



SIXTH FRAMEWORK
PROGRAMME

ERMSAR 2008

3rd European Review Meeting on Severe Accident Research
September 23 – September 25, 2008 – Nessebar (Bulgaria)

Final Programme

[Presentations are limited to 20 minutes, leaving 10 minutes discussion time](#)

Monday: September 22, 2008		
Welcome drink at the Hotel Vigo		20:00
Tuesday: September 23, 2008		
	Presented by	
Session 1:		
Opening remarks	P. Groudev R. Sehgal	8:45 – 9:05
Invited paper: Introduction to severe accidents and their management: The role of severe accident research	J. Royen	9:05 – 9:35
Session 2: Corium issues (11 papers) • Main achievements and conclusions		Chair: C. Journeau / V. Strizhov
Paper 2.1: Invited The Chernobyl corium: generation, interaction with concrete and progression	V.F.Strizhov	9:35 – 10:05
Paper 2.2: Status of studies on high-temperature oxidation and quench behaviour of Zircaloy-4 and E110 cladding alloys	M. Steinbrück	10:05 – 10:35
Coffee Break		
Paper 2.3: The PARAMETER test series	T. Yudina	10:35 – 10:55 10:55 – 11:25
Paper 2.4: Modelling and accelerated cladding deformation in air for severe accident codes	O. Coindreau	11:25 – 11:55
Paper 2.5: Progress on B₄C modeling in severe accident codes in the frame of SARNET network of excellence–Application to Phébus and QUENCH experiments	G. Repetto	11:55 – 12:25
Lunch break		
Paper 2.6: The LIVE program: Tests and joint interpretation within SARNET and ISTC	M. Buck	12:25 – 13:40 13:40– 14:10
Paper 2.7: Vessel steel corrosion during in-vessel retention of corium melt	S.V. Bechta	14:10 – 14:40
Paper 2.8: Coolability of Particulate or Porous Debris in Severe Accidents: Status and Remaining Uncertainties for In- and Ex-Vessel Scenarios	M. Bürger	14:40 – 15:10
Paper 2.9: Quenching of Melt Layers by Bottom Injection of Water in the COMET Core-Catcher Concept	J.J. Foit	15:10 15:40
Coffee Break		
Paper 2.10: Simulation of corium concrete interaction in a 2D geometry: recent benchmarking activities concerning experiment and reactor cases	M. Cranga	15:40 16:00 16:00 16:30
Paper 2.11: Improvement of the European thermodynamic database NUCLEA in the frame of EU-funded experiments	C. Journeau	16:30 17:00
Session 3: Containment and Source Term issues (9 papers) • Main achievements and conclusions		Chair: L. Meyer / T. Haste
Paper 3.1: Review of LP&CFD recombiner modelling and experiments: applicability to reactor simulations and open issues	E.-A. Reinecke	17:00 17:30
Paper 3.2: Comparison and analysis of the condensation benchmark results	W. Ambrosini	17:30 18:00
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Wednesday: September 24, 2008	Presented by	
Session 3: Containment and Source Term issues (9 papers) (continued) • Main achievements and conclusions		Chair: L. Meyer / T. Haste
Paper 3.3: Sprays in Containment: Final results of the SARNET Spray Benchmark	J. Malet	8:45 – 9:15
Paper 3.4: Status of FCI modeling and reactor applications: Achievements during the SARNET project	M. Buck	9:15 – 9:45
Paper 3.5: Investigations of Direct Containment Heating (DCH) in European Reactors: Database of Integral Tests and Progress in Modeling	C. Spengler	9:45 – 10:15
Paper 3.6: Understanding the behaviour of absorber elements in silver-indium-cadmium control rods during PWR severe accident sequences	R. Dubourg	10:15 – 10:45
Coffee Break		10:45 – 11:05
Paper 3.7: Progress in understanding key aerosol issues	L.E.Herranz	11:05 – 11:35
Paper 3.8: Advances on containment iodine chemistry	S Dickinson	11:35 – 12:05
Paper 3.9: Ruthenium behaviour under air ingress conditions: main achievements in the SARNET project	P. Giordano	12:05 – 12:35
Lunch break		12:35 – 13:50
Session 4: ASTEC Code and PSA2 method development activities (8 papers) • Main achievements and conclusions		Chair: JP. Van Dorselaere / E. Raimond
Paper 4.1: Invited Progression of a Severe Core Damage Accident in a CANDU Calandria Vessel"	P.M. Mathew	13:50 – 14:20
Paper 4.2: PSA2 method harmonization	E. Raimond	14:20 – 14:50
Paper 4.3: PSA2 expert judgment methods	R. Bolado-Lavin	cancelled
Paper 4.4: Severe Accident Codes for L2 PSA (ASTEC Requirements)	E. Raimond	14:50 – 15:20
Coffee Break		15:20 – 15:50
Paper 4.5: Progress of ASTEC Validation on Circuit Thermalhydraulics and Core Degradation	G. Bandini	15:50 – 16:20
Paper 4.6: Progress of ASTEC validation on fission product release and transport in circuits and containment	A. Bielauskas	16:20 – 16:50
Paper 4.7: ASTEC extension to other reactor types than GEN II PWR	J.P. Van Dorselaere, B. Schwinges	16:50 – 17:20
Paper 4.8: Status and perspectives of ASTEC models	J.P. Van Dorselaere	17:20 – 17:50
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Short walk and visit of the Old Town of Nesseber		18:30
Gala dinner in Old Town		20:00

