



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

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IOC Circular Letter No. 2242  
(English only)

IOC/PTWS/PB/PK/LK/FC  
25 September 2007

**To :** ICG/PTWS Tsunami National Contacts  
**Cc :** Chairman, Vice-Chairmen IOC  
Chairman, Vice-Chairman ICG/PTWS  
Director ITIC

**Subject: ITSU TRAINING PROGRAMME - HAWAII, 5-16 November 2007**

Through this Circular Letter, ICG/PTWS Member States, and countries in other regions with tsunami warning and mitigation interests, are **invited to participate in the 2007 UNESCO/ IOC "ITSU" Training Programme – Hawaii (ITP-Hawaii) to be held 5-16 November 2007.**

The IOC International Tsunami Information Centre is pleased to announce that it will be holding a specialized training for Member States of the PTWS as part of its "ITSU" Training Programme in Hawaii (ITP-Hawaii). This year, the ITP-Hawaii will consist of a 2-week programme on tsunamis and tsunami warning systems focused on Standard Operating Procedures (SOP) for tsunami warning and tsunami emergency response, and the testing of SOPs through Drills and Exercises. The ITP-Hawaii 2007 programme description and provisional agenda is attached.

Due to financial limitations, the PTWS programme can only support up to two (2) participants. Others are welcome to attend on their own funding. To expedite this process, I would appreciate it if the names of the candidates are provided to the Director of ITIC, Laura Kong (l.kong@unesco.org), by 5 October 2007. Selectees will be notified shortly thereafter.

Yours sincerely,

Patricio Bernal  
Assistant Director-General of UNESCO  
Executive Secretary of IOC

Attachments: ITP-Hawaii 2007 Programme Description and Provisional Agenda  
ITP-Hawaii 2007 Application Form

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**UNESCO/IOC INTERNATIONAL TSUNAMI INFORMATION CENTRE  
ITSU TRAINING PROGRAMME (ITP), 5-16 November 2007**

The 2007 UNESCO/IOC ICG/ITSU Training Programme will be held 5 to 16 November 2007 in Honolulu, Hawaii, USA. The Program, under the direction of the International Tsunami Information Centre (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, Sub-regional and National Warning Systems, and Civil Defense 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 at ITIC and the Pacific Tsunami Warning Centre, and visits to Emergency Operations Centers, to seismic or water level station field sites, and to the University of Hawaii. A 1-day off-island field trip to visit the Hawaii County Civil Defense Agency, the Pacific Tsunami Museum, and several tsunami memorials is included. Additional topics covered by the Training Programme will be based on the needs of each participant. A Provisional Agenda is attached.

This year, the focus will be on Standard Operating Procedures for tsunami warning and tsunami emergency response, and the testing of SOPs through Drills and Exercises. Special emphasis will also be given to telecommunications and methods for receiving and disseminating timely alerts, such as through the EMWIN and RANET systems. Participants will be asked to create, modify, and discuss their country SOPs using guidance and template examples provided during the Training.

At the beginning of the Programme, participants will be expected to make a 15-20 min presentation on the status of tsunami mitigation measures 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 2007**

**Sat, 3 November 2007** Arrival, hotel check-in, orientation

**Sun, 4 November 2007**

**Mon, 5 November**

ITIC

Morning:

Programme Logistics. ITIC Internet and Library Usage.

ITP-Hawaii Participant – Country Presentations

Afternoon:

Science Overview – Earthquakes, Tsunamis - generation, detection

TsunamiTeacher Resource Toolkit

**Tues, 6 November**

ITIC

Morning:

PTWS, ITIC, and PTWC: Organization & Operations

International and National Tsunami Warning and Mitigation Systems

Requirements & Implementations

Regional and Local Tsunami Warning Systems for Hawaii

Other Stakeholders & Their Needs, Roles & Responsibilities

Afternoon:

Hazard Assessment and Risk Evaluation overview

Tsunami modeling and inundation mapping

Global Interactive Historical Tsunami Database (ITDB)

**Wed, 7 November**

ITIC

Makapuu, Oahu

Morning:

