

## 05 月 17 日議程

V1-1

201 教室

### 一般地球化學 General Geochemistry

主持人：廖文軒、沈姿岑

8:30~8:40	<b>V1-O-01</b> Chuan-Chou Shen High-precision analyses of trace elements and isotopes
8:40~8:50	<b>V1-O-02</b> Kuo-Fang Huang, Yung-Hsin Liu, Ruo-Mei Wang High-precision Magnesium Isotopic Analysis and its potential applications in Continental Weathering and Past Ocean Chemistry
8:50~9:00	<b>V1-O-03</b> Wen-Hsuan Liao, Tung-Yuan Ho, Chen-Feng You Using trace metal isotopes to study marine biogeochemistry: Fe and Zn cycles in the Pacific Ocean
9:00~9:10	<b>V1-O-04</b> Shail Vijeta Ekka, Yu-Hsuan Liang, Kuo-Fang Huang, Der-Chuen Lee Application of Mo isotopes in Taiwan rivers
9:10~9:20	<b>V1-O-05</b> Jian-Wei Lin, Hao-Yang Lee, Chi-Yu Lee, Cheng-Hong Chen Preliminary performance of LA-ICPMS U-Th-Pb monazite dating system
9:20~9:30	<b>V1-O-06</b> Tzu-Tesn Shen, Hong-Chun Li, Rick Qiu A new semiautomatic graphitization system using H <sub>2</sub> reduction at NTUAMS Lab
9:30~9:40	<b>V1-O-07</b> 呂弘立、洪崇勝、鍾維安、偕嘉如、黃麗雲、江威德、楊懷仁 實驗制約探討針鐵礦對於砷的富集機制
9:40~9:50	<b>V1-O-08</b> 梁家愷、偕嘉如、黃麗雲、江威德、楊懷仁 實驗探討水鐵礦於環境砷循環之角色

TT

202 教室

**臺灣之地質構造與環境變遷** Taiwan Tectonics

主持人：李元希、徐志煌

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| 8:30~8:40 | <b>TT-O-09</b><br>陳文山、吳逸民、楊耿明、葉柏毅、洪佳嘉、柯明淳、楊清淵、柯孝勳<br>臺灣的孕震構造   |
| 8:40~8:50 | <b>TT-O-10</b><br>Yuan-Hsi Lee, En Tan<br>A new approach of wedge deformation theory (D-layer) - example from Taiwan orogen  |
| 8:50~9:00 | <b>TT-O-11</b><br>李通藝、賴美澄、林郁伶、楊智宇、葉孟宛、吳榮章、李皓揚、飯塚義之<br>從臺灣中部新近系地層碎屑鋯石紀錄來探討海水面變化與前陸隆起遷移  |
| 9:00~9:10 | <b>TT-O-12</b><br>鄭名鈞、李元希、譚諤<br>以數值動力模型模擬從張裂到被動大陸邊緣時期拉張盆地內地殼溫度的演化  |
| 9:10~9:20 | <b>TT-O-13</b><br>Chase J. Shyu, Eh Tan, Linda A. Kirstein, Finlay M. Stuart, Yue-Gau Chen<br>The exhumation history of the middle Hsuehshan Range, Taiwan, as revealed by zircon thermochronological modeling |
| 9:20~9:30 | <b>TT-O-14</b><br>許庭慈、陳文山、朱美妃<br>海岸山脈馬達吉達溪剖面碎屑鋯石及磷灰石核飛跡定年研究—探討造山山脈之剝蝕歷史  |
| 9:30~9:40 | <b>TT-O-15</b><br>許寧珊、葉恩肇、曾雅筑、傅慶州<br>臺灣脊樑山脈南部橫貫公路之磁性組構研究與隱示  |

