

Earth Science Session

Abstract No.	Time	Presented by	Affiliation	Title	Authors	page No.
Plenary Lecture: October 13 at the University Library Hall						
EO-01	October, 13 15:40 - 16:15	Huai-Jen Yang	National Cheng-Kung University	Source characteristics of magmatism at eastern and southwestern Taiwan	Huai-Jen Yang, Eiichi Takazawa and Yen-Hong Shau	46
Oral presentations: October 12 at Advanced Education and Research Building G, Room G410						
Chair person : Shusaku Yamazaki (Niigata University)						
EO-02	10:00	Shigeo Yoshida	Kyushu University	Introduction to the geodynamo theory and the alpha effect	Shigeo Yoshida	47
EO-03	10:30	Eiichi Takazawa	Niigata University	Distribution of highly refractory peridotites in the northern Oman mantle section: implications for hydrous melting in an incipient subarc mantle	Eiichi Takazawa, Nami Kanke, Yuki Nomoto and Satoru Fujii	48
EO-04	11:00	Yoshihiro Nakamura	Niigata University	Graphite as a source for carbon dioxide during earthquakes	Yoshihiro Nakamura, M. Satish-Kumar, Tsuyoshi Toyoshima	49
EO-05	11:30	Ruey-Juin Rau	National Cheng-Kung University	Present-day kinematics of Neogene extensional structures in the foreland of southwestern Taiwan	Ruey-Juin Rau, Chia-Hsun Yang, Sz-Man Ko, Kuo-En Ching and Chien-Liang Chen	50
Lunch Break 12:00-13:30						
Chair person : Naoto Ishida (Niigata University)						
EO-06	13:30	Taehyung Kim	Pukyong National University	Geological structures and their importance of Taejongdae for a geosite of the Busan Metropolitan Geopark	Taehyung Kim , Young-seog Kim	51
EO-07	14:00	Min-Hsun Cheng	National Cheng-Kung University	Sources of arsenic in groundwater from SW Taiwan: constraints from factor analysis	Min-Hsun Cheng, Huai-Jen Yang and Naoki Watanabe	52
EO-08	14:30	Toshihiko Hirooka	Kyushu University	Atmospheric Science Research in Kyushu University	Toshihiko Hirooka	53
Poster presentations: October 13 at the University Library Lounge						
EP-01	10:00-12:00	Hirohaka Hohokabe	Kyushu University	Linear stability analysis of two-layer thermal convection and the generation of surface flow of gas giants	Hirohaka Hohokabe and Shigeo Yoshida	54
EP-02	10:00-12:00	Chia-Hsun Yang	National Cheng-Kung University	Crustal Deformation of Fold-and-Thrust Belt in NW Taiwan Constrained by Geodetic Data during 2001-2012	Yang, Chia-Hsun, Rau, Ruey-Juin, Ching, Kuo-En and Chen, Chiang-Sin	55
EP-03	10:00-12:00	Yu-Ju Chiang	National Cheng-Kung University	Geochemical evidence of arsenic enrichment mechanisms for sediments in Hsin-Sheng core from SW Taiwan	Yu-Ju Chiang, Huai-Jen Yang, Yen-Hong Shau	56
EP-04	10:00-12:00	Pei-Ching Tsai	National Cheng-Kung University	Postseismic deformation following a lower crustal event: the 2010 ML 6.4 Jiashian, Taiwan earthquake	Pei-Ching Tsai , Ruey-Juin Rau and Kuo-En Ching	57
EP-05	10:00-12:00	Yuki Nomoto	Niigata University	Reaction process between fluid and residual mantle in the northwestern Salahi mantle section, the Oman ophiolite	Yuki NOMOTO and Eiichi TAKAZAWA	58
EP-06	10:00-12:00	Satoru Fujii	Niigata University	Formation and evolution of the southernmost Salahi mantle section in the Oman ophiolite inferred from spatial variability in structure and mineral composition of peridotites	Satoru FUJII and Eiichi TAKAZAWA	59
EP-07	10:00-12:00	Shusaku Yamazaki	Niigata University	Primitive boninite melt composition using Cr-spinel-hosted mineral inclusions from the Oman ophiolite	Shusaku Yamazaki	60
EP-08	10:00-12:00	Ryu Kaneko	Niigata University	Origin of a huge ultramafic intrusion found from the northern Salahi block in the Oman ophiolite	Ryu Kaneko, Yoshiko Adachi, Sumio Miyashita	61
EP-09	10:00-12:00	Chiaki Yamashita	Niigata University	Petrological study of basal peridotites in the mantle section of northern Fihz Block, the Oman ophiolite	Chiaki Yamashita and Eiichi Takazawa	62
EP-10	10:00-12:00	Ming-Zheng Huang	National Cheng-Kung University	A study on origin and genesis of volcanic breccias from Eastern Taiwan	Ming-Zheng Huang, Huai-Jen Yang	63
EP-11	10:00-12:00	Chih-Chun Liu	National Cheng-Kung University	An evaluation on the cause of the Dupal signatures from the pillow basalts at SW Taiwan	Chih-Chun Liu and Huai-Jen Yang	64
EP-12	10:00-12:00	Naoto Ishida	Niigata University	Microfossil research using 3D imaging technology: an experimental study of radiolarians using X-ray micro-computed tomography	Naoto ISHIDA, Naoko KISHIMOTO, Atsushi MATSUOKA, Katsunori KIMOTO, Toshiyuki KURIHARA and Takashi YOSHINO	65
EP-13	10:00-12:00	Masataka Uchiyama	Niigata University	Late Jurassic radiolarian fossils from a siliceous mudstone in the Niekawa-Kisohirasawa area, Nagano Prefecture, Central Japan	Masataka Uchiyama and Atsushi Matsuoka	66
EP-14	10:00-12:00	Yu-Wei Li	National Cheng-Kung University	The Characteristic of Sedimentary Environment in the Hanging Wall of Chukuo Fault, Chiayi, Taiwan	Yu-Wei Li, Kenn-Ming Yang, Yu-Long Chang and Bee-Deh Yuan	67
EP-15	10:00-12:00	Chao-Wei Chen	National Cheng-Kung University	Electron microscopic characterization and implications of authigenic pyrrhotite and other iron sulfides in cold-seep sediments off SW Taiwan	Chao-Wei Chen, Wei-Teh Jiang, Ko-Chun Huang, Ai-Ling Huang	68
EP-16	10:00-12:00	Lou U Tat	National Cheng-Kung University	Lithium isotope as a proxy for water/rock interaction between hydrothermal fluids and oceanic crust at Milos, Greece	Lou U Tat, Chen-Feng You, Shein-Fu Wu, Chuan-Hsiung Chung	69
EP-17	10:00-12:00	Yi-Tsung Tsai	National Cheng-Kung University	Experiments of reactions in the CO ₂ -water-sandstone system	Yi-Tsung Tsai, Huai-Jen Yang, Kung-Suan Ho	70
EP-18	10:00-12:00	Tung-Hsin Su	National Cheng-Kung University	The uses of BOF-slag	Tung-Hsin Su, Huai-Jen Yang, Yu-Chen Lee	71