URGENT—ATTENTION REQUIRED!

PACON International asks each member to send an email to PACON with your current email address and to keep us posted of any address/phone changes so our database can be kept up-to-date. For members without internet access, please fax your current fax number to 808-956-2580.

PACON 2006

The Twelfth Pacific Congress on Marine Science and Technology, PACON 2006, will be held at the Traders Hotel in Yangon, Myanmar on June 11-16, 2006. The theme is “Marine Science and Technology in Asia.” Abstract deadline is March 31, 2006.

Called the golden land, Myanmar is a country of magnificent and ancient Buddhist temples and plenty of wonders for the eye: life-giving rivers, lush mountain forests, and intricately-drawn cities. Of the many famous pagodas in Yangon, the greatest one is the Shwedagon Pagoda. When the Shwedagon Hti (umbrella) was repaired, the gold bud at its tip called the “diamond bud” was found to be crowned with a 76-carat solitaire diamond and encrusted with 4,351 smaller ones (total weight 1,800 carats). The vast majority of Myanmar’s people live in the lowland regions of the fertile expanse of the Irrawaddy basin, one of the world’s great rice-growing regions. Myanmar’s population includes dozens of different racial and ethnic groups, including the Mon, Burmans, Kachins, Chins, Shans, Rakhine, and Karens, each of which have historically dominated a particular area of the country. Although Burmese is the major and official language, more than a hundred local and regional dialects are spoken throughout Myanmar.
HIGHLIGHTS OF PACON 2005

**The PACON 2005 abstract final deadline has been extended to September 15, 2005.**

On Sunday, November 6, 2005, there will be two concurrent special lectures in the morning and two concurrent tutorials afterward.

9:00 a.m. – 11 a.m.:
- OCEAN PARK (by Dr. Narendra Saxena and Dr. Kenji Hotta)
- NATURAL HAZARDS IN TAIWAN - Tsunamis, Beach Erosion (by Dr. Ho-Shong Hou and Dr. Philip Liu)

11:30 a.m. – 4:00 p.m.:
- UNDERWATER ACOUSTICS (by Dr. Adam Zielinski)
- MONITORING METHODS AND STRATEGIES USING AUTOMATED SYSTEMS (by Dr. Friedhelm Schroeder)

On Monday, November 7, 2005, PACON 2005 will be declared open by President Shui-Bian Chen, of Taiwan. The Opening Address “Soft Civilization: An Era for the Pacific” will be given by Vice President Lu Hsiu-lien (Taiwan). The Keynote Address by Dr. Lorenz Magaard (USA) will be about “Climate Research Programs at the University of Hawaii.” The PACON Awards Banquet Speech by Dr. Ho-Shong Hou (Taiwan) will be on the “Sustainable Development of the Pacific.” The Master of Ceremonies will be Ms. Sherry Yen.

During PACON 2005, there will be spouse’s tours, technical tours, a special tea ceremony, (Monday, 10:30 a.m.) and a Kinmen Island Tour. The spouse’s tours, technical tours, and tea ceremony are free admission.

A special invitation to the Kinmen Island is scheduled for Thursday, November 10, 2005 from 7:00 a.m.-7:00 p.m. Cost of the island tour will be US$125 for roundtrip airfare only (other expenses will be paid by the local government).

Kinmen is a historical island, full of human and natural resources. It has 15 additional islands, including the largest secondary island, Lieyu (Little Kinmen), Dadan, and Erdan islets, etc., with a total area of about 150,456 square meters and a population of approximately 60,000. The name of Kinmen (“Gateway Fortress”) was given because the island was considered impregnable and safe, a fortified fortress that could serve as a gateway for navigational routes. Located to the west of the Taiwan Strait and the Jiulong River estuary off the coast of Xiamen, Kinmen is strategically important and has experienced many battles in history.