M5-1

205 教室

氣候變遷下的陸海交互作用觀測

OBTAIN-ucc: OBservatory for Terra-Aqua INteractions under climate changes

主持人：林立虹、黃致展

8:30~8:40	<b>M5-O-16</b> 陳卉瑄、陳建志、許雅儒 流體存在與循環的關鍵證據：造山帶的快、慢地震之整合分析
8:40~8:50	<b>M5-O-17</b> 林悅婷、陳貞年、Douglas Rumble、Edward D. Young、Jabrane Labidi、塗子萱、王珮玲、林立虹 台灣泥火山多樣化與不共源之氣體成因及甲烷來源時序上的變化：甲烷叢集同位素跟多種同位素系統的證據
8:50~9:00	<b>M5-O-18</b> 陳珺縈、黃俊銘、郭陳濤、游能悌、顏君毅、陳俊榕 利用反射震測與大地電磁法調查濁水溪扇洲地質盆地架構
9:00~9:10	<b>M5-O-19</b> 李安昇、劉雅瑄、蘇志杰、黃致展、謝志豪、郭陳濤、張文彥、楊汶達 系統性立體國土數位資訊之建立與保存
9:10~9:20	<b>M5-O-20</b> 黃致展、劉雅瑄、吳妍希、劉曜鳴、林均庭、張瑜峻、Gerald Degenhart 岩芯數位化之利器 - 電腦斷層掃描
9:20~9:30	<b>M5-O-21</b> En-Ju Lin, Tzu-Hsuan Tu, Jhen-Nien Chen, Pei-Ling Wang, Li-Hung Lin Variations in microbial utilization of organic compounds across a tectonic transition in the South China Sea
9:30~9:40	<b>M5-O-22</b> Wan-Yin Lien, Li-Hung Lin, Pei-Ling Wang, Chih-Tung Chen Two-stage oxidation of petrogenic organic carbon in a rapidly exhumed mountainous river catchment
9:40~9:50	<b>M5-O-23</b> 李芸瑄、鄭雅方、蘇志杰、林立虹、王珮玲 臺灣東部卑南溪河系之碳收支、轉變與傳輸

M3-1

208 教室

**臺灣西南部構造活動及其社經影響**

Active structures in Southwestern Taiwan and Their Socio-Economic Impact

主持人:景國恩、陳映年

8:30~8:40	<b>M3-O-24</b> 饒瑞鈞、景國恩、黃雋彥、謝銘哲、鄭皓騰 臺灣西南部泥岩區的快速變形對國家建設有何影響？如何因應？
8:40~8:50	<b>M3-O-25</b> 景國恩、陳松春、張午龍、盧志恒、羅祐宗、饒瑞鈞、郭昱廷、蕭詩涵、蔡佩京、陳建良 泥岩作用對南科橋頭與楠梓園區之地表變形研究
8:50~9:00	<b>M3-O-26</b> 陳松春、陳聖元、景國恩 燕巢地區泥貫入體特徵
9:00~9:10	<b>M3-O-27</b> Shih-Han Hsiao Scenario ground motion and coseismic displacements inferred from interseismic velocity fields: case study in SW Taiwan
9:10~9:20	<b>M3-O-28</b> Strong Wen, Ying-Nien Chen, Chun-Fu Liao, Yi-Ying Wen, Wei-Hau Wang, Yu-Lien Yeh, Yu-Chih Huang, Yi Zen Chang Combining Dense Seismic Array and Short-Period Data to Imaging the Body Wave Velocity Structure in the Highly Fractured Western Foothills of Southwestern Taiwan
9:20~9:30	<b>M3-O-29</b> Ying-Nien Chen, Chun-Fu Liao, Strong Wen, Huey-Chu Huang, Wei-Hau Wang, Yu-Chih Huang Multi-mode surface wave tomography using array interferometry: a case study in SW Taiwan
9:30~9:40	<b>M3-O-30</b> Yu-Tsung Lo, Kuo-En Ching, Horng-Yuan Yen, Song-Chuen Chen Bouguer gravity anomalies and the three-dimensional density structure of a thick mudstone area: A case study of southwestern Taiwan

