

# TRM meeting (24m meeting) practical information and draft agenda (v2)

## Practical information

The **meeting venue is the [Geno-Hotel Karlsruhe](#)**. It is located 4km south of the city center and 2km south of the Karlsruhe main railway station, the next tram station is at 800m walking distance.

There are rooms allocated for the meeting participants until 07. October under the name "KIT-ITES". Please note that the hotel does not offer a discount on the room rate, it's just to make sure that there are rooms available for the PATRICIA TRM participants.

Please also take note that the GenoHotel is open 24 hours from Monday to Friday.

**On Sundays and on public holidays (= 1 November), the hotel opens at 7:00 p.m. and there is no catering available.**

Should you not manage to book the hotel from 1 November, please contact Mr. Horvath by email:

[Attila.Horvath@genohotel-karlsruhe.de](mailto:Attila.Horvath@genohotel-karlsruhe.de)

While it is convenient to book this hotel, participants can also choose another hotel in Karlsruhe.

Please register for the meeting on following link → [REGISTRATION PATRICIA Technical Review Meeting](#) by 21<sup>st</sup> October.

The draft agenda and practical information is also available on the PATRICIA website → [Upcoming events](#)

<b>November 2, 2022 (DAY 1)</b>		
<b>09:00-12:30</b>	<b>TCB meeting (at Karlsruhe, online)</b>	<b>All WP leaders, coordinator</b>
12:30-14:00	Lunch break	

<b>14:00-17:55</b>	<b>TRM Meeting Plenary session 1</b>	
14:00- 14:10	Welcome	Paul Schuurmans
14:10-14:25	Status of the project (Management)	Paul Schuurmans
14:25-14:40	Education training communication data management	Philippe Planquart
14:40-15:10	Plenary talk 1	
15:10-15:40	Plenary talk 2	
<i>15:40-15:55</i>	<i>Coffee break</i>	
15:55-16:25	Plenary talk 3: Thermochemical and thermophysical properties of (U,Am)O <sub>2</sub> from atomistic simulations (Domain 2)	Marjorie Bertolus
16:25-16:55	Plenary talk 4	
16:55-17:25	Plenary talk 5	
17:25-17:55	Plenary talk 6	
<b>17:55</b>	<b>End of day 1</b>	

**November 3, 2022 (DAY 2) AM****Parallel Session TRM Domain 1**

Chair: Stéphanie Cornet

09:30-09:40	<b>Introduction WP1</b> Status & progress of work from each partner	Andreas Geist	UHEI
09:40-09:50	POLIMI	Elena Macerata	POLIMI
09:50-10:00	FZJ	Andreas Wilden	FZJ
10:00-10:10	UHEI	Patrik Wessling	Uhei
10:10-10:20	CHALMERS	Marcus Hedberg	CHALMERS
10:20-10:30	CEA	Cécile Marie	CEA
10:30-10:40	First steps of the radiolytic stability studies for the current reference AmSel chemical system	Iván Sánchez Garcia	CIEMAT
10:40-10:55	<i>Coffee break</i>		
10:55-11:05	<b>Introduction to WP2</b>	Giuseppe Modolo	FZJ
11:05-11:25	Modelling and Flowsheeting	Bruce Hanson	UNIVLEEDS
11:25-11:45	Process validation	Andreas Wilden	FZJ
11:45-11:55	<b>Introduction to WP3</b>	Aurélie Gauthé	CEA
11:55-12:15	Actinide containing matrix materials (CEA, SCK CEN)	Grégory Leinders	SCK CEN
12:15-12:35	Settle up of co-precipitation methodologies for Zr oxide matrices fabrication	Ana Nuñez	CIEMAT
12:35-	<i>Lunch break</i>		

**November 3, 2022 (DAY 2) AM****Parallel Session TRM Domain 3**

Chair: Rémi Delville

09:30-09:40	<b>Introduction WP7</b> Status & progress of work from each partner	Rémi Delville	SCK CEN
09:40-10:00	Experimental assessment of fuel clad corrosion damage and blockage phenomena in a wire wrapped heated fuel bundle under flowing LBE (SCK CEN)	Alessandro Marino	SCK CEN
10:00-10:10	<b>Introduction to WP8</b>	Vasile Radu	RATEN
10:10-10:30	PIE fuel transient test	Vasile Radu	RATEN
10:30-10:50	Fuel coolant interaction at elevated temperatures	Daniel Freis	JRC
10:50-11:05	<i>Coffee break</i>		
11:05-11:15	<b>Introduction to WP9</b>	Karsten Litfin	KIT
11:15-11:35	Blockage experiments and simulations using multi-dimensional high fidelity velocity fields	Yassin Hassan	TAMUS
11:35-11:45	Fuel assembly blockages modelling	Akshat Mathur	NRG
11:45-	<i>Lunch break</i>		

