



Department of Nuclear Sciences and Applications
IAEA Environment Laboratories, Monaco

Training Course on Best Practices in Ocean Acidification Research

Ref. No.: K4-TM-50062

- Title:** Training Course on Best Practices in Ocean Acidification Research
- Host Institute:** State Key Laboratory of Marine Environmental Science,
Xiamen University, Xiamen, China
- Dates:** 19–23 October 2015
- Deadline for Nominations:** 22 September 2015
- Organizers:** The International Atomic Energy Agency (IAEA) and the State Key Laboratory of Marine Environmental Science, Xiamen University, Xiamen, China
- Host Country Organizer:** Mr Minhan Dai
Director
State Key Laboratory of Marine Environmental Science
College of Ocean and Earth Sciences
Xiamen University
XIAMEN
CHINA
Email: mdai@xmu.edu.cn
- Language:** English
- Background Information:** The course will be based on previous courses on ocean acidification held as part of the activities under the IAEA Peaceful Uses Initiative project “Ocean Acidification International Coordination Centre” (OA-ICC) and in cooperation with external partners, as well as on the *Guide to Best Practices in Ocean Acidification Research and Data Reporting* (see: <http://www.iaea.org/ocean-acidification/page.php?page=2194>).

- Purpose:** The purpose of the course is to train early-career scientists and researchers from IAEA Asian Member States entering the ocean acidification field, with the ultimate goal being to assist them in setting up pertinent experiments, avoiding typical pitfalls and ensuring comparability with other studies.
- Expected Outputs:** Increased capacity to measure and study ocean acidification and increased networking among scientists working on ocean acidification in Asia. Initiate/deepen connections with the Global Ocean Acidification Observing Network (GOA-ON; www.goa-on.org).
- Scope and Nature:** The training will include lectures in plenary sessions and hands-on experiments in smaller groups (the level will depend on the basic knowledge of the selected participants). Subjects to be covered include: the carbon dioxide (CO₂) system in seawater and relevant measurements; instrumentation available for measuring seawater chemistry parameters; software packages used to calculate CO₂ system parameters; and key aspects of ocean acidification experimental design, such as manipulation of seawater chemistry, biological perturbation approaches, and laboratory- and field-based methods for measuring organism calcification and other physiological responses to seawater chemistry changes, including nuclear and isotopic techniques.
- Participation:** The course is open to 25 trainees from IAEA Member States in Asia. Priority will be given to early-career scientists who have begun to work in the ocean acidification area. Experts interested in starting ocean acidification studies would also be welcome, space permitting.
- Participants' Qualifications:** The participants should have a university degree in marine biology, oceanography or a related scientific field, and should be currently involved in, or planning to set up, ocean acidification studies.
- Nomination Procedure:** Nominations should be submitted using the attached Grant Application Form. The completed form should be endorsed by relevant national authorities and returned to the IAEA through the established official channels. Applications must be received by the IAEA not later than **22 September 2015** for the attention of the Scientific Secretary of the course, Ms Lina Hansson, IAEA Environment Laboratories, Department of Nuclear Sciences and Applications, IAEA, 4a Quai Antoine 1er, 98000 Monaco, Principality of Monaco (Tel.: +377 97 97 72 06; Fax: +377 97 97 72 73; Email: L.Hansson@iaea.org). Nominations should also be copied to the Administrative Secretary for the course, Ms Hasti Dessa (Email: H.Dessa@iaea.org). Nominations received after this date or which have not been routed through the established official channels cannot be considered.

**Administrative and
Financial
Arrangements:**

Nominating Governments will be informed in due course of the names of the candidates who have been selected and will, at that time, be given full details of the procedures to be followed with regard to administrative and financial matters.

A limited number of grants will be made available by the IAEA to non-local participants from developing countries. The Grant Application Form should be submitted through the established official channels as soon as possible and no later than **22 September 2015**. Selected participants will be provided with travel and subsistence expenses.

The organizers of the course do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in nominating participants, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

Participants should also make their own arrangements for passports, visas, and vaccinations.

Grant Application Form

Training Course on Best Practices in Ocean Acidification Research

State Key Laboratory of Marine Environmental Science, Xiamen University, Xiamen, China

19–23 October 2015

To be completed by the participant and sent to competent official authority (Ministry of Foreign Affairs, National Atomic Energy Authority) of his/her country, for subsequent transmission to the International Atomic Energy Agency (IAEA) by email at: Official.Mail@iaea.org. Kindly send for the attention of the Scientific Secretary of the training course, Ms Lina Hansson, Division of Environment Laboratories, Department of Nuclear Sciences and Applications, IAEA, 4a Quai Antoine 1er, 98000 Monaco (Tel.: +377 97 97 72 06; Fax: +377 97 97 72 73 Email: L.Hansson@iaea.org). Nominations should also be copied to the Administrative Secretary for the training course, Ms Hasti Dessa (Email: H.Dessa@iaea.org). To be completed only by participants from developing countries on whose behalf a grant is requested.

Deadline for receipt by IAEA through official channels: 22 September 2015

Full name:	Mr/Ms:
Postal address:	Phone:
	Fax:
	Email:
Date of birth (year/month/day):	Nationality:

1. EDUCATION (Post-secondary)

Name and place of institution	Field of study	Diploma or Degree	Years studied	
			from	to

2. RECENT EMPLOYMENT RECORD (Starting with your present post)

Name and place of employer/ organization	Title of your position	Type of work	Years worked from to	

3. DESCRIPTION OF WORK performed over the last three years:

4. MOTIVATIONS for participating in this training course:

5. INSTITUTE'S/MEMBER STATE'S PROGRAMME IN FIELD OF COURSE

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Date Signature of applicant

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Date Name and title (printed) and signature of responsible Government official