



Join us on March 28, 2017  
for the next GEN4 webinar

## Super-Critical Water-cooled Reactor

Supercritical Water-Cooled Reactors (SCWRs) are a class of high temperature, high pressure water-cooled reactors that operate above the thermodynamic critical point of water (374°C, 22.1 MPa). These concepts combine the design and operation experience gained from hundreds of water-cooled reactors with the experience from hundreds of fossil-fired power plants operated with supercritical water. The main goals of using supercritical water in nuclear reactors are to increase the efficiency of modern nuclear power plants, decrease capital and operational costs, and finally decrease electrical energy costs. This presentation describes SCWR concepts being pursued in the international community and highlights the technical advancements and challenges in the development.

*Free webcast*

Tuesday 28 March, 2017 at 8:30 am EDT (UTC-5)



Register NOW at  
[www.gen-4.org](http://www.gen-4.org)

**Who should attend:** policy makers, managers, regulators, students, general public

### Meet the Presenter...

**Laurence Leung** has been working at Canadian Nuclear Laboratories (formerly Chalk River Laboratories of Atomic Energy of Canada Limited) since 1987 in the field of thermal-hydraulics. He completed his Ph.D. degree at University of Ottawa, Canada, in 1994. Laurence is currently Manager of R&D Facilities Operations and is also responsible for the development of the Canadian Super-Critical Water-cooled Reactor (SCWR) concept. He received 13 awards from AECL (CNL) and external organizations, and delivered short courses on thermal-hydraulics and SCWRs. Laurence is one of Canada's representatives to the GIF SCWR System, and is the Co-Chair of the System Steering Committee and the Thermal-hydraulics and Safety Project Management Board.



*The Generation IV International Forum invites you to attend web-based lectures on the next generation of nuclear energy systems and other cross-cutting subjects. Join internationally recognized subject matter experts and leading scientists in the nuclear energy arena for these short presentations.*

#### Upcoming Webinars

April 27, 2017	Fluoride Salt Cooled High Temperature Reactor, Prof. Per Peterson
May 23, 2017	Molten Salt Reactor, Dr. Elsa Merle
June 20, 2017	Lead Fast Reactor, Prof. Craig Smith

For more information, please contact: Patricia Paviet at [patricia.paviet@nuclear.energy.gov](mailto:patricia.paviet@nuclear.energy.gov) or visit the GIF website at [www.gen-4.org](http://www.gen-4.org).

To test your computer and network configuration for this Adobe Connect meeting, run the diagnostic test at: [https://admin.acrobat.com/common/help/en/support/meeting\\_test.htm](https://admin.acrobat.com/common/help/en/support/meeting_test.htm)