



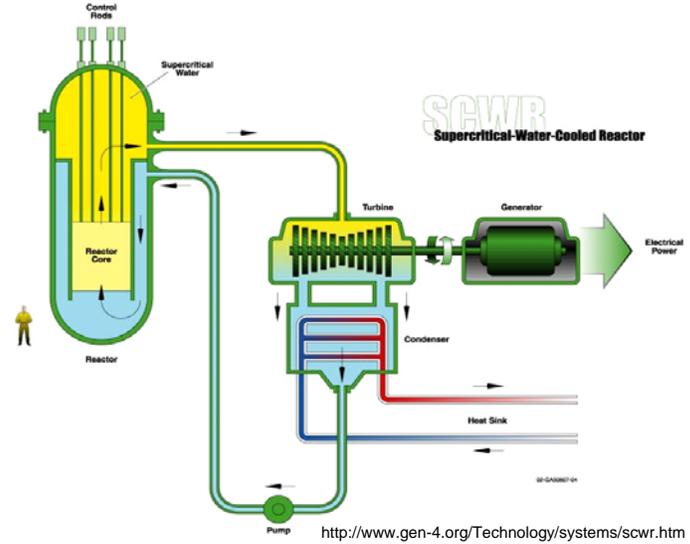
# The 5<sup>th</sup> International Symposium on Supercritical Water-Cooled Reactors (ISSCWR-5)



March 13-16, 2011  
Sheraton Wall Centre Hotel  
Vancouver, British Columbia, Canada

The supercritical water-cooled reactor (SCWR) is the only water-cooled reactor among the six concepts being considered in the Generation IV International Forum (GIF). It is considered to be one of the most promising concepts because of its simplicity in design, high thermal efficiency, and the nearly fifty years of industrial experience from thermal-power stations with a SCW cycle.

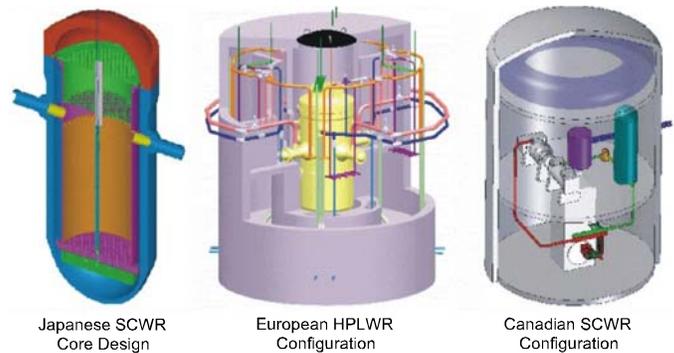
A number of countries (e.g., Canada, Japan, China, etc.) and the European Union are interested in the SCWR design. Two SCWR design concepts are being examined: (a) a pressure-vessel type with a reactor core (fuelled) heat source, analogous to conventional PWRs and BWRs, and (b) a pressure-tube type consisting of fuel bundles in distributed pressure tubes or channels, analogous to conventional CANDU and RBMK nuclear reactors. Within the GIF SCWR system arrangement, four project management boards have been established to oversee R&D in key areas among participating countries.



[http://ca.images.search.yahoo.com/search/images?\\_adv\\_prop=image&fr=yfp-t-715&va=Vancouver&vm=r](http://ca.images.search.yahoo.com/search/images?_adv_prop=image&fr=yfp-t-715&va=Vancouver&vm=r)

ISSCWR-5 focuses on key design and R&D areas, such as core design, fuel design, materials, chemistry, thermal-hydraulics, and safety analyses. It also covers the development of the balance of plant and co-generation applications. Over 110 papers will be presented over the 3-day symposium. There will be time available for participants to interact individually or in small groups to exchange information and foster new ideas. A technical tour of the TRIUMF facility (<http://www.triumf.ca/>) is being organized on 2011 March 17.

ISSCWR-5 will provide a forum for discussion of advances and issues, for sharing information and facilitating technology transfer, and for establishing new collaborations on SCWR reactor core and fuel design, materials, chemistry, thermalhydraulics, and safety analyses between international research organizations. Previous symposia on the SCWR were held in Tokyo (2000, 2003), Shanghai (2007), and Heidelberg (2009). The Canadian Nuclear Society (CNS) is hosting ISSCWR-5 in cooperation with the International Atomic Energy Agency (IAEA).



Canadian and international organizations are co-sponsoring the ISSCWR-5 to further enhance participation by various countries. Industry, government labs and the academic community are encouraged to participate, exchange information and build new links between organizations and countries.

Detailed information on ISSCWR-5 is available at <http://www.cns-snc.ca/events/isscwr-5/>. Contact Dr. Laurence Leung (e-mail: [leungl@aecl.ca](mailto:leungl@aecl.ca) or Tel: ++1 613-584-8811 ext. 44813) for general enquires.