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Workshop-Conference on Earthquakes and Tsunami: Modeling and Observations | (smr 3165)

Monday 11 December 2017

- (08:00-20:00)

time	title	presenter
08:00	Welcome and Registration	
10:00	Coffee Break	
10:30	Opening Ceremony	NGO BAO CHAU H.E. MS. CECILIA PICCIONI ABDELKRIM AOUDIA LE TRONG HONG VU HOANG LINH NGUYEN XUAN ANH
11:30	Overview and Introduction to the School	ABDELKRIM AOUDIA
12:00	Lunch Break	
14:00	Earthquake and Tsunami Hazard Assessment in Vietnam	PHUONG HONG NGUYEN
14:45	The Red River fault and the India-Asia collision	ANNE REPLUMAZ
15:30	Coffee Break	
16:00	Some experiences from past projects about hazard in Vietnam	FABIO ROMANELLI
16:45	Reservoir triggered seismicity in the Song Trash region, Vietnam	TUAN ANH THAI
18:00	WORKSHOP WELCOME DINNER	

Tuesday 12 December 2017

- (09:00-17:30)

time	title	presenter
09:00	Introduction of the participants	
10:00	Continental Deformation, Earthquakes and Perspective on the Hazard problem	ABDELKRIM AOUDIA
11:00	Coffee	
11:30	Simple seismology: Earthquakes, Active fault rules, lithosphere rheology, structure and variations	ABDELKRIM AOUDIA
12:30	Lunch	
14:00	What is a wave?	FABIO ROMANELLI
15:00	From sound to seismic waves	FABIO ROMANELLI
16:00	Coffee Break	
16:30	Earthquake source: representation theorem	FABIO ROMANELLI

Wednesday 13 December 2017

- (09:00-17:30)

time	title	presenter
09:00	Surface Waves	PETER MALISCHEWSKY
10:30	Coffee Break	
11:00	Earthquake source: focal mechanisms and source spectra	FABIO ROMANELLI
12:30	Lunch	
14:00	Seismic hazard: source and site effects	FABIO ROMANELLI
15:30	Coffee Break	
16:00	Understanding continental lithospheric evolution during collision beneath Tibet constrained by global tomographic images	ANNE REPLUMAZ
16:45	Dynamics of the lithospheric deformation constrained from regional Earth structure: Examples from the Central Mediterranean	ABDELKRIM AOUDIA

Thursday 14 December 2017

- (09:00-18:00)

time	title	presenter
09:00	Osculations of dispersion curves: a mystery with deep mathematical background and practical applications	PETER MALISCHEWSKY
10:00	Extended Earthquake Source	ANNE REPLUMAZ
11:00	Coffee Break	
11:30	From engineering seismology and towards earthquake engineering	FABIO ROMANELLI
12:30	Lunch	
14:00	Introduction to the earthquake cycle	ABDELKRIM AOUDIA
14:30	INSAR	HUA WANG
15:30	Quantitative geomorphology, examples from Southeast Asia	ANNE REPLUMAZ
16:30	Coffee Break	
17:00	Paleoseismology	MOHAMMAD FOROUTAN

Friday 15 December 2017

- (09:00-18:00)

time	title	presenter
09:00	Participant Presentations	
10:30	Coffee Break	
11:00	Introduction to computer exercises / Division into working groups	ALL
12:30	Lunch Break	
14:00	Computer exercises	
15:30	Coffee Break	
16:00	Computer exercises	

Saturday 16 December 2017

FIELD TRIP - HANOI CITY TOUR - (08:00-17:00)

Organized and offered by VIASM to workshop participants and faculty

Sunday 17 December 2017

FIELD TRIP - HA LONG BAY TOUR - (08:00-18:00)

Prior registration and fee required

Monday 18 December 2017

- (09:00-17:30)

time	title	presenter
09:00	InSAR and applications	HUA WANG
11:00	Coffee Break	
11:30	High Resolution Earthquake Location	BLAŽ VIŠIČ
12:30	Lunch Break	
14:00	Some remarks concerning orthogonality in seismology (history and problems)	PETER MALISCHEWSKY
15:00	H/V	TUAN THANH TRAN
16:00	Coffee Break	
16:30	Ambient noise seismic tomography: theory and application	DANIEL MANU-MARFO

Tuesday 19 December 2017

- (09:00-18:00)

time	title	presenter
09:00	Continental Deformation: GPS Geodesy and kinematics and dynamics of the deformation	ABDELKRIM AOUDIA, FARHAN JAVED
10:00	Case studies: coseismic, interseismic and transients	ABDELKRIM AOUDIA, FARHAN JAVED
11:00	Coffee Break	
11:30	Earthquake resilience and risk communication	ABDELKRIM AOUDIA
12:30	Lunch Break	
14:00	Participant presentations and open discussion	ALL
16:00	Coffee Break	
16:30	Participant presentations and open discussion	ALL

Wednesday 20 December 2017

- (09:00-17:30)

time	title	presenter
09:00	Tsunami generalia	EMILE OKAL
10:00	Earthquakes: General Ideas	EMILE OKAL
11:00	Coffee Break	
11:30	Earthquakes: Detection, Location, Focal Mechanisms	EMILE OKAL
12:30	Lunch Break	
14:00	Earthquakes: Quantification, Seismic scaling laws	EMILE OKAL
15:00	Modelling tsunamis from seismic sources	EMILE OKAL
16:00	Coffee Break	
16:30	Landslide tsunamis	EMILE OKAL

Thursday 21 December 2017

- (09:00-20:00)

time	title	presenter
09:00	Historical milestones in the study of tsunamis	EMILE OKAL
10:00	Lessons from Sumatra, 2004	EMILE OKAL
11:00	Coffee Break	
11:30	Lessons from Tohoku, 2011	EMILE OKAL
12:30	Lunch Break	
14:00	2010 Chile and 2011 Tohoku operational warning in Tahiti: E.A. Okal's personal experience	EMILE OKAL
15:00	The Quest for Wisdom 2004-- ?	EMILE OKAL
16:00	Coffee Break	
16:30	Recent developments: Sequencing of tsunami waves	EMILE OKAL
18:00	FAREWELL DINNER	

Friday 22 December 2017

- (09:00-16:00)

time	title	presenter
09:00	Recent developments: Snell's Law; Deep sources?	EMILE OKAL
10:00	Risk scenarios for the South China Sea and adjoining seas	EMILE OKAL
11:00	Coffee Break	
11:30	Meteotsunamis	EMILE OKAL
12:30	Lunch Break	
14:00	Final discussion and closing	ALL
15:30	Coffee Break	