

NURETH-17



Call for Papers

September 3 - 8, 2017
Qujiang Int'l Conference Ctr.
Xi'an, China

NURETH-17 Mini-Symposium Small modular reactor (SMR)

Symposium Organizers: Min Rui and Andreas Schaffrath

Small modular reactors (SMR) are nuclear fission reactors which are smaller in size (300MW_e or less) than conventional reactors. They are manufactured in a factory and brought to a site to be fully constructed. The construction in a controlled factory setting improve the construction quality and efficiency. The small size of the SMRs or leads to reduction of source term which can simplify the emergency preparedness.

Numerous SMRs are built or developed in many countries world-wide. Most of them are expected or designed to a have greater simplicity and a high level of passive, inherent safety. The thermal hydraulics (TH) issues for fuel, reactor coolant system, containment and nuclear steam supply systems (NSSS) are key points of SMR design and development. For TH research, design, analysis and safety assessments in licensing procedures, system codes, CFD tools and experiments are applied. Plenty of research results and achievements reflects the improvements in the field of SMR TH recently, but challenges still exist.

In the SMR mini-symposium of NURETH-17, global experts, scholars and researchers will be invited for plenary sessions (overview on current status of SMR worldwide and other topics will be presented) and panel discussions about current thermal hydraulics of SMR.

We are pleased to invite you to present papers and discuss topics relating to thermal-hydraulics of SMR. Please submit your abstract/paper to the following suggested topics or any related subjects as soon as possible.

Topics/sessions include, but are not limited to:

- ✚ New safety systems and (inherent passive) safety features
- ✚ SMR experiments
- ✚ Transient and accident analysis
 - ✚ Code development and assessment
 - ✚ Fuel TH performance analysis
 - ✚ Passive inherent decay heat removal
 - ✚ Containment pressure control and containment cooling
- ✚ Requirements for rules and regulations for nuclear licensing procedures

Abstract due : Dec. 15, 2016

Final paper due: Feb. 28, 2017

