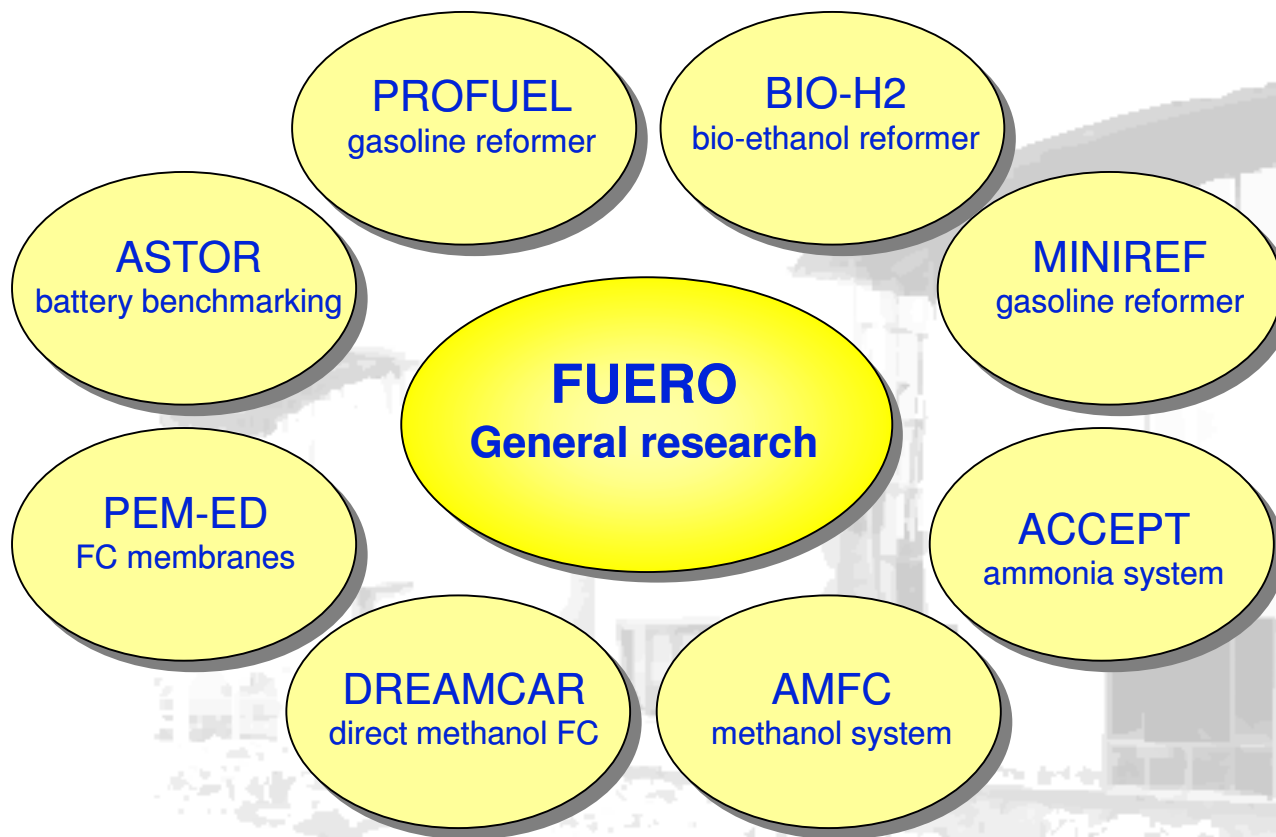


Cluster “Land Transport by Fuel Cell Technology”



9 European projects in total
with 50 partners from 14 countries:

- 20 industrial partners
(8 European car manufacturers)
- 14 universities
- 16 research organisations

Budget (total): 39,2 MEUR

Budget

fundet by EC: 25,6 MEUR

Projects on: reformers, membranes,
PEM stacks, DMFC stacks

1st Cluster - Workshop

ika

Program

20th of June 2001

19:00 Welcome by representatives of cluster coordinator and European commission, dinner

21th of June 2001

9:30 - 10:00: Presentation of the cluster concept by the cluster coordinator and European commission
10:00 - 12:30: Presentations of the cluster projects
12:30 - 14:00: Lunch
14:00 - 15:00: Presentations by the keynote speakers
15:00 - 17:00: General discussion, ideas for new projects

Conference Place:
Gothenburg, a detailed plan will be send together with the registration confirmation

Registration:
Please only use the enclosed registration form and send it to:
Cluster Workshop
Institut für Kraftfahrwesen Aachen
Steinbachstraße 10, D-52074 Aachen
FAX: +49/214/8888 -147
For questions please contact us:
email: fuerocluster@ika.rwth-aachen.de

