



Official Program

4th International Symposium on Supercritical Water-Cooled Reactors

Crowne Plaza Hotel, Heidelberg, Germany
March 8 - 11, 2009



Supercritical Water-Cooled Reactors are a class of high temperature, high pressure water-cooled reactors that operate above the thermodynamic critical point of water. The technology roadmap of the Generation IV International Forum has identified several of the key technical advantages of the SCWR compared to conventional water technologies that make it attractive for consideration as a Generation IV System. The main thrusts of these advantages translate into improved economics because of the higher thermodynamic efficiency and plant simplification opportunities afforded by a high-temperature, single-phase coolant.

Meanwhile, industry and research organizations from Canada, Japan, Korea, China, France, and from a consortium of Euratom member states agreed to work jointly on design and technologies of this innovative nuclear system, to share results and to discuss problems and challenges during workshops and conferences. In this sense, the partners of the European Project “High Performance Light Water Reactor Phase 2” (HPLWR Phase 2) supported by the Steering Committee of Supercritical Water-Cooled Reactor research of the Generation IV International Forum have the honor to organize the 4th International Symposium on Supercritical Water Cooled Reactors in the Crowne Plaza Hotel in Heidelberg on March 8-11, 2009.

The objectives of the Symposium are to enable discussions and to exchange results, to foster the world-wide research activities and collaborations, to improve the contact between industry (utilities, vendors etc.) and research organizations, and to provide an information platform for political, scientific and industrial stakeholders, as well as for the media and public.

About 80 papers have been submitted. Beside papers about “research programs”, the technical papers cover research fields like “heat transfer”, “thermal hydraulics”, “core design”, “system design”, “safety”, “materials”, “chemistry”, and “stability”. All technical abstracts are collected inside the “Book of Abstracts” for information.

The symposium is organized in a plenary session and in parallel technical sessions. A general session overview is given below. Authors and titles are given in the official program, which follows on the next pages. The colours shall help to identify different sessions.

The local organizing committee likes to welcome all participants and likes to wish fruitful discussions during the Symposium

H. Hofmann J. Starflinger

Symposium Hotel



Crowne Plaza Hotel
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Germany

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Registration, Spouse Program

Sunday, March 8, 2009

16:00 - 18:00	Official Symposium Registration
19:00 - 22:00	Welcome Reception (Foyer)

Monday, March 9, 2009

8:00 – 18:00	Registration counter open
14:00	Spouse Program

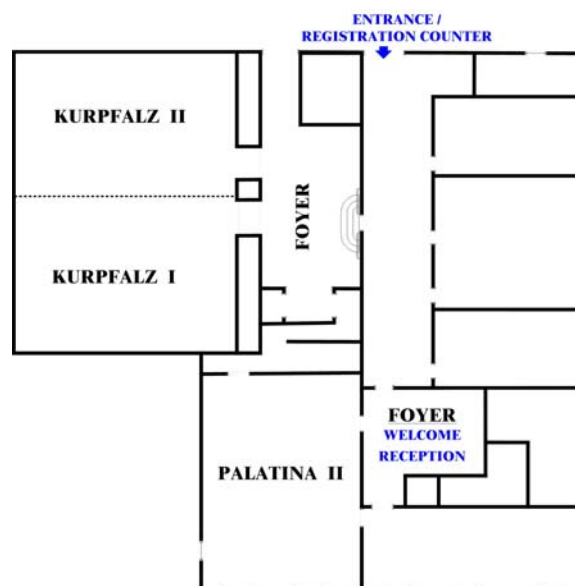
Tuesday, March 10, 2009

8:00 – 18:00	Registration counter open
14:00	Spouse Program
19:30 - 22:00	Symposium Dinner

Wednesday, March 11, 2009

8:00 – 18:00	Registration counter open
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Floor Plan



Phone number of the registration counter

During the symposium the registration counter is equipped with a mobile phone. During the opening times of the counter (March 8, 2009 16:00 – March 11, 2009 14:30), in case of any question, please feel free to contact us: +49 (0)6221 – 917 – 55725.

