



INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION
COMMISSION OCÉANOGRAPHIQUE INTERGOUVERNEMENTALE
COMISIÓN OCEANOGRÁFICA INTERGUBERNAMENTAL
МЕЖПРАВИТЕЛЬСТВЕННАЯ ОКЕАНОГРАФИЧЕСКАЯ КОМИССИЯ
اللجنة الدولية الحكومية لعلوم المحيطات
政府间海洋学委员会

UNESCO - 1, rue Miollis - 75732 Paris cedex 15, France
<http://ioc-unesco.org> - fax: +33 (0)1 45 68 58 10 - contact phone: +33 (0)1 45 68 39 83/84
E-mail: w.watson-wright@unesco.org

IOC Circular Letter No. 2445
(English only)

IOC/PTWS/WWW/TA/BA/LK
12 June 2012

To : ICG/PTWS Tsunami National Contacts (TNC) and Tsunami Warning Focal Points (TWFP)
ICG/PTWS Officers

Cc : Official National Coordinating Body for liaison with the IOC Member States
(for information)
Permanent Delegates/Observer Missions to UNESCO of IOC Member States
Permanent Delegates/Observer Missions to UNESCO of Brunei Darussalam, Cambodia,
Honduras, Federated States of Micronesia, Nauru, Marshall Islands, Palau, Tokelau, and
Vanuatu
Permanent Observers ICG/PTWS
IOC Officers
Director, ITIC

Subject: ITIC Training Programme – Hawaii (ITP-HAWAII)
Hawaii, United States of America, 20–31 August 2012

Through this Circular Letter, Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS) Member States, and countries in other regions with tsunami warning and mitigation interests, are invited to participate in the 2012 ITIC Training Programme – Hawaii (ITP-Hawaii) on tsunamis and tsunami warning systems to be conducted by the International Tsunami Information Center (ITIC) from 20 to 31 August 2012. ITIC is a UNESCO/IOC - National Oceanic and Atmospheric Administration (U.S.) partnership, with support from Chile.

During the last four years, four destructive and deadly tsunamis have occurred around the world that placed countries in various levels of warning for distant tsunamis, and locally, five countries were impacted nearly immediately with coastal residents having only 10-30 minutes before the first large waves hit. Globally over history, nearly 90% of the casualties from tsunamis (99% in the Pacific) have resulted from local tsunamis. The primary lesson learned from recent events has been that pre-event preparedness is essential and especially critical in places where local tsunamis are a threat. If we are to save lives, we must have response plans, and train and educate before the event. We must also sustain that preparedness continuously, as tsunamis have no season and can happen at any time; even in places around the world perceived as 'safe' because no event has occurred for hundreds of years.

Chairperson

Dr Sang-Kyung BYUN
Principal Research Scientist
Climate Change & Coastal Disaster
Research Dept.
Korea Ocean Research & Development Institute
Ansan, P.O. Box 29,
425-600 Seoul
REPUBLIC OF KOREA

Executive Secretary

Dr Wendy WATSON-WRIGHT
Intergovernmental Oceanographic
Commission — UNESCO
1, rue Miollis
75732 Paris Cedex 15,
FRANCE

Vice-Chairpersons

Prof. Peter M. HAUGAN
Director, Geophysical Institute
University of Bergen
Allegaten 70
5007 Bergen
NORWAY

Dr Atanas PALAZOV
Director, Institute of Oceanology – Varna
Bulgarian Academy of Sciences
P.O. Box 152
Varna 9000
BULGARIA

Capt. Frederico Antonio SARAIVA
NOGUEIRA
Directorate of Hydrography and Navigation
Rue Barão de Jacaguai, s/n°
Ponta da Armação
Niterói, Rio de Janeiro
CEP 24.048.900
BRAZIL

Prof. Yutaka MICHIDA
University of Tokyo
Member of National Committee for IOC
Kashino 5-1-5
Kashiwa 277-8564
Chiba
JAPAN

Prof. Adoté Blim BLIVI
Chef de Recherche
Head of CGILE
Ministère de l'Enseignement
Supérieur et de la Recherche
University of Lomé,
B.P. 1515
Lomé 228
TOGO

