Agenda of the day
code_saturne & neptune_cfd user meeting

6 November 2025

09h00–09h30		**Welcome / Breakfast**
09h30	Introduction.	*P. Charles* (*EDF R&D*)
09h40	New features overview in code_saturne v9.0.	*Dev. Team* (*EDF R&D*)
10h10	Presentation of Simvia, an EDF subsidiary.	*F. Leray* (*Simvia*)
Presentations – morning session (part 1)		
10h15	An assessment of algebraic and differential Reynolds-Stress Models for a highly-bent serpentine aircraft intake.	*S. Hanrahan* (*Melbourne University*)
10h35	Modelling and simulation of a three-phase stirred tank.	*R. Ansart* (*IMFT*)
	Modeling of sodium spray combustion with neptune_cfd.	*N. Kirov, O. Simonin* (*IMFT*)
11h05–11h30		**Break**
Presentations – morning session (part 2)		
11h30	Study of vortex intrusion phenomena in dead legs.	*JF. Wald, J. Uribe* (*EDF R&D*)
11h50	Simulation of solar receivers for direct steam generation using neptune_cfd coupling.	*I. Aguilera* (*CNRS PROMES*)
12h10	Advancing code_saturne for hydraulics: validation and application to industrial problems.	*P. Asproulis, Y. Eude* (*RENUDA*)
12h30–14h00		**Lunch / Poster session**
Presentations – afternoon session		
14h00	A review of code_saturne developments in STFC UKRI.	*S. Rolfo* (*STFC UKRI*)
14h20	Overview of neptune_cfd simulations for reduced-scale filling experiments.	*A. Doradoux* (*SIREHNA*)
14h40	Simulation of breaking wave loads on a wind turbine foundation in the coastal zone with code_saturne.	*M. Benoît* (*EDF R&D*)
15h00–15h25		**Break**
Flash session		
15h25	Implementation of a log-normal modeling in neptune_cfd for polydispersed flows.	*N. Cailler* (*EDF R&D*)
	Presentation of high-fidelity (WR-LES) simulation with code_saturne of turbulent flow under mixed convection regime within a heated rod bundle.	*V. Duffal* (*EDF R&D*)
	Go Viking – Development and use of EDF CFD tools for vibration prediction in axial and crossflow conditions.	*W. Benguigui* (*EDF R&D*)
	On-the-fly construction of a ROM during code_saturne simulations: an urban boundary layer example.	*K. Kuznetov* (*GRASP*)
	System monitoring of flow-accelerated corrosion through upscaling of CFD models coupling thermohydraulics and chemistry.	*B. Cellé* (*EDF R&D*)
	Grand Challenges SELENA: Determination of inter-assembly flow redistributions with explicit modeling of mixing grids at large scale.	*R. Ceyrolle* (*EDF DT*)
16h10	An overview of CEREA activities with code_saturne.	*M. Ferrand,*
	Atmospheric flow modelling of floating offshore wind turbines: coupling between code_saturne and the aero-hydro-servo-elastic model DIEGO.	*A. Mathieu* (*CEREA, EDF R&D*)
16h45	Prospects in code_saturne & neptune_cfd.	*Dev. Team* (*EDF R&D*)
17h00		**Closure**