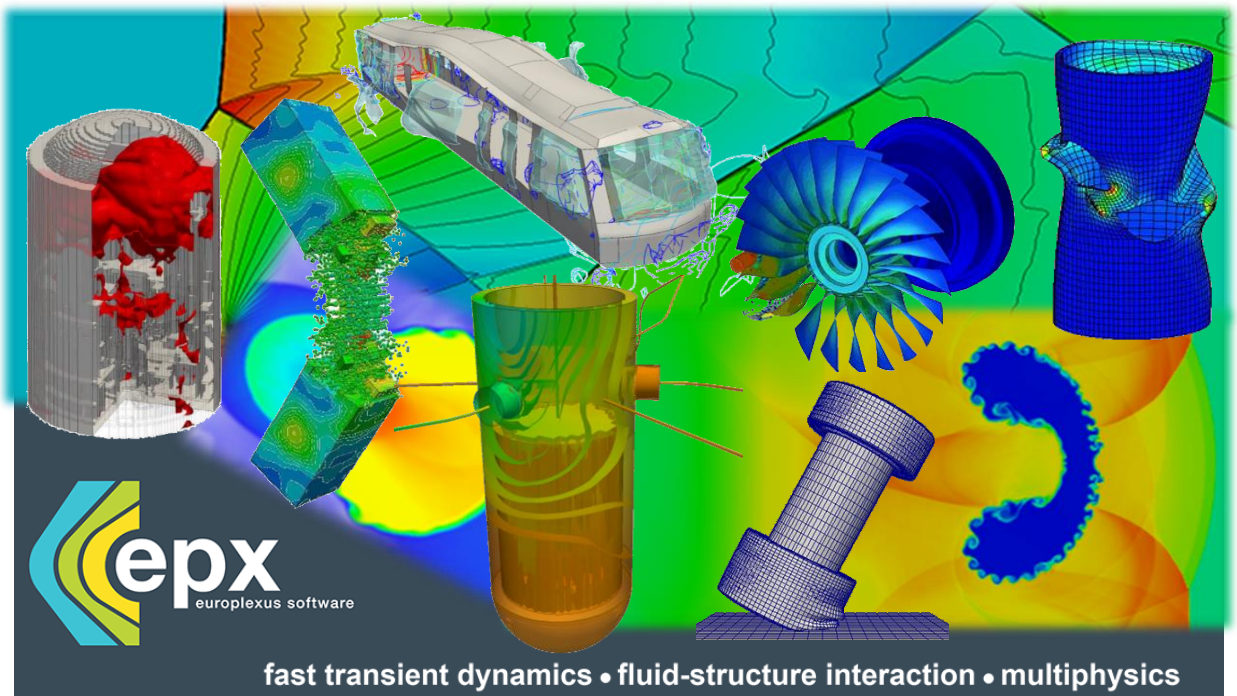




# Europlexus Users Meeting

3<sup>rd</sup> edition



**September 11th 2018**  
CEA Saclay, NeuroSpin, Gif sur Yvette, FRANCE





## Agenda

9h00	WELCOME	
9h30	Introduction	Stéphanie MARTIN (CEA)
9h40	EUROPLEXUS: New features and ongoing works from CEA	Claire GAUTHIER, Olivier JAMOND (CEA)
<b>Session 1 - Chairman : Fabienne BLIARD (CEA)</b>		
10h00	Comprehensive Verification and Validation (V&V) of 1D finite-volume modeling features for studying transient phenomena in water/vapor systems	Frédéric DAUDE (EDF R&D)
10h20	Mise en place d'une stratégie implicite/explicite multi pas de temps pour la tenue des points roulants sous chargement sismique	Michaël BRUN (LaMCoS, INSA Lyon)
10h40	Simulation of Dynamic Fragmentation of Metallic Shells	Arthur GEROMEL FISCHER (CEA, Polytechnique)
<b>Session 2 - Chairman : Folco CASADEI (JRC)</b>		
11h20	Europlexus numerical analysis at JRC	Georgios VALSAMOS (JRC)
11h50	Simulation du fouettement de tuyauteries à haute énergie	Damijan MARKOVIC (EDF DT)
12h10	A new method for fluid/structure coupling by immersed boundaries in FV	Alberto BECCANTINI (CEA)
<b>Session 3 - Chairman : Serguei POTAPOV (EDF)</b>		
14h	Hydrogen-air deflagration in the presence of concentration gradients	Sergey KUDRIAKOV (CEA)
14h20	Intégration de méthodes XFEM pour les structures minces	Thomas ELGUEDJ (LaMCoS, INSA Lyon)
14h40	Consequences of leaking fuel rods failure during Reactivity-Insertion Accident (RIA) transients – Europlexus modelling	Jérôme DELPLACE (EDF DT)
<b>Session 4 - Chairman : Paul PROFIZI (SAFRAN Group)</b>		
15h20	Mesh adaptation for fluid and structures	Vincent FAUCHER (CEA)
15h40	PI: Europlexus-based tool for water hammer calculations in complex piping systems	Hassan BERRO (EDF R&D)
