2nd INTERNATIONAL WORKSHOP ON

DEGRADATION ISSUES OF

FUEL CELLS

FIRST ANNOUNCEMENT and REGISTRATION



Date: 21-23 SEPTEMBER, 2011

Location: Thessaloniki, Greece











SCOPE OF THE WORKSHOP

This international workshop aims at:

- > Understanding fundamental degradation mechanisms, as well as identifying measures to increase fuel cell lifetime, robustness and reliability.
- Identifying test procedures, characterization tools & test criteria to address degradation from the MEA to the system level
- > Providing a model based approach to describe degradation phenomena
- > Identifying future R&D activities for further understanding, mitigating and reducing degradation phenomena
- Identifying methodologies for evaluation of degradation and harmonisation of test procedures.

The workshop will be comprised of plenary and parallel sessions with oral presentations, which will include state of the art reviews on degradation issues on PEFC, SOFC and MCFC. Oral presentations at the workshop are by invitation only from the committee. A selection of international experts will chair and guide the sessions. Additionally, a poster exhibition will be organised offering the opportunity to the participants, to present their research work on degradation issues. A panel discussion session will close the workshop, and will suggest future directions in fuel cell degradation research.

WHO SHOULD ATTEND

The workshop is targeted at Developers, Researchers and Business Managers.

VENUE

The workshop will be held at the Capsis Hotel <u>www.capsishotels.gr</u> in Thessaloniki, Greece. You could find more information concerning hotel registration under <u>http://fctesqa.jrc.ec.europa.eu</u> under the section "events".

WORKSHOP PROCEEDINGS

Selected oral and poster presentations will be published as a special issue of a peer-reviewed international journal.











DEADLINES

ABSTRACTS for POSTER PRESENTATIONS must be submitted via e-mail by 31st May 2011 to:

For PEFC to: <u>ludwig.joerissen@zsw-bw.d</u> For SOFC to: <u>r.steinberger@fz-juelich.de</u> For MCFC to: <u>angelo.moreno@enea.it</u> Always copy to: <u>georgios.tsotridis@jrc.nl</u>

PARTICIPATION TO THE WORKSHOP

Interested persons should complete and submit the attached pre-registration form and send it by e-mail to: ch.hake@fz-juelich.de

Pre-registration is not mandatory, but is strongly recommended because of the limited capacity. More information concerning registration fees will be announced shortly.

ORGANISING COMMITTEE

Georgios Tsotridis, European Commission, DG JRC-IE Andreas Friedrich DLR, Germany Robert Steinberger-Wilckens Forschungszentrum Jülich, Germany

Angelo Moreno ENEA, Italy Ludwig Jörissen ZSW, Germany Laurent Antoni CEA, France Sylvie Escribano CEA, France

EUROPEAN COMMISSION DRECTORATE-GENERAL Joint Research Centre















PRELIMINARY AGENDA

	Wednesday 21 September 2011	Thursday	22 Septemb	oer 2011	Friday 23 September 2011 Morning Sessions Parallel		
08:30	Morning Sessions Plenary	Ň	Norning Session Parallel	S			
	Overview of International R&D activities	Parallel Session 1 PEFC Influence of contaminants	Parallel Session 2 SOFC Influence of contaminants and fuels	Parallel Session 3 MCFC Approaches for limiting cell components degradation	Parallel Session 1 PEFC System durability	Parallel Session 2 SOFC System durability	Parallel Session 3 MCFC Stack & system durability
10:45	Coffee break	Coffee break			Coffee break		
11:00	Overview of International R&D activitie (cont.)	MEA & Stack Durability	Damage by transient operation	Degradation at cell and stack level	Durability testing procedures	Accelerated testing	Durability testing procedures
12:30	Lunch	unch Lunch Lunch POSTER EXHIBITION					











	Wednesday	21 Septemb	oer 2011	Thursday 22 September 2011			Friday 23 September 2011	
14:00	Aft	ernoon Sessions	5	Afternoon Sessions			Afternoon Session	
		Parallel		Parallel			Plenary	
	Parallel Session	Parallel	Parallel	Parallel	Parallel	Parallel		
	1	Session 2	Session 3	Session 1	Session 2	Session 3	Summary from PEFC, SOFC and	
	PEFC	SOFC	MCFC	PEFC	SOFC	MCFC	MCFC parallel sessions	
	Fundamental	Fundamental	Fundamental	MEA &	Identifying	Degradation		
	mechanisms	mechanisms	mechanisms	Stack	and	at cell and	General Discussion	
	limiting	limiting	limiting	durability	quantifying	stack level	and Identification of future	
	PEFC durability	SOFC	MCFC		degradation		activities	
		durability	durability		mechanisms			
16:00	Coffee break		Coffee break			End of Workshop		
16:15	Ex-situ and in-	Fundamental	Fundamental	Modelling	Modelling	Degradation		
	situ	mechanisms	mechanisms	Approaches	Approaches	at cell and		
	characterisation	limiting	limiting	for	for	stack level		
	of MEA	SOFC	MCFC	degradation	degradation			
	components for	durability	durability	(from MEA	issues			
	quantifying			components				
	degradation			to system				
	mechanisms			level)				
		P						
18:00	End of day 1			End of day 2				









PRE-REGISTRATION FORM 2nd INTERNATIONAL WORKSHOP ON DEGRADATION ISSUES IN FUEL CELLS

Please e-mail this pre-registration form to <u>ch.hake@fz-juelich.de</u> or send it by Fax to +49 2461 61 4155. You could download this Pre-Registration Form from <u>http://fctesqa.jrc.ec.europa.eu</u> under the section "events".

Name of participant				
Affiliation				
E-mail contact				
Telephone contact				

Do you intend to present a poster? Yes \Box No \Box





