 17-18	Virtual	Chary Rangacharyulu	STORI
CNS Short Course on CANDU Reactor Technology (On-Line) - Part 3	July	Virtual	Wei Shen	NSED
CANDU System Chemistry Course	Sept 26-	Virtual	Mohammad Baghbanan	MCFD
2nd Intl Conf of Materials, Chemistry & Fitness-for-Service Solutions for Nuclear Systems (MCFD-2021)	Sept 27-28	Virtual	Mohammad Baghbanan	MCFD
CWFEST-2021 (Cdn Workshop on Fusion Energy Science and Technology)	Oct/Nov	Virtual	Blair Bromley	FEASTD
G4SR-2 Webinars - bimonthly			Wilson Lam	G4SRT
2nd Symposium on AI, ML and other Innovative Technologies in Nuclear	Oct/Nov		Moe Faedee	NOM
CNS Short Course on CANDU Reactor Technology (On-Line) - Part 1	Nov		Wei Shen	NSED
G4SR Virtual Summit ( in planning)	Nov 15-17	Virtual Summit	Wilson Lam	G4SRT
CNS Events 2022	Date	Venue	Division Chair	Division
CANDU Technology & Safety Course	Mar 21-23	Marriott Courtyard Downtown Toronto	Wei Shen	NSED
42nd Annual CNS Conf & 46th Annual CNS/CAN Student Conf	June	TBD		
11th Intl Conf of Isotopes	June 19-23	TCU Place, Saskatoon	Chary Rangacharyulu	STORI
FSEP	Sept 21-23	TBD		
WM, ER & Decom	Sept	Ottawa Marriott	Parva Alavi	EWMD
Intl Conf on CANDU Fuel	Aug 21-24	Hilton Garden Inn Ajax	Mukesh Tayal Paul Chan	FT
3rd Symposium on AI, ML and other Innovative Generation IV and Small Reactors (G4SR-2) Intl Conf (temporary hold by Delta Hotel,	Oct/Nov		Moe Faedee	NOM
CANDU Maintenance & Nuclear Comp Conf	Nov 13-17	Delta Hotel, Toronto	Wilson Lam	G4SRT
			Nathan Bruns	NOM



# TWO-DAY WORKSHOP ON RADIOISOTOPES

The Canadian Nuclear Society (CNS) is pleased to offer a 2-day workshop on Radioisotopes, conducted by active professionals in isotope research, technology and education. This is an opportunity to learn or brush up the basics of how to understand the nuclear radiations, their usefulness, how to handle them, etc.

- Workshop Title: Radio Isotopes Workshop
- Workshop Day 1: May 17th 2021 10AM - Noon & 1 - 3 PM
- Workshop Day 2: May 18th 2021 10AM - Noon & 1 - 3 PM
- Platform: WebEX Event licensed by CNS. Cisco Webex is optimized for use in most browsers, for those using Chrome you may need to add the Cisco extension to ensure full access to the webinar.

## 1. Who should be interested?

If you are:

- a) a practising or an aspiring technical personnel working with or surrounded by nuclear technologies either in energy, health or other radiation laboratories or industries
  - b) a student pursuing or intending to get engaged in those topics mentioned in a)
  - c) an educator/researcher working in a university/laboratory setting who needs this knowledge to guide your staff/students and you want to brush up for your own sake.
  - d) a policy maker or administrator who advises and/or promotes nuclear radiation materials
  - e) an individual with interest in nuclear radiations for their benefits and/or hazards
- then this workshop will be of interest to you. You may want to encourage your colleagues, other stake holders to participate.

The workshop offering is subject to a minimum of 20 participants. In case of insufficient registration, this workshop will be deferred to a later date.

## 2. Registration

Click Here to Register Now

The registration fees are shown below, and include HST (HST # 870488889RT)

CNS Member: \$200.00 [Must be a CNS member in good standing]

CNS Retiree Member: \$100.00 [Must be a CNS member in good standing]

CNS Full-Time Student Member: Free

Non-CNS Member: \$300.00

Topic	Instructor	Hours of Instruction
The Physics of Radionuclide Production	Dorin Nichita	1-2 hours
Radiation-Matter Interactions	Chary	1-2 hours
Radiopharmaceuticals: Production and Applications	Karin Stephenson	1 hour
Infrastructure, factors affecting yields of Radio isotope production	Andrea Armstrong	1 hour
Radio analytical methods to detect radiation emitters in plant effluents and environmental matrices	Yevgenia Kravtsova	1-2 hours
Radiation protection	Chary	1 hour

For more information please visit our website at <https://cns-snc.ca/events/stori-workshop-2021/>

# G4SR EVENTS

Following the recognized great success of the G4SR-2 Virtual Summit, the G4SR Organizing Committee has continued to make plans for G4SR events.

