

Public Workshop on PEM Fuel Cells

Advances and Challenges for Durability and Degradation

Scaniasalen, Chalmers, Göteborg, March 24th 2011

Welcome to a free-of-charge public workshop that highlights the current advancements and challenges in the polymer electrolyte membrane fuel cell (PEMFC) field. Leading academic and industrial experts in the PEMFC area will give in-depth reviews focusing on critical life-length and degradation mechanisms including mitigation strategies. The workshop is part of the FP7 project DECODE, with both Volvo Technology AB and Applied Physics, Chalmers, as partners, and an activity supported by Chalmers Materials & Energy Areas of Advance.

Agenda

Morning session – General Introduction

- 09.00** Introduction to Fuel Cells
DLR (Germany), Coordinator of DECODE
- 09.30** Fuel Cells in Transportation
Volvo Technology AB (Sweden)
- 10.00** Fuel Cells as Auxiliary Power Units
Powercell Sweden AB (Sweden)
- 10.30** Hydrogen Infrastructure
Hydrogen Sweden (Sweden)
- 11.00** The KEEPEMALIVE-project
- 11.30** Fuel Cell and Hydrogen Joint Undertaking
European Commission

12.00-13.30 Lunch break

Afternoon session - Main results and conclusions of the DECODE project

- 13.30** Membrane Electrode Assembly (MEA) Degradation and Mitigation strategies
Electrodes CEA (France)
Membranes Solexis (Italy)
- 14.30** Gas Diffusion Layer (GDL) Degradation Characterization and Assessment
ZSW (Germany)
- 15.15** Investigation of the Degradation of Bipolar Plates (BPP) and Seals
DANA Victor Reinz (Germany)
- 16.00** Results on the Improved Durability and Recommendations
DLR (Germany)
- 16.30** Final words

Local organizers:

Assoc. Prof. Patrik Johansson, Applied Physics, Chalmers University of Technology, jpatrik@chalmers.se
M.Sc. Mikael Holber, Energy, Conversion and Physics, Volvo Technology AB, mikael.holber@volvo.com

Attendance is free-of-charge, but for the practical arrangements we do have a limit on the amount of attendees. Please let us know if you are coming to the workshop prior to 14/3 – by email to the local organizers. Welcome!