

**UNESCO/IOC INTERNATIONAL TSUNAMI INFORMATION CENTRE
ITSU TRAINING PROGRAMME (ITP), 16-27 October 2006**

The 2006 UNESCO/IOC ICG/ITSU Training Programme will be held 16 to 27 October 2006 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. 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 required 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 2006

Sat, 14 October 2006	Arrival, hotel check-in, orientation
Sun, 15 October 2006	
Mon, 16 October ITIC	Morning: Programme Logistics. ITIC Internet and Library Usage. ITP-Hawaii Participant – Country Presentations Afternoon: Science Overview – Earthquakes, Tsunamis - generation, detection Dr. Victor Sardiña, PTWC TsunamiTeacher Resource Toolkit Dr. Laura Kong, ITIC Director
Tues, 17 October ITIC	Morning: PTWS, ITIC, and PTWC: Organization & Operations – Dr. Laura Kong 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 Both by: Dr. Gerard Fryer, PTWC Global Interactive Historical Tsunami Database (ITDB) Dr. Laura Kong, ITIC Director
Wed, 18 October 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 All by: Dr. Stuart Weinstein, PTWC Asst Director Afternoon : Visit Makapu'u Sea Level Station Rich Nygard, PTWC Senior Electronics Technician
Thurs, 19 October PTWC	Visit PTWC and HON Seismic station Dr. Stuart Weinstein, PTWC Asst Director Rich Nygard, PTWC Senior Electronics Technician 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, Fax, Email, RANET, FM methods, Mobile./Cell phones, SMS, etc
Fri, 20 October PTWC	Creating Standard Operating Procedures (SOP) and Checklists Introduce template of best practices.

Participant creation of SOP's and Checklists
(Discussion/Sharing on 27 October)
Dr. Stuart Weinstein, PTWC Asst Director

Sat & Sun
21-22 October

Free days

Mon, 23 October
ITIC
Oahu CD

Tsunami Emergency Response 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
Using Civil Air Patrol for Tsunami Warning alert dissemination
Tsunami Stakeholder Coordination Concept
Brian Yanagi, ITIC

1430

Visit Oahu County Civil Defense Emergency Operations Center
County Emergency Agency Responses to PTWC Tsunami Messages
John Cummings, Public Information Officer
Peter Hirai, Plans and Operations

Tues, 24 October
ITIC
Hawaii State CD

Check-out of hotel
Creating Standard Operating Procedures (SOP) and Checklists
Templates and examples of best practices.
Participant creation of SOP's and Checklists
(Discussion/Sharing on 27 October)
Planning a Tsunami Exercise
Example : Exercise Pacific Wave '06 Manual and Concepts
Brian Yanagi, ITIC

1445-1545

Visit State Civil Defense Emergency Operations Center
State Emergency Agency Responses to PTWC Tsunami Messages
Leighton Ah Cook, Plans and Operations

Depart 1820
Arrive 1911

Depart for Big Island, Hawaiian Airline 362
Trip Leader, Brian Yanagi, ITIC

Wed, 25 October
Big Island

Hawaii County Civil Defense Emergency Operations Center
Mayor Hawaii Kim; Troy Kindred, HCDA Administrator
Pacific Tsunami Museum, Donna Saiki, Director
Tsunami memorials

Depart 1740
Arrive 1827

Return to Honolulu, Hawaiian Airlines 261
Check-in to hotel

Thurs, 26 October
ITIC

Tsunami Mitigation – Education, Outreach, Mitigation
Countermeasures Awareness, and Public Policy, including

ITIC Awareness and Educational Materials

Dr. Laura Kong, ITIC Director

Public Affairs and media, Tourism sectors, TsunamiReady programme

Nezette Rydell, NWS Honolulu Forecast Officer, Warning

Coordination Meteorologist

Designing buildings to withstand tsunami and earthquake shaking

Dr. Ian Robertson, Structural Engineer, University of Hawai

Fri, 27 October

ITIC

Roundtable discussion – Tsunami Warning and Mitigation

PTWC (Director Dr. Chip McCreery), ITIC (Director Laura Kong,

Brian Yanagi), ITP-Hawaii participants, Other guests invited)

Participant sharing of SOP's and Checklists

Future Directions, International and National

Travel vouchers and other logistics

Summary and Closing

Fri, 27 October

Sat, 28 October

Hotel Check-out, Depart for home country