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Deliverable

D2.12 2nd Call of H2FC Researchers Exchange Programme

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1 Introduction

Please note that this Deliverable D2.12 “2nd Call of H2FC Researchers Exchange Programme” builds on the information contained in D2.6 “1st Call of the H2FC Researchers Exchange Programme”.

D2.6, originally due to be submitted in Month 12 of the H2FC project (Oct 2012) was revised and does in fact incorporate activities up to and including May 2013. With this in mind, the information will not be repeated here. However, the information outlined in D2.6 which is relevant to this deliverable is summarised, and activities since Month 12 are summarised.

Additionally, it should be noted that due to discrepancies in the project description of work the information required within this document overlaps with that presented in D2.6, D3.3 and D3.7. To avoid duplication the majority of information is not repeated here, readers are referred to D2.6 for all other details.

The Researchers Exchange Programme (REP) of H2FC is a joint networking activity to promote the exchange of researchers within the consortium. The main aim of this activity is to reach a mutual knowledge within the consortium team and establish a fundamental technical and scientific understanding needed also to implement a personal communication flow and a cooperative environment in H2FC.

It is planned to arrange exchanges annually within the three strands of the project i.e. fuel cells, safety and storage.

Partner KIT are responsible for the organisation and coordination of the REP activities within the H2FC project.

2 REP application process

As described in D2.6 there is a REP workspace available to all partners within the internal SharePoint area of the H2FC website. The implementation of this workspace was previously described. The area remains open and accessible to all partners and the process of creating and submitting a proposal is automated. The exchanges take place between two partners in the H2FC project and a sample application form is shown in Figure 1.

REP Proposals -

REP > REP Proposals: (no title)

I Like It Tags & Notes

REP Number

Status Preparation

Title

Researcher

Further Researchers

Description of the Experiment

Description of further Experiments

Host Institution

Further Host Institutions

Installations

Visitor Institution

Further Visitor Institutions

Estimated Date

Further estimated Dates

Estimated Duration of first visit

Estimated Duration of further visits

Finish date

Local Contacts

Related to

Supervisor

Figure 1: REP application form (partial)

3 Calls for REP participation

The first call for participation in the REP was formally announced via the website as a discrete call, this is described in D2.6. However, rather than have official call opening and closing dates it was decided by the partners that it would be more beneficial to make the call on-going i.e. always open.

The intention is that partners will not be limited by dates and will be able to apply over the course of the projects via the designated web area: <http://www.h2fc.eu/rep>

Nevertheless a verbal call for REP participation was made at the 2013 H2FC Technical School in September 2013. The rationale for making a call in this manner was that all partners, active within the joint research activities were present. Thus, issuing the call at the start of the event encouraged joint discussions over the course of the week. This proved to be a successful route with two potential collaborations being brought forward. Thus it is proposed that the REP is actively promoted in this way going forward, i.e. even though the call remains open on the website there will not be discrete calls online. Instead efforts will be made so that partners are actively encouraged to participate on a regular basis, with an emphasis on presenting REP at all joint meetings such as the general assemblies and technical school.

4 REP participation months 12-24

Please see also D3.7 as there is overlap.

4.1 Overview

During this first half of the project only two applications were received. These were in the field of hydrogen safety and involved partners UU and NCSR. There have been expressions of interest from partners to undertake a REP exchange in fuel cells (Pierre Boilat, PSI and Gerard Gebel, CEA) and storage (Thanos Stubos, NCSR) it is planned that these exchanges will occur within the second half of the project.

4.2 Applications received

As described above two applications were received in the first period (from UU and NCSR), screen shots of these applications are shown below.

The screenshot shows a Firefox browser window with the URL [https://iaikit-sp2.iai.kit.edu/h2fc/rep/Lists/REP Proposals/AllItems.aspx](https://iaikit-sp2.iai.kit.edu/h2fc/rep/Lists/REP%20Proposals/AllItems.aspx). The main content is a 'REP Proposals - REP-001' form. The form includes a 'View' menu with options like 'Version History', 'Alert Me', 'Manage Permissions', 'Edit Item', and 'Delete Item'. Below the menu is a table with the following data:

REP Number	REP-001
Status	Submitted
Title	Implementation of Ulster deflagration model into the ADREA code
Researcher	Dr. Dmitriy Makarov (UU)
Further Researchers	Prof. Vladimir Molkov (UU)
Description of the Experiment	<ol style="list-style-type: none"> 1. Background: Ulster deflagration model shows good predictive capability for different conditions of experimental deflagrations 2. Detailed description of the proposed experiment: Carrying out a numerical experiment on hydrogen-air deflagration, e.g. in the open atmosphere 3. Aim: Validation of ADREA software simulations with use of Ulster deflagration model 4. Method and expected results: Physical, mathematical modelling and numerical simulations. Validation of ADREA code against experimental data, e.g. the open atmosphere deflagration
Description of further Experiments	
Host Institution	National Centre for Scientific Research DEMOKRITOS (Greece)
Further Host Institutions	
Installations	Cyber-laboratory (JRA4)
Visitor Institution	University of Ulster (UK)
Further Visitor Institutions	University of Ulster (UK)
Estimated Date	6/23/2013
Further estimated Dates	
Estimated Duration of first visit	7
Estimated Duration of further visits	
Finish date	6/30/2013
Local Contacts	Dr. Alexandros Venetsanos: venets@ipta.demokritos.gr
Related to	Cyber-laboratory (JRA4)
Supervisor	Dr. Thanos Stubos
Tutor	Dr. Alexandros Venetsanos
Comments from Reviewers	