PACON 2005 TECHNICAL PROGRAM

THEME:  Harmonization of Port and Industry

OCEAN SCIENCE AND TECHNOLOGY (OST)
COORDINATORS: Hsien-Hua Lee (Taiwan) and Norman Estabrook (USA)

OST-1: Ocean Mapping and Seafloor Characterization
(GIS, Survey Systems)
Chair: Yong-Qi Chen (China)
Co-Chairs: Chih-Chung Kao (Taiwan), Shiahn-Wern Shyue (Taiwan), Chiang-Mei Chu (Taiwan)

OST-2: Marine Biotechnology
(Natural Products, Manufactured Products)
Chair: Yeong-Jen Chiu (Taiwan)
Co-Chairs: Chuang-Yuan Li (Taiwan), Jhy-Horng Sheu (Taiwan), Mark Huntley (USA)*
PACON International

PACON 2005 TECHNICAL PROGRAM--Continued

OST-3: Fisheries Technology
Chair: (TBA), Co-Chairs: Wei-Cheng Su (Taiwan), Mao-Sen Su (Taiwan)

OST-4: Remote Sensing and Oceanographic Satellites
(Satellite, Ocean Systems)
Chair: Joz Wu (Taiwan)
Co-Chairs: Kun-Shan Chen (Taiwan), Chen-Tung Arthur Chen (Taiwan)

OST-5: Advanced Vehicles
(Surface Craft, Undersea Vehicles)
Chair: Ya-Jung Lee (Taiwan)
Co-Chairs: Syue-Sinn Leu (Taiwan), Chuan-Yao Chen (China), Y. C. Hsu (Taiwan)

OST-6: Operational Experiences in Environmental Monitoring
Chair: Friedhelm Schroeder (Germany)
Co-Chairs: Kuo-Tung Chang (Taiwan), Chung-Ho Chien (Taiwan)

OST-7: Climate Change
Chair: Lorenz Magaard (USA)
Co-Chairs: Chu-Teng Liu (Taiwan), Kuang-Lung Fan (Taiwan), Heh-Ling Maa (China)

COASTAL SCIENCE AND TECHNOLOGY (CST)
COORDINATORS: Tai-Wen Hsu (Taiwan) and Young C. Kim (USA)

CST-1: Hydrodynamics of Coastal Waters
(Wave Characteristics, Wave Theories, Wave Transformation)
Chair: Nai-Kuang Liang (Taiwan)
Co-Chairs: Stephen R. Hsu (Taiwan), Yan-Yin Chen (Taiwan), Chung-Pan Lee (Taiwan)

CST-2: Coastal Water Level Fluctuations
(Tides, Storm Surges, Tsunamis, Sea Level Rise)
Chair: Philip Liu (USA)*
Co-Chairs: Ching-Piao Tsai (Taiwan), John-Z. Yim (Taiwan)

CST-3: Harbor & Port: Design, Construction, and Maintenance
(Planning, Design, Construction, Maintenance, Operation and Logistics)
Chair: Ho-Shong Hou (Taiwan)
Co-Chairs: Long-Wen Lee (Taiwan), Charlie Than (Myanmar)*, Ching-Her Hwang (Taiwan)

CST-4: Coastal Structures
(Wave Forces; Rubble-Mound Structures; Planning, Design, & Construction)
Chair: Shi-Dun Guo (Taiwan)
Co-Chairs: Jea-Tzyy Juang (Taiwan), Sheng-Wen Twu (Taiwan), Jian-Quan Shen (Taiwan)

CST-5: Ports, Harbors, and Development of the Waterfront
(Planning, Design, and Construction; Moorings)
Chair: Chih-Min Lin (Taiwan)
Co-Chairs: Ming-Hui Shieh (Taiwan), Yao-Tang Tsai (Taiwan), Chang Lin (Taiwan)

CST-6: Coastal Sediment Problems
(Coastal Sediment, Coastal Processes, Beach Accretion, Beach Erosion)
Chair: Shan-Hwei Ou (Taiwan)
Co-Chairs: Tai-Wen Hsu (Taiwan), Yung-Fang Chiu (Taiwan), Chih-Chong Wen (Taiwan)
PACON 2005 TECHNICAL PROGRAM--Continued

CST-7: Coastal Environmental Problems
(Coastal Pollution, Environmental Impact)
Chair: Hwung-Hweng Hwung (Taiwan)
Co-Chairs: Bao-Shi Shiau (Taiwan), You-yao Tang (China), Chih-Chong Wen (Taiwan), Juu-en Chang (Taiwan)

