

**PASCAL JOINT WP2-WP4 workshop**  
**13-14 December 2023**  
 Ivan Di Piazza, Philippe Planquart

## AGENDA

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**Day 1 – 13<sup>th</sup> of December 2023**

Session	Topic	Speaker	Start	End
<b>Introduction</b>	General introduction	P. Planquart	9:00	9.05
	Thermal-hydraulics challenges	K. van Tichelen	9.05	9.20
	Pool-type definition	D. Martelli	9.20	9.35
	Fuel bundle introduction	K. Litfin	9.35	9.50
	Q&A	all	9.50	10.00
<i>Coffee break</i>			<i>10.00</i>	<i>10:15</i>
<b>Experiments</b>	Exploratory and validation experiments	D. Martelli	10:15	10:40
	Water experiments and related techniques	P. Planquart	10.40	11.05
	Liquid metal experiments and related techniques	J. Pacio	11.05	11.30
	Challenges solved in PASCAL	P. Planquart	11.30	11.50
	Q&A	all	11.50	12.00
<i>Lunch break</i>			<i>12:00</i>	<i>13:00</i>
<b>Visit of PALLAS</b>	Introduction + visit of construction site		13:00	14:45
<i>Coffee break</i>			<i>14.45</i>	<i>15.00</i>
<b>Numerical modelling with application (I)</b>	CFD steps and modelling	L. Koloszar	15:00	15:20
	CAD and meshing	S. Keijers	15.20	15.40
	Momentum & thermal modeling – from water to liquid metal	L. Koloszar	15.40	16.00
<i>Coffee break</i>			<i>16.00</i>	<i>16:15</i>
<b>Numerical modelling with application (II)</b>	System code	P. Breijder	16.15	16.45
	Code coupling	K. Zwijsen	16.45	17.15
	Subchannel code	F. Giannetti	17.15	17.45
	Challenges solved in PASCAL	H. Uitslag-Doolaard	17.45	18.00
<b>Wrap-up</b>	Summary and perspectives	F. Roelofs and P. Planquart	18:00	18:15
<i>End of day 1</i>			<i>18:15</i>	
			19:00	Dinner (tbc)

## Day 2 – 14th of December 2023

Session	Topic	Speaker	Start	End
<b>General introduction</b>	Integrity and resistance	P. Schuurmans	9:00	9:15
<b>Introductory Lecture</b>	Fluid-structure interaction	TBD	9:15	10:00
<i>Coffee break</i>			10:00	10:15
<b>Flow induced vibrations in HLM</b>	Introduction	I. Di Piazza	10:15	10:25
	Wire-spaced fuel pin bundle	J. Pacio	10:25	10:50
	Description of experimental facilities and measurement techniques for grid-spaced bundle in HLM	I. Di Piazza	10:50	11:15
	Flow description and numerical techniques for grid-spaced bundle	K. Zwijsen	11:15	11:35
	Q&A	all	11:35	11:45
<b>In-service inspection</b>	Structures, systems and components	L. Mazeika	11:45	12:30
<i>Lunch break</i>			12:30	13:30
<b>Sloshing of HLM</b>	Seismic signal & numerical simulation	V. Moreau	13:30	14:10
	Scaling & Experiments with water	J. Muller	14:10	14:50
	Q&A	all	14:50	15:00
<i>Coffee break</i>			15:00	15:15
<b>Wrap up</b>	Summary and perspectives Interactive session Closing of session	P. Schuurmans & I Di Piazza	15:15	16:00