IOC Circular Letter No. 2425

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

Subject: IOC/WESTPAC TRAINING COURSE ON OCEAN DYNAMICS, Qingdao, China, 16–22 July 2012

Action required: To nominate one or more participants to the Training Course, preferably no later than 15 April 2012

Sir/Madam,

You may recall that the Intergovernmental Oceanographic Commission (IOC) of UNESCO has approved the establishment of a Regional Training and Research Center on Ocean Dynamics and Climate (hereinafter referred to as “ODC Center”) in the First Institute of Oceanography, State Oceanic Administration of China. As the first UNESCO/IOC Regional Training and Research Centre, ODC Center was officially inaugurated on 9 June 2011, and successfully organized its first training course on ocean models from 10 to 16 June 2011, in accordance with 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”.

With constructive suggestions made from the first training course, I have the pleasure to inform you that the second training course on Ocean Dynamics will take place at the ODC Center, Qingdao, China, from 16 to 22 July 2012 at the kind invitation of the Government of China. The training is designed to comprehensively introduce ocean dynamics, covering the meso- and small-scale dynamics and regional oceanography of the western Pacific, heat and fresh water transport associated with the ocean circulation, exchanges through straits and passages connecting Pacific and Indian Ocean, air-sea interactions and wave-circulation interactions etc. Seven experienced experts on ocean dynamics from different countries have been invited to give lectures at this training course. Enclosed you will find the general information on this training (Annex I). Further information will be made available, in due course, at the IOC/WESTPAC website (http://westpac.unescobkk.org), and the website of the ODC Center:

.../...
(http://www.fio.org.cn/english/training_center/index.htm). The training course will be conducted in English.

On behalf of IOC, I encourage you to nominate one or more qualified experts to attend the second training course using the attached application form (Annex II), noting that the priority for selection will be given to young scientists and junior technical staff who have experience of ocean dynamics, 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 15 April 2012, 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

Enclosures:  I. General Information on the Training Course
 II. Application Form
ANNEX I

IOC/WESTPAC TRAINING COURSE ON OCEAN DYNAMICS
UNESCO/IOC Regional Training and Research Center on Ocean Dynamics and Climate
Qingdao, China, 16–22 July 2012

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 the first UNESCO/IOC Regional Training and Research Center, ODC center was inaugurated on 9 June 2011 at the host institute, First Institute of Oceanography, State Oceanic Administration of China. During 10-16 June 2011, the first training course on ocean models has successfully been organized in Qingdao, China with focus on ocean models covering the basic concepts of numerical modeling in ocean and atmosphere; the application of MPI in Princeton Ocean Model (POM); ocean data assimilation; the grid system of ocean models, wetting and drying algorithms, and the tutorial of POM; the three-dimensional wave-current coupled sediment transport model; modeling of marine ecosystems and carbon cycle; Lagrangian particle trajectory and individual-based biophysical models; air-sea interactions; wave-tide-circulation coupled models; and the modeling of estuarine circulation.

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”.

To this end, the second training course on ocean dynamics will be held during 16-22 July, 2012. This training course will focus on the topic of ocean dynamics which will be valuable for trainees to improve their understanding on the basic ocean processes and its dynamics.

Objectives and Scope of the Training course

This training course is designed to help develop the capacity of member states in the Western Pacific (suitable candidates from outside the region will also be welcome), who are involved in the research and analysis of the ocean processes. The training will cover topics related to ocean dynamics, including the meso- and small-scale dynamics, regional oceanography of the western Pacific, heat and fresh water transport associated with the ocean circulation, exchanges through straits and passages connecting Pacific and Indian Ocean, air-sea interactions and wave-circulation interactions etc.

Lecturers and Agenda for the Training Course

Experienced experts on ocean numerical dynamics within and outside the region will serve as lecturers of this training course. Lecturers are listed as follows. Detailed agenda for the training course will be updated on the website of IOC/WESTPAC (http://westpac.unescobkk.org) and the website of the ODC Center (http://www.fio.org.cn/english/training_center/index.htm)

Professor Tal Ezer
Old Dominion University, USA

Professor Quanan Zheng
University of Maryland, USA

Professor Huijie Xue
University of Maine, USA

Professor Chunzai Wang
NOAA/AOML, Physical Oceanography Division

Professor Fei Chai
University of Maine, USA

Professor Norden E. Huang
First Institute of Oceanography, China

Professor Fangli Qiao
First Institute of Oceanography, China
**Expected Outcomes**

In addition to establishing the regional network of ocean research, the trainees are expected to improve their understanding on the basic ocean processes and its dynamics, enhance their ability in studying the ocean processes, and exchange the application practices.

