

# PCS 4

## Containment of nuclear reactors

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Location : Seoul, Korea

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Fee : US\$ 300

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The containment behavior in case of design accidents is well known from intensive research conducted in the past.

Today the work is extended to beyond design accidents.

The main issue of this seminar is the containment under severe accident conditions. Here containment is to be understood both as the containment building and as the containment function of a nuclear power plant.

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*Topic :*

1. May the reactor pressure vessel fail under severe accident loading? What would be the failure mode? Possible consequences?
2. Hydrogen distribution in the containment; mitigating measures; hydrogen deflorations; limits for detonation
3. Containment loading; integrity analysis for static; dynamic and combined excessive loading
4. Tightness of the containment and its improvement by different liner systems; integrity of liner systems under mechanical and thermal attack
5. Scaling of model experiments; extrapolation of experi-mental findings; similarity of slow impact and coupled phenomena

The seminar lectures will be presented by invited speakers familiar with the recent research activities. Video presentations are intended. Intensive discussion is encour- aged. For main questions round table discussion will be arranged. Abstracts of the papers are available before the seminar and proceedings will be distributed afterwards.