Program

Sunday, March 8, 2009

16:00 – 18:00

Registration Counter

Official Symposium Registration

19:00 – 22:00

Room: Foyer

Welcome Reception

Monday, March 9, 2009

Plenary

8:30 – 10:00

Room: Kurpfalz 1+2

Co-Chairs: T. Schulenberg (FZK), H. Khartabil (AECL)

**Invited
Speakers**

R. Schenkel, JRC Director General,
European Commission

EUROPEAN RESEARCH ACTIVITIES AND
GENERATION IV NUCLEAR SYSTEM

M. Wenk, Technical Director, EnBW
Kraftwerk GmbH

CUSTOMER EXPECTATIONS FOR
GENERATION IV NUCLEAR POWER PLANTS

M. Erve, Director Technical Center,
AREVA NP

FUTURE POTENTIAL OF LIGHT WATER
REACTORS IN THE CONTEXT OF THE
NUCLEAR RENAISSANCE

10:00-10.30

Break

10:30-12:30

Room: Kurpfalz 1+2

Co-Chairs: Y.Y. Bae (KAERI), J. Starflinger (FZK)

Program

Y. Ishiwatari, Y. Oka, K. Yamada

JAPANESE R&D PROJECTS ON PRESSURE-
VESSEL TYPE SCWR

K.P. Boyle, D. Brady, D. Guzonas, H.
Khartabil, L. Leung, J. Lo, S. Quinn,
S. Suppiah, W. Zheng

CANADA'S GENERATION IV NATIONAL
PROGRAM - OVERVIEW

T. Schulenberg, J. Starflinger

EUROPEAN RESEARCH PROJECT ON THE
HIGH PERFORMANCE LIGHT WATER
REACTOR

X. Cheng

R&D ACTIVITIES ON SCWR IN CHINA

12:30 – 14:00

Lunch Break

Monday, March 9, 2009

Plenary

14:00 – 15:30

Room: Kurpfalz 1+2

Co-Chairs: Y. Ishiwatari (Univ. Tokio), X. Cheng (Univ. Shanghai)

Program and Assessment	Y. Y. Bae, H. Y. Kim, J. H. Kwon, S. M. Bae, Kwangho Lee, Y. B. Kim, S. Y. Hong	UPDATE ON THE SCWR RESEARCH IN KOREA
	Sung-Yull Hong, Kwangho Lee, Seong-Man Bae, Yong-Bae Kim, Yoon-Yeong Bae	INTERIM RESULTS OF SCWR DEVELOPMENT FEASIBILITY STUDY IN KOREA
	F. Roelofs, A. van Heek, Luc Van Den Durpel	GEN4 MARKET SHARE SCENARIOS WITH FOCUS ON SCWR

15:30 – 16:00 Break

Monday, March 9, 2009

Technical (2 Sessions in parallel)

16:00 – 18:00

Room: Kurpfalz 1+2

Co-Chairs: W. Meier (AREVA), D. Brady (NRC)

System Design 1	C. Koehly, T. Schulenberg, J. Starflinger	HPLWR REACTOR DESIGN CONCEPT
	T. Reiss, H. Foulon, A. Wank, T. Schulenberg	TRANSIENT STRESS ANALYSIS OF THE HPLWR PRESSURE VESSEL
	M. Naidin, I. Pioro, U. Zirn, S. Mokry, G. Naterer	SUPERCritical WATER-COOLED NPPs WITH CO-GENERATION OF HYDROGEN: GENERAL LAYOUT AND THERMODYNAMIC-CYCLES OPTIONS
	W.G. Cook, W. Fatoux	A CANDU-SCWR WITH A STEAM GENERATOR: THERMODYNAMIC ASSESSMENT AND ESTIMATION OF FOULING RATES

16:00 – 18:00

Room: Palatina 2

Co-Chairs: J.D. Jackson (Univ. Manchester), L. Leung (AECL)

Heat Transfer 1	E. Laurien, Haijun Wang, Yu Zhu, Hongzhi Li	FLOW AND HEAT TRANSFER OF A HEATED ROD WITH A WRAPPED WIRE INSIDE A CHANNEL
	L. Chandra, J.-A. Lycklama à Nijeholt, D.C. Visser, F. Roelofs	CFD ANALYSES ON THE INFLUENCE OF WIRE WRAP SPACERS ON HEAT TRANSFER AT SUPERCRITICAL CONDITIONS
	T. Nakatsuka, T. Misawa, H. Yoshida, K. Takase	NUMERICAL SIMULATION OF HEAT TRANSFER EXPERIMENT OF SUPERCRITICAL WATER BY TWO-FLUID MODEL CODE ACE-3D
	G.V. Vanyukova, Yu.N. Kuznetsov, A.Ya. Loninov, M.V. Papandin, V.P. Smirnov and I.L. Pioro	APPLICATION OF CFD-CODE TO CALCULATIONS OF HEAT TRANSFER IN A FUEL BUNDLE OF SCW PRESSURE-CHANNEL REACTOR

