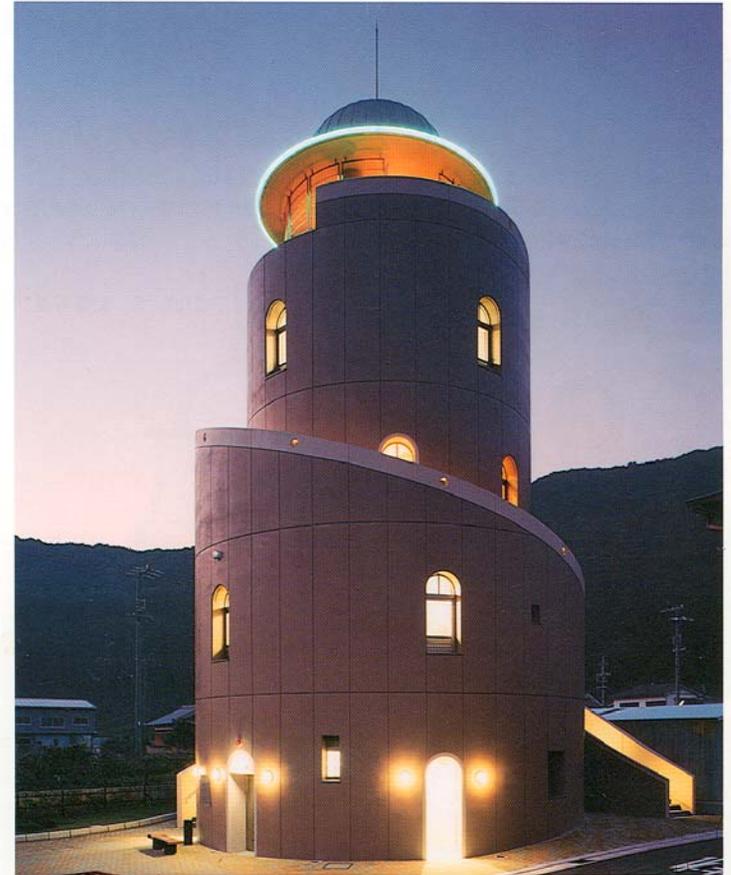
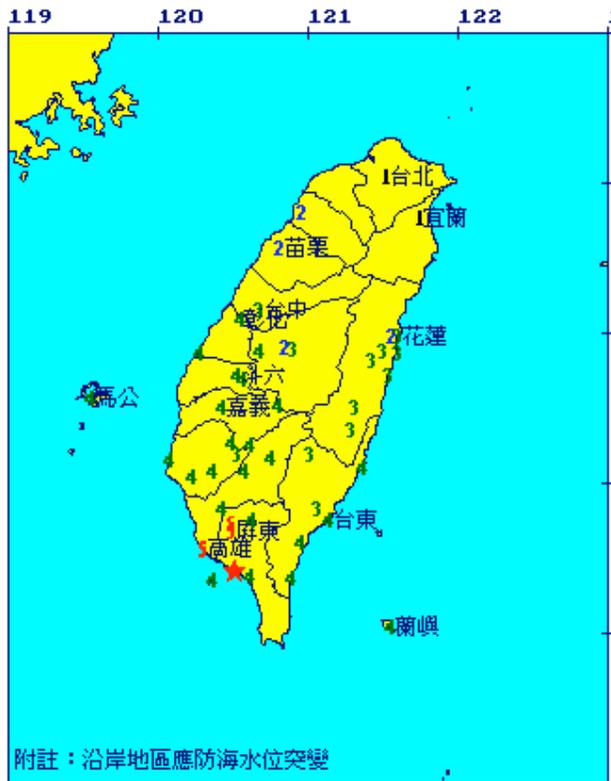




The 2004 Indian Ocean Tsunami: Banda Aceh



Tsunami shelters: “Nishiki Tower”



附註：沿岸地區應防海水位突變

圖說：★表震央位置，阿拉伯數字表示該測站震度

中央氣象局地震報告

編號：第95107號

日期：95年12月26日

時間：20時34分21.1秒

位置：北緯22.4度，東經120.51度
即在屏東枋寮地震站西偏北方11.6公里

地震深度：21.3公里

芮氏規模：6.4

各地最大震度

高雄市	5級	台中市	3級
屏東市	5級	花蓮市	3級
高雄港	5級	苗栗市	2級
屏東九如	5級	新竹竹北	2級
台東大武	4級	台北市	1級
台東市	4級	宜蘭市	1級
台南新化	4級	金門	1級
嘉義大埔	4級		
嘉義市	4級		
雲林古坑	4級		
斗六市	4級		
澎湖馬公	4級		
彰化大城	4級		
南投名間	4級		
彰化市	4級		
花蓮玉里	3級		



- The objective of this workshop is to discuss fundamental mechanics of coastal effects of tsunamis by reviewing and re-evaluating basic theories and analyses associated with critical topics of tsunamis.
- The critical topics “may” be:
 1. Mechanisms of and mathematical analysis for tsunami scour, sediment transport, and deposit
 2. Mechanics of fluid and debris-impact forces on man-made and natural objects

Day 3: Thursday, December 28

- 8:50 - 9:00 Announcements (Yeh)
- 9:00 - 9:15 Tsunami impact experiments video (Horikawa)
- 9:15 - 10:00 Wave loads on breakwaters, seawalls, and other marine structures (Oumeraci)
- 10:00 - 10:05 Coffee/tea
- 10:05 - 10:50 Current status of FEMA design guideline for tsunami force evaluations (Yeh)
- 10:50 - 12:00 **Group discussion 4: Fluid and Debris-Impact Forces** -- damage due to the drifting ships and its modeling by using EDEM (Imamura); the use of adaptive mesh refinement (LeVeque); generation of "cavitation" bubbles at the air-water interface (Young & Yim); and others -- chaired by **Shinji Sato**
- 12:00 - 1:00 Lunch
- 1:00 - 2:00 Free time and preparation for afternoon discussions
- 2:00 - 3:30 **Group discussion 5: Tsunami Forces** -- Measurement of wave force acting on buildings (Fujima); (Oumeraci) -- chaired by Yeh
- 3:30 - 3:45 Coffee/tea
- 3:45 - 5:30 **Group discussion 6: Revisit Sediments** -- very-fine grained-, very-coarse grained-, and internally stratified-tsunami deposits -- geologic constraints on flow conditions (Peterson); inverse modeling of tsunami deposits to determine tsunami flow speed (Jaffe); and others -- chaired by **Nick Dodd**
- 5:30 - 6:00 Free time
- 6:00 - 7:30 Dinner at Queen's Court
- 7:30 - 9:00 Stationary vortices in wall flows - how to laminarize a turbulent boundary layer by adding stationary vortices (Breidenthal)

Tomorrow the van will leave hotel
for Airport at:

7:45 am

9:30 am

10:00 am

10:45 am