Clean Hydrogen Partnership

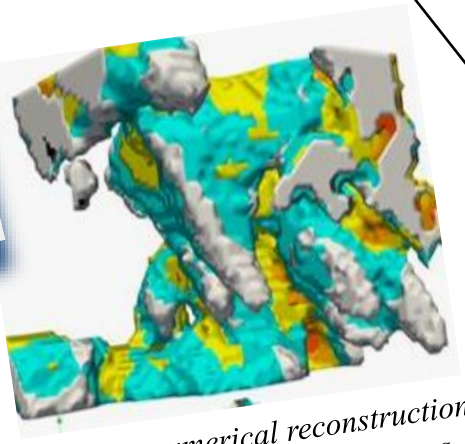
Co-funded by the European Union

SAVE THE DATE

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

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

What to expect:

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

FREE PARTICIPATION ON-SITE OR ONLINE

Registration is mandatory,
Limited number of on-site participants

Projects coordination/contact:
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Registration to the event:
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Visit Our Websites
www.further-fc.eu
www.dolphin-fc.eu

AGENDA

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MORNING SESSION: DOLPHIN

DOLPHIN — Disruptive pemfc stack with nOvel materiaLs, Processes, arcHitecture 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	

AFTERNOON SESSION: FURTHER-FC

FURTHER-FC — Understand to improve

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	

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