

The 1st day (Oct. 28): General Symposium [GS]

Tatun volcano and Volcanic hazard mitigation

Open to public (governmental people, public general, etc.)

Time	Title & Speaker
09:30~09:40	Opening remarks
09:40~10:20	Sheng-Rong Song Geology and Fluid Chemistry of Tatun Volcanoes, Taiwan
10:20~11:00	Cheng-Horng Lin Volcano-Seismic Observations in the Tatun volcano group
11:00~11:10	break
11:00~12:10	Masato Iguchi Volcanic monitoring and hazard mitigation in Japan
12:10~13:30	Lunch
13:30~14:15	Fidel Costa Why, what, and how volcanoes erupt?
14:15~15:00	Benoit Taisne Monitoring and hazard management
15:00~15:30	Break
15:30~16:30	General discussion Moderator Cheng-Horng Lin, Fidel Costa, Eisuke Fujita

**The 2nd – 6th days (Oct. 29 – Nov. 2): [ACV-FC4]
Focusing Topics: Phreatic eruption and its hazard management**

Date	Time	Lectures
10/29 (Tue)	09:00~ 12:00	Introduction: <ul style="list-style-type: none"> • Processes of phreatic eruption (<i>Fidel Costa</i>) • Dynamics of magmatic eruption: observations and modeling (<i>Tomofumi Kozono</i>) • Poster presentation
	13:00~ 18:00	Geodetic analysis: <ul style="list-style-type: none"> • Geodetic observation around Tatun Volcano (<i>Masayuki Murase</i>) • Analysis of geodetic data (InSAR, Tiltmeter, GNSS) (<i>Yosuke Aoki</i>) • Poster presentation
10/30 (Wen)	09:00~ 12:00	Seismic analysis: <ul style="list-style-type: none"> • Applied to Tatun seismic data (<i>Benoit Taisne, Chiou Ting</i>) • Poster presentation
	13:00~ 18:00	Infrasound analysis: <ul style="list-style-type: none"> • Applied to Tatun Volcano data (<i>Benoit Taisne, Anna Perttu</i>) • Poster presentation
10/31 (Thu)	08:00~ 17:00	Field trip around the Tatun Volcano Group: <ul style="list-style-type: none"> • Taiwan Volcano Observatory, TVO • XiaoYouKeng fumarole • Monitoring stations • Outcrops of phreatic explosion deposit, Lahar deposit • Stratigraphic columns of debris avalanche deposit
11/1 (Fri)	09:00~ 12:00	Hazard: <ul style="list-style-type: none"> • Hazard map, ballistics simulation, etc. for the countermeasures to phreatic eruptions (<i>Kae Tsunematsu, George Williams, Eisuke Fujita</i>) • Poster presentation
	13:00~ 18:00	Ash: <ul style="list-style-type: none"> • Analysis of deposits, geochemical data analysis (<i>Takahiro Miwa, Dini Nurfitriani, Damia Bnet Morant</i>) • Poster presentation
11/2 (Sat)	09:00~ 17:00	Extra field trip around Taipei

Preliminary programme example:

10/29 (Tue)	Introduction:	
	09:00~10:00	Processes of phreatic eruption (<i>Fidel Costa</i>)
	10:00~10:40	Poster presentation [1029-1]
	10:40~11:00	Break
	11:00~12:00	Dynamics of magmatic eruption: observations and modeling (<i>Tomofumi Kozono</i>)
	Geodetic analysis:	
	13:00~14:00	General application of geodetic analysis (<i>Yosuke Aoki</i>)
	14:00~14:30	Break
	14:30~16:00	Exercise
	16:00~16:30	Geodetic analysis of Tatun Volcano (<i>Masayuki Murase</i>) -Volcano-hydrothermal activity detected by precise leveling surveys at the Tatun Volcano Group during 2006-2017-
	16:30~17:10	Poster presentation [1029-2]

10/30 (Wed)	Seismic analysis:	
	09:00~10:00	Processes of phreatic eruption (<i>Benoit Taisne, Chiou Ting Tan</i>)
	10:00~11:00	Exercise
	11:00~11:20	Break
	11:20~12:00	Poster presentation [1030-1]
	Infrasound analysis:	
	13:00~14:00	Application of Tatun Volcano data I (<i>Benoit Taisne, Anna Perttu</i>)
	14:00~15:00	Exercise
	15:00~15:20	Break
	15:20~16:20	Application of Tatun Volcano data II
	16:20~17:20	Exercise
	17:20~18:00	Poster presentation [1030-2]