CST-8: Sustainable Coastal Development
(Energy Development, Coastal Management, Navigation and Transportation)
Chair: Jing-San Hwang (Taiwan)
Co-Chairs: Chung-Hsiung Wang (Taiwan), Chao-Kuo Chou (Taiwan), Jian-Chian Shern (Taiwan)

CST-9: Coastal Earthquakes and Earthquake Hazards
Chair: Chi-Chang Lin (Taiwan)
Co-Chairs: Chien-Chih Chen (Taiwan), Lun-Chang Chou (Taiwan), Jiunn-Jye Zheng (China)

MARINE RESOURCE MANAGEMENT AND DEVELOPMENT (MRMD)
COORDINATORS: Hwung-Hweng Hwung (Taiwan) and Kenji Hotta (Japan)

MRMD-1: Marine Policy, Law, and Government
(Policy, Law, and Government Regulations)
Chair: Ting-Kuei Tsay (Taiwan)
Co-Chairs: Wen-Yan Chiau (Taiwan), Chun Wang (Taiwan), Nien-Tsu Hu (Taiwan)

MRMD-2: Coral Reef Science and Management
(Science, Conservation, Management)
Chair: Ju-Chin Chen (Taiwan)
Co-Chairs: Lee-Shing Fang (Taiwan), Ker-Yea Soong (Taiwan)

MRMD-3: Marine Fishery
(Science and Management)
Chair: Dah-Wen Shieh (Taiwan)
Co-Chairs: Chen-Tsung Fan (Taiwan), Chung-Ti Chueh (Taiwan), Yoshifusa Yamada (Japan)*

MRMD-4: Marine Recreation and Tourism
(Socio-economic/Ecological Benefits, Impacts, Growth Potential)
Chair: Wen-Sheng Hsu (Taiwan)
Co-Chairs: Chang-Hung Chou (Taiwan), Tong-Liang Hwang (Taiwan), Takeo Kondo (Japan)*

MRMD-5: Deep Ocean Water Applications
(OTEC, Aquaculture, Cooling)
Chair: (TBA)
Co-Chairs: Ming-Chung Lin (Taiwan), Chih-Cheng Wang (Taiwan), Li-Hong Tsai (Taiwan)

WORKSHOPS (WKSP)
COORDINATOR: Chin-Yuan Hsieh (Taiwan)

WKSP-1: Education in Marine Science and Technology
(Formal, Informal, Public Outreach, K-12, Undergraduate)
Chair: Jing-Peng Shen (Taiwan)
Co-Chairs: Wei-Cheng Su (Taiwan), Chang-Feng Dai (Taiwan), Ding-Syun Shiau (Taiwan)

WKSP-2: Women in Marine Science, Technology, and Policy
(Training, Accomplishments, Barriers, Programs)
Chair: Elizabeth Corbin (USA)*
Co-Chairs: Pao-Nien Sun (Taiwan), Ching-Lin Tsai (Taiwan), Pei-Lian Wang (Taiwan)
WKSP-3: Science & Technology Applications for Coastal Management
Chair: (TBA)
Co-Chairs: Shen-Hsien Chen (Taiwan), Chen-Shan Kung (Taiwan)

WKSP-4: The Spratley Islands and International Marine Science Cooperation
(Satellite Remote Sensing, Bathymetry Mapping, Environment Monitoring)
Chair: Antony Liu (Japan)
Co-Chairs: Chien-Kee Chang (Taiwan), Ji-Ji Chen (Taiwan), Edmond C.I. Liu (Taiwan), Chao Shing Lee (Taiwan)

WKSP-5: Ocean Observing Systems
Chair: Adam Zielinski (Canada)
Co-Chairs: Chia-Chuen Kao (Taiwan), Yueh-Jiuan Hsu (Taiwan)

STUDENT POSTER SESSION/CECILIA HSI SAXENA AWARD
COORDINATORS: Sherwood Maynard (USA) and Jea-Tzyy Juang (Taiwan)
Monday, November 7, 2005, 10:30 a.m. - 12:30 p.m.

