

CFD for Combustion SAFETY

One day workshop at CERFACS : 21/03/2023

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Session 1: Industrial Needs

- Y. Sommerer *Airbus*
- C. Kehl *Alstom*
- M. Leyko *SAFT*
- A. Dutertre *TotalEnergies*
- B. Labégorre *Air Liquide*
- V. Blanchetière *GRTgaz*
- N. Mechtoua *EDF*

9h – 10h45

9h – 9h15

9h15 – 9h30

9h30 – 9h45

9h45 – 10h

10h – 10h15

10h15 – 10h30

10h30 – 10h45

Coffee Break: Poster Session 1

10h45 – 11h15

Session 2: Simulation for Safety | Explosions

- Q. Douasbin CERFACS *Simulation of explosions*
- O. Dounia CERFACS *Flame inhibitors*
- T. Livebardon AIRBUS *The STOHYC project: H₂ safety for aircrafts*
- T. Poinsof IMFT/CERFACS *Turbulent combustion models for H₂*

11h15 – 12h35

11h15 – 11h35

11h35 – 11h55

11h55 – 12h15

12h15 – 12h35

Lunch Break: Poster Session 2

12h35 – 14h

Session 3: Simulation for Safety | Jets and Walls

- A. Cellier CERFACS *Li-Ion battery fires*
- L. de Nardi CERFACS *Flame transmission through holes*
- L. Gallen AIRBUS *Supersonic jet flames impinging on walls*
- N. Dellinger ONERA *Response of composite walls to flames*

14h – 15h20

14h – 14h20

14h20 – 14h40

14h40 – 15h

15h – 15h20

Coffee Break: Poster Session 3

15h20 – 16h

Session 4: Experimental Validations and Databases

- E. Studer CEA *H₂ explosions and fires*
- M. Bellenoue P¹ *Experiments on battery fires*
- N. Chaumeix ICARE *Explosions*
- G. Leplat ONERA *Free fires and torches*

16h – 17h20

16h – 16h20

16h20 – 16h40

16h40 – 17h

17h – 17h20