In view of the ongoing pandemic and the uncertainty with respect to holding large gatherings and the possibility of travel with confidence, the next in-person International Conference, which is being named G4SR-3, has now been postponed to 2022 October 2-6. Put this date in your calendar! G4SR-3 will be held in the Delta Hotel Toronto Airport and Conference Centre, the great venue which we have been planning to use since before the pandemic arrived.

We have started a survey to get feedback and suggestions on the potential participation of the G4SR-3 in-person conference. While the survey responses are coming, based on 120 responses received so far, there is at least 67.5 % of "Likely" participation from the survey. More importantly, we have received great suggestions for the event. Thanks very much for participating in the survey!

Although G4SR-3 is 1.5 years away, we have big plans for this year. We plan to repeat the 2020 success by holding once again an online 2-day G4SR Virtual Summit, tentatively on 2021 November 15-16. The 2021 Virtual Summit will feature Plenary Sessions, as did the first Summit. Planning is underway, please stay tuned for further details in the coming announcement.

Online, free G4SR Technical Webinars will continue until the Virtual Summit. These Webinars will cover topics of great interest.

For 2020, we have archived the recordings and presentations for the G4SR webinars in this link:

[CNS | 2020 G4SR Webinars \(cns-snc.ca\)](#)

For 2021, the G4SR Webinars can be found in this link: [CNS | 2021 G4SR Webinars \(cns-snc.ca\)](#)

We also keep abreast of the important international Webinars on G4SR. Please explore this link for details: [CNS | Important International G4SR Webinars \(www.cns-snc.ca\)](#) .

In order to avoid attendees' webinar fatigue, the Technical Webinars will be presented bi-monthly. One Webinar was held recently, on March 18:

Title: Nuclear-Renewable Hybrid Energy Systems – Special Session on Research at Canadian Nuclear Laboratories

Webinar Date: 2021 March 18

Time: 10:00-11:30 EST (UTC/GMT-5)

The G4SR-2 Technical Program Organizing Committee is pleased to present a technical webinar series with invited speakers from the G4SR-2 technical program. Speakers will deliver presentations on their work and answer questions from the audience in a moderated Q&A session.

# 40TH ANNUAL CNS CONFERENCE & 45TH ANNUAL CNS/CNA STUDENT CONFERENCE (JUNE 6-9, 2021)

For details please visit [www.cns-snc.ca](http://www.cns-snc.ca)

## 45TH ANNUAL CNS/CNA STUDENT CONFERENCE (JUNE 6-9, 2021)

The 45th Annual CNS/CNA Student Conference has extended the student paper submission deadline to March 13, 2021. Students are invited to submit a short (5 pages maximum) paper that will be reviewed by professionals from industry and academia, and if accepted, presented at a Student Poster Session during the conference.

Participating students will receive free registration for the conference and one student from each submission category (Undergraduate, Master's and Ph.D.) will be presented with an award during the conference for exceptional work on both the paper and presented poster.

The free registration will give students access to all (online) events of the conference. It is a great opportunity to hear about the current state of research and development in the nuclear industry and academia, and to meet and interact with fellow students and with professionals in the field.



# UPCOMING CNS COURSE ON CANDU TECHNOLOGY (ONLINE) - PART 3

## Course Overview

The CNS CANDU Technology and Safety Course, held for the last many years in a physical setting over 3 days in March, has had to be cancelled/postponed to 2022 March on account of the COVID-19 pandemic.

In order to provide a partial replacement for the full course, an on-line course is being organized, offered over a number of days separated in time. The 1<sup>st</sup> slice and the 2<sup>nd</sup> slice took place on 2020 November 13 and 2021 March 22-23, respectively, and the 3<sup>rd</sup> slice will now be offered on two half-days, 2021 June 28-29, from 8 am to 11:30 am (Toronto local time).

The upcoming offering will have totally different presentations from the 1<sup>st</sup> and 2<sup>nd</sup> slices of the course, in 2020 November and 2021 March 22-23. It will have presentations on:

- CANDU Fuel Design and Performance
- CANDU Regional/Neutronic Overpower Protection
- CANDU LLOCA Analysis
- CANDU Experiments and Computer Codes

The CNS is presenting this course to enhance the professional and technical capabilities of its members (and non-members) working in, or interested in, the nuclear industry. The course is ideally suited for beginning professionals, but also beneficial to experienced professionals. Come broaden your nuclear knowledge beyond your specific area of work and your own area of expertise.

## Course Agenda

### 2021 June 28, Toronto local time (am)

- 08:00 Opening remarks, instructions  
 08:10-9:40 "CANDU Fuel Design and Performance", by Paul Chan (Royal Military College of Canada)  
 9:40-10:00 Break  
 10:00-11:30 "CANDU Regional/Neutronic Overpower Protection", by Wei Shen (CANDU Owners Group)

### 2021 June 29, Toronto local time (am)

- 08:00 Introduction, Feedback  
 08:05-9:35 "CANDU LLOCA Analysis", by David Novog (McMaster University) and Benjamin Rouben (12 & 1 Consulting)  
 9:35-9:50 Break  
 9:50-11:20 "CANDU Experiments and Computer Codes", by Thambiayah Nitheanandan (Canadian Nuclear Safety Commission)  
 11:20 Closing remarks

### Registration

Please register on-line via the link on the Course web page, which you can reach directly by [clicking here](#) or via the [CNS website](#).

The registration fees are shown below, and include HST (HST # 87048889RT)

- CNS Member: \$150.00 [Must be a CNS member in good standing]  
 Non-CNS Member: \$200.00  
 CNS Full-Time Student Member or CNS Retiree Member: \$75.00

## CNS SHORT COURSE ON CANDU REACTOR TECHNOLOGY (ON-LINE) – Part 3



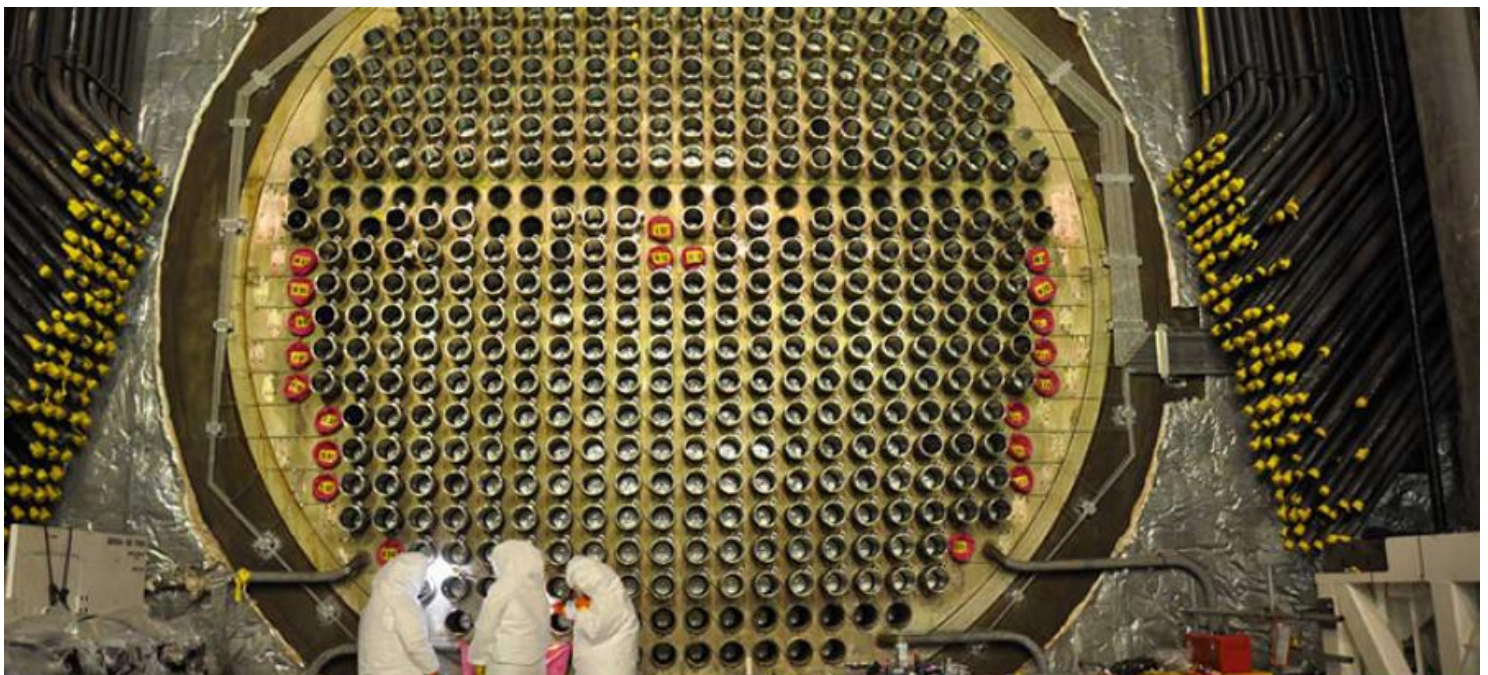
Organized by:  
**The Canadian Nuclear Society  
 Nuclear Science & Engineering  
 Division**

2021 June 28-29 (Toronto Time,  
 Mornings Only)

**Course held on-line  
 (Connection details to be  
 communicated later)**

Course contact (not for registration):  
 B. Rouben, [roubenb@alum.mit.edu](mailto:roubenb@alum.mit.edu)

For registration questions, contact  
 Elmir Lekovic, [elmir.lekovic@gmail.com](mailto:elmir.lekovic@gmail.com)



# 11TH ICI IS COMING!



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