16h	MEFISTO : A proto-app for Europlexus 2.0	Nicolas LELONG, Olivier JAMOND (CEA)
<b>Session 5 - Chairman : Claire GAUTHIER (CEA)</b>		
16h20	Ask-the-experts session	All
16h40	Closing remarks	Claire GAUTHIER (CEA)

## Participants

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AMBIEL	José	INSA Lyon (LaMCoS)
BECCANTINI	Alberto	CEA
BEFENO	Ignace	ASTEK
BERRO	Hassan	EDF R&D
BIANNE	Guillaume	ASTEK
BLIARD	Fabienne	CEA
BORSOI	Laurent	CEA
BOURHNANE	Akram	CEA
BRUN	Michael	INSA Lyon (LaMCoS)
BUNG	Hariddh	CEA
CARUGE	Daniel	CEA
CASADEI	Folco	
CHANTRAIT	Teddy	SAFRAN
CHEIGNON	Etienne	SIMULEASE
COLLIGNON	Christophe	FRAMATOME
DARRABA	Anthony	EDF DT
DAUDE	Frederic	EDF R&D
DEBAUD	Florent	EDF DT
DELAUNE	Xavier	CEA
DELPLACE	Jérôme	EDF DT
DUFRESNE	Benjamin	SOCOTEC
DUVAL	Arnaud	INSA Lyon (LaMCoS)
ELGUEDJ	Thomas	INSA Lyon (LaMCoS)
FAUCHER	Vincent	CEA
FORESTIER	Alain	CEA
GAUTHIER	Claire	CEA
GEROMEL FISCHER	Arthur	CEA
GUILBAUD	Daniel	CEA
GUILLOUX	Adrien	EDF R&D
HAMELIN	Alexandre	EDF DT
JAMOND	Olivier	CEA
JAN	Yannick	CEA IRFU
KUDRIAKOV	Sergey	CEA
LAFON	Philippe	EDF R&D
LANGRAND	Bertrand	ONERA
LAPORTE	Thomas	CEA
LASOROSKI	Aurélie	EDF R&D
LE GRATIET	Loïc	EDF DT
LELONG	Nicolas	CEA
LENOIR	Gilles	CEA IRFU
MARKOVIC	Damijan	EDF DT
MARTIN	Stéphanie	CEA
MEZHER	Nader	NECS
MOKHTARI	Samy	CEA
MUNOZ GARCIA	Jorge Enrique	CEA
NGO	Tri Dat	SOCOTEC
ORTIZ	Roland	ONERA
PEGONEN	Reijo	CEA
POTAPOV	Serguei	EDF R&D
POURRE BRICHOT	Patrice	CEA
PRABEL	Benoit	CEA
PROFIZI	Paul	SAFRAN
RAPEAU	Thomas	NECS
RIVETTI	Marco	SOCOTEC
ROUZAUD	Christophe	CEA
SAAS	Laurent	CEA
STUDER	Etienne	CEA
THIBON	Alfred	EDF DT
TORDJMAN	Sylvain	CEA
VALSAMOS	Georgios	European Commission, JRC
VAUGRANTE	Patrick	EDF R&D

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