



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 N°2395
(English only)

IOC/PTWS/WWW/TA/BA/LK/ss
27 June 2011

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

Cc: Official National Coordinating Body for liaison with the IOC Member States
Permanent Delegates/Observer Missions to UNESCO of IOC Member States
Permanent Delegates/Observer Missions to UNESCO of Brunei, Cambodia, Honduras,
Kiribati, Federated States of Micronesia, Nauru, Niue, Marshall Islands, Palau, Tuvalu
and Vanuatu

Chairman, Vice-Chairs IOC
Chairman, Vice-Chairs ICG/PTWS
Director ITIC

Subject: **ITIC TRAINING PROGRAMME – HAWAII (ITP-HAWAII)**
Hawaii, United States, 22 August - 2 September 2011

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 2011 ITIC Training Programme – Hawaii (ITP-Hawaii) on tsunamis and tsunami warning systems to be conducted by the International Tsunami Information Center (ITIC) from 22 August – 2 September 2011. ITIC is a UNESCO/IOC - National Oceanic and Atmospheric Administration (U.S.) partnership, with support from Chile.

During the intersessional period 2009-2011, three destructive and deadly tsunamis occurred in the Pacific that placed PTWS 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. Historical records indicate that 99% of the tsunami deaths have resulted from local tsunamis. Accordingly, at the Twenty-fourth Session of the Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS-XXIV) held in Beijing, China, 24-27 May 2011, hosted by the Government of China, Member States approved the conduct of Exercise Pacific Wave 2011 (PacWave11, IOC Circular Letter 2390) on 9-10 November 2011 as a multi-source scenario in order to encourage countries to be prepared for local and regional tsunamis.

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At the Twenty-third Session of the Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS-XXIII) held in Apia, Samoa, 16 to 18 February 2009, hosted by the Government of Samoa, Member States noted the requests of Southwest Pacific Countries for training and other activities to increase their capabilities to mitigate against tsunamis, especially against local tsunamis.

This year, the ITP-Hawaii will focus on Standard Operating Procedures (SOP) for tsunami warning and tsunami emergency response in the context of planning, conducting, and evaluating tsunami exercises as a best practice for increasing country readiness. Specific attention will be given for preparing for Exercise Pacific Wave 2011 and the introduction of new enhanced PTWS PTWC tsunami products. The ITP-Hawaii 2011 programme description and provisional agenda is attached.

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

The IOC is pleased to support two participants from PTWS countries. Limited funding for participants will also be available from the United States through the USAID/OFDA and United States contribution to the WMO Voluntary Cooperation Program.

I am pleased to invite 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), NO LATER THAN 8 July 2011. An application form is attached for this purpose. 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 15 July 2011.

Yours sincerely,

[signed]

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

Attachments:

ITP-Hawaii 2011 Programme Description
and Provisional Agenda
ITP-Hawaii 2011 Application Form

UNESCO/IOC – NOAA International Tsunami Information Center
ITIC TRAINING PROGRAMME (ITP) – HAWAII
22 August- 2 September 2011

The 2011 ITIC Training Programme (ITP-Hawaii) will be held 22 August to 2 September 2011 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, 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.

This year, the ITP-Hawaii will focus on Standard Operating Procedures (SOP) for tsunami warning and tsunami emergency response in the context of planning, conducting, and evaluating tsunami exercises to test SOPs as a best practice for increasing country readiness. Specific attention will be given for preparing for Exercise Pacific Wave 2011 and the introduction of new enhanced PTWC tsunami products. Participants will be asked to create, modify, and discuss 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 Day 1 of the Programme, participants should be prepared to make a 15 minute presentation on the status of tsunami warning and 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 2011

| | |
|--|--|
| Sun, 21 Aug 2011 | Arrival, hotel check-in, orientation |
| Mon, 22 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, 23 Aug ITIC | Morning: PTWS, ITIC, and PTWC: Organization & Operations International and National Tsunami Warning and Mitigation Systems Regional and Local Tsunami Warning Systems End-to-end Tsunami Warning Stakeholders & Their Needs, Roles & Responsibilities Exercise Pacific Wave 2011 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, 24 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) Creating TWC Standard Operating Procedures (SOP) and Checklists Templates and examples of SOP best practices. New enhanced PTWC Tsunami Products Assignment - Participant creation of SOPs and Checklists (Discussion/Sharing on 2 September) 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, 25 Aug ITIC Hawaii SCD | Morning: ITP-Hawaii Participant – Country Presentations 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 |

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|-----------------------------------|--|
| Fri, 26 Aug ITIC | Morning: Successful End-to-End Tsunami Emergency Response Plans and Concept of Operations 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 Creating TER Standard Operating Procedures (SOP) and Checklists Templates and examples of SOP best practices. Assignment - Participant creation of SOP's and Checklists (Discussion/Sharing on 2 September) |
| Sat & Sun, 27-28 Aug | Free days |
| Mon, 29 Aug ITIC | Morning: How to Plan, Conduct, and Evaluate Tsunami Exercises Information Flow SOPs - the Role of Media in Tsunami Warning Awareness and Educational Materials Afternoon: Tsunami Warning Decision Support Tools (continuing as needed) Review, Summary and other new topics |
| Tues, 30 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 |
| Wed, 31 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 |
| Thurs, 1 Sept ITIC | Morning: Tsunami Mitigation – Education, Awareness, Mitigation Hard and Soft Countermeasures and Public Policy Tourism sectors, TsunamiReady programme Designing buildings to withstand tsunami and earthquake shaking Afternoon: Preparation of Country SOPs |
| Fri, 2 Sept ITIC | Roundtable discussion – Tsunami Warning and Mitigation PTWC, ITIC, NWS Pacific Region, ITP-Hawaii participants, other guests Participant sharing of SOPs and Checklists Future Directions, International and National Travel vouchers and other logistics Summary and Closing |
| Sat, 3 Sept | Hotel Checkout Depart for home country |

UNESCO/IOC – NOAA International Tsunami Information Center
ITIC TRAINING PROGRAMME (ITP) – HAWAII
22 August- 2 September 2011

APPLICATION FORM

Please type or write in BLOCK letters in English
Please return by 1 JULY 2010 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 |
|------------------|--------------|-------|
| | | |
| | | |
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| | | |

5. OTHER RELATED TSUNAMI-RELATED JOB EXPERIENCE

| OFFICE / ORGANIZATION JOB DESCRIPTION | POSITION | DATES |
|--|----------|-------|
| | | |
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| | | |

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: _____