Cluster Workshop

Land Transport by
Fuel Cell Technology

Gothenburg,
21st June 2001

organised by:

ika
RWTH

INSTITUT FÜR
KRAFTFAHRWESEN
AACHEN

VOLVO

Volvo Technological
Development Corporation

2nd Cluster - Workshop

ika

2nd Cluster Workshop

Land Transport by
Fuel Cell Technology

Orbassano/Turin
12th June 2002



organised by:

ika
RWTH

INSTITUT FÜR
KRAFTFAHRWESEN
AACHEN



CENTRO
RICERCHE
FIAT

CASELLE
AIRPORT

Programme

11th of June 2002

- 19:00 Bus transfer from the Turin Palace Hotel to Villa Verrua
- 20:00 Social dinner at Villa Verrua on the hill of Turin.

12th of June 2002

- 8:00 Bus transfer from hotel to CRF
- 8:45 Welcome addresses by CRF and ika
- 9:00 Presentations of the cluster projects
 - FUERO, M. Johannaber (ika)
 - PROFUEL, C. Jaffray (Johnson Matthey)
 - BIO-H2, G. Bollito (CRF)
 - DREAMCAR, R. Cichetti (Sodeteg-Thomson)
 - AMFC, P. Ekdunge (Volvo)
- 10:15 Coffee Break
- 10:30
 - PEM-ED, B. Bauer (FuMA-Tech)
 - ASTOR, W. Josefowitz (VW)
 - MINIREF, Mrs. H. Katz (PSA)
- 11:15 FC-Research Programme of the European Commission, B. Borthwick (EC)
- 11:40 Discussion
- 12:00 Lunch
- 13:00 Fuel Cell activities of European car manufacturers
 - DaimlerChrysler, K.E. Noreikat
 - CRF, G. Rovera
 - Ford, R. Krüger
 - GM/Opel, H. Mettlach
 - PSA, A. Klein
- 14:45 Coffee Break
- 15:00
 - Renault, J.P. Büchel
 - Volvo, G. Wirmark
 - VW, W. Steiger
- 16:00 Introduction of the FUEVA project, J.-W. Biermann (ika)
- 16:15 Integrated project on FC-Technology within the 6th Framework, J. Beretta (PSA)
- 16:30 Discussion
- 17:00 End of workshop
- 17:15 Bus transfer from CRF to hotel or airport.

3rd Cluster - Workshop



8:30 - 8:45 Welcome addresses by PSA and ika

8:45 - 10:15 Presentations

- Future activities of the European Commission regarding mobile application of FC
- FUERO (General Research)
- PEM-ED (Medium Temperature Membranes)

Coffee Break

10:45 - 11:45 Presentations

- BIO-H2 (Reformation of Bioethanol)
- DREAMCAR (Direct Methanol FC)

Lunch

13:15 - 14:15 Presentations

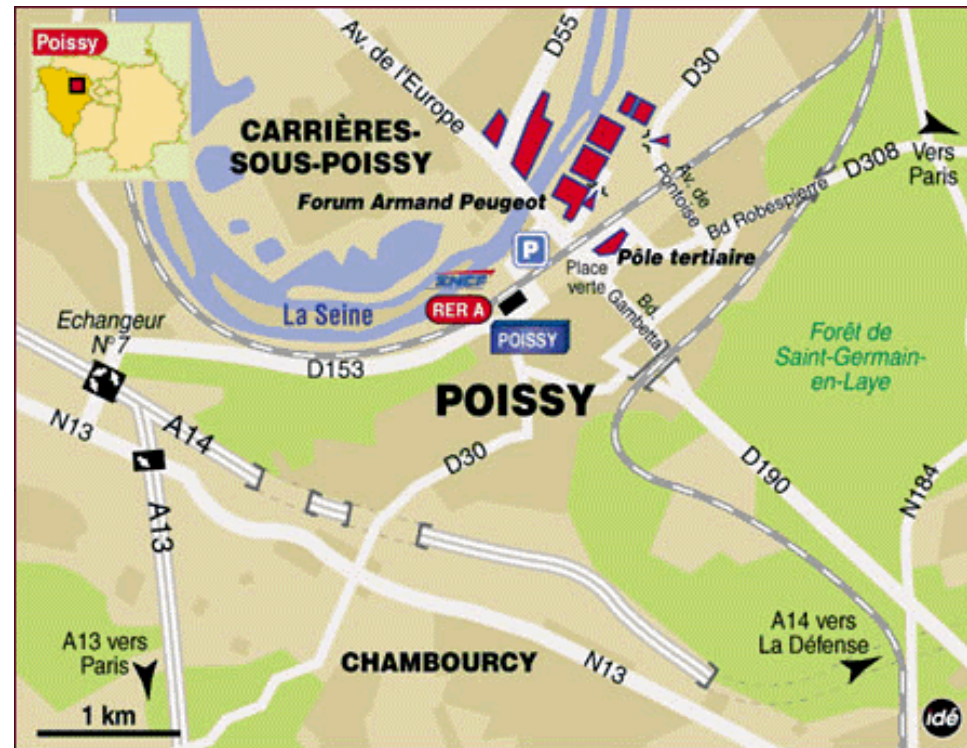
- AMFC (Methanol FC System)
- PROFUEL (Gasoline Reformation)