At the Twenty-fourth Session of the ICG/PTWS held in Beijing, China, 24-27 May 2011 hosted by the Government of China, Member States endorsed the recommendations of the PTWS Task Team on Enhancing Tsunami Warning Products, and approved the target 2014 implementation of improved international tsunami forecasting products by PTWC. The products will be the first large-scale modifications to the PTWC bulletins in decades, and will fundamentally change the way in which countries receive and then assess their national tsunami threats. Successful transitioning of the PTWS from its existing products will need a dedicated, comprehensive effort to obtain feedback and provide training to all PTWS countries. Enhanced products are also planned for the Caribbean, and were approved for introduction by Member States at the Seventh Session of the ICG for the Tsunami and Other Coastal Hazards Warning System for the Caribbean and Adjacent Regions (ICG/CARIBE-EWS, April 2012).

Accordingly, the 2012 ITP-Hawaii will focus on Standard Operating Procedures (SOP) for tsunami warning and tsunami emergency response to especially local and regional tsunamis, and on the planned new international tsunami forecast products of the PTWC. The 2012 ITP-Hawaii programme description and provisional agenda are attached.

ITP-Hawaii is open to all countries, and participants from the ICG/PTWS and other ICGs are welcome and encouraged to attend on their own funding.

I am pleased to announce that limited participant funding will be available from the United States through the USAID/OFDA and United States contribution to the WMO Voluntary Cooperation Program.

The IOC invites you to nominate candidates to the ITP-Hawaii. To expedite this process, I would appreciate if the names and CVs are provided directly to the Director of ITIC, Dr Laura Kong (laura.kong@noaa.gov, Phone: +1-808-532-6422, Fax: +1-808-532-5576). An application form is attached for this purpose. The deadline for applications is **no later than 30 June 2012**. It is essential that you submit your application as soon as possible to be considered for funding. Please indicate if your organization will have any funding to cover your participation. Selectees will be notified by 13 July 2012.

Yours sincerely,

[signed]

Dr Wendy Watson-Wright
Assistant Director-General of UNESCO
Executive Secretary of IOC

Attachments:

ITP-Hawaii 2012 Programme Description and Provisional Agenda

ITP-Hawaii 2012 Application Form

UNESCO/IOC – NOAA International Tsunami Information Center
ITIC TRAINING PROGRAMME (ITP) – HAWAII
20–31 August 2012

The 2012 ITIC Training Programme (ITP-Hawaii) will be held 20 to 31 August 2012 in Honolulu, Hawaii, USA. The Programme, under the direction of the International Tsunami Information Center (ITIC), provides participants with an overview of the history and operation of the Pacific Tsunami Warning and Mitigation System. Specific focus is given to the important role of regional and national tsunami warning centers in monitoring and evaluating the tsunamigenic potential of earthquakes, and in issuing timely tsunami warning messages to government emergency officials who can then act to save lives and reduce damage to coastal communities. The Programme provides training and familiarization with the Pacific Tsunami Warning System and other regional systems, Sub-regional and National Warning Systems, and Emergency Response concepts of operations and standard operation procedures. The ITP-Hawaii uses Hawaii as a working example of an end-to-end tsunami warning and mitigation system demonstrating close stakeholder coordination and partnership for operational warnings and in preparedness activities.

Participants will engage in a series of informational presentations and discussions at ITIC and the Pacific Tsunami Warning Center, and visits to Emergency Operations Centers, to seismic or water level station field sites, and to the University of Hawaii. A 2-day off-island field trip to visit the Hawaii County Civil Defense Agency, the Pacific Tsunami Museum, tsunami memorials, and the USGS Hawaiian Volcano Observatory, is included. Additional topics covered by the Training Programme will be based on the needs of each participant. A Provisional Agenda is attached.