For the first time in PACON history, a PACON Student Poster Session will be held on Monday, November 7, 2005 at the Chienkuo Technology University in Changhua, Taiwan. The best three (3) poster presentations will receive the Cecilia Hsi Saxena Award at the PACON 2005 Awards Banquet Dinner on Tuesday, November 8, 2005. Each winner will receive a certificate award, cash prize, award banquet dinner, and reimbursement of their PACON 2005 registration fee.

Eligibility
A candidate for post-baccalaureate degree at an accredited tertiary institution currently enrolled or just graduated during the 2004-2005 academic year, and who are current members of PACON International or sponsored by a current PACON International member are eligible. If you are not a current member or do not know a current member who can sponsor you, then you may become a current student member at a cost of US$15. Membership application forms can be obtained from our website: www.hawaii.edu/pacon.

Criteria
1. Poster presentation and written manuscript must exemplify the integration of marine science and technology with a Pacific Ocean application.
2. Student Poster Session Abstract Submittal Form must be signed by the Head of their Department/Faculty to certify the status of the student.
3. US$50 of Abstract fee must be received with your abstract. At registration, the US$50 abstract fee will be subtracted from your total registration cost.
4. If your abstract is accepted, submittal of your full manuscript is required. (The manuscripts will be published under “Student Poster Session” in the PACON 2005 Proceedings on CD-ROM.)
5. Primary Author must be present to answer questions during the student poster session.
6. Students must register to attend and present their poster at PACON 2005.

Judging
1. Project content, significance, and quality
2. Written full manuscript
3. Poster presentation
4. Interview during Poster Session
STUDENT POSTER SESSION—Continued

Application/Preparation

1. Fill out the Student Poster Session Abstract Submittal Form and follow the Abstract Guidelines.
2. Submit a half-page abstract, Student Poster Session Abstract Submittal Form, and US$50 to PACON.
3. **Deadline for receipt of all application materials is September 1, 2005** (Hawaii Standard Time).
4. Primary Authors of accepted abstracts for the poster session will be notified by September 15, 2005. Your full manuscript must be received via E-mail: pacon@hawaii.edu by **October 10, 2005**. Please follow the PACON Student Poster Session Manuscript Guidelines.
5. All students must pay for registration fees by **November 6, 2005** to attend PACON 2005 on one of the following categories:
   - One-Day Registration: Student US$100
   - Full Registration: Student US$200
   Please fill out the PACON 2005 Registration Form and remember to subtract US$50 abstract fee towards your registration fee.
6. Poster setup will be on Sunday, November 6, 2005 and the Student Poster Session will be on Monday, November 7, 2005. (10:30 a.m. – 12:30 p.m.)
7. **Reminder**: The official language of the Symposium is English, which applies to your abstract, manuscript, and poster.

For more information, please see the “Student Poster Session” heading of our website at www.hawaii.edu/pacon.

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OCEAN DAY 2005

The Eleventh Annual Ocean Day 2005 was held at the Hawaiian Islands Humpback Whale National Marine Sanctuary in Hawaii Kai on Wednesday, June 1, 2005. **Dr. Lorenz Magaard**, Ocean Day chair, read the Governor’s Proclamation. **Mr. Jeff Coelho** read the Mayor’s Proclamation. **Councilmember Rod Tam** presented the Honorary Certificate from the Council of City and County of Honolulu.

(From Left to Right): Makena Coffman, James Potemra, Lorenz Magaard, and James Marsh

**Ms. Makena Coffman**, University of Hawaii Economic Research Organization (UHERO), gave a presentation for **Dr. Denise Eby Konan** on “The Economics of Tourism and Climate Change in Hawaii”, **Dr. James Potemra**, University of Hawaii, International Pacific Research Center (IPRC), talked about the “Predictability of Climate: Research at the International Pacific Research Center (IPRC)”, **Dr. Lorenz Magaard**, University of Hawaii, Dept. of Oceanography and International Center for Climate and Society (ICCS), enlightened us on “The Socio-Economic Value of Climate Prediction: Research at the International Center for Climate and Society (ICCS)”, and **Dr. James Barney Marsh**, University of Hawaii, College of Business Administration, closed with a presentation on “The Continuity of Land & Ocean Economics.”
OCEAN DAY 2005--Continued

