To: IOC Member States (Action Addressees) in Western Pacific region

Subject: IOC/WESTPAC TRAINING COURSE ON OCEAN MODELS, Qingdao, China, 10-16 June 2011

Action required: To nominate one or more participants to the Training Workshop, before 31 March 2011

Sir/Madam,

You will recall that the Intergovernmental Oceanographic Commission (IOC) of UNESCO has approved the establishment of a Regional Training and Research Centre on Ocean Dynamics and Climate (hereinafter referred to as “ODC Centre”) in the First Institute of Oceanography, State Oceanic Administration of China. As per the Agreement signed by both parties, “the objectives of the Centre shall be to enhance the regional research capacity and capability on ocean dynamics, air-sea interactions, climate change and numerical modelling through, among others, provisions of regular training courses in English once a year to around 15-20 junior scientists and doctoral/master students mainly from the developing Member States of IOC in the Western Pacific”.

In this context, I have the pleasure to inform you that the first training course on ocean models will take place at the ODC Centre, Qingdao, China, from 10 to 16 June 2011 at the kind invitation of the Government of China. The training is designed to comprehensively introduce ocean circulation models and wave-circulation coupled theory, covering ocean circulation models, ecosystem models and sediment models, data assimilation and wave-tide-circulation coupled processes, etc. Experienced experts on ocean numerical model from different countries have been invited to give lectures at this training course. Enclosed you will find general information on this training (Annex 1). Further information will be made available at IOC/WESTPAC website (http://westpac.unescobkk.org) in due course. The training course will be conducted in English only.

.../...
On behalf of IOC, I encourage you to nominate one or more qualified experts to attend this training course using the attached application form (Annex 2), noting that the priority for selection will be given to young scientists and junior technical staff who have experience of developing and operating ocean numerical models or have master/doctoral degree in Physical Oceanography. Some limited funding is available from the Centre to support selected participants from developing countries. A selection committee will be set up with a view to selecting the most qualified applicants to receive financial assistance.

It would be appreciated if your assistance could be provided in the identification of suitable experts from your country and the filled-in application form could be sent to our contact points, before 31 March 2011, at the addresses contained in the attached general information.

I would take this opportunity to thank you once again for your cooperation and look forward to the active participation of suitable experts from your country in this training course.

Yours sincerely,

[signed]

Wendy Watson-Wright
Executive Secretary, IOC
Assistant Director-General, UNESCO

Annex: I. General Information on the Training Course
II. Application Form
GENERAL INFORMATION

Introduction

The UNESCO/IOC Regional Training and Research Center on Ocean Dynamics and Climate (hereinafter referred to as “ODC Center”) was officially established through one Agreement signed by the Intergovernmental Oceanographic Commission of UNESCO and the host institute, the First Institute of Oceanography, State Oceanic Administration (FIO, SOA) of China, at the Eighth Intergovernmental Session of UNESCO/IOC Sub-Commission for the Western Pacific (WESTPAC-VIII) in Bali, Indonesia in May 2010.

As per the Agreement, “the objectives of the Center shall be to enhance the regional research capacity and capability on ocean dynamics, air-sea interactions, climate change and numerical modeling through, among others, provisions of regular training courses in English once a year to around 15-20 junior scientists and doctoral/master students mainly from the developing member states of IOC in the Western Pacific”.

Objectives and Scope of the Training course

This training course, marking the full operation of this ODC Center, is designed to help develop capacity of member states in the Western Pacific (suitable candidates from outside the region will also be welcome), who are involved in the operation and development of ocean models. The training will cover topics related to ocean circulation models, ecosystem models, sediment models, data assimilation and wave-tide-circulation coupled processes etc.

Lecturers and Agenda for the Training Course

Experienced experts on ocean numerical model within and outside the region will serve as lecturers of this training course. Lecturers and their topics are listed as follows. Detailed agenda for the training course will be updated on the website of IOC/WESTPAC (http://westpac.unescobkk.org).

Professor Lie-Yauw Oey  
Princeton University, USA  
On: Basic concepts of numerical modeling in ocean and atmosphere

Professor Tal Ezer  
Old Dominion University, USA  
On: The Wetting-and-Drying, pressure gradient problem and parameters used in POM

Professor Lian Xie  
North Carolina State University, USA  
On: Air-sea interaction

Professor Yasumasa Miyazawa  
Japan Agency for Marine-Earth Science and Technology, Japan  
On: Ocean data assimilation

Professor Fangli Qiao  
First Institute of Oceanography, China  
On: wave-circulation coupled models

Professor Alan F. Blumberg  
Stevens Institute of Technology, USA  
On: Estuarine modeling  
Through VideoTeleConference

Dr. Antoni Jordi Ballester  
Miquel Marquès 21, Spain  
On: MPI and the mpiPOM/sbPOM

Professor Huijie Xue  
University of Maine, USA  
On: Lagrangian particle simulations and individual based model

Professor Xiaohua Wang  
University of New South Wales, Australia  
On: Ocean sediment model

Professor Fei Chai  
University of Maine, USA  
On: Marine Ecosystems and Carbon Cycle
**Expected Outcomes**

In addition to establishing the regional network of young ocean modelers, the trainees are expected to improve their knowledge on ocean circulation models, ecosystem models, sediment models and wave-circulation coupled process, enhance their ability in handling ocean models, and exchange the application practices they have.

