

## Session 9a

# LME-LEARN: moving forward: focus on capacity development

Chair: Wojciech Wawrzynski

Institution: International Council for the Exploration  
of the Sea

Rapporteur: Peter Pissierssens, IOC/IODE

**Objective:** This session will inform the participants about recent achievements and future plans in the field of **LME capacity development**, and also identify **opportunities for capacity building cooperation** between projects

## **Expected outcomes:**

Improved cooperation

Identification of future joint-actions

17th

LME

PARIS 2015

- Wojciech Wawrzynski (ICES): ICES training actions and the LME-LEARN twinning plans
- Peter Pissierssens (IOC/IODE), Lucy Scott (ASCLME, OTGA SGIOC): Training actions in the LME-LEARN context including Ocean Teacher Global Academy
- Kenneth Sherman (NOAA): MOOC
- Mish Hamid (IW-LEARN): IW:Learn past and future plans
- Antoine Blonce (IMO): Online tools/the learning portal of the Globallast programme



Open discussion on potential  
interactions, twining in relation  
to capacity development  
activities in between  
LME:Learn and other projects

# ICES training actions and the LME-LEARN twinning plans

Author: Wojciech Wawrzynski

Institution: International Council for the Exploration  
of the Sea

Session 9a. LME-Learn and capacity development

Day of presentation: 2nd October 2015

# WHAT WE DO

› [Our strategy](#)

› [Science](#)

› [Advice](#)

› [Marine data](#)

› [Publications](#)

› **[Training](#)**

› [Position papers](#)

## Training

Strengthening careers, broadening knowledge, and expanding professional networks.

ICES Training Programme offers courses by high-profile scientists and instructors. The objective of our training is quality assurance in the advisory process.

The training programme:

- ensures that expert group members and other participants of the scientific and advisory process have the skills needed to deliver high quality advice;
- provides common understanding of ICES advisory practice;
- disseminates understanding throughout the ICES community and beyond;
- intensifies cooperation with experts from other organizations to introduce new disciplines and perspectives to ICES science and advice.

Our training programme is a part of European networks such as Aqua-tnet, and, alongside other ICES work and projects, contributes towards the implementation of the [EU Marine Strategy Framework Directive \(MSFD\)](#).

The programme also offers courses on specific MSFD issues as requested by our member countries

Go to the [Training page](#) to find out more.

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# ICME

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46 courses have been offered 2009-2015, including...