**Date and Venue**

The training course will be conducted from 16 to 22 July 2012 in Qingdao, China. More information about this center and this training course can be found on ODC website at [http://www.fio.org.cn/english/training_center/index.htm](http://www.fio.org.cn/english/training_center/index.htm).

**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 ocean dynamics, 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 **15 April 2012**. All applicants will be informed of the final selection result no later than **15 May 2012**. 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**

<table>
<thead>
<tr>
<th>Dr Xunqiang Yin</th>
<th>Mr Wenxi Zhu</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNESCO/IOC Regional Training and Research Center on Ocean Dynamics and Climate</td>
<td>UNESCO/IOC Regional Office for the Western Pacific</td>
</tr>
<tr>
<td>First Institute of Oceanography</td>
<td>Tel: +6621411287</td>
</tr>
<tr>
<td>Qingdao, P. R. China</td>
<td>Fax: +6621439245</td>
</tr>
<tr>
<td>Tel: + 86-532-8896 7415</td>
<td>E-mail: <a href="mailto:w.zhu@unesco.org">w.zhu@unesco.org</a></td>
</tr>
<tr>
<td>E-mail: <a href="mailto:yinxq@fio.org.cn">yinxq@fio.org.cn</a></td>
<td></td>
</tr>
</tbody>
</table>
ANNEX II

IOC/WESTPAC TRAINING COURSE ON OCEAN DYNAMICS
UNESCO/IOC Regional Training and Research Center on Ocean Dynamics and Climate
Qingdao, China, 16–22 July 2012

APPLICATION FORM

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

<table>
<thead>
<tr>
<th>Family name</th>
<th>□ Dr / □ Mr / □ Ms</th>
</tr>
</thead>
<tbody>
<tr>
<td>First name</td>
<td></td>
</tr>
<tr>
<td>Gender</td>
<td>□ Male □ Female</td>
</tr>
<tr>
<td>Nationality</td>
<td></td>
</tr>
<tr>
<td>Date of birth</td>
<td></td>
</tr>
<tr>
<td>Education level</td>
<td>□ Bachelor □ Master □ PhD</td>
</tr>
<tr>
<td>Graduated from:</td>
<td></td>
</tr>
<tr>
<td>Major:</td>
<td></td>
</tr>
<tr>
<td>Supervisor/Advisor:</td>
<td></td>
</tr>
<tr>
<td>Job title</td>
<td></td>
</tr>
<tr>
<td>Affiliation</td>
<td></td>
</tr>
<tr>
<td>Years of experience in current job</td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>Tel. number(s)</td>
<td></td>
</tr>
<tr>
<td>Fax number(s)</td>
<td></td>
</tr>
<tr>
<td>Email(s)</td>
<td></td>
</tr>
<tr>
<td>Contact person, in case of emergency</td>
<td></td>
</tr>
<tr>
<td>Dietary Restriction</td>
<td>□ None □ No pork □ No beef □ Bachelor □ Other, please specify</td>
</tr>
<tr>
<td>Major and/or Research Area</td>
<td></td>
</tr>
<tr>
<td>Previous Training Courses/Workshops</td>
<td>□ No □ Yes, please specify the workshop titles:</td>
</tr>
<tr>
<td>(a)</td>
<td></td>
</tr>
<tr>
<td>(b)</td>
<td></td>
</tr>
</tbody>
</table>
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)

<table>
<thead>
<tr>
<th>Referee #1</th>
<th>Name</th>
<th>Job title</th>
<th>Affiliation</th>
<th>Email</th>
<th>Tel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Referee #2</td>
<td>Name</td>
<td>Job title</td>
<td>Affiliation</td>
<td>Email</td>
<td>Tel</td>
</tr>
</tbody>
</table>

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 15 April 2012:

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