The 2012 ITP-Hawaii will focus on Standard Operating Procedures (SOP) for tsunami warning and tsunami emergency response with a focus on preparing especially for local and regional tsunamis. Specific attention will also be given to the new international tsunami forecast products to be introduced experimentally starting in 2013 by the PTWC. Participants will be asked to share their country SOPs using guidance and template examples provided during the Training, and will be introduced to the different tsunami warning decision support tools and software available for use in their centers. On the last day, participants will participate in tsunami exercise role-playing as tsunami warning centers or emergency response agencies responding to a local or regional tsunami.

On Day 1 of the Programme, participants should be prepared to make a 15-minute presentation on the status of tsunami warning and mitigation activities in their respective countries.

Within one month after returning to their countries, ITP participants are asked to submit a Written Trip Report in English describing the activities they participated in, what they learned, and how they will use their training to improve tsunami warnings and/or awareness in their countries. Trip Report summaries will be published in the ITIC's Tsunami Newsletter.

PROVISIONAL AGENDA, ITP-Hawaii 2012

Sun, 19 Aug 2012	Arrival, hotel check-in, orientation
Mon, 20 Aug ITIC	Morning: Programme Logistics, telephone, internet, printing, library ITP-Hawaii Participant – Country Presentations Afternoon: Science Overview: Earthquakes, Tsunamis – generation, propagation, impact Tsunami Awareness Materials TsunamiTeacher Resource Toolkit, ITIC materials
Tues, 21 Aug ITIC	Morning: PTWS, ITIC, and PTWC: Organization & Operations International and National Tsunami Warning and Mitigation Systems End-to-End Tsunami Warning Stakeholders & Their Needs, Roles & Responsibilities Hawaii as an example of an End-to-End System ITP-Hawaii Participant – Country Presentations Afternoon: Hazard Assessment and Risk Evaluation overview Tsunami modeling and inundation mapping Tsunami Warning Decision Support Tools – demonstration, installation WDC/NGDC tools, Global Tsunami Databases (TsuDIG)
Wed, 22 Aug ITIC PTWC	Morning: Lessons Learned from Past Tsunamis PTWC Standard Concept of Operation and Standard Operating Procedures Earthquake & Tsunami Monitoring, Detection and Evaluation – Instruments and Methods (seismic, water level, communications) New PTWC Forecast Products – TWC understanding and interpretation Creating TWC Standard Operating Procedures (SOP) and Checklists Templates and examples of SOP best practices. <u>Assignment</u> - Review & improve country TWC SOP / Checklists (especially for local/regional threat) - Present on 30 August Afternoon: Visit Pacific Tsunami Warning Center and HON Seismic station Seismic Monitoring (source location and magnitude estimation) Sea Level Monitoring (Coastal and DART stations) Monitoring (Tide Tool), Wave forecasting (SIFT)
Thurs, 23 Aug	Morning:
ITIC	ITP-Hawaii Participant – Country Presentations
Hawaii SCD	Tsunami Warning Decision Support Tools – demonstration, installation CISN, Tide Tool, IOC SL Monitoring Facility Communication technologies for the transmission of tsunami warnings to local governments and communities – robustness, reliability, redundancy criteria for emergency communications – WMO GTS, EMWIN, Fax, Email, RANET, FM, Mobile/Cell phones, SMS, etc Afternoon: Tsunami Warning Decision Support Tools – demonstration, installation RANET SMS, PAGER, Tsunami Bulletin Board, IOC Public List Serve Visit State Civil Defense Emergency Operations Center State Emergency Agency Responses to PTWC Tsunami Messages