**Date and Venue**

The training course will be conducted from 10 to 16 June 2011 in the Center, Qingdao, China, following the 3rd International Workshop on Modeling the Ocean (6–9 June 2011, IWMO-2011, [http://www.fio.org.cn/iwmo2011/iwmo2011.htm](http://www.fio.org.cn/iwmo2011/iwmo2011.htm)) in the same city.

**Working Language**

The training course will be conducted in English.

**Trainees**

Trainees will be selected mainly from IOC/WESTPAC member states with priority given to those young scientists and junior technical staff who have experience in running ocean numerical models or have Master/Doctoral degrees in physical oceanography. The applicants should have a good command of English.

**Financial Assistance for Participants**

The ODC Center will provide financial support for about 15 trainees mainly from developing countries. A selection committee will be set-up with a view to selecting the most qualified experts among applications to receive financial assistance. The information filled in the attached application form will be of great help for the selection process.

**Deadline for Application**

The filled-in application form shall be sent to Dr Xunqiang Yin and with a copy to Mr Wenxi Zhu at the following addresses no later than 31 March 2011. All applicants will be informed of the final selection result no later than 10 April 2011. A certain number of self-funded applicants will be also selected to take part in this training course.

**Visa**

Selected trainees traveling to China probably need to apply for entry visa to China in accordance with relevant laws and regulations. Please check the visa requirements with the Chinese Embassy/Consulate in your country and apply for it as soon as possible. The local secretariat (Dr Xunqiang Yin) will be glad to provide you any assistance upon your request.

**Contacting Information**

**Dr Xunqiang Yin**  
UNESCO/IOC Regional Training and Research Center on Ocean Dynamics and Climate  
First Institute of Oceanography  
Qingdao, P. R. China  
Tel: + 86-532-8896 1307  
E-mail: yinxq@fio.org.cn

**Mr Wenxi Zhu**  
Head  
UNESCO/IOC Regional Office for the Western Pacific  
Tel: +6621411287  
Fax: +6621439245  
E-mail: w.zhu@unesco.org
**APPLICATION FORM**

*The Government of ……………………………………………………………………… proposes the nomination of the following expert to participate in the Training Course.*

| Family name |  | ☐ Dr / ☐ Mr / ☐ Ms |
|-------------|--------------------------|
| First name  |  |  |

**Gender**  
☐ Male  ☐ Female

**Nationality**

**Date of birth**

**Education level**  
☐ Bachelor  ☐ Master  ☐ PhD

Graduated from:  
Major:  
Supervisor/Advisor:

**Job title**

**Affiliation**

**Years of experience in current job**

**Address**

**Tel. number(s)**

**Fax number(s)**

**Email(s)**

**Contact person, in case of emergency**

**Dietary Restriction**  
☐ None  ☐ No pork  ☐ No beef  ☐ Bachelor  
☐ Other, please specify

**Job responsibilities**
### Major and/or Research Area


### Brief statement of research activities that is linked to this training course, and related publication if any (This part is crucial for qualifying, so separate pages could be annexed to this form)


### Previous Training Courses/Workshops

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Please provide with name and E-mail address of two referees whom can be contacted to support your application

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### Financial assistance

- ☐ I could cover my expense.
- ☐ I would apply for the financial assistance.
- ☐ Fully (including round trip airfare, accommodation);
- ☐ On airfare in the amount of US$
- ☐ On accommodation.

### Date: .......................................................... ..........................................................

(Signature of Head/Director of the Institution)

Please return the completed form with your CV (with a 2-inch photo), by fax or e-mail to the following address before **31 March 2011**:

Dr Xunqiang Yin  
UNESCO/IOC Regional Training and Research Center on Ocean Dynamics and Climate  
First Institute of Oceanography, China  
Fax: +86-532-88967400; E-mail: yinxq@fio.org.cn

With a copy to:  
Mr Wenxi Zhu, IOC Regional Office for WESTPAC  
Fax: +66 2 143 9245; E-mail: w.zhu@unesco.org