Tuesday, March 10, 2009

Technical (3 Sessions in parallel)

8:30 – 10:00

Room: Kurpfalz 1

Co-Chairs: W. Bernnat (Univ. Stuttgart), Y.B. Kim (KAERI)

Core Design 1	X. J. Liu, X. Cheng	COUPLED THERMAL-HYDRAULICS AND NEUTRON-PHYSICS ANALYSIS OF SCWR WITH MIXED SPECTRUM CORE
	L. Monti, J. Starflinger, T. Schulenberg	EFFECTIVENESS OF AN INSULATED FUEL ASSEMBLY TO IMPROVE HPLWR CORE PERFORMANCE
	J. Shan, W. Chen. L. Leung	COUPLED NEUTRONICS/THERMAL-HYDRAULICS ANALYSIS OF CANDU-SCWR FUEL CHANNEL

8:30 – 10:00

Room: Kurpfalz 2

Co-Chairs: L. Heikinheimo (TVO), D. Guzonas (AECL)

Materials 1	L. Heikinheimo, D. Guzonas, C. Fazio	GENIV MATERIALS AND CHEMISTRY RESEARCH – COMMON ISSUES WITH SCWR CONCEPT
	S. Kasahara, J. Kaneda, Y. Maruno, K. Moriya, Y. Tsuchiya, F. Kano, S. Higuchi, S. Mimura, H. Takahashi, H. Matsui, and T. Shikama	STATE OF KNOWLEDGE OF MODIFIED AUSTENITIC STAINLESS STEELS FOR FUEL CLADDINGS OF SUPERCRITICAL WATER-COOLED REACTOR - A REVIEW OF CANDIDATE MATERIAL DEVELOPMENT IN JAPAN
	Jian Li, D. Guzonas, J. Wills, H. Dole, J. Michels, W. Zheng and W. Cook	PROPERTIES OF PASSIVE FILMS FORMED ON ALLOYS TESTED IN SCW WATER

8:30 – 10:00

Room: Palatina 2

Co-Chairs: F. Roelofs (NRG), I. Pioro (Univ. Ontario)

Heat Transfer 2	Zhi Shang	NUMERICAL SIMULATION OF HEAT TRANSFER IN ROD BUNDLES OF SUPERCRITICAL WATER-COOLED NUCLEAR REACTOR (SCWR)
	Y.H. Yang, X. Cheng, S.F. Huang	A PREDICTION METHOD FOR SUPERCRITICAL WATER HEAT TRANSFER IN CIRCULAR TUBES
	J.D. Jackson	VALIDATION OF AN EXTENDED HEAT TRANSFER EQUATION FOR FLUIDS AT SUPERCRITICAL PRESSURE

10:00 – 10:30

Break

10:30 – 12:30

Room: Kurpfalz 1

Co-Chairs: D. Bittermann (AREVA), J. Starflinger (FZK)

System Design 2	M. Brandauer, M. Schlagenhauser, T. Schulenberg	STEAM CYCLE OPTIMIZATION FOR THE HPLWR
	M. Schlagenhauser, J. Starflinger, T. Schulenberg	STEAM CYCLE ANALYSES AND CONTROL OF THE HPLWR PLANT
	H. Herbell, M. Wechsung, T. Schulenberg	A TURBINE DESIGN CONCEPT FOR THE HPLWR
	P. Hajek	THERMODYNAMIC ASPECTS OF CYCLES WITH SUPERCRITICAL FLUIDS

10:30 – 12:30

Room: Kurpfalz 2

Co-Chairs: S. Kasahara (Hitachi), W. Cook (Univ. Bunswick)

Materials 2	Á. Horváth, Gy.Jákli, M. Horváth, A.Csordás, L. Sikó, A. Imre	STUDY OF CORROSION IN SUPERCRITICAL WATER
	Y. Nakazono, T. Iwai and H. Abe	CORROSION PROPERTIES OF PNC1520 AUSTENITIC STAINLESS STEEL IN SUPERCRITICAL WATER AS A FUEL CLADDING CANDIDATE MATERIAL FOR SUPERCRITICAL WATER REACTOR
	S. Penttilä, Aki Toivonen, L. Heikinheimo, R. Novotny	SCC PROPERTIES AND OXIDATION BEHAVIOUR OF AUSTENITIC ALLOYS AT SUPERCRITICAL WATER CONDITIONS
	R. Hui, W.i Qu, C. Sun, W. Qian, C. Sun, W. Zheng, G. McRae	DEVELOPMENT OF COATINGS FOR COMPONENTS IN SUPERCRITICAL WATER REACTORS

