



**The FREESUBNET Project:
A Marie Curie Research Training Network**

*Professor Philip Wilson
School of Engineering Sciences
University of Southampton*



Tuesday, May 12 (13h30 – 15h10)

Focke-Wulf Saal

Towards AUV docking on subsea structures

Szymon Krupinski, Cybernetix SA

Salon London

**Integrating recent and future marine technology in the design of
Marine Protected Areas - the Azores as case study**

Mara Schmiing, University of the Azores

Salon Scharoun

**Sonar-based AUV localization using an improved particle filter
algorithm**

Francesco Maurelli, Heriot-Watt University

Tuesday, May 12 (15h40 – 17h20)

Focke-Wulf Saal

**Portability Investigation of Space Docking Techniques for AUV
Docking**

Francesco Maurelli, Heriot-Watt University

Wednesday, May 13 (10h40 – 12h00)

Salon Bergen

**Pose-Based SLAM with Probabilistic Scan Matching Algorithm
using a Mechanical Scanned Imaging Sonar**

Angelos Mallios, University of Girona

The FREESUBNET Project 2

Wednesday, May 13 (10h40 – 12h00)

Salon Bergen

Vision Based Localization System for AUV Docking on Subsea Intervention Panels

Tomeu Palmer, Marexi Mediterranean

Coordinated Path following Control of Multiple Nonholonomic Vehicles

Xianbo Xiang, University of Montpellier, LIRMM

Wednesday, May 13 (13h30 – 15h10)

Salon Bergen

Path Planning for Multiple Marine Vehicles

Andreas Häusler, Instituto Superior Tecnico (IST), Lisbon, Portugal

Thursday, May 14 (08h30 – 10h10)

Salon Danzig

Online video mosaicing through SLAM for ROVs

Fausto Ferreira, National Research Council (CNR), IEIIT

Salon Scharoun

Maritime Surveillance and Monitoring using Autonomous Vehicles with Conditional Integrator-based Control

Mernout Burger, Norwegian University of Science and Technology

Thursday, May 14 (13h30 – 15h10)

Salon Danzig

An Economically Rational Selection of Submarine Hull Materials

Max Blanco, University of Southampton

Development of filler wire for underwater welding as a repair tool for adaptation on AUV

Yana Lizunkova, Leibniz University of Hanover