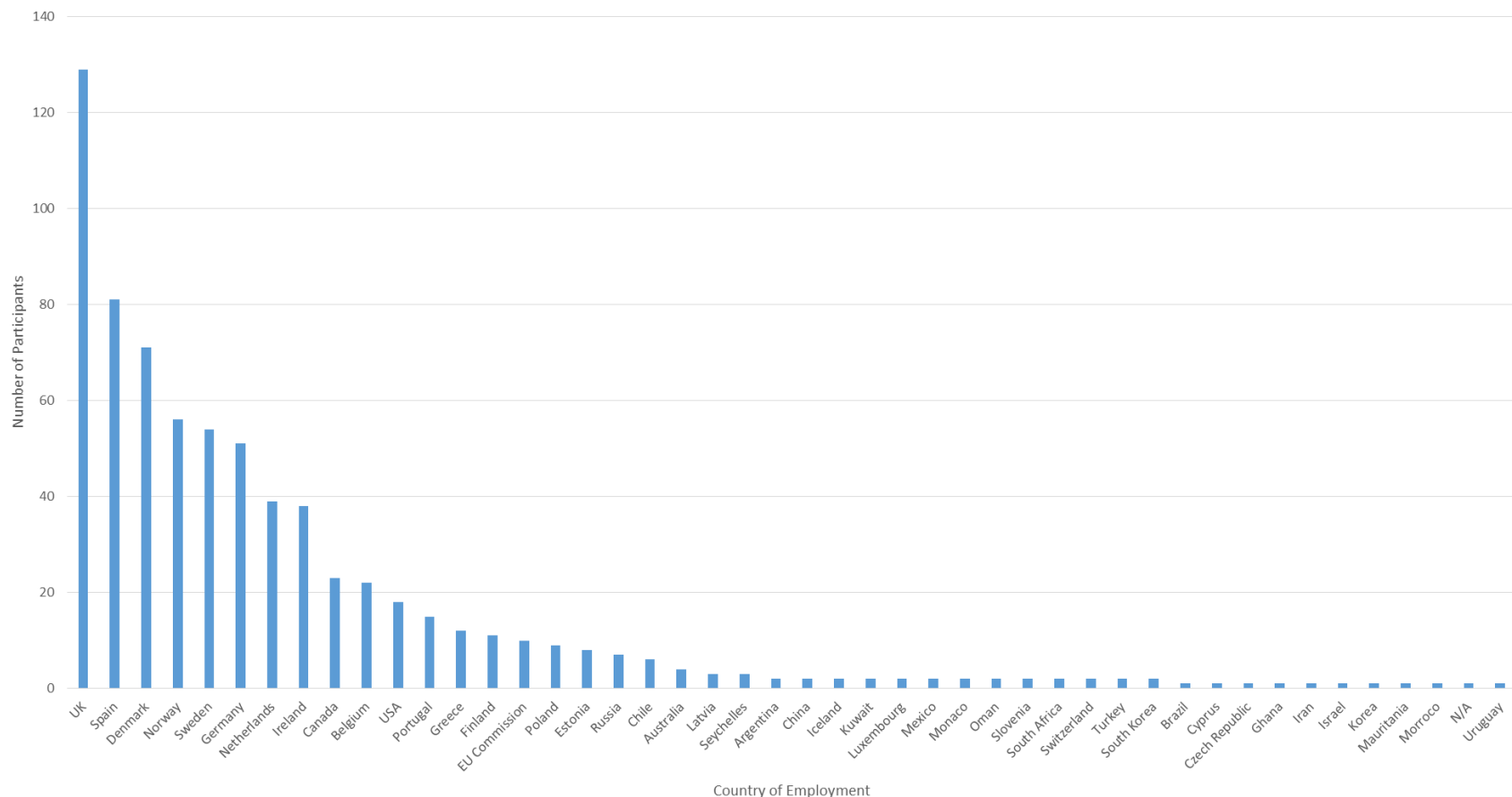
- Stock assessment (introductory and advanced)
- Ecosystem modelling
- Bayesian inference
- Model building
- Management strategy evaluation
- Fisheries advice for stakeholders
- Trawl survey design and evaluation
- Integrated ecosystem assessment
- Analysing and visualization of VMS data
- Communicating Science and Advice
- How to Lead an Effective Technical Meeting

More than 500 students have attended ICES courses from over 30 countries





Training Participants at ICES Secretariat (2009-2014) by Country of Employment



# **Galway Statement on Atlantic Ocean Cooperation**

## **Launching a European Union - Canada - United States of America Research Alliance**

The Signatories of this Statement meeting on the occasion of the high level event

*The Atlantic – a Shared Resource, held on*

*23 and 24 May 2013*

*at the Marine Institute, Galway, Ireland*

*Recognizing the importance of the Atlantic Ocean to our citizens, prosperity, human health and well-being, adaptation to climate and other environmental change, and security,*

*Cognizant of our reliance upon the best available science and knowledge to inform decisions affecting the Atlantic Ocean,*

*Realizing that our countries face similar challenges in promoting a healthy and well-understood Atlantic Ocean,*

*Acknowledging the critical interlink between the Atlantic Ocean and the portion of the Arctic region that borders the Atlantic,*

*Appreciating the value of our ongoing cooperation on ocean science and observation in the Atlantic Ocean, and*

