

SAVE THE DATE

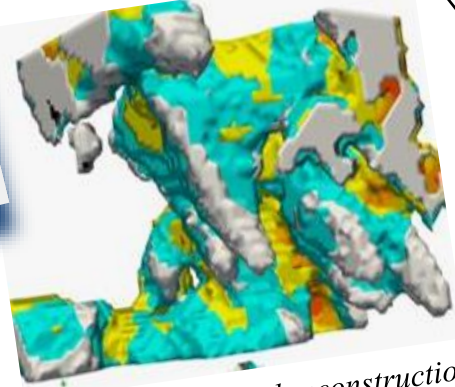


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Wednesday 11.12.2024
CEA Grenoble (France)

DOLPHIN and FURTHER-FC FINAL WORKSHOPS

*New insights in PEM Fuel cells
for automotive applications*



*Ionomer numerical reconstruction
based on 3D FIB-SEM images
of catalyst layer*

What to expect:

- ✓ Structural Analysis
- ✓ Multiscale Modelling
- ✓ Innovative manufacturing processes
- ✓ Stack improvement



*Short stack tests to evaluate KPIs:
up to 8.4 kW/kg, 6.6 kW/l,
1.8 W/cm², 28 €/kW*

**FREE PARTICIPATION
ON-SITE OR ONLINE**

Projects coordination/contact:
joel.pauchet@cea.fr

Registration to the event:
Katharina.winkler@zsw-bw.de
joel.pauchet@cea.fr



Visit Our Websites

www.further-fc.eu
www.dolphin-fc.eu

**Registration is mandatory,
Limited number of on-site participants**

AGENDA



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MORNING SESSION: DOLPHIN

Disruptive pemfc stack with nOvel materials,
Processes, archiHitecture and optimized INterfaces

Improve short stack with innovative technologies

08h30	Opening of the room, breakfast
09h00	Welcome (J. Pauchet, CEA)
	Strategic research challenges (L. Feola, Clean Hydrogen Partnership)
09h30: DOLPHIN project	
	Overview of DOLPHIN (J. Pauchet, CEA)
	Development of new MPL (F. Wilhelm, S. Saadat, ZSW)
	Innovative cell architecture up to large single cell (F. Micoud, CEA)
	Break
	Validation into innovative short stack (JP. Poirot, CEA)
	Industrial point of view (C. Vacquier, J. Rapior, Symbio)
	Discussion on stack performance increase (J. Pauchet, all)
	Discussion with the audience, concluding remarks
12h30: Lunch/Networking	



The University of Manche



AFTERNOON SESSION: FURTHER-FC

Better understand performance limitations in the cathode

14h00: FURTHER-FC project	
	Overview of FURTHER-FC (J. Pauchet, CEA)
	Characterization of the CCL structure by electron and AFM microscopy (T. Morawietz, Univ. Esslingen; L. Guetaz, CEA)
	Characterization of transport properties (A. Kucernak, ICL; A. Morin, CEA)
	Break
	Multiscale modeling performance from μm to cell scales (T. Jahnke, DLR)
	Discussion on MEA performance limitations (A. Morin, all)
	Discussion with the audience, concluding remarks
17h30: End of the workshop	



Deutsches Zentrum
für Luft- und Raumfahrt
German Aerospace Center

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