9:40~9:50	<b>M3-O-31</b> Ngoc-Thao Nguyen, Maryline Le Beon, Neng-Wei Huang, Chuan Ding, Kuo-En Ching Holocene kinematics and geometry of a reverse strike-slip fault revealed by geomorphology and near-surface observations at the Gunshuiping mud volcano site, southwestern Taiwan
9:50~10:00	<b>M3-O-32</b> Hassan Aleem, Maryline Le Beon Structural analysis in the actively deforming Erhjen River Basin, southwestern Taiwan

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210 教室

**環境與噪聲地震學** Environmental and Ambient Noise Seismology

主持人：吳怡萱、趙韋安

8:30~8:40	<b>S3-O-33</b> vvn Wei-An Chao, Chi-Yao Hung, Yu-Shiu Chen Fluvial seismology in field experiments: application and challenge
8:40~8:50	<b>S3-O-34</b> Yi-Hsuan Wu, Jun-Jie Ke, Ming-Han Li, Benjamin F. Chao Long-period seismic normal modes of the Taipei basin
8:50~9:00	<b>S3-O-35</b> 柯俊杰、李明翰、趙丰 台北 101 大樓的自由震盪分析
9:00~9:10	<b>S3-O-36</b> Po-Li Su, Hsin-Hua Huang, Cheng-Horng Lin, Jian-Cheng Lee High resolution Vp and Vs imaging for geothermal exploration in the Ilan Plain, northeastern Taiwan by joint inversion of body- and surface-wave data
9:10~9:20	<b>S3-O-37</b> Cheng-Nan Liu, Fan-Chi Lin, Hsin-Hua Huang, Yu Wang Multi-Mode Rayleigh Wave Phase Velocity Inversion of Ambient Noise Tomography across Central Taiwan

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| 9:20~9:30 | <b>S3-O-38</b><br>Ramakrushna Reddy, Shu-Huei Hung, Yi-Ni Chen<br>Station Performance of the SALUTE Array and Ambient Noise Characteristics in Southern Taiwan |
| 9:30~9:40 | <b>S3-O-39</b><br>Chun-Fu Liao, Ying-Nien Chen<br>Investigating the spatiotemporal properties of the first higher-mode ambient noise Rayleigh wave in Taiwan   |

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**211 教室**

**海洋地質與地球物理** Marine Geology and Geophysics

主持人：陳松春、鄧家明

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| 8:30~8:40 | <b>O1-O-40</b><br>陳松春、蘇品如、林依蓉、陳聖元、邵屏華、許樹坤、劉家瑄、許鶴瀚、蘇志杰、陳信宏<br>離岸風場海域地質調查規劃及執行概況    |
| 8:40~8:50 | <b>O1-O-41</b><br>陳聖元、邵屏華、陳松春、蘇品如、林依蓉、陳家生<br>建置「離岸風場開發地質與環境感知系統暨資訊供應服務平台」之策略規劃與展望 |
| 8:50~9:00 | <b>O1-O-42</b><br>林廉凱、許樹坤<br>新竹斷層的海域延伸分布與變形前緣位置之探討                                |
| 9:00~9:10 | <b>O1-O-43</b><br>林依蓉、蘇品如、陳松春、邵屏華、王詠絢、許鶴瀚、許樹坤<br>臺灣東北部海域斷層及火山分布調查成果               |
| 9:10~9:20 | <b>O1-O-44</b><br>侯丞峰、馬仙古、王天楷<br>利用海底地震儀與多頻道反射震測資料分析臺灣海峽北部之沉積層與地殼 P 波速度構造         |
| 9:20~9:30 | <b>O1-O-45</b><br>吳虹儀、黃薇、王天楷<br>反射與折射震測分析澎湖盆地東側之沉積層 P 波速度構造                       |