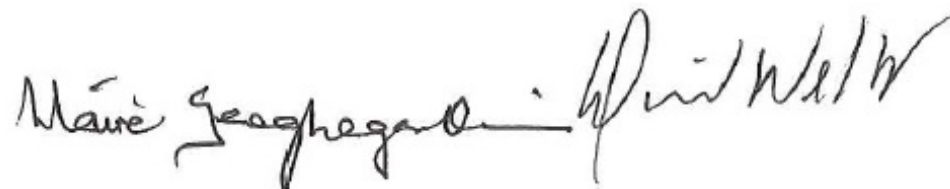
*Valuing the essential role of international partnership to achieve our shared objectives and the potential of greater cooperation to advance our knowledge of the Atlantic Ocean.*



This initiative is also expected to reinforce existing international efforts to advance our knowledge of the ocean, including the World Ocean Assessment.

Signed in Galway on 24 May 2013 in three originals in the English language.

**For the European Union**



**Máire GEOGHEGAN-  
QUINN**  
Commissioner for Research,  
Innovation and Science

**For the Government of  
Canada**



**Edward FAST**  
Minister of International  
Trade and Minister for the  
Asia-Pacific Gateway

**For the Government of the  
United States of America**



**Dr Kerri-Ann JONES**  
Assistant Secretary of State  
for Oceans and International  
Environmental and Scientific  
Affairs



## The Galway Statement and ensuing bilateral talks between US and EU have identified five thematic areas:

- ocean stressors
- aquaculture
- observing systems
- marine microbial ecology
- ocean literacy







## United Nations Development Programme

Country: Global

PROJECT DOCUMENT<sup>1</sup>



**Project Title:**

Strengthening Global Governance of Large Marine Ecosystems and Their Coasts through Enhanced Sharing and Application of LME/ICM/MPA Knowledge and Information Tools : LME: LEARN

**UNDAF**

**Outcome(s):**

NA

**UNDP Strategic Plan Environment and Sustainable Development Primary Outcome:**

**Outcome 7.** Development debates and actions at all levels prioritise poverty, inequality and exclusion, consistent with our engagement principles

**UNDP Strategic Plan Secondary Outcome:**

7.5 South-South and Triangular cooperation partnerships established and/or strengthened for development solutions

**Expected CP Outcome(s):** NA

**Expected CPAP Output (s):** NA

**Executing Entity/Implementing Partner:** UNESCO IOC,

**Implementing Entity:** UNDP



# **Component 3:**

## **Capacity and partnership building through twinning and learning exchanges, workshops, and training among LMEs and similar initiatives**

**Outcome 3.1: Increased collaboration and learning exchanges South-to-South between the GEF LME, MPA and ICM projects, and North-to-South and South-to-North partnerships with non-GEF marine and coastal initiatives to build capacity and develop training and education materials.**

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**Outcome 3.2: GEF LME/ICM/MPA practitioners trained in new techniques and approaches for ecosystem-based 5-modular assessment, management and governance practices for ecosystem and mitigation of effects of climatic variability and change in LMEs.**





## **Outcome 3.3:**

**Increased capacity of GEF LME, ICM  
and MPA project staff and  
practitioners, to address the new  
ecosystem-based governance priorities.**

**Implement training strategy that is based on the short-term Capacity Development Survey and included in the Results Report.** Training modules could include stock assessments, life history studies, protected resources monitoring and assessment, aquaculture science and management, the role of economics and social science in ecosystems assessment, enforcement and compliance, weather modeling, climate change, modeling, coastal science and management, ecosystem studies, etc.). Proper attention will be paid to the use of TDA and SAP as tools for ecosystem management projects.