Fri, 24 Aug ITIC	Morning: End-to-End Tsunami Emergency Response Plans, Concept of Operations, and SOPs New PTWC Forecast Products – TER understanding and interpretation Conducting public coastal evacuations - "Downstream" Process Communications Process Tsunami Stakeholder Coordination Concept – roles of response agencies Creating TER Standard Operating Procedures (SOP) and Checklists Templates and examples of SOP best practices. <u>Assignment</u> - Review & improve country TER SOP / Checklists (especially for local/regional threat) - Present on 30 August
Sat & Sun, 25-26 Aug	Free days
Mon, 27 Aug Big Island	Check-out hotel, Waikiki, Oahu Depart for Hawaii island (Big Island), Hawaiian Airlines Hawaii County Civil Defense Emergency Operations Center Pacific Tsunami Museum Tsunami memorials Check-in hotel, Hilo, Hawaii
Tues, 28 Aug Big Island	Check-out hotel, Hilo, Hawaii USGS Hawaiian Volcano Observatory Seismic and volcano monitoring Late Afternoon / Early Evening: Return to Honolulu, Hawaiian Airlines Check-in to Waikiki hotel
Wed, 29 Aug ITIC	Morning: How to Plan, Conduct, and Evaluate Tsunami Exercises Information Flow SOPs - the Role of Media in Tsunami Warning Tsunami Mitigation – Education and Awareness Afternoon: Tsunami Mitigation – Hard and Soft Countermeasures & Public Policy Tsunami Warning Decision Support Tools (continuing as needed) Review, Summary and other new topics
Thurs, 30 Aug ITIC	Morning: Tourism sectors, TsunamiReady programme Designing buildings to withstand tsunami and earthquake shaking Table Top Tsunami Exercise - preparation Afternoon: Participant sharing of country SOPs and Checklists
Fri, 31 Aug ITIC	Morning Table Top Tsunami Exercise - conduct Afternoon: Table Top Exercise – post-exercise evaluation Summary Discussion Closing
Sat, 1 Sept	Hotel Checkout. Depart for home country

UNESCO/IOC – NOAA International Tsunami Information Center
ITIC TRAINING PROGRAMME (ITP) – HAWAII
20–31 August 2012
APPLICATION FORM

Please type or write in BLOCK letters in English

Please return by 30 JUNE 2012 to

E-MAIL: laura.kong@noaa.gov

FAX: +1 808 532 5576

ID picture taken within the
last 6 months

2x2 inch

1. PERSONAL INFORMATION

NAME	
TITLE	<input type="checkbox"/> DR. <input type="checkbox"/> PROF. <input type="checkbox"/> MR. <input type="checkbox"/> MS. <input type="checkbox"/> others _____
SEX	<input type="checkbox"/> MALE <input type="checkbox"/> FEMALE
NATIONALITY	
HOME ADDRESS	
TELEPHONE NUMBER	
FAX NUMBER	
EMAIL ADDRESS	

2. PROFESSIONAL BACKGROUND

OFFICE/ ORGANIZATION	
POSITION	
ADDRESS	
TELEPHONE NUMBER	
FAX NUMBER	
EMAIL ADDRESS	

3. EDUCATIONAL BACKGROUND

LEVEL	SCHOOL	DEGREE	YEAR GRADUATED
COLLEGE			
MASTERAL			
DOCTORAL			
POST DOCTORAL			

4. TSUNAMI-RELATED TRAININGS ATTENDED

TITLE OR SUBJECT	CONDUCTED BY	DATES

5. OTHER RELATED TSUNAMI-RELATED JOB EXPERIENCE

OFFICE / ORGANIZATION JOB DESCRIPTION	POSITION	DATES

6. TRAVEL INFORMATION

NAME ON PASSPORT	
PASSPORT COUNTRY	
PASSPORT NUMBER	
BIRTHDAY (DD-MM-YYYY)	
DATE OF ISSUE	
PLACE OF ISSUE	
EXPIRY DATE	
COUNTRY OF BIRTH	
COUNTRY OF CITIZENSHIP	
NAME OF NEAREST INTERNATIONAL AIRPORT	

7. OTHER

ENGLISH LANGUAGE PROFICIENCY	<input type="checkbox"/> Excellent	<input type="checkbox"/> Fair
	<input type="checkbox"/> Good	<input type="checkbox"/> Poor

DO YOU REQUIRE TRAVEL FUNDING	<input type="checkbox"/> Yes, Full Funding	<input type="checkbox"/> No, Self-funded
	<input type="checkbox"/> Yes, Partial Funding, Amount USD _____	

Statement of Interest:

Why are you interested in attending this Training?

After the Training, where and how will the experience gained in the Training will be used?

Please also submit separately your Curriculum Vitae (CV).

SIGNATURE

PRINTED NAME

DATE: _____