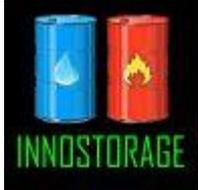


INNOSTORAGE IRSES-610692		Deliverable number:	D7.2
		Title:	Report on Staff Exchange

INNOSTORAGE – USE OF INNOVATIVE THERMAL ENERGY STORAGE FOR MARKED ENERGY SAVINGS AND SIGNIFICANT LOWERING CO₂ EMISSIONS

Beneficiaries:



Partners:



D7.2 - Report on Staff Exchanges

	Name and Institution	Date
Prepared by:	Esther Galindo Universitat de Barcelona	23 rd March, 2015
Checked by:	Prof. Dr. Frank Bruno University of South Australia Prof. Dr. Ana Inés Fernández Universitat de Barcelona	
Approved by:	Prof. Dr. Luisa F. Cabeza Universitat de Lleida	September 24th, 2015

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1 Objectives

The objectives of the secondment were:

- Assist UniSA in searching calls and apply for a financial grant to fund their secondments.
- Assist with the organization of the international conference and the deliverables.
- Help in the organization of the next training schools.
- Establish collaboration on new projects.

2 Introduction

I have been working at the Barbara Hardy Institute at the University of South Australia (UniSA), in the Thermal Energy Storage Research Group led by Dr. Frank Bruno, from the 24th September to 22nd December 2014.

While I have been in the UniSA I prepared, applied and got the International Research Grant Program in the Premier's Research and Industry Fund (PRIF) from Australia, allowing me valuable experience in preparing international grant applications and improving my knowledge of international grants as well as the H2020 from the European Union.

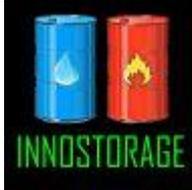
Furthermore, I studied the future collaborations between both universities, I have written a press release for the newsletter of the University of South Australia and I had meetings with the responsible of the Research and Innovation services at University of South Australia.

3 Description of work

During these 3 months, I have been in charge of the project, managing and supervising its correct development. I have prepared the deliverables and the reports required as part of the first year as WP leader on behalf of Dr. Frank Bruno.

As I was one of the first person who visit the University of South Australia I have also written the document called "Reception Plan", a document for helping the researchers of the project to find all that they need to know about the research group, the university, transport, city, where they can find a place to stay...

Moreover, I have supported the welcoming of Professor Dr. Kévy Johanes from the University of Lyon (France) as well as preparing the forthcoming arrival of two more Spanish researchers, Professor Dr. Luisa F. Cabeza from University of Lleida and Dr. Ana Inés Fernández from University of Barcelona.

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I had also written a press release to be published in the Newsletter of UniSA in February 2015, simultaneously with the visit of three overseas researchers of the INNOSTORAGE project.



Harnessing energy in a bid to lower CO2 emissions

[Back to story index](#)

by Aleisha Johnston



SCIENCE AND TECHNOLOGY

(L-R) Esther Gallindo (University of Barcelona), Dr Martin Belusko (UniSA), Dr Keyyn Johannes (University of Lyon), Associate Professor Frank Bruno (UniSA) and Dr Ming Liu (UniSA).

Researchers from UniSA's Barbara Hardy Institute are part of a new international research project that aims to reduce climate-damaging CO2 emissions through the use of low-cost energy storage.

Known as INNOSTORAGE, the project is set to make breakthroughs in energy storage technologies that could be commercialised for both domestic and industrial use.

UniSA's Associate Professor Frank Bruno says the project will bring together experts from around the world in a bid to develop an environmentally friendly and low-cost energy storage solution for the future.

He says the UniSA research team's contribution to the INNOSTORAGE project will focus on the use of Phase Change Materials (PCMs).

"PCMs are one of the most promising thermal storage technologies," Assoc Prof Bruno says.

"PCMs are materials which are able to store and release large amounts of energy when they melt and solidify at a certain temperature. PCMs can absorb and release heat when the material changes from solid to liquid, and vice versa.

"This technology is likely to provide a low-cost, improved energy storage solution that can support the expansion of renewable energy, which will help reduce energy cost and CO2 emissions."

Over the next four years, researchers will evaluate different energy storage systems using PCMs. They will look at common PCMs such as paraffin, salts and fatty acids, because these substances have high energy storage capacities within a small temperature range.

Assoc Prof Bruno says UniSA has already undertaken significant research into PCMs.

"We have already commercialised our PCM research for the refrigeration industry. We hope to make improvements to this commercial research and expand it to other areas such as air conditioning and solar power plants," he says.

As part of the research project, UniSA will host leading international experts in the field of energy storage. The project will also involve joint workshops and collaborations, as well as providing UniSA staff with opportunities to teach and conduct research in Europe.

Leading the INNOSTORAGE project is the University of Lleida in Spain, with a total budget of €142,800 (AUS202,540) from European Union funds.

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In the following link you can find the all new:

<http://w3.unisa.edu.au/unisanews/2015/February/story13.asp>

I had a couple of meetings with Leanne Haller, the Institute Manager of Barbara Hardy Institute. She explained how the Institute works and which possibilities we have to work together. I had a meeting Craig Hill who is the responsible of the Research and Innovation services at University of South Australia and the person in charge for the Premier's Research and Industry Fund (PRIF).

In November 2014, I prepared an application for the International Research Grant Program within the Premier's Research and Industry Fund (PRIF) from South Australia, which gives researchers from UniSA the possibility to receive funding for the secondments required by the European Union. Finally in May 2015 they got the Grant for develop the project.

4 Results

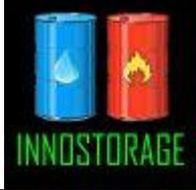
The results have been:

- ✓ Document with the "Reception plan" of the UniSA.
- ✓ Meetings for future collaborations to explore while the visit of the Prof. Dr. Ana Inés Fernández in January.
- ✓ I prepared, applied and got the International Research Grant Program in the Premier's Research and Industry Fund (PRIF) from South Australia.

5 Outcomes or future work

The best outcome of my stage in the University of South Australia was to obtain the International Research Grant Program in the Premier's Research and Industry Fund (PRIF) from South Australia. The secondment has been productive in several ways: on one hand because I had the possibility to improve my knowledge about International grants and on the other hand because this grant will provide to the UniSA's researchers the funding necessary to develop the project.

The future work will be to prepare more collaborating projects.

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6 Assessment

It was a pleasure to spend three months at the University of South Australia in Adelaide under the supervision of Dr. Frank Bruno. It was a very profitable experience to work with the entire research group and to learn of the different types of grants and calls that they can apply for. Working in another country has allowed me to discover different ways of working and improving my communication and writing skills in English. Besides, I would like to say thank you to all the researchers and the staff of the UniSA who help me the first weeks and make my secondment pleasant.