A special mahalo goes to Ms. Keeley Belva and NOAA’s Hawaiian Islands Humpback Whale National Marine Sanctuary for the use of their wonderful facility. We also thank the following sponsors for their silent auction donations: an anonymous donor, the Ala Moana Hotel, Creative Holidays, Ice Palace, Matson Navigation, Michel’s at the Colony Surf, Robert’s Hawaii, The Plaza Club, and the Waikiki Beach Marriott Resort & Spa. Refreshments and a silent auction completed the event.

WHY THE EARTHQUAKES OF 26TH DECEMBER 2004 AND THE 27TH MARCH 2005 DIFFERED SO DRASTICALLY IN THEIR TSUNAMIGENIC POTENTIAL

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Introduction
The tsunami of 26th December 2004 in the Indian Ocean is the most destructive tsunami in historical time, anywhere on the globe. In fact, in terms of loss of life, this one tsunami killed more people (estimated to be over 310,000) than the entire Pacific Ocean tsunamis combined total for the 19th and 20th centuries.

Below we will qualitatively explain why this tsunami was so violent whereas in comparison the tsunami from the earthquake of March 27th 2005 was so small, that there was no loss of life directly attributable to the tsunami.

Basic Information About the Two Earthquakes
Table 1 lists the information on the standard parameters for both earthquakes. Figure 1 (on page 8) shows a geographical map of the Indian Ocean and the locations of the two epicenters.

Table 1: A comparison of the earthquake parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>26th Dec 04 Earthquake</th>
<th>28th March 2005 Earthquake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time of event in U.T.</td>
<td>00:58:53</td>
<td>16:09:36</td>
</tr>
<tr>
<td>Latitude of Epicentre</td>
<td>3° 19’N</td>
<td>2° 04’ 35’N</td>
</tr>
<tr>
<td>Longitude of Epicentre</td>
<td>95° 51.24’ E</td>
<td>97° 00’ 58’ E</td>
</tr>
<tr>
<td>Focal Depth</td>
<td>30 km</td>
<td>30 km</td>
</tr>
<tr>
<td>Fault Parameters</td>
<td>An estimated 1200 km of fault line slipped about 15 m along the subduction zone where the India Plate dives under the Burma Plate. Lateral movement of the order of 10 m and 4 to 5 m vertical movement along the fault line</td>
<td>The dimensions of the fault elements are 20 km in the strike direction and 16 km in the dip direction</td>
</tr>
<tr>
<td>Energy Released</td>
<td>4.5 Megatons (estimated)</td>
<td>0.7 megatons (estimated)</td>
</tr>
</tbody>
</table>
Figure 1: Geographical map of the Indian Ocean and the locations of the two epicenters.

Tsunami of 26th December 2004
Since tsunami energy is mainly directed perpendicular to the fault, the orientation of the fault at the epicentral location, directed the tsunami energy mainly in the corridor northwest to west. Obviously tsunami directivity considerations are of little relevance close to the epicentral area. Hence the 15-meter tsunami amplitudes in the northern part of Sumatra and the 12-meter amplitudes in the Phuket area of Thailand need no explanation. Since tsunami energy was not strongly directed in a general north and south directions, Australia in the south and Malaysia, Myanmar and Bangladesh in the north were not very seriously affected.

Other than Indonesia and Thailand, which were close to the epicentre, the countries that were strongly affected were Sri Lanka and India. Maldives and Somalia were also affected to some extent, with the tsunami impact lessening as one proceeded south along the east coast of Africa to countries such as Kenya, Tanzania, Mozambique and South Africa.

Why The 26th December 2004 Tsunami was so Violent
The reason why this tsunami was so violent differed from region to region. The second wave, which was the highest, approached Sri Lanka from both sides of the island nation due to diffraction and the wrap around effect produced very high waves.

