



3rd General Assembly · Exhibition · Drive&Ride, 4-6 October 2006, Brussels

CARISMA

Coordination Action for Research on Intermediate and high temperature Specialised Membrane electrode Assemblies

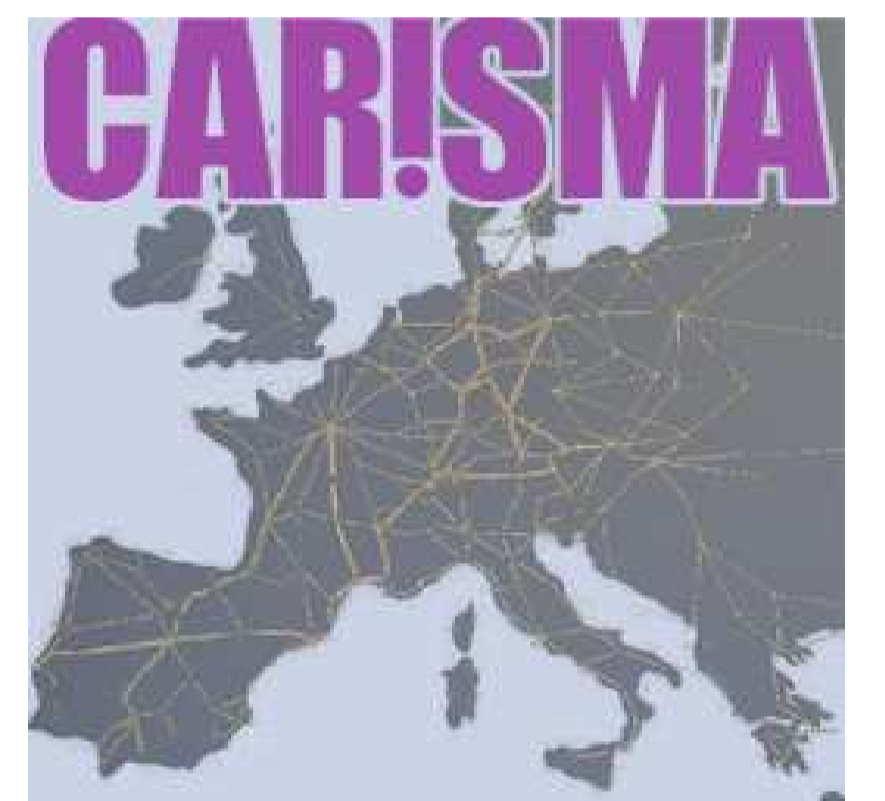
Project Objectives

A mechanism in Europe for strategic planning and discussion of R&D activities on membranes and membrane electrode assemblies for medium and high temperature operation of PEM fuel cells.

- Brings together main MEA component researchers/developers in Europe: industrial, research institute, university
- Will facilitate coordination and networking between ongoing European and national actions in the area of HT MEAs
- Will fund networking types of activities, joint studies, exchange of personnel, common initiatives, workshops, conferences
- Will support refinement of the Strategic Research Agenda of EC Hydrogen and Fuel cells Platform
- Will interact with equivalent groups in other countries
- Focus on:
- High temperature membranes Catalysts, High temperature MEAs, Impact of high temperature operation on degradation and durability, Proton transfer mechanisms under quasi-anhydrous conditions, Technical specifications for stationary and automotive applications, links with Hydrogen and Fuel Cells Platform, International Cooperation

Funding and Duration

Total costs: 1 017 560 €
 EC Funding: 560 400 €
 Duration: 24 months
 Partners: 40
 Current status: final negotiation
 Probable start date: 1st November 2006
 Contact: Deborah Jones, CNRS.LAMMI
 Email: Deborah.Jones@univ-montp2.fr
 Website: www.carisma-network.eu



Partnership

CNRS.LAMMI – Montpellier (FR) – Project Coordinator
 Bulgarian Academy of Sciences (BG)
 Chalmers University (SU)
 Max-Planck Institut für Polymerforschung (Mainz) (DE)
 Max-Planck Institut für Festkörperforschung (Stuttgart) (DE)
 Chalmers University of Technology (SU)
 Tech. Uni. Denmark (DK)
 University of Perugia (IT)
 University of Helsinki (FI)
 Kungliga Tekniska Hogskolan (SU)
 University of Lund (SU)
 University of Patras (GR)
 University of Rome Tor Vergata (IT)
 University of Rome La Sapienza (IT)
 University of Newcastle upon Tyne (UK)
 University of Surrey (UK)
 University of Stuttgart (DE)
 University of Reading (UK)
 Technical University of Munich (DE)
 Groupement de Recherche Piles à Combustible - CNRS (FR)
 Atomic Energy Commissariat, CEA (FR)
 Centre for Process Innovation (UK)
 Energy Research Centre of the Netherlands (NL)
 CNR-ITAE, Messina (IT)
 Deutsches Zentrum für Luft und Raumfahrt (DE)
 Forschungszentrum Jülich (DE)
 Forschungszentrum Geesthacht (DE)
 Paul Scherer Institut (CH)
 Zentrum für Sonnenenergie und Wasserstoff-Forschung (DE)
 Ilika (UK)
 Johnson-Matthey Fuel Cells (UK)
 Umicore (DE)
 Timcal (CH)
 Freudenberg (DE)
 PEMEAs (DE)
 Solvay-Solexis (IT)
 FuMA-Tech (DE)
 EifER-EDF (DE)
 Nuvera Fuel Cells (IT)
 Cidetec (SP)
 Volkswagen (DE)

Project Structure