**2022 臺東花蓮地震案例研討**

2022 Taitung Hualien Earthquake Case Study

主持人：王昱、唐啓賢

8:30~8:40	<b>M1-O-46</b> 王昱、吳昇翰、李易諭、程卉珊、段祥、徐濤德 從震後調查看 2022 年 0918 關山--池上地震地表破裂於玉里地區的地表特徵與變化
8:40~8:50	<b>M1-O-47</b> Yu-Ting Kuo, Chih-Heng Lu, Shao-Yi Huang, Yi-Chun Hsu, Hsin Tung, Jiun-Yee Yen, Chung-Pai Chang 3D coseismic surface deformation of the 2022 Chihshang earthquake sequence from joint inversion of Sentinel-1&2 images
8:50~9:00	<b>M1-O-48</b> Hsin Tung, Horng-Yue Chen, Yu Wang, Ya-Ju Hsu, Jian-Cheng Lee Coseismic displacement determined by GPS and precise leveling on 17 and 18 September 2022, ML 6.6 and ML 6.8 Guanshan and Chihshang earthquakes, Taiwan
9:00~9:10	<b>M1-O-49</b> 唐啓賢、林玉儂、童忻、王昱、李憲忠、許雅儒、徐濤德、郭昱廷、陳宏宇 從 2022 年關山-池上地震序列以及百年歷史地震窺探中央山脈斷層與縱谷斷層之相互作用
9:10~9:20	<b>M1-O-50</b> Jiun-Yee Yen, I-Chin Yen, Nai-Wun Shih, Shao-Yi Huang, Yi-Chun Hsu, Yueh-Iuan Ko, Wen-Yen Chang Coseismic ruptures of the 20220918 Mw 6.9 Hualien-Taitung earthquake in the Songpu area of the Longitudinal Valley of eastern Taiwan and paleo-earthquake records, evidence from surface mapping, electrical resistivity tomography and trench excavations

V1-2

201 教室

一般地球化學 General Geochemistry

主持人：郭思廷

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| 10:30~10:40 | <b>V1-O-51</b><br>李元希<br>由西部麓山帶到大南澳變質雜岩的變質溫度-利用碳物質拉曼光譜(RSCM)建構台灣造山帶變質溫度  |
| 10:40~10:50 | <b>V1-O-52</b><br>Szu-Ting Kuo, Li-Wei Kuo, Thi-Trinh Nguyen, Ting-Yen Tai<br>Rock deformation apparatuses at NCU: Experimental approaches to tectonic fault slip behaviours   |
| 10:50~11:00 | <b>V1-O-53</b><br>黃克峻、江威德<br>建構多重尺度顯微鏡技術於礦物微組構觀測差距之聯結  |
| 11:00~11:10 | <b>V1-O-54</b><br>花天享、王筑萱、王曜睿、莊勝智、蘇毓婷、黎瀟謙、龔慧貞<br>晶體動力學到行星科學:高溫高壓實驗   |
| 11:10~11:20 | <b>V1-O-55</b><br>Truong-Tai Nguyen, Kwan-Nang Pang, Wan-Ting Hsu, Yoshiyuki Iizuka<br>Rapid determination of modal mineralogy in igneous rocks and mantle rocks by bench-top micro-X-ray fluorescence spectrometry              |
| 11:20~11:30 | <b>V1-O-56</b><br>Chi-Hsiu Pang, Meng-Wan Yeh, Jian-Cheng Lee<br>Recrystallization or cooling ages? The application of $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology of mica in Cenozoic Taiwan Yuli metamorphic belt            |
| 11:30~11:40 | <b>V1-O-57</b><br>Karl D. Jabagat, Yuan-Hsi Lee, Jillian Aira S. Gabo-Ratio, Leo T. Armada, Hao-Yang Lee, Carla B. Dimalanta<br>Late Eocene Luzon Granitoid Complex: Exposed tonalitic middle crust of the Paleo-Philippine Arc? |
| 11:40~11:50 | <b>V1-O-58</b><br>陳燕華<br>磁力顯微鏡在古地磁之應用  |