Coffee Break

14:45 - 16:15 Presentations

- MINIREF (Miniaturised Gasoline Fuel Processor)
- ASTOR (Electric Batteries)
- ACCEPT (Ammonia for FC)

16:15 -16:45 Final discussion and summary



Cluster Land Transport by Fuel Cell Technology

Cluster Co-ordinator: ika

FUERO ERK6-CT1999-00024
Fuel Cell Systems and Components General Research for Vehicle Applications

Partners: ika, CRF, PSA, RENAULT, VOLVO, VW, IFP
 Coordinator: ika
 Steering committee: Car manufacturers
 Budget / EC: 4.517.260 EURO / 2.501.331 EURO
 Duration: 01.07.2000 – 31.12.2003

PROFUEL ERK6-CT1999-00023
On-Board Gasoline Processor for Fuel Cell Vehicle Application

Partners: Johnson Matthey, CRF, ECN, FEV, ANSALDO, Politecnico de Torino, Volvo
 Coordinator: Johnson Matthey
 Budget / EC: 6.844.684 EURO / 3.628.352 EURO
 Duration: 01.07.2000 – 30.06.2003

BIO-H2 ERK6-CT1999-00012
Production of clean Hydrogen for Fuel Cell by Reformation of Bioethanol

Partners: CRF, ENEA, PCA, REN, IRC, QUB, UPAT, ECN
 Coordinator: CRF
 Budget / EC: 3.807.123 EURO / 2.228.562 EURO
 Duration: 01.07.2000 – 30.06.2003

DREAMCAR NNE5-2000-00213 / ENK6-CT-2000-00315
Direct Methanol Fuel Cell Development for Hybrid car

Partners: THALES, CRF, CNR-ITAE, SOLVAY, RAMOT
 Coordinator: THALES
 Budget / EC: 4.989.710 EURO / 2.899.946 EURO
 Duration: 01.02.2001- 31.07.2004

AMFC
Advanced Methanol Fuel Cell

Partners: AB Volvo, Tech. University of Denmark, Statoil ASA, Univ. of Newcastle, Norwegian Univ. of Science and Tech., Proton Motor
 FC
 Coordinator: AB Volvo
 Budget / EC: 3.358.966 EURO / 2.489.441 EURO
 Duration: 01.01.2001 – 31.12.2003

PEM-ED ERK6-CT1999-00025
Proton exchange membranes for application in medium temperature electrochemical devices

Partners: FuMA-Tech, CNRS-LAMMI, CNR-ITEA, Univ. Strathclyde, Univ. Perugia, EDF, SEFAR, IFEU, De Nora
 Coordinator: FuMA-Tech
 Budget / EC: 3.137.571 EURO / 1.601.342 EURO
 Duration: 01.03.2000 – 28.02.2004

ASTOR NNE5-1999-20138
Assessment & Testing of Advanced Energy Storage System for Hybrid Electric Vehicle

Partners: VW, BMW, CRF, DaimlerChrysler, OPEL, PSA, Renault, Volvo
 Coordinator: VW
 Budget / EC: 3.000.000 EURO / 1.200.000 EURO
 Duration: 01.04.2001, 36 months

MINIREF ENK6-2001-00515
Miniaturised Gasoline Fuel Processor for Fuel Cell Vehicle Applications

Partners: PSA, IMM, ACA, IRC, CIRIMAT, Uni. Prague, Infragas
 Coordinator: PSA
 Budget / EC: 4.700.000 EURO / 2.800.000 EURO
 Duration: 01.02.2002 – 31.01.2005

ACCEPT ENK6-2001-00580
Ammonia Cracking for Clean Electric Power Technology

Partners: INTEMA, Uni. Roma, RISOE, VITO, AM, ALE, DFG-Energie, Uni. Graz, NERF
 Coordinator: INTEMA
 Budget / EC: 2.920.000 EURO / 1.780.000 EURO
 Duration: 01.01.2002 – 31.12.2004