10:30 – 12:30

Room: Palatina 2

Co-Chairs: H. Anglart (Univ. Stockholm), Y.Y. Bae (KAERI)

Heat Transfer 3	Kyoung-Ho Kang, Sang-Ki Moon, Se-Young Chun, Chul-Hwa Song, Won-Pil Baek, Soon-Heung Chang	AN EXPERIMENTAL STUDY ON THE PRESSURE TRANSIENT HEAT TRANSFER UP TO SUPERCRITICAL PRESSURES
	Yoon Yeong Bae, Hwan Yeol Kim, TaeHo Yoo	HEAT TRANSFER EXPERIMENTS IN A WIRE-INSERTED TUBE AT SUPERCRITICAL CONDITIONS
	Y. Zhu and E. Laurien	PREDICTION OF HEAT TRANSFER OF UPWARD FLOW IN ANNULAR CHANNEL AT SUPERCRITICAL PRESSURE – WATER AND CO ₂
	K. Takase, H. Yoshida, T. Nakatsuka, T. Misawa	ON THE POSSIBILITY OF NUMERICAL PREDICTIONS ON TURBULENT HEAT TRANSFER OF SUPERCRITICAL WATER IN A CIRCULAR TUBE

12:30 – 14:00

Lunch

Tuesday, March 10, 2009

Technical (3 Sessions in parallel)

14:00 – 15:30

Room: Kurpfalz 1

Co-Chairs: C. Maraczy (AEKI-KFKI), L. Leung (AECL)

Core Design 2	Yong-Bae Kim, Seong-Man Bae, Eun-Ki Lee, Dong-Hwan Park and Kwangho Lee	FUEL-TO-MODERATOR RATIO SENSITIVITY STUDY USING ZrH ₂ AND WATER ROD MODERATOR IN SCWR CONCEPTUAL CORE DESIGN
	H. Tsige-Tamirat, L. Ammirabile, M. Fuetterer	ON USE OF HYDRIDE FUEL IN HPLWR
	W. Bernnat, A. Conti, J. Keinert, M. Mattes	THERMAL NEUTRON SCATTERING ON H IN SUPERCRITICAL H ₂ O

14:00 – 15:30

Room: Kurpfalz 2

Co-Chairs: A. Horvath (AEKI-KFKI), S. Morooka (Toshiba)

Materials 3	Lijun Meng, Jian Sun, Hui Xing, Ganwen Pang	SERRATED FLOW, FATIGUE AND CREEP BEHAVIORS OF AL6XN AUSTENITIC STAINLESS STEEL
	Lefu Zhang, Rui Tang, Fawen Zhu, Peipeng Qiao, Yichen Bao	CORROSION SCREENING TEST OF SEVERAL CANDIDATE MATERIALS FOR SCWR CLADDING
	Zhangjian Zhou, Ming Li, Pei He, Yingli Xu, Changchun Ge	DEVELOPMENT OF OXIDE DISPERSION STRENGTHENED STEELS FOR SUPERCRITICAL WATER-COOLED REACTORS CORE APPLICATION

14:00 – 15:30

Room: Palatina 2

Co-Chairs: E. Laurien (Univ. Stuttgart), T. Nakatsuka (JAEA)

Heat Transfer 4	D. Palko, H. Anglart	INVESTIGATION OF THE ONSET OF HEAT TRANSFER DETERIORATION TO SUPERCRITICAL WATER
	H. Anglart	HEAT TRANSFER DETERIORATION IN APPLICATION TO HPLWR – MECHANISMS IDENTIFICATION AND RANKING TABLE
	H.Y.Gu, X.Cheng, Y.H.Yang	CFD STUDY OF HEAT TRANSFER DETERIORATION PHENOMENON IN SUPERCRITICAL WATER THROUGH VERTICAL TUBE

15:00 – 16:00 Break

16:30 – 18:00

Room: Kurpfalz 1

Co-Chairs: J. Heinecke (AREVA), S. Higuchi (Toshiba)

