

# euRathlon 2015

17<sup>th</sup> - 25<sup>th</sup> September 2015,

Piombino, Italy

## Team Information Form

### Team Details

Team Name: Team Nessie

Institution/Company: Ocean Systems Laboratory/Heriot Watt University

Logo (attach or insert here):



Website: [osl.eps.hw.ac.uk](http://osl.eps.hw.ac.uk)

Home location of team: Edinburgh, Scotland, UK

Name of team leader: Mariela De Lucas Alvarez

Picture of team leader (attach or insert here):



When was the team established (year): 2015

Team Description (including names of the team members):

Team Nessie 2015 is formed by a group of PhD students belonging to various programs and cohorts of Heriot Watt University.

Robocademy is a Marie Curie ITN that will establish a European training and research network to develop key skills and enabling technologies in underwater robotics for the scientific and economic exploration of the seas, through the close collaboration of research institutes, academia, industry and small-medium enterprises.

<http://www.robocademy.eu/>

The RAS CDT is the main program in the Edinburgh Centre for Robotics. Its goal is to train innovation-ready robotics researchers to be part of a multi-disciplinary enterprise, requiring sound knowledge of physics (kinematics, dynamics), engineering (control, signal processing, mechanical design), computer science

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(algorithms for perception, planning, decision making and intelligent behaviour, software engineering), as well as allied areas ranging from biology and biomechanics to cognitive psychology.

<http://www.edinburgh-robotics.org/>

Team Nessie is:

NAME	AFFILIATION
Marian Andrecki	Heriot-Watt University
Corina Barbalata	Heriot-Watt University / Seebyte
Mariela De Lucas Alvarez	Heriot-Watt University / Robocademy
Mariia Dmitrieva	Heriot-Watt University / Robocademy
Thomas Guerneve	Seebyte / Robocademy
Samy Nascimiento	DFKI (German Research Centre for Artificial Intelligence) / Robocademy
Raluca Scona	Heriot-Watt University / Centre for Doctoral Training in Robotics and Autonomous Systems
Matias Valdenegro	Heriot-Watt University / Robocademy
Roelof van den Berg	Atlas Elektronik / Robocademy
Bilal Wehbe	DFKI (German Research Centre for Artificial Intelligence) / Robocademy

Team Sponsors (if any):

Robocademy / Seebyte / Heriot Watt

### Contact Details

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Heriot-Watt University  
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Scotland

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If you are a single- or two-domain team, do you wish to team-up before or during the competition to create a multi-domain team?

Yes: \_\_\_\_\_ No:  X

*NOTE: To further promote multi-domain teams, teams who participate in any combined scenario, or wish to team-up (before or during the competition), will be given priority over teams that register for single-domain trials only.*

## euRathlon 2015 Scenarios selection

Please check all scenarios you wish to enter and give the name(s) of the robot(s) you plan to use in each scenario.

euRathlon 2015 Scenarios		Domain	Name of the robot(s)
	The Grand Challenge: Combined air, land and sea.	Air:	
		Land:	
		Sea:	
	Sub-challenge (L+A): Survey the building and search for a missing worker.	Land:	
		Air:	
	Sub-challenge (S+A): Pipe inspection and search for a worker.	Sea:	
		Air:	
	Sub-challenge (L+S): Stem the leak.	Land:	
		Sea:	
	Land Trial (L1): Reconnaissance in urban structure.	Land:	
	Land Trial (L2): Mobile Manipulation (valve open/closing).	Land:	
	Sea Trial (S1): Navigation and environmental survey.	Sea:	NessieVII / Emily
	Sea Trial (S2): Leak localisation and valve open/closing.	Sea:	NessieVII / Emily
	Air Trial (A1): Aerial detection and mapping.	Air:	
	Air Trial (A2): Aerial reconnaissance inside a building.	Air:	

*NOTE-1: This is an indicative table. New robots/scenarios may be added or substituted before the competition, in which case a new vehicle specification sheet and/or updated SAP must be submitted.*

*NOTE-2: If you wish to participate in the Grand Challenge, we strongly recommend that you participate in sub-challenges and trials, as they have been designed as training for the GC. Two-domain and three-domain teams who wish to participate in the Grand Challenge will be expected to participate in a minimum of two sub-challenges and four trials.*