

Fulvio Mascari **ENEA, Italy**



Fulvio has a Master's Degree in Nuclear Engineering (2006) and the doctorate PhD in "Nuclear, Chemical and Safety Technology" (2010) at the University of Palermo.

Since September 2013 he has worked as a researcher at the ENEA. His technical field is the nuclear reactor thermal-hydraulics in reactor coolant systems/containment, and their coupling and the analyses of severe accident phenomena. In relation to that, he is an expert on the use of best estimate thermal-hydraulic system code (RELAP5 and TRACE) and severe accident code (ASTEC and MELCOR).

Currently Fulvio is investigating severe accident issues in PWR and BWR reactor types, the aerosol behaviour in the containment of Sodium-Cooled Fast Neutron Reactor by using severe accident code, the application of the probabilistic

method to propagate input uncertainty in deterministic safety analyses, the capability of best estimate thermal-hydraulic system code to simulate the main phenomena typical of advanced light water SMR in DBA and BDBA conditions, and the analyses of the scaling issues.

He is involved in several international activities (e.g. H2020-EURATOMProjects, OECD/NEA/CSNI/WGAMA activities, IAEA activities, etc). He represents ENEA in CSARP and CAMP USNRC Research Program.