



Blue Med Conference Rome June 2017

*M.Cristina Pedicchio
President National Institute of Oceanography
and Experimental Geophysics*



The Italian contribution to blue growth strategy



Bluemed Research and innovation initiative for blue jobs and growth in the Mediterranean area

Strategic research and innovation agenda

Higher education in marine science and technology is not a marginal concern, it stands centrally

Blue Jobs

The 'blue' economy represents roughly 5.4 million jobs and generates a gross added value of almost €500 billion a year.

Growth in the blue economy will require an appropriately skilled workforce, able to apply the latest technologies in an integrated approach.

The “new 21st century” marine-maritime scientist will need to possess both a cross and multidisciplinary perspective.

The Future of Jobs and Skills

- ✓ New **categories of jobs will emerge**, partly or wholly displacing others.
- ✓ 65% of children entering primary school today will ultimately end up working in completely **new job types that don't yet exist**
- ✓ What will be the blue jobs of the future?

The Project - Enhancing competencies in the Marine and Maritime sectors: an opportunity for the Mediterranean countries

A knowledge Platform on “Blue Economy” for a sustainable and responsible growth of the Mediterranean Region



Ministero dell'Istruzione, dell'Università e della Ricerca



Within the framework
of the BLUEMED
initiative



Ministero dell'Istruzione, dell'Università e della Ricerca

Partners



ORGANIZED BY



Robert Bosch **Stiftung**

IN COLLABORATION WITH



UNDER THE PATRONAGE OF



THANKS TO A GRANT OF FONDO TRIESTE

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e di Geofisica Sperimentale

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Istituto Nazionale di Oceanografia
e di Geofisica Sperimentale

Summer School on

Sustainable Blue Growth in South East Europe

**14-18
July 2014**

venue: *Kastler Lecture Hall,
Adriatico Guesthouse (AGH)
Building, ICTP Campus
Via Grignano, 9, 34151 Trieste*





Istituto Nazionale
di Oceanografia e di Geofisica Sperimentale

Advanced Training School on Sustainable Blue Growth in Mediterranean and Black Sea countries

20-24 July 2015

Kastler Lecture Hall

Adriatico Guest House, the Abdus Salam

International Centre for Theoretical Physics (ICTP)

Via Grignano n. 9, Trieste



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*In the context
of the BLUEMED Initiative*

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Trieste, 4-8 July 2016



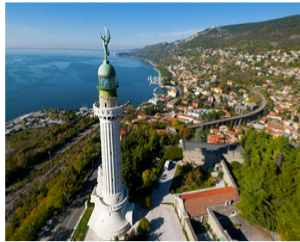
Sustainable Blue Growth in Mediterranean and Black Sea countries

Building capacities and developing skills in the marine and maritime sectors

Dates: 4-8 July 2016

Venue: Adriatico Guest House, the Abdus Salam International Centre for Theoretical Physics (ICTP), Via Grignano n. 9, TRIESTE

Taking into consideration the current economic crisis and the evolving political, social and environmental conditions in the Mediterranean Region, there is a need to put together multidisciplinary actors from different countries, make ideal environment for constructive dialogue (science diplomacy) and create all conditions that include the role of people, economics and policies to attract investments while reconciling tensions and balancing priorities between economical growth, social implication and environmental conservation.



Tackling climate change, understanding ecosystem function, managing sustainability: all of these require a much more tangible initiatives and strategies. Hence, the EU Blue Growth initiative represents a long-term strategy to support growth in the maritime sector as a whole by harnessing the untapped potential of Europe's oceans, seas and coasts for jobs creation and economic growth. Establishing appropriate training and mobility opportunities to train new generation of scientists, technicians and operators, in the marine and maritime sectors, equipped with appropriate skills to bridge the gap between scientific research and sustainable development and support the creation of career opportunities in the blue economy represents an important part of this strategy.

