

SG139 : Report from visit to Lews Castle College

Simon Waldman, ICIT, 28/09/2013

Purpose & Description of visit

I was awarded £425 from the MASTS Small Grants Scheme to visit Lews Castle College (UHI) in Stornoway, to meet with other PhD students who are, as I am, associated with the TeraWatt project.

I visited LCC as planned on 18th & 19th September and spent both days with the marine renewable energy group there. I was also able to meet socially with some of them during the evenings.

Use of funds

Hostel accommodation was not available for the nights in question, but my hosts at LCC were kindly able to host me in their homes for two out of three nights. The remaining night was spent in a B&B.

The mileage claimed was slightly higher than originally specified, as the coincidence of dates allowed me to go via Inverness and attend the Scottish Renewables Marine conference en route to LCC. However, my spend on subsistence was lower than expected due to my hosts' hospitality, and so the total amount claimed is consistent with the original application.

Type of expense	Cost
Mileage	£125.60
Ferry fares	£199.22
Accommodation	£50.00
Subsistence	£49.79
Total	£424.61

Outcomes

Intended outcome (as per grant application)	Description of activity
Contact between a number of early stage researchers in Scottish marine science, leading to better understanding by all of us of the work that the others are doing, and improvements in communications and collaborations.	I was able to spend time with four members of LCC's marine energy group, including two other PhD students. This worked well for us to get to know one another and share experiences. I have become more familiar with the work that is done at LCC and the facilities available there, including the wave tank and computing cluster.
Exchange of knowledge and experience regarding the MIKE modelling suite, which is being used at both sites, for the benefit of TeraWatt and	I spent time with Charles Greenwood, who is a PhD student working on wave modelling in the MIKE21 software. He went through the use of MIKE21/3 for wave modelling, and I did the

<p>of individual PhD projects.</p>	<p>same for him for flow modelling. Together, we constructed a simple coupled wave & tide model. This has provided good insight for us both into this process, which we will need to go through later in the Terawatt project.</p>
<p>Exchange of knowledge and experience regarding cluster computing for marine modelling, which will feed into upcoming investment decisions by ICIT and lead to an improvement in marine modelling capabilities in Scotland.</p>	<p>I met with James Morrison, a PhD student at LCC who administers their computing cluster. We visited the cluster and then James advised on and demonstrated the management tools that are used for it. We discussed some of the challenges that LCC faced in getting the Delft3D software to run across multiple machines. This experience will feed into the purchasing process for ICIT's own planned cluster.</p>

Future plans

There are no plans to build directly on this visit. However, the outcomes above will contribute towards the success of the Terawatt project, and to a number of PhD projects at ICIT and LCC.

Thank you to MASTS for this opportunity.