

UNDERSTANDING CHARGE, MASS AND HEAT TRANSFER
IN FUEL CELLS FOR TRANSPORT APPLICATIONS

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