**國立台灣大學地質科學系暨研究所**

**Department of Geosciences National Taiwan University**

**第三十屆青年論壇論文摘要集**

**The 30th Youth Forum Abstract Collection**

**中華民國一○四年四月八日、九日**

**April 8 & 9, 2015**

**議程 / Agenda**

**Date：104年4月8日(星期三) / April 8, 2015 (Wednesday)**

**Location：地質科學系大講堂 / B1 Conference Room**

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| **時間**  **TIME** | **演講者與演講題目**  **SPEAKERS AND TOPICS** | **頁碼**  **PAGE** |
| **08:45-09:00** | **開幕 / OPENING CEREMONY** |  |
| ***Session 1*** | ***Chair:* 劉慶怡** |  |
| 09:00-09:20 | 蔣孟庭　Meng-Ting Chiang  Diversity and Characteristics of Benthic Foraminifera Assemblages in Cold Seep Areas, Offshore Southwestern Taiwan | 1 |
| 09:20-09:40 | 林武滕　Wuh- Terng Lim  Gas composition and hydrochemistry of non-volcanic thermal springs in Peninsular Malaysia | 2 |
| 09:40-10:00 | 胡宛琳　Wan-Lin Hu  Change in deformation on the Hengchun Peninsula after 2006 Pingtung Earthquake and activity of the Hengchun Fault | 3 |
| **10:00-10:20** | ***COFFEE BREAK*** |  |
| ***Session 2*** | ***Chair:* 趙韋安** |  |
| 10:20-10:40 | 陳燕玲　Yen-Ling Chen  Faulting-type dependence of earthquake frequency-magnitude distribution (b value) in Taiwan | 4 |
| 10:40-11:00 | 羅翊菁　Yi-Jing Luo  Potential Baises in Seismic Tomography due to Surface Topography Effect | 6 |
| 11:00-11:20 | 林姿綺　Tzu-Chi Lin  3D ground shaking and tsunami simulations of potential megathrust rupture along the southernmost Ryukyu Trench | 7 |
| 11:20-11:40 | 黃梓殷　Tzu-Ying Huang  Resolving the crustal seismic anisotropy of Taiwan using ambient seismic noises | 8 |
| 11:40-12:00 | 張曉駿　Xiao-Yun Zhang  Rayleigh Wave Tomography across Taiwan from Frequency-domain Ambient Noise Correlation | 9 |
| **12:00-15:20** | ***LUNCH BREAK*** |  |

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| ***Session 3*** | ***Chair:* 余采倫** |  |
| 15:20-15:40 | 陳達毅　Da-Yi Chen  Incorporating low-cost seismometers into the Central Weather Bureau seismic network for earthquake early warning in Taiwan | 10 |
| 15:40-16:00 | 李奕德　Yi-Te Lee  [Constraints of mapped and unfolded slabs on Oligocene to present-day Western Mediterranean plate reconstructions: potential role of north Iberia continental delamination](#_Toc385338777) | 11 |
| 16:00-16:20 | 賴姿心　Tzu-Hsin Lai  Measurement of the Spectral Decay Parameter Kappa Using Borehole Seismic Array Data | 12 |
| 16:20-16:40 | 林子瑜　Tzu-yu Lin  Seismic Velocity Anomalies beneath Tatun Volcano Group, Northern Taiwan | 13 |
| 16:40-17:00 | 紀蕙青　Hui-Ching Chi  Using P-wave Triplications to Constrain the Mantle Transition Zone beneath Central Iranian Plateau and Surrounding area | 14 |

**Date : 103年4月9日(星期四) / April 9, 2015 (Thursday)**

**Location：地質科學系大講堂 / B1 Conference Room**

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| **時間**  **TIME** | **演講者與演講題目**  **SPEAKERS AND TOPICS** | **頁碼**  **PAGE** |
| ***Session 1*** | ***Chair:* 簡珮如** |  |
| 08:40-09:00 | 王興麟　Shing-Lin Wang  Incremental stepped combustion on clay minerals and terrace sediment from western Taiwan | 15 |
| 09:00-09:20 | 溫心怡　Hsin-Yi Wen  Geochemical characteristics of submarine hydrothermal plumes near Tokara Islands | 16 |
| 09:20-09:40 | 林虹志　Hong-Zhi Lin  Detrital zircon study of Tungao－Nanao region schist | 17 |
| 09:40-10:00 | 吳宗叡　Tsung-Jui Wu  Geochemical Characteristics and Petrogenesis of Adakites in the Sikhote-Alin area, Russian Far East | 18 |
| **10:00-10:20** | ***COFFEE BREAK*** |  |
| ***Session 2*** | ***Chair:* 陳艾荻** |  |
| 10:20-10:40 | 賴俊瑋　Chun-Wei Lai  An automatic continuous monitoring station for groundwater | 19 |
| 10:40-11:00 | 張雅緻　Nga-Chi Cheung  Dissolved Gas Composition of Groundwater in Taipei Basin and its implications | 20 |
| 11:00-11:20 | 戴東霖　Tung-Lin Tai  Characterization of Permeable Zones by Measurement of Borehole Temperature | 21 |
| 11:20-11:40 | 張喭汝　Yan-Ru Chang  Monitor the Surface Deformation in Metropolitan Taipei Basin by Using PS-InSAR Techniques | 22 |
| 11:40-12:00 | 郭昱廷　Yu-Ting Kuo  The behavior of the subduction zone in the Western Solomon Islands revealed by GPS observation during 2011 - 2014 | 23 |
| **12:00-13:20** | ***LUNCH BREAK*** |  |

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| ***Session 3*** | ***Chair:* 張姍姍** |  |
| 13:20-13:40 | 巫姿萱　Tzu-Shuan Wu  [Quartz OSL SAR protocol as a thermochronometer – an example from Hsuehshan Range in central Taiwan](#_Toc385338795) | 24 |
| 13:40-14:00 | 李尚實　Shang-Shih Li  Synthesis and properties of modified graphite encapsulated iron metal nanostructures | 25 |
| 14:00-14:20 | 李蕙成　Huey-Cheng Lee  Co-seismic deformation of the 16 May 2007 Laos earthquake based on SAR interferometry analysis | 26 |
| 14:20-14:40 | 楊詠然　Yung-Jan Yang  The Environment Changes Since the Last Glacial Maximum Epoch in the Chayi area, Southwestern Taiwan | 27 |
| 14:40-15:00 | 陳承鴻　Cheng-Hung Chen  Landscape Evolution of the Western Foothills in Taiwan inferred from fluvial channel morphology | 28 |
| **15:00-15:40** | ***COFFEE BREAK*** |  |
| **15:40** | **頒獎與閉幕 / AWARD AND CLOSING CEREMONY** |  |