

Studsvik Scandpower

UGM MEETING AGENDA

Title: 2025 User Group Meeting

Location: Vienna House by Wyndham Diplomat Prague

Date: 10/19/2025

Start	End	Time	Description
4:00 PM	5:00 PM	1:00	
5:00 PM	5:30 PM	0:30	Registration <i>Bar/Lobby Area</i>
5:30 PM	7:30 PM	2:00	Welcome Reception <i>Bar/Lobby Area</i>

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UGM MEETING AGENDA - DAY 1

Title: 2025 User Group Meeting
Location: Vienna House by Wyndham Diplomat Prague - Belvedere I, II, III
Date: 10/20/2025

Start	End	Time	Description	Presenter	Company
7:00 AM	8:00 AM	1:00	Registration & Breakfast		
8:00 AM	8:20 AM	0:20	Welcome to UGM 2025	Art Wharton	Studsvik Scandpower
8:20 AM	9:00 AM	0:40	Forsmark perspective on the world of nuclear power over 30+ years – Good ideas from bad examples to inspire the next generation	Thomas Smed	Forsmark
9:00 AM	9:25 AM	0:25	Recent CASMO5 developments	Joshua Hykes	Studsvik Scandpower
9:25 AM	9:55 AM	0:30	BREAK		
9:55 AM	10:20 AM	0:25	Testing an E8R1 library for Helios2	Charles Wemple	Studsvik Scandpower
10:20 AM	10:45 AM	0:25	Recent SIMULATE5 Development and Benchmarking Activities	Tamer Bahadir	Studsvik Scandpower
10:45 AM	11:10 AM	0:25	Experience with the CASMO5-program at Loviisa NPP (VVER-440)	Riku Leppanen	Fortum
11:10 AM	11:35 AM	0:25	Application of the CMS code for fuel lattice design of pressurized water SMRs with gadolinium poison rods	Po Feng Lin	National Atomic Research Institute
11:35 AM	1:05 PM	1:30	LUNCH		
1:05 PM	1:30 PM	0:25	CMS5 benchmarking for SMRs	Emiliya Georgieva	Studsvik Scandpower
1:30 PM	1:55 PM	0:25	S5K Benchmarking	Petra Malá	Studsvik Scandpower
1:55 PM	2:20 PM	0:25	Validation of the CMS5 core models for Forsmark 1	Rasmus Renberg and Hongwu Cheng	Vattenfall
2:20 PM	2:45 PM	0:25	CASMO5/SIMULATE5 modelling and simulation of the EASI-SMR project	Jin Li	Paul Scherrer Institut
2:45 PM	3:15 PM	0:30	BREAK		
3:15 PM	3:40 PM	0:25	Status of Engineering Support Software and Activities	Jeffrey Borkowski	Studsvik Scandpower
3:40 PM	4:05 PM	0:25	Application of COPERNICUS for PWR Design Optimization and Analysis	Tung Nguyen	Studsvik Scandpower
4:05 PM	4:30 PM	0:25	CMS5 improvements for PWR Control Rod Ejection and BWR Control Rod Drop analysis under US NRC Regulatory Guide 1.236	Gerardo Grandi	Studsvik Scandpower
4:30 PM	4:55 PM	0:25	On the transition from SIMULATE-3K to SIMULATE-5K for BWR transient analyses	Hamid Dokhane	AXPO
4:55 PM	5:05 PM	0:10	Closing Remarks	Melanie Joseph	Studsvik Scandpower
8:00 AM	5:00 PM		Product Demonstrations On-Demand – Peacock, CMSBuilder, MARLA, and GARDEL – <i>Paris Room</i>		
			No evening event scheduled		

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UGM MEETING AGENDA - DAY 2

Title: 2025 User Group Meeting
Location: Vienna House by Wyndham Diplomat Prague - Belvedere I, II, III
Date: 10/21/2025