Core Design 3	Cs. Maráczy, Gy. Hegyi, G. Hordósy, E. Temesvári, A. Molnár	HPLWR CORE DESIGN STUDIES
	T. Reiss, S. Fehér, Sz. Czifrus	CALCULATION OF XENON-OSCILLATIONS IN THE HPLWR
	W. Bernnat, A. Conti	2D AND 3D ASSEMBLY BURNUP ANALYSIS FOR HPLWR
	V.A. Mokhov, I.N. Vasilchenko, M.P. Nikitenko, S.N. Kobelev, A.V. Lapin, V.M. Makhin, A.E. Chetverikov, A.N. Churkin, S.V. Shmelev	CORE PROBLEMS OF VVER-SCP VESSEL-TYPE REACTOR

16:30 – 18:00

Room: Kurpfalz 2

Co-Chairs: M. Ruzickova (UJV), D. Guzonas (AECL)

Materials 4	Z. Han and Y. Muroya	DEVELOPMENT OF A NEW METHOD TO STUDY ELUTION PROPERTIES OF STAINLESS MATERIALS IN SUBCRITICAL AND SUPERCRITICAL WATER
	F. Gillemot, Á. Horváth, M. Horváth	STUDY OF 15H2MFA STEEL PROPERTIES FOR USE IN SCWR REACTOR
	X. Li, Q. Yan, R. Ma, H. Wang, C. Ge	STUDY ON TENSILE AND IMPACT PROPERTIES OF CNS-II RAF/M STEELS
	J. A. Kozinski, I. S. Butler, D. H. Ryan, S. G. Xu	APPLICATION OF HIGH-TEMPERATURE/PRESSURE PHASE SEPARATION TO A SUPERCRITICAL WATER COOLED REACTOR

16:30 – 18:00

Room: Palatina 2

Co-Chairs: J.A. Lycklama (NRG), Y. Yang (Univ. Shanghai)

Heat Transfer 5	Se-Young Chun, Chan-Hwan Shin, Sung-Deok Hong, Chul-Hwa Song	HEAT TRANSFER CHARACTERISTICS NEAR THE CRITICAL PRESSURE IN A ROD BUNDLE COOLED BY R-134A FLUID DURING PRESSURE TRANSIENT
	A. Simal, H. Anglart	ANALYSIS OF THE CONVECTIVE HEAT TRANSFER TO LAMINAR DUCT FLOW OF SUPERCRITICAL WATER
	M. Sharabi, A. Manera, M. Andreani	IMPLEMENTATION OF IMPROVED HEAT TRANSFER CORRELATIONS IN RELAP5 AND APPLICATION TO THE HPLWR
	W. Tian, Y. Ishiwatari, S. Ikejiri, Y. Oka, M. Yamakawa	NUMERICAL COMPUTATION ON THERMALLY CONTROLLED STEAM BUBBLE CONDENSATION USING MPS METHOD

19:30 – 22:00

Symposium Dinner

Wednesday, March 11, 2009

Technical (3 Sessions in parallel)

8:30 – 10:00

Room: Kurpfalz 1

Co-Chairs: M. Andreani (PSI), A. Kereszturi (AEKI-KFKI)

Safety 1	D. Bittermann, T. Schulenberg, M. Andreani	THE SAFETY CONCEPT OF THE HPLWR
	B. de Marsac, J. Starflinger, D. Bittermann, T. Schulenberg	CONTAINMENT DESIGN PROPOSAL WITH ACTIVE AND PASSIVE SAFETY SYSTEMS FOR A HIGH PERFORMANCE LIGHT WATER REACTOR
	Po Hu, P. P. H. Wilson	SUPERCritical WATER REACTOR STEADY STATE, BURNUP AND TRANSIENT ANALYSIS WITH EXTENDED PARCS/RELAP5

8:30 – 10:00

Room: Kurpfalz 2

Co-Chairs: W. Ambrosini (Univ. Pisa), M. Rohde (Univ. Delft)

Stability	Pengfei Liu, Aijun Xue, Yanhua Yang, Xu Cheng	PRELIMINARY STABILITY ANALYSIS OF SUPERCritical WATER-COOLED SYSTEMS
	M. Rohde, T.H.J.J. van der Hagen	DOWNSCALING THE HPLWR TO AN EXPERIMENTAL FACILITY BY USING A SCALING FLUID
	W. Ambrosini	CONTINUING ASSESSMENT OF SYSTEM AND CFD CODES FOR HEAT TRANSFER AND STABILITY IN SUPERCritical FLUIDS