There is a degenerate semi-diurnal tidal amphidromic point close to the east coast of Sri Lanka. The tsunami waves drew energy through Reynolds Eddy stresses from the strong horizontal currents associated with the amphidromic point. Other oceanographic processes that played a major role are quarter wave resonance amplification and Helmholtz Resonance. This also explains the high water levels along the southern part of the coast of Tamil Nadu in India. The tsunami started to dissipate as it proceeded northward, and did reach up to southern Orissa.

Something quite different occurred in the Kerala State of India. As the tsunami waves rounded Sri Lanka and entered the Arabian Sea, there was little impact on the very southern part of the state, for example, at Kovalam and Thruvananthapuram. However, reflected waves from the Lakshdweepa Islands arrived at Kollam in Kerala and caused loss of life and extensive damage. Helmholtz resonance also was important in Kerala harbours.

In the Andaman and Nicobar Islands of India, long gravity wave energy trapping was important. In Maldives, the amphidromic point near by was mainly responsible for the high wave amplitudes. Ocean bathymetry caused focusing of tsunami energy towards the northern part of the Somalia coast.

The Tsunami of 27th March 2005
As compared to the 9.3 magnitude earthquake of 26th December 2004, this earthquake had only a magnitude of 8.7. Hence the energy release was very much smaller. Also, while the 26th December 2004 quake was of thrust type (faulting in the vertical plane), the 27th March 2005 quake displayed characteristics of strike slip in which the displacement is mostly in the horizontal plane.

Thus, while there was large-scale ocean bottom deformation in the first event, which resulted in a catastrophic tsunami in the second event, there was no significant vertical deformation of the ocean bottom and because of this the tsunami was small. The epicenter of the second event was further south in an area where the ocean bathymetry was such that, instead of focusing of tsunami energy (as occurred on 26th December 2004), the opposite phenomenon of defocusing occurred, thus dissipating whatever tsunami energy was there.
CALENDAR OF EVENTS

PACON 2005
The Seventh Regional Symposium, PACON 2005, will be at the Chienkuo Technology University in Changhua, Taiwan on November 6-9, 2005. The theme is Harmonization of Port and Industry. Contact: pacon@hawaii.edu, website: www.hawaii.edu/pacon for current information. Extended abstract deadline is September 15, 2005.

2006 Ocean Sciences Meeting
The 13th Ocean Sciences Meeting, a joint meeting of ASLO, TOS and AGU, will be held February 20-24, 2006 in Honolulu, Hawaii. Contact: AGU Meetings Department, 2000 Florida Avenue, NW, Washington, DC 20009 USA, Phone: 1–800–966–2481, Ext. 333, Fax: +1–202–328–0566, Email: os-help@agu.org.

PACON 2006
The Twelfth Pacific Congress on Marine Science and Technology, PACON 2006, will be held at the Traders Hotel in Yangon, Myanmar on June 11-16, 2006. The theme is “Marine Science and Technology in Asia.” Abstract deadline is March 31, 2006. Contact: pacon@hawaii.edu.

JAPAN CHAPTER LIFE MEMBER LUNCHEON (June 2005)

PACON’s Japan Chapter held a lunch party that included the following members, life members, and friends of members: Front row (left to right): Dr. Mitsuo Takezawa, Dr. Kenji Hotta, Dr. Yoshifusa Yamada, and Mr. Masao Kishino. Back row (left to right): Mr. Keiichi Noto, Mr. Osamu Hanada, Mr. Fujimura for Mr. Tatsuzo Shibata, and Mr. Yuji Osaki.
New Members
Mr. Keiichi Noto (Life), Japan
Mr. Yuji Osaki (Life), Japan
Dr. Funda Yercan, Turkey

Renewing Members
Dr. Akio Kobayashi, Japan
Dr. Marcus Lincoln-Smith, Australia
Dr. Alexander Malahof, USA
Mr. George Marshall, USA

We thank Dr. Yoshifusa Yamada for referring Mr. Keiichi Noto and Mr. Yuji Osaki as new Life members from Japan. We also thank an anonymous donor for the gift membership for Dr. Funda Yercan.

PACON INTERNATIONAL LIFE MEMBERS

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Reb Bellinger
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