**November 3, 2022 (DAY 2) PM****Parallel Session TRM Domain 2**

Chair: Lelio Luzzi

13:30-13:40	Status of WP4: thermos-chemical properties of Am-bearing fuels	Anna Smith	TU Delft
13:40-14:00	Helium, fission gases and fission products behaviour in Am-bearing fuel under irradiation (NRG)	Sander van Til	NRG
14:00-14:20	Experimental measurements of the thermochemical properties on (U-Pu-Am-Np-O) system	Morgane Rochedy	TU Delft/JRC
14:20-14:30	Status of WP5: Improvement of modelling and fuel performance codes	Lelio Luzzi	POLIMI
14:30-14:45	Modelling of Am-bearing fuels, state of the art and interactions with WP4	Paul Van Uffelen	JRC
14:45-15:00	SCIANTIX 2.0 code for inert gas behaviour modelling	Davide Pizzocri	POLIMI
15:00-15:15	Benchmark/Assessment of the fuel performance codes	Marc Lainet	CEA
15:15-15:30	Towards multi-physics coupling of fuel performance, neutronics and thermal-hydraulics codes to simulate off-normal conditions	Janne Wallenius	KTH
15:30-15:45	<i>Coffee break</i>		
15:45-15:55	Status of WP6: Simulation of normal and off-normal irradiation conditions	Marc Lainet	CEA
15:55-16:10	Optimization of a fuel pin for transmutation in MYRRHA	Simon Billiet	SCK CEN
16:10-16:25	Simulation of an accidental scenario for assessment of the safety margins	Davide Pizzocri	POLIMI
16:25-16:40	Pre-design status of transient irradiation tests in HFR & BR2	Syriac Bejaoui	CEA
16:40-16:55	Evaluation of experimental capabilities and needs for code validation for off-normal conditions using in-pile and/or out-of-pile testing facilities	Daniel Freis (TBC)	JRC
16:55-17:05	<i>Break</i>		
17:05-17:25	Discussion and preparation for overview of Domain 2	Lelio Luzzi, Anna Smith, Marc Lainet	POLIMI, TU Delft, CEA
17:25	<b>End of meeting</b>		

**November 3, 2022 (DAY 2) PM**

<b>Parallel Session TRM Domain 4</b>		<b>Chair: Ferry Roelofs</b>	
13:10-13:20	<a href="#">Introduction to WP10</a>	Jan Uythoven	CERN
13:20-13:40	Accelerator Reliability modelling	Lukas Felsberger	CERN
13:40-14:00	Beam window failure impact	Kris Rosseel	SCK CEN
14:00-14:10	<a href="#">Introduction WP11</a>	Mariano Tarantino	ENEA
14:10-14:20	Experimental investigation of the transition between natural circulation modes in CIRCE	Ivan Di Piazza	ENEA
14:20-14:40	CIRCE modelling	Andrea Pucciarelli	UNIPI
14:40-15:00	Numerical investigation of the transition between natural circulation modes in CIRCE	Vincent Moreau	CRS4
15:00-15:10	Experimental investigation of the transition from forced to natural circulation in E-SCAPE	Julio Pacio	SCK CEN
15:10-15:30	Numerical investigation of the transition from forced to natural circulation in E-SCAPE	Silvania Lopes, Dirk Visser	VKI NRG
15:30-15:45	Coffee break		
15:45-16:05	Heat Transport Modelling in Computational Fluid Dynamic	Jure Oder Akshat Mathur	VKI NRG
16:05-16:15	<a href="#">Introduction to WP12</a>		
16:15-16:35	Radionuclide release experiments	Borja González	SCK CEN
16:35-16:55	Sample preparation, Radionuclide Analytics and Radionuclide release experiments	Ivan Zivadinovic	PSI/JRC
16:55-17:15	Status of Matrix isolation of TeOxHy/KEMS	Ondrej Benes	JRC
17:15-17:35	Status of calculations on volatile Te/Po molecules	Stefaan Cottenier	UGent
<b>17:35</b>	<b>End of meeting</b>		

**November 4, 2022 (DAY 3) AM**

**TRM Meeting Plenary session 2**

09:30-09:35	Welcome	
09:35-10:05	Plenary talk 7	
10:05-10:35	Plenary talk 8	
10:35-11:05	Plenary talk 9	
11:05-11:35	Plenary talk 10	
11:35-11:50	<i>Coffee break</i>	
11:50-12:00	Overview Domain 1	Stéphanie Cornet, CEA
12:00-12:10	Overview Domain 2	Lelio Luzzi, POLIMI
12:10-12:20	Overview Domain 3	Remi Delville, SCK CEN
12:20-12:30	Overview Domain 4	Ferry Roelofs, NRG
12:30-12:50	Feedback from the IAG	
12:50-13:10	<b>Concluding remarks, next meeting</b>	
<b>End TRM</b>		
13:10	Lunch	

**November 4, 2022 (DAY 3) PM**

**Governing Board meeting**

There's no Governing Board meeting planned.

**After lunch:**

**TECHNICAL VISIT KIT Campus (KALLA)**

**INE visit is cancelled.**

**Please, don't forget your ID!**