Thursday: September 25, 2008		Presented by	
Session 5: Conclusions and perspectives (5 papers) • Research priorities, GEN IV, SARNET Follow-up, EC Views Summary of the sessions and discussion			Chair: R. Sehgal / JC. Micaelli
Paper 5.1: Ranking of Severe Accident Research Priorities		B. Schwinges	8:45– 9:15
Paper 5.2: Summary of SARNET achievements		T. Albiol	9:15 – 9:45
Paper 5.3: The vision of the European Sustainable Nuclear Energy Technological Platform. Strategic Research Agenda on the Safety R&D for GEN IV reactors		G. Bruna	9:45 – 10:15
Coffee break			10:15 – 10:35
Paper 5.4: Presentation of SARNET 2		T. Albiol	10:35 – 11:05
Paper 5.5: EC View		M. Hugon	11:05 –11:30
General discussion and closing remarks		R. Sehgal	11:30 – 12:30
Lunch break			12:30 – 14:00
End of conference			14:00

Organizing Committee

The SARNET Management and IRNRE Teams have in charge the preparation of the technical content of the seminar, the organization of the seminar and the preparation of the summary record. Its members are:

Thierry ALBIOL	IRSN	FRANCE (coordinator)
Roland ZEYEN	JRC/IE-Cad	EUROPEAN UNION (secretary)
Pavlin GROUDEV	INRNE	BULGARIA (organization & registration)
Raj SEHGAL	KTH	SWEDEN
Alessandro ANNUNZIATO	JRC	EUROPEAN UNION
David BERAHA	GRS	GERMANY
Christophe JOURNEAU	CEA	FRANCE
Bernard CHAUMONT	IRSN	FRANCE
Tim HASTE	PSI	SWITZERLAND
Leonhard MEYER	FZK	GERMANY
Bernd SCHWINGES	GRS	GERMANY
Jean-Pierre VAN DORSSELAERE	IRSN	FRANCE

Contact persons

<p><u>For technical information</u>, please contact:</p> <p><i>Roland ZEYEN EC/JRC Institute for Energy Petten at Cadarache PO Box 3, building 250 F-13115 St Paul-lez-Durance Cedex tel +33 4 4219 9723 GSM : +33 6 8357 6186</i></p>	<p><u>For local information</u>, please contact :</p> <p><i>Assoc. Prof. Pavlin P. GROUDEV, Ph.D Deputy Director of Institute for Nuclear Research and Nuclear Energy BULGARIAN ACADEMY OF SCIENCES Tzarigradsko shaussee 72, Sofia 1784, Bulgaria tel: +359 2 97 95 000 ext. 585; GSM: +359 888 955 385</i></p>
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