溫泉與地熱能源/地球科學教育

Hot Springs and Geothermal Energy/ Earth Science Education

主持人：王祈、盧乙嘉、鄭文昕

10:30~10:40	<b>ER2-O-59</b> 宋聖榮 世界地熱發展現況和展望
10:40~10:50	<b>ER2-O-60</b> Yi-Chia Lu, Sheng-Rong Song, Ya-Min Yang, Ting-Jui Song, Chyi Wang Applicability of Na-K geothermometers in the Chingshui-type geothermal field
10:50~11:00	<b>ER2-O-61</b> 王婷慧、葉恩肇、張郁敬、陳棋炫、陳勉銘 宜蘭地熱區裂隙活化趨勢分析 以芄芄溪、排骨溪、土場與仁澤為例
11:00~11:10	<b>ER2-O-62</b> 陳松春、許樹坤、蘇品如、林依蓉、邵屏華 基隆海底火山地熱資源潛能探勘規劃
11:10~11:20	<b>ER2-O-63</b> 蔡維倫、葉恩肇 非彈性應變回復法現地應力評估的統計分析與精進
11:20~11:30	<b>EE-O-64</b> 許繼隆、盧詩丁 論信賴保護原則-- 從地質敏感區公告變更與地質敏感區基地地質調查及地質安全評估手冊改版出發
11:30~11:40	<b>EE-O-65</b> 鄭文昕、林樞衡、張恩維、陳柏村、盧詩丁 地質法第 9 條授權下之資料檢核方法可行性研究
11:40~11:50	<b>EE-O-66</b> 陳家生、邵屏華、陳松春、蘇品如、林依蓉、陳聖元、潘怡光、陳玉鴛 海域地質探勘調查資訊展示與資料供應之研發-以離岸風電場域地質調查為例

M5-2

205 教室

氣候變遷下的陸海交互作用觀測

OBTAIN-ucc: OBServatory for Terra-Aqua INteractions under climate changes

主持人：顏君毅、汪良奇

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| 10:30~10:40 | <b>M5-O-67</b><br>Jiun-Yee Yen, Neng-Ti Yu, Shyh-Jeng Chyi, Liang-Chi Wang, Lih-Der Ho, Jia-Hong Chen, Cheng-Hao Lu, Yu-Chang Chang, Yu-Chun Lin, Yung-Sen Chen<br>Rapidly climate-changing Holocene sediment generations and coastal environments of southern Taiwan |
| 10:40~10:50 | <b>M5-O-68</b><br>呂政豪、莊明霖、吳明典、蔡淑敏、陳宏宇<br>研發海陸聯合觀測技術於澎湖極端海岸災變事件  |
| 10:50~11:00 | <b>M5-O-69</b><br>齊士崢、施雅軒、顏君毅、陳佳宏<br>臺灣西南部加藤港古海嘯紀錄的黑歷史  |
| 11:00~11:10 | <b>M5-O-70</b><br>游能悌、顏君毅、齊世崢、汪良奇、顏一勤、呂政豪、黃能偉、陳佳宏<br>屏東大鵬灣近千年的洪氾與颱風湧浪堆積物  |
| 11:10~11:20 | <b>M5-O-71</b><br>汪良奇、游能悌、顏君毅<br>屏東大鵬灣兩萬年來沉積物內孢粉紀錄初探  |
| 11:20~11:30 | <b>M5-O-72</b><br>施宣妃、齊士崢、陳佳宏、張文彥、顏一勤<br>臺東大武溪與朝庸溪下游的埋積谷地地形演育研究   |
| 11:30~11:40 | <b>M5-O-73</b><br>陳佳宏、齊士崢、顏君毅<br>初探布唐布納斯溪的沖積扇階地發育機制   |
| 11:40~11:50 | <b>M5-O-74</b><br>陳豫祥<br>以陽明山鴨池探討過去 1600 年北台灣氣候與環境變化  |

M3-2/G1/M2

208 教室

**臺灣西南部構造活動及其社經影響/測地學與活動地殼變形  
/多維尺度地物與地化之孕震過程觀測**

Active structures in Southwestern Taiwan and Their Socio-Economic Impact/  
Geodesy and Crustal Deformation/ Multidimensional Geophysical and  
Geochemical Observations for Earthquake Generation Process

主持人：謝銘哲、鄭皓騰、Yogendra Sharma、傅慶州

10:30~10:40	<