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Unser Zeichen:

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Einladung zum IKET-Kolloquium

Zeit: Dienstag, 28. Oktober 2014, 15.00 Uhr

Ort: Kolloquiumsraum des IKET, Campus Nord, Bau 419, Raum 104

Referent: Dr. Matthias Krause, B.Sc.(M.E., 1989, University of Manitoba), formerly at Atomic Energy of Canada Ltd. (1989-2014), now at International Atomic Energy Agency, Wien

Titel: An Overview of CANDU Reactor Technology and the Channel-based SCWR (Supercritical Water Reactor) Design

Zusammenfassung:

The evolution of the unique CANDU PHWR (CANadian Deuterium Uranium Pressurized Heavy Water Reactor) design, from its beginnings in the 1950's, its varieties in the 80's to today's standardized GenIII EC6 design is a success story under the shadow of the predominant deployment of PWR technology around the world today, much like Canada is to the USA, and Austria to Germany.

The SCWR (SuperCritical Water Reactor) is one of the six GenIV concepts under the Generation-IV International Forum and as such continues Canada's contribution to worldwide nuclear technology development. Like contemporary PHWRs, the SCWR uses pressurized channels and heavy water as moderator, however, the fuel channels are orientated vertically and use light water as coolant.

A unique insight into past, present and future PHWR technology, applications and R&D will be presented including a look forward towards advanced fuel cycles and higher efficiencies for electricity generation, and alternative applications.

gez. T. Schulenberg

Alle auswärtigen Besucher des Kolloquiums werden gebeten, ihren gültigen Personalausweis oder Reisepass mitzubringen.