

WORKSHOP 2023

Fuel Cell Modeling: Understanding Charge, Mass, and Heat Transfer in Proton Exchange Membrane Fuel Cells

www.camelot-fuelcell.eu

*6-7 December 2023
Chemnitz University of Technology
Germany*

The CAMELOT project is focused on understanding the limitations in performance of proton exchange membrane fuel cells to guide the development of next generation PEMFCs.

As part of this work, a free and open source Fuel Cell Performance Model has been developed and extended to describe the transport and kinetic processes in ultra-thin, low-loaded membrane electrode assemblies.

The workshop will provide attendees an understanding of the general theory behind the model and highlight the improvements made within the project, as well as a hands-on implementation of the model through tutorial sessions supported by the FAST Simulations team.

Programme

Free registration @
www.camelot-fuelcell.eu

Wednesday December 6th, 2023

18:00 21:00 **Networking Event**

Thursday December 7th, 2023

8:30	9:00	Welcome and Introduction <i>P. Fortin, SINTEF & S. Saez, TU Chemnitz</i>
09:00	9:30	General Introduction to CAMELOT <i>P. Fortin, SINTEF</i>
09:30	10:30	General Introduction to FAST-FC <i>D. Harvey, FAST Simulations UG</i>
10:30	10:45	<i>Mid-Morning Break</i>
10:45	12:00	Thin Ionomer Model <i>J. Hrdlicka, FAST Simulations UG</i>
12:00	13:00	<i>Lunch</i>
13:00	14:00	Application of FAST-FC <i>D. Harvey, FAST Simulations UG</i>
14:00	15:30	FAST-FC Tutorials <i>D. Harvey and J. Hrdlicka, FAST Simulations UG</i>
15:30	15:45	<i>Mid-Afternoon Break</i>
15:45	17:30	Open Application and Q & A Session <i>D. Harvey and J. Hrdlicka, FAST Simulations UG</i>