**Develop training modules appropriate for on-site training or web-based training. Project will use existing modules where possible.**

**IW:LEARN will fund the training platform for dissemination of training modules.**

**High priority areas for short-term training have been identified in the IOC 2014 survey as:**

- **ecosystem based management and governance**
- **integrated ecosystem assessment**
- **quantitative skills**
- **fisheries**
- **technical skills**
- **cross-cutting subjects**



GLOBAL SUPPORT FOR LME/ICM/MPAs PROJECTS OR INTERVENTIONS

Capacity development  
Survey Results Report

Patricio A. Bernal  
CONSULTANT

[Contract GEF GLO 0085821 – 4500215522]

**New ideas?**





European  
Commission

# BLUE GROWTH

71%  
of the Earth surface  
is **WATER**



ICES  
CIEM



# The **5** Blue Growth sectors



## **Biotechnology**

medicines,  
industrial enzymes



## **Renewable energy**

wind, waves,  
tides, biofuel



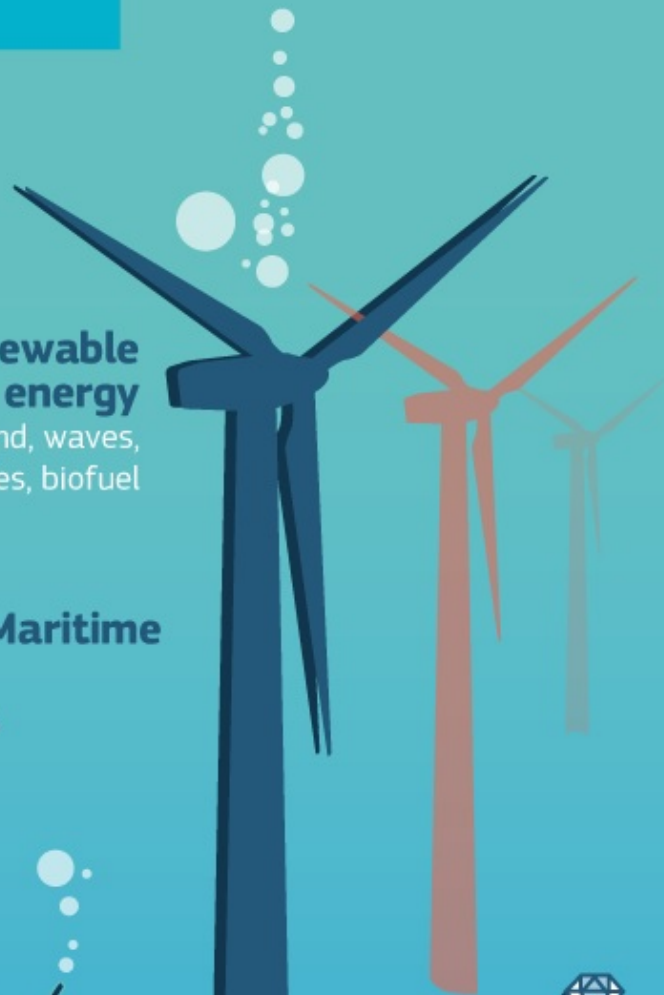
## **Coastal & Maritime Tourism**

coastal tourism,  
cruise tourism,  
yachting



## **Aquaculture**

farming of fish,  
shellfish, marine plants



## **Mineral resources**

gravel, sand,  
zinc, cobalt,  
copper

Suggestion: LME-LERAN north-south training 2016-2017, with **the Permanent Commission for the South Pacific** on various aspects of **Blue Growth**.

Topics initially suggested: science input to the blue economy, valuation of ecosystem goods and services and all aspects of aquaculture development (sector growth and its impact on wild living resources and environment, aquaculture carrying capacities, social and economic aspects of aquaculture development).





Dr. Wojciech Wawrzynski

Projects Coordinator, Deputy Head of Science Programme

Working Group on Resilience and Marine Ecosystem Services

Working Group on Social and Economic Dimensions of Aquaculture

Working Group on Large Marine Ecosystem Programme Best Practices

International Council for the Exploration of the Sea

Visiting Scholar Berlin School of Economics and Law

European Association of Environmental and Resource Economists