At the bottom of the form, it says: Content Type: Item
Created at 3/15/2013 11:27 AM by Dmitriy Makarov
Last modified at 4/24/2013 2:16 PM by Dmitriy Makarov

Figure 1: REP application by Dr Dmitriy Makarov and Prof. Vladimir Molkov (UU)

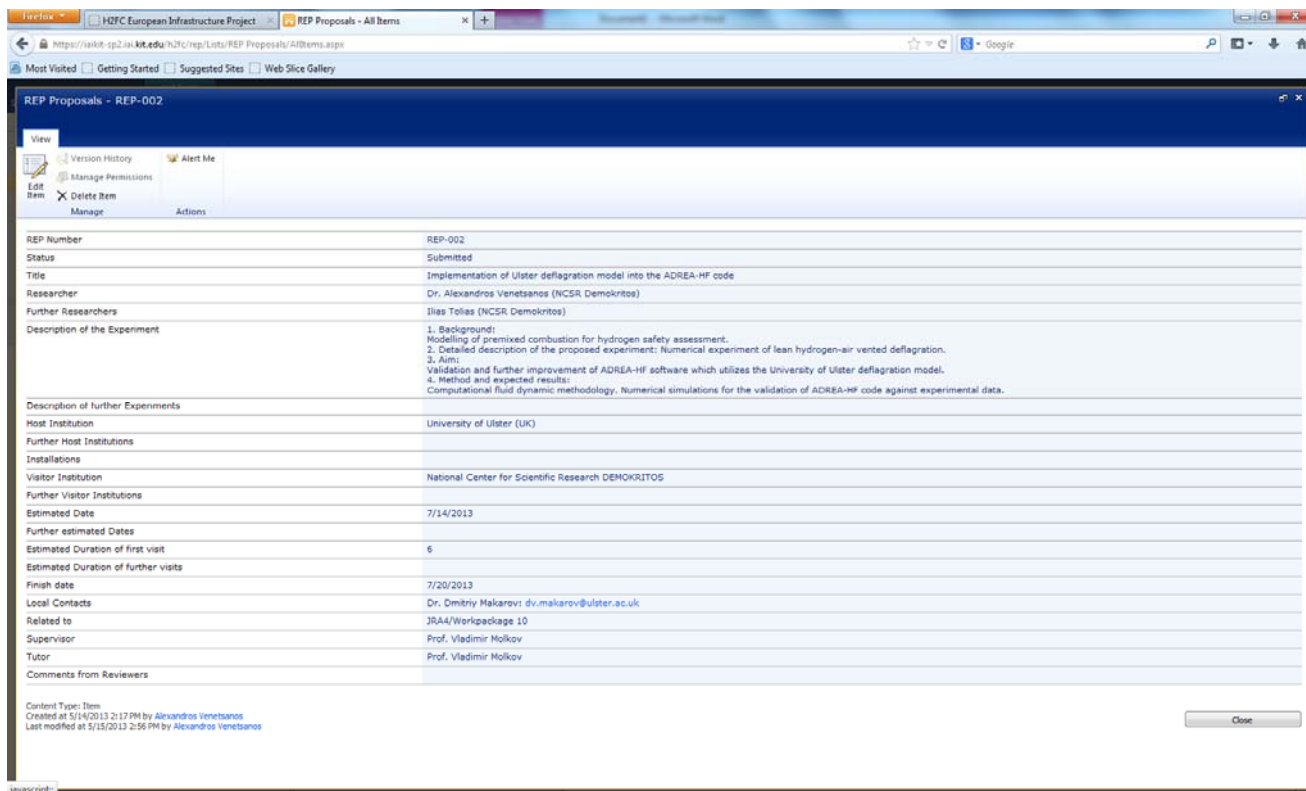


Figure 2: REP application by Dr Alexandros Venetsanos and Ilias Tobia (NCSR)

4.3 Reports on exchange visits

An exchange visit by UU researchers to NCSR occurred in month 20 of the project and this was reciprocated by NCSR visitors to UU in month 21. In line with the REP guidelines, the results of these exchanges were reported, following a template developed by EPSC. Both reports are available in the share point (<https://iaikit-sp2.iai.kit.edu/h2fc/Documents/Networking%20Activities/N2-Techn-School-And-REP/130812%20REP%20researchers%20report%20-%20NCSR%20host%20Ver3.pdf> and <https://iaikit-sp2.iai.kit.edu/h2fc/Documents/Networking%20Activities/N2-Techn-School-And-REP/130812%20REP%20researchers%20report%20-%20UU%20host%20Ver3.pdf>) and will be analyzed within D3.9.