11/1 (Fri)	Hazard:	
	09:00~10:00	Introduction of ballistic hazard (<i>Kae Tsunematsu</i>)
	10:00~10:20	Break
	10:20~11:20	Exercise (<i>Kae Tsunematsu, George Williams, Eisuke Fujita</i>)
	11:20~12:00	Poster presentation [1101-1]
	Ash:	
	13:00~14:00	Ash volcanology (<i>Takahiro Miwa</i>)
	14:00~14:20	Break
	14:20~16:00	Exercise (<i>Takahiro Miwa, Dini Nurfitriani, Damia Bnet Morant</i>)
	16:30~16:50	Break
	16:50~17:30	Poster presentation [1101-2]
	Closing ceremony	
	17:30-18:00	

Poster Presentation:

[1029-1]

1029-1-1: Hsiao-fen Lee (TVO) Long-term Geochemical Observations of the Tatun Volcano Group

1029-1-2: Hyeree Kim (Pusan N.U) Evaluation Using Geochemical Data to Infer Tectonic Setting of Mt. Baekdu

1029-1-3: Kento Shinjo (Kobe U.) Geochemical features between large eruption and small eruption in Aso volcano

1029-1-4: Raul Ryan R. Rebadulla (PHIVOLCS) SO₂ Emission Measurements During the Phreatic Eruption of Kanlaon Volcano, Philippines in 2017-2018

[1029-2]

1029-2-1: Satoshi Fuwa (Hokkaido U.) GNSS time series analysis of postseismic deformation induced by 2016 Kumamoto earthquake (M7.3)

1029-2-2: Tomohiro Inoue (Hokkaido U.) Magnetotelluric survey on the foot of Meakandake volcano

1029-2-3: Keida Kondo (Akita U.) Petrology of spinel-bearing layered gabbros from the Hess Deep rift, East Pacific Rise (IODP Site U1415)

1029-2-4: Takato Ono (U. Tokyo) High-frequency field auto-sampling of volcanic waters discharged near craters of active volcanoes

[1030-1]

1030-1-1: Ya-Chuan Lai (TVO) Seismicity of the Tatun Volcano Group, Northern Taiwan

1030-1-2: Pei-Yu Jhong (TVO) Three-dimensional crustal structure in the northern part of Eastern Taiwan from dense seismic array data sets

1030-1-3: Lois Abigail C. Jumawan (PHIVOLCS) Seismic observations during the 2017-2018 unrest of Kanlaon Volcano, Philippines

1030-1-4: Yizhou Luo (EOS) Evaluation of the Influence of Instrumental Bias on Recognising Volcanic Unrest Signals

[1030-2]

1030-2-1: Tan Chiou Ting (EOS): Real-time assessment of potential seismic migration using Red-flag SARA

1030-2-2: Dini NURFIANI (EOS) Source parameters of Marapi explosions using seismo-acoustic signals

1030-2-3: Ayuta Tsuge (Hokkaido U.) Multi-parameter, long period observations of Shikabe Geyser in Hokkaido

1030-2-4: Jie Ming Niu (IES,, AS) A synchronized deep source and repetitive triggering of long-period tremors in Aso volcano, Japan

1030-2-5: Ya-Min Yang (National Taiwan U.) U–Th–Ra Isotope Dating to Constrain the Youngest Eruption of Tatun Volcanic Group

1030-2-6: Huai-Yu Tang (National Taiwan U.) Tuff Layers in the Fore-Arc Basin of South Coastal Range, Eastern Taiwan: Implications for Volcanic Activity and Evolution after the Arc-Continent Collision

[1101-1]

1101-1-1: Vanesa Burgos Delgado (EOS) The 2018 Merapi phreatic eruption: What was the likelihood?

1101-1-2: Elly Tennant (EOS) Challenges of hazard assessment with limited data

1101-1-3: Ming-Chun Ke (NCDR) The Importance of Three-Dimensional Model on Evaluating Risk of Earthquake Disaster

1101-1-4: Ming-Wey Huang (NCDE) Automating Earthquake Decision Making System for Earthquake Emergency Operation

[1101-2]

1101-2-1: Guo-Teng HONG (CGS) A preliminary comparison of ashes from Merapi, Sakurajima, Aso and Tatun

1102-2-2: Yuya Ikenaga (U. Tokyo) Transition of "An'ei eruption" of Izu-Oshima volcano

1102-2-3: Lee, Jeong Hyun (Pusan N. U.) Study on the Distributional and Morphological Characteristics of Quaternary Monogenetic Volcanoes in Jeju Island, Korea

1102-2-4: George Williams (EOS) Using ballistic cannon experiments to explore new methods of building reinforcement