



## ERMSAR 2010

### 4<sup>th</sup> European Review Meeting on Severe Accident Research

Hotel EUROPA, Bologna (Italy)

11 – 12 May, 2010

hosted by **ENEA**

### Final Programme

Presentations are limited to 20 minutes, leaving 5 minutes discussion time

Short Work-Package introductions are limited to 15 minutes and 5 minutes discussion time

Meeting registration		8:00-9:00
<i>Tuesday: May 11, 2010</i>	<b>Presented by</b>	
<b>Session 1: Introduction</b> <i>Chair: J.P. Van Dorsseleere</i>		
Welcome by ENEA former Director Renato Tinti Presentation of ENEA by Felice DeRosa	ENEA	9:00-9:15
<b>Invited presentation:</b> SARNET and Sustainable Nuclear Energy Technology Platform	M. Hugon (EC)	9:15-9:35
<b>Paper :</b> The SARNET2 project	J.P. Van Dorsseleere (IRSN)	9:35-10:00
<b>Presentation:</b> Information systems and spreading of excellence activities	D. Beraha (GRS)	10:00-10:20
<b>Invited presentation:</b> ASAMPSA2 FP7 project for PSA2 harmonization	ERSE (replacing E. Raimond, IRSN)	10:20-10:45
<b>Coffee Break</b>		10:45-11:05
<b>Invited paper:</b> Severe Accident features of the alternative plant designs for new NPP in Finland	R. Sairanen (STUK)	11:05-11:30

<i>Tuesday: May 11, 2010</i>	<b>Presented by</b>	
<b>Session 2: ASTEC</b> <i>Chair: P. Chatelard</i>		
<b>Paper 2.1 (invited paper):</b> ASTEC applications to HTRs	A. Ramlakan (PBMR)	11:30-11:55
<b>Paper 2.2 (invited paper):</b> Overview of BARC severe accident analyses for VVER-1000 and Pressurised Heavy Water Reactors	H.G. Lele (BARC)	11:55-12:20
<b>Presentation:</b> Short introduction on WP4 -Main outcomes of work in SARNET 1 <sup>st</sup> phase and overview of work in SARNET2	P. Chatelard (IRSN)	11:55-12:15
<b>Paper 2.3:</b> Status of the ASTEC V2 development. Focus on the models of the V2.0 version	P. Chatelard (IRSN)	12:15-12:40
<b>Lunch break</b>		12:40-14:00
<b>Session 3: Corium and Debris Coolability</b> <i>Chair: W. Tromm</i>		
<b>Presentation:</b> Short introduction on WP5 -Main outcomes of work in SARNET 1 <sup>st</sup> phase and overview of work in SARNET2	W. Tromm (KIT)	14:00-14:20
<b>Paper 3.1:</b> Outcome of the OECD/SARNET Workshop on In-vessel Coolability	J. Birchley (PSI)	14:20-14:45
<b>Paper 3.2:</b> Understanding the effects of reflooding in a reactor core beyond LOCA conditions	F. Fichot (IRSN)	14:45-15:10
<b>Paper 3.3:</b> Debris bed reflooding calculations in TMI-2 core configuration with ICARE/CATHARE V2 code	G. Bandini (ENEA)	15:10-15:35
<b>Paper 3.4:</b> LACOMECE and PLINIUS experimental platforms at KIT and CEA	W. Tromm (KIT)	15:35-16:00
<b>Coffee Break</b>		16:00-16:20
<b>Session 4: MCCI</b> <i>Chair: C. Journeau</i>		
<b>Presentation:</b> Short introduction on WP6 - Main outcomes of work in SARNET 1 <sup>st</sup> phase and overview of work in SARNET2	C. Journeau (CEA)	16:20-16:40
<b>Paper 4.1:</b> Two EU-funded tests in VULCANO to assess the effects of concrete nature on its ablation by molten corium	P. Piluso (CEA)	16:40-17:05
<b>Paper 4.2:</b> Overview of large scale metallic melt-concrete interaction experiments	J. Foit (KIT)	17:05-17:30
<b>Paper 4.3:</b> MCCI in an oxide/metal pool: lessons learnt from VULCANO, Greene, ABI and BALISE experiments and remaining uncertainties	M. Cranga (IRSN)	17:30-17:55
<b>Adjourn</b>		

<b>Wednesday: May 12, 2010</b>	<b>Presented by</b>	
<b>Session 5: Containment Phenomena</b> <i>Chair: I. Kljenak</i>		
<b>Paper 5.1 (invited paper):</b> Containment atmosphere de-stratification by vertical or horizontal jet or plume	D. Paladino (PSI)	<b>9:00-9:25</b>
<b>Presentation:</b> Short introduction on WP7 - Main outcomes of work in SARNET 1 <sup>st</sup> phase and overview of work in SARNET2	I. Kljenak (JSI)	<b>9:25-9:45</b>
<b>Paper 5.2:</b> Improved melt solidification influence modelling in Fuel Coolant Interactions	M. Uršič (JSI)	<b>9:45-10:10</b>
<b>Coffee break</b>		<b>10:10-10:30</b>
<b>Session 6: Source Term</b> <i>Chair: A. Auvinen</i>		
<b>Presentation:</b> Short introduction on WP8: main outcomes of work in SARNET 1 <sup>st</sup> phase and overview of work in SARNET2	A. Auvinen (VTT)	<b>10:30-10:50</b>
<b>Paper 6.1:</b> Progress on results and analysis on Phébus FPT3	L. Bosland (IRSN)	<b>10:50-11:15</b>
<b>Paper 6.2:</b> Preliminary step towards the interpretation of EPICUR tests relative to organic iodides (RI) production: link between the experimental results and mechanistic aspects	L. Bosland (IRSN)	<b>11:15-11:40</b>
<b>Paper 6.3:</b> Iodine transport and behaviour in large-scale THAI tests	G. Weber (GRS)	<b>11:40-12:05</b>
<b>Paper 6.4:</b> Ongoing investigations of oxidising impact on source term	T. Kärkelä (VTT)	<b>12:05-12:30</b>
<b>Lunch break</b>		<b>12:30-14:00</b>
<b>Session 7: Conclusions</b> <i>J.P. Van Dorsseleere and Management Team members</i> Discussion upon questions from the audience *)		<b>14:00-15:00</b>
<b>End of meeting</b>		<b>15:00</b>

\*) Questions can be given in a written form on Tuesday May 11 evening to J.P. Van Dorsseleere or R. Zeyen