UNIQUE OPPORTUNITY



In this context, OGS, the Italian National Institute of Oceanography and Applied Geophysics, in collaboration with other partner-institutions is organizing an advanced training school in Trieste for researchers, scientists and managers from the Mediterranean and Black sea Countries.

OGS intends to support the creation of stable and attractive career pathways and highly skilled talents that will be needed to support expanding marine and maritime sectors.

The focus of the training school is on strengthening professional skills and enhancing competencies in fields related to the blue economy.

Specific objectives

- to increase the professional skills and the quality of research in the field of marine sciences, climate related aspects, environmental protection and integrated management of coastal areas;
- to increase the educational offer to extend the current economic development and growth, with particular focus on activities and aspects related to the sea;
- to identify actions, partnerships and financing instruments that can help scale up activities that ultimately result in sharing research outcomes and disseminating scientific knowledge.



Target beneficiaries

The School will be addressed to scientists, researchers, post-doctoral fellows and Ph.D. students dealing with aspects related to oceanography (physics, chemistry and biology), marine biology, geology, geophysics, geochemistry, environmental engineering, ecological modelling, climate study, coastal zone management and other related fields. Project managers, economists and policy-makers are also eligible to participate. However, applicants should be able to demonstrate their ability particularly to assimilate new concepts related to Blue Growth particularly aspects related to economic growth, environmental protection and societal challenges. A high level scientific committee will follow a well defined selection criteria and only motivated and qualified candidates will be selected.

Only 2 candidates per each eligible country will be selected and granted fellowships. Additional candidates supported by their institutions might be considered if they ensure supporting their own costs. Highly qualified professors will be invited to lecturing and tutoring during the School.

Target countries

Eligible participants are coming from the Mediterranean and Black Sea countries (Albania, Algeria, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Egypt, France, Greece, Israel, Italy, Jordan, Macedonia, Malta, Mauritania, Morocco, Montenegro, Lebanon, Libya, Palestine, Portugal, Romania, Serbia, Slovenia, Spain, Tunisia, Turkey and Ukraine).



2016 Topics

- ✧ Fostering innovation in the Blue Economy: creating value from innovation
- ✧ Climate change, governance and adaptation
- ✧ From observing systems to products and services for science and society: marine knowledge from observation and collection of marine and coastal data to information, products and services for intermediate and end-users
- ✧ Future of offshore hydrocarbon exploration
- ✧ New threats for the marine environment: microplastics, munitions in the sea, oil spills hazards, etc.



Trieste, 10-19 July 2017

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Science Diplomacy



Carlos Moedas European Commissioner:

...I believe science diplomacy is the torch that can light the way, where other kinds of politics and diplomacy have failed.

- *.....we must use the elevated language of science for its remarkable uniting power.*

SD is a well established activity in Trieste thanks to ICTP, TWAS, OGS....

Western Mediterranean Forum (Euro Mediterranean Dialogue 5+5)

Italian Presidency 2017-2019 coordination by OGS



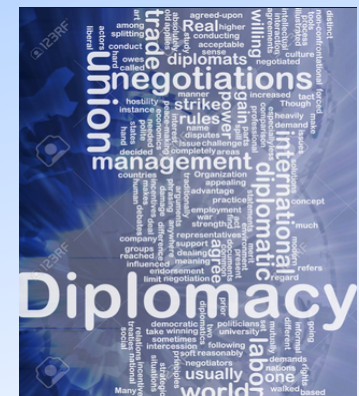
**RESEARCH,
INNOVATION AND
HIGHER
EDUCATION**



Master's Degree in Sustainable and Responsible Blue Growth



- Increase the professional skills thus contributing to the creation of new professional profiles and more chances for job opportunities;
- Expose students to cross cutting issues in the field of blue growth;
- Introducing innovative themes such as **science diplomacy**, to facilitate dialogue between countries
- Facilitate mobility and access to research infrastructures.



Science, Trieste and the sea

