



SOTERIA MIDTERM WORKSHOP

Prague | 9, 10 & 12 April, 2018

AGENDA

SOTERIA WORKSHOP DAY 1

Monday 9th April – Room: Neruda 1

Topic	Speaker
RPV – Microstructure (14:00 – 14:50)	Chair: Marta SERRANO (CIEMAT)
Flux effect	Andreas ULBRICHT (HZDR)
Mechanisms of formation of nano-features	Lisa BELKACEMI (CEA)
RPV – Uncertainties in determination of RPV fracture toughness (14:50 – 16:05)	Chair: Hieronymus HEIN (Framatome)
Effect of materials heterogeneities on mechanical properties at initial state	Marta SERRANO (CIEMAT)
Effect of materials heterogeneities on microstructure and mechanical properties at irradiated state	Hans-Werner VIEHRIG (HZDR)
Effects of additional uncertainties and handling and mitigation of uncertainties	Hieronymus HEIN (Framatome)
Coffee break (16:05 – 16:30)	
INTERNALS – Microstructure (16:30 – 17:10)	Chair: Marta SERRANO (CIEMAT)
Flux effect on the radiation damage of austenitic steels	Hygreeva NAMBURI (CVR)
Dose-dependent nano-features and their effect on intergranular cracking susceptibility	Christian ROBERTSON (CEA)
INTERNALS – Environmental effects on IASCC susceptibility of internals I (17:10 – 17:50)	Chair: Paul BINKS (WOOD)
Irradiation effects on microstructural evolution	Grace BURKE (UoM) Wade KARLSEN (VTT)
Measurement of Cr diffusion coefficient in Ni and Ni-Cr alloy	Laure MARTINELLI (CEA)

SOTERIA WORKSHOP DAY 2

Tuesday 10th April – Room: Neruda 1

Topic	Speaker
INTERNALS – Environmental effects on IASCC susceptibility of internals II (9:00 – 10:00)	Chair: Paul BINKS (WOOD)
Effects of the environment on the oxide properties	Susana MERINO (CIEMAT)
Effects of irradiation on SCC	Paul BINKS (WOOD) Kevin MOTTERSHEAD (WOOD)
Effects of He on IASCC susceptibility	Jia-Chao CHEN (PSI)
MULTISCALE MODELLING TOOLS (10:00 – 12:00)	Chair: Marc BERVEILLER (EDF)
Nanofeature models due to irradiation for RPV and Internals	Pär OLSSON (KTH)
Improvement of the physically-based constitutive equations and the post-irradiation fracture response of RPV steels	Christian ROBERTSON (CEA)
Coffee break (10:50 – 11:10)	
Fracture models for RPV and for the IASCC of Internals	Peter JAMES (WOOD)
Demonstration of the modelling platform	Marc BERVEILLER (EDF)
General discussion and closure of the workshop (12:00 – 12:30)	Christian ROBERTSON (CEA)

- Time for presentations: 25 minutes incl. discussion for RPV and Modelling sessions, 20 minutes incl. discussion for Internals sessions.
- Space for posters will be arranged. Posters can be discussed during the coffee breaks.
 - Poster size: 119 x 84 cm (A0)
- Workshop proceedings will contain the presentations and the posters.

SOTERIA JOINT SESSION

Thursday 12th April – Room: Neruda 1

Participant

Speaker

Moderators

Joint session (14:00 – 18:00)

Abderrahim AL-MAZOUZI (EDF)
Elisabeth KEIM (Framatome)
John SHARPLES (WOOD)

SOTERIA

Christian ROBERTSON (CEA)

NOMAD

Madalina RABUNG (FhG-IZFP)

ADVISE

Andreas SCHUMM (EDF)

MEACTOS

F. Javier PEROSANZ (CIEMAT)

INCEFA+

Kevin MOTTERSHEAD (WOOD)

Every participant will make a short presentation of the project, followed by an introduction of common interest issues

Coffee break (16:00 – 16:30)

ROUND TABLE