Start	End	Time	Description	Presenter	Company
7:00 AM	8:00 AM	1:00	Registration & Breakfast		
8:00 AM	8:10 AM	0:10	Introductory Remarks	Art Wharton	Studsvik Scandpower
8:10 AM	8:35 AM	0:25	Peacock: Continuous Energy Monte Carlo for Reactor Applications	William Dawn	Studsvik Scandpower
8:35 AM	9:00 AM	0:25	Peacock: Continuous Energy Monte Carlo for Reactor Applications Continued	William Dawn	Studsvik Scandpower
9:00 AM	9:25 AM	0:25	Recent Benchmarking of CMS5 for High Burnup and Challenging BWR Operation Conditions	Petri Guimaraes	Studsvik Scandpower
9:25 AM	9:55 AM	0:30	BREAK		
9:55 AM	10:20 AM	0:25	Upgrading the neutronic version of the PSI cycle check-up methodology for full core PWR Monte Carlo simulations	Louis Berry	Paul Scherrer Institute
10:20 AM	10:45 AM	0:25	The CONCORDS Software Method for Coupled Code Simulation	Matt Adler	Studsvik Scandpower
10:45 AM	11:10 AM	0:25	Analysis of Rod Ejection Accident with Simulate-3K at Ringhals	Erik Löwe	Vattenfall Nuclear Fuel
11:10 AM	11:35 AM	0:25	Validation of the new CMS5 versioner for Ringhals 3 and 4	Philip Lindqvist and Hongwu Cheng	Vattenfall
11:35 AM	1:05 PM	1:30	LUNCH		
1:05 PM	1:30 PM	0:25	Studsvik Overview	Karl Thedéen	Studsvik AB
1:30 PM	1:55 PM	0:25	SNF Uncertainties quantification applied to EPRI/SKB decay heat power validation set	Teodosi Simeonov	Studsvik Scandpower
1:55 PM	2:20 PM	0:25	SNF gamma-ray source terms in spent-fuel radiation shielding calculations: impact of energy group structure	Markus Preston	SKB
2:20 PM	2:45 PM	0:25	Decay Heat Validation of Spent Nuclear Fuel Using CLAB Measurements	Amela Mehic	SKB
2:45 PM	3:15 PM	0:30	BREAK		
3:15 PM	3:40 PM	0:25	GARDEL	Brandon Clark	Studsvik Scandpower
3:40 PM	4:05 PM	0:25	Olkiluoto 3 EPR Core Physics Tests and Flux Maps Evaluation with SIMULATE5	Ville Hynönen	TVO
4:05 PM	4:30 PM	0:25	GARDEL adaption model verification	Claudio Oña	Studsvik Scandpower
4:30 PM	4:40 PM	0:10	Closing Remarks	Melanie Joseph	Studsvik Scandpower
8:00 AM	5:00 PM		Product Demonstrations On-Demand -- Peacock, CMSBuilder, MARLA, and GARDEL -- <i>Paris Room</i>		
6:30 PM	10:30 PM	4:00	Pivovar Strahov (Strahovské nádvoří 301, 118 00 Praha 1)		

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UGM MEETING AGENDA - DAY 3

Title: 2025 User Group Meeting
Location: Vienna House by Wyndham Diplomat Prague - Belvedere I, II, III
Date: 10/22/2025

Start	End	Time	Description	Presenter	Company
7:00 AM	8:00 AM	1:00	Registration & Breakfast		
8:00 AM	8:10 AM	0:10	Introductory Remarks	Art Wharton	Studsvik Scandpower
8:10 AM	8:35 AM	0:25	Comparative Analysis of Decay Heat in Spent Nuclear Fuel: Measurements Versus Calculations Using Multiple Nuclear Data Libraries with CASMO5	Sofia Portolan	Paul Scherrer Institut
8:35 AM	9:00 AM	0:25	Bohunice NPP Unit 3 Core Analysis with CMS5 Code System By: Ondrej Grežďo, Slovenské Elektrárne	Emiliya Georgieva	Studsvik Scandpower
9:00 AM	9:25 AM	0:25	McSLAP code coupling to PRESTO-2 and SIMULATE-5 for the statistical evaluation of BWR safety limits	Giorgio Malavasi	AXPO
9:25 AM	9:55 AM	0:30	BREAK		
9:55 AM	10:20 AM	0:25	Neural Network Based Analysis of Limiting Control Rod Patterns for BWR Startup	Alexey Cherezov	Paul Scherrer Institut
10:20 AM	10:45 AM	0:25	Utilization of CMS in the Kyushu Electric Power Group	Yuki Shuto	West Japan Engineering Consultants, Inc.
10:45 AM	11:10 AM	0:25	Cycle length optimization studies with CMS5 for KKL (BWR)	Arnau Albà	AXPO
11:10 AM	11:35 AM	0:25	CMS5 Characterization of the LW-SMR PRATIC Core	Luigi Mercatali	Karlsruhe Institute of Technology (Germany)
11:35 AM	1:05 PM	1:30	LUNCH		
1:05 PM	1:30 PM	0:25	Experience of AFD calculation for Maanshan Power Plant during power changes using the CMS5	Tai-Ting Huang	National Atomic Research Institute
1:30 PM	1:55 PM	0:25	Application of TRAC-BF1/SIMULATE5K Code to BWR Core Stability Analysis	Kaede Fujita	TEPCO Systems Corporation
1:55 PM	2:20 PM	0:25	PCI optimization	Reeta Tarkainen	Teollisuuden Voima Oyj
2:20 PM	2:45 PM	0:25	RCCA management at Ringhals	Anders Jonsson	Ringhals AB
2:45 PM	3:15 PM	0:30	BREAK		
3:15 PM	3:40 PM	0:25	End of operation optimization studies for KKB (PWR)	Alejandro Noël	Axpo Power AG
3:40 PM	4:00 PM	0:20	Closing Remarks	Melanie Joseph	Studsvik Scandpower
			End of UGM 2025!		