

Dear Colleagues

It is our pleasure to bring to your attention the special Panel Session on "**Reliability of Passive Systems**" we are organizing at the NURETH-17 conference in Xi'an, China (September 3-8, 2017).

Passive systems are widely considered in advanced or innovative nuclear reactor system designs and are adopted for coping with critical safety functions. The reliability of passive systems either for decay heat removal or containment cooling functions during postulated accidental situation, or for reactor core cooling during normal operating conditions, are very critical for ensuring the design performance and safe operation of nuclear reactor systems.

There are strong needs of understanding key thermal-hydraulic phenomena selected for characterizing the design features, of demonstrating the design performance and resolving safety concerns or issues, and of verifying the reliability of relevant systems and/or components in the form of separate and integral effect tests in laboratory scales as well as plant-scale commissioning tests at the site.

This panel session aims to collect efforts worldwide on the reliability of passive safety systems, focusing on relevant thermal-hydraulic phenomena, system design performance, deterministic safety analysis through appropriate thermal-hydraulic modeling, code developments and its V&V, and probabilistic risk analysis for characterizing the reliability of relevant system and components. Efforts on reactor core cooling during normal operating condition are also welcome.

We would like to invite you to act as a panelist in this panel session, and kindly request you to let us know if you would accept this invitation at your earliest convenience, but by no later than **July 31, 2017** just by returning this mail. If you have any questions, do not hesitate to contact us by e-mail.

Kind regards,

Francesco D'Auria, University of Pisa
Chul-Hwa Song, Korea Atomic Energy Research Institute

www.nureth17.com