PTWC Standard Concept of Operation and Standard Operating Procedures

as PTWS International Tsunami Warning Center

as US National and Hawaii Regional Tsunami Warning Center

Seismic & Water Level Instrumentation used for tsunami warning

Afternoon :

Visit Makapu'u Sea Level Station

**Thurs, 8 November**

ITIC

Hawaii SCD

Monitoring, Detection and Evaluation Instrumentation and Methodologies

(seismic, water level, communications)

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 methods, Mobile/Cell phones, SMS, etc

Visit State Civil Defense Emergency Operations Center

State Emergency Agency Responses to PTWC Tsunami Messages

**Fri, 9 November**

ITIC

Oahu CD

Tsunami Emergency Response (TER) Plans

Concept of Operations

Tsunami "End to End" Response Process

Understanding and interpreting PTWC Bulletins - "Upstream" Process

Conducting public coastal evacuations - "Downstream" Process

Communications Process

Distinguishing the roles of government jurisdictions, non-

government organizations (NGO's), private sector

Distinguishing the roles of individual response agencies

Tsunami Stakeholder Coordination Concept

Using Civil Air Patrol for Tsunami Warning alert dissemination

1430

Visit Oahu County Civil Defense Emergency Operations Center

County Emergency Agency Responses to PTWC Tsunami Messages

<b>Sat &amp; Sun 10-11 November</b>	Free days
<b>Mon, 12 November</b> PTWC	Visit PTWC and HON Seismic station PTWS TWC Operations Tour Seismic Monitoring (source location and magnitude estimation) Sea Level Monitoring (Coastal and DART stations) Monitoring (Tide Tool) Wave forecasting (SIFT) Creating TWC Standard Operating Procedures (SOP) and Checklists Introduce template of best practices. Participant creation of SOP's and Checklists (Discussion/Sharing on 27 November)
<b>Tues, 13 November</b> ITIC Hawaii State CD	Check-out of hotel Creating TER Standard Operating Procedures (SOP) and Checklists Templates and examples of best practices. Participant creation of SOP's and Checklists (Discussion/Sharing on 27 November) Planning a Tsunami Exercise Example : Exercise Pacific Wave '06 Manual and Concepts  Depart for Big Island, Hawaiian Airline 362
<b>Wed, 14 November</b> Big Island	Hawaii County Civil Defense Emergency Operations Center Pacific Tsunami Museum, Donna Saiki, Director Tsunami memorials  Return to Honolulu, Hawaiian Airlines 261 Check-in to hotel
<b>Thurs, 15 November</b> ITIC	Tsunami Mitigation – Education, Outreach, Mitigation Countermeasures Awareness, and Public Policy, including ITIC Awareness and Educational Materials Public Affairs and media, Tourism sectors, TsunamiReady programme Designing buildings to withstand tsunami and earthquake shaking
<b>Fri, 16 November</b> ITIC guests	Roundtable discussion – Tsunami Warning and Mitigation PTWC, ITIC, NWS Pacific Region, ITP-Hawaii participants, Other  Participant sharing of SOP's and Checklists Future Directions, International and National Travel vouchers and other logistics Summary and Closing
<b>Fri, 17 November Sat, 18 November</b>	Hotel Check-out, Depart for home country

**UNESCO/IOC INTERNATIONAL TSUNAMI INFORMATION CENTRE**  
**ITSU TRAINING PROGRAMME (ITP), 5-16 November 2007**

**APPLICATION FORM**

**Please type or write in BLOCK letters in English**

**Please return by**

**E-MAIL to [l.kong@unesco.org](mailto:l.kong@unesco.org)**

**FAX to 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 NUMBER	

BIRTHDAY (DD-MM-YYYY)	
DATE OF ISSUE	
PLACE OF ISSUE	
EXPIRY DATE	
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

**Each applicant should also submit separately a Curriculum Vitae containing:**

- 1. Statement of why the applicant is interested in Training;**
- 2. After the Training, where and how long the experience gained in the Training will be used.**

\_\_\_\_\_  
**SIGNATURE OVER PRINTED NAME**

**DATE:** \_\_\_\_\_