8:30 – 10:00

Room: Palatina 2

Co-Chairs: E. Laurien (Univ. Stuttgart), L. Chandra (NRG)

Core Design 4 / Thermal-Hydraulics 1	E. Slonszki	NUMERICAL SIMULATION OF SCWR FUEL BEHAVIOUR UNDER STEADY STATE CONDITIONS
	S. Higuchi, S. Sakurai	A STUDY ON THERMO-MECHANICAL BEHAVIOR OF TYPICAL FUEL RODS IN AN SCWR CORE
	A.N. Churkin, P.V. Yagov, V.A. Mokhov, I.G. Shchekin	COMPUTER CODE TEMPA-SC: SIMULATION OF THERMAL-HYDRAULIC PROCESSES IN THE CORE OF VVER-SCP REACTOR

10:00 – 10:30 Break

10:30 – 12:30

Room: Kurpfalz 1

Co-Chairs: D. Bittermann (AREVA), Y. Ishiwatari (Univ. Tokio)

Safety 2	A. Keresztúri, Cs. Maráczy, I. Trosztel, Gy. Hegyi	SAFETY ANALYSES OF REACTIVITY INITIATED ACCIDENTS IN A HPLWR REACTOR BY THE COUPLED ATHLET-KIKO3D CODE
	C. Zhou, Y.H. Yang, Xu Cheng, X.J. Liu	MODIFICATION OF THE ATHLET CODE FOR SUPERCRITICAL-PRESSURE WATER COOLED REACTORS
	A.R. Imre, I.F. Barna, I. Farkas, A. Márkus, G. Házi, T. Kraska	THEORETICAL INVESTIGATION OF SUDDEN VAPORIZATION AND WATER HAMMER IN SCWR DURING LOSS OF COOLANT ACCIDENTS
	Chen Yuzhou, Yang Chunsheng, Zhang shuming, Zhao Minfu, Du Kaiwen	AN EXPERIMENTAL STUDY OF CRITICAL FLOW OF WATER UNDER SUBCRITICAL AND SUPERCRITICAL PRESSURES

10:30 – 12:30

Room: Kurpfalz 2

Co-Chairs: T. Dorsch (AREVA), J. Kysela (UJV)

Chemistry	J. Kysela, V. Švarc, M. Růžičková	WATER CHEMISTRY SPECIFICATIONS FOR SUPERCRITICAL WATER COOLED REACTORS – POSSIBLE OPTIONS
	P. Hájek, R. Všolák, M. Růžičková	FIRST EXPERIENCE WITH OPERATING THE SUPERCRITICAL WATER LOOP
	D. Guzonas, L. Qiu, F. Brosseau and P. Tremaine	PREDICTING ACTIVITY TRANSPORT IN A SUPERCRITICAL WATER COOLED PRESSURE TUBE REACTOR
	M. Balaskó, L. Horváth, Á. Horváth, P. Tóth	STUDY OF THE BEHAVIOR OF SUPERCRITICAL WATER BY DYNAMIC NEUTRON RADIOGRAPHY

10:30 – 12:30

Room: Palatina 2

Co-Chairs: J.A. Lycklama (NRG), X. Cheng (Univ. Shanghai)

Thermal-Hydraulics 2	A. Kiss, E. Laurien, A. Aszódi, Yu Zhu	IMPROVED NUMERICAL SIMULATION OF A HPLWR FUEL ASSEMBLY FLOW WITH WRAPPED WIRE SPACERS
	C. Kunik, B. Vogt, T. Schulenberg	FLOW PHENOMENA IN THE GAP VOLUME BETWEEN ASSEMBLY BOXES
	A. Wank, T. Schulenberg, E. Laurien	ANALYSIS OF THE FLOW IN THE UPPER MIXING CHAMBER OF A THREE PASS CORE
	J. Shan, L. Leung, J. Yang, C. Li, W. Chen, B. Zhang, X. Chen	SUBCHANNEL CODE DEVELOPMENT FOR SUPERCRITICAL WATER-COOLED REACTOR

12:30 – 14:30 Lunch

14:30 End of the Symposium

Sponsors of the Symposium

The organizers like to thank the companies AREVA NP GmbH and EnBW for their support of the symposium.



Contacts

Local Organizing Committee

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