



ONTARIO CENTRE
FOR ENGINEERING
AND PUBLIC POLICY

Policy Engagement Series seminar

Fast-neutron reactors: A wiser solution to spent nuclear fuel?



GUEST SPEAKER:

Peter Ottensmeyer
Professor Emeritus
University of Toronto

CANADIANS ARE AMONG THE highest electricity consumers in the world. Roughly 15 per cent of the electricity we use comes from nuclear generation stations. In Ontario, the figure is slightly more than 50 per cent. While nuclear-generated electricity offers many advantages, there are concerns, including what to do with the waste from spent nuclear fuel, which remains highly radioactive for 400,000 years.

Current worldwide plans to bury used nuclear fuel waste in deep geological repositories are not only costly and unproven, they do not address issues such as long-term toxicity. In his presentation our guest presenter will provide an overview of fast-neutron reactors and explain how they can greatly lower the radiotoxic lifespan of spent nuclear fuel material and create trillions of dollars of non-carbon electricity.

ABOUT THE SPEAKER

PETER OTTENSMEYER is professor emeritus at the University of Toronto and a former chair of the university's department of medical biophysics. As senior scientist at the Ontario Cancer Institute his career focused on the physics and engineering side of cancer research, often dealing with radioisotopes. For the last eight years his concentration has been on nuclear fuel waste disposal. He has authored more than 100 technical papers and continues to be involved in research on insulin mimics for diabetes. Peter holds a B.A.Sc. in engineering physics (metallurgy), an MA in solid state physics and a PhD in biophysics, and he is a Fellow of the Royal Society of Canada.

Thursday, October 18, 2012, 12 - 2 p.m

LUNCH IS INCLUDED

Best Western Primrose Hotel

(Lester B. Pearson Room, 2nd floor) 111 Carleton Street, Toronto

Pre-registration is required by **October 12 (noon)**, at:

<http://fastneutronreactors.eventbrite.ca>

Presentation fee: \$56.50 (**\$50.85 before noon, September 28**); \$28.25/students (email info@ocepp.ca for discount code).