17th International Topical Meeting on Nuclear Reactor Thermal Hydraulics
Xi'an, Shaanxi, China, Sept. 3-8, 2017

NURETH-17

Call for Papers

Abstract due : Dec. 15, 2016
Final paper due: Feb. 28, 2017

NURETH-17 Special Topic
RELAP Codes: Past, Present, and Future
Topic Organizers: Phil Sharpe and Ling Zhou

The Reactor Excursion and Leak Analysis Package – RELAP – continues to provide sound engineering scale evaluation of nuclear power and flow systems for utilities, vendors, and researchers around the world. Through several incarnations and versions, the RELAP series of codes reflects the historical development of nuclear safety analysis, incorporates extensive validation with experiment test programs, and eventual uses in licensing action. Extension of the version RELAP5-3D with various fluids has prompted thermal fluid analyses for advanced reactor systems including gas, liquid metal, salt, and bio-aqueous solutions. Development is underway on the next generation RELAP code, RELAP-7, aiming to implement multi-physics capabilities with advanced numerical techniques incorporating the seven-equation flow field formulation.

This special topic session of NURETH-17 intends to highlight RELAP successes throughout its development lifetime, show the process attributes which established RELAP as a well-validated and robust systems code, describe current activities and uses of the code in nuclear system design and safety applications, and present fundamental aspects of the next generation of RELAP.

Take this opportunity to show off your work with RELAP, either in development of application. Please remit your abstract/paper to the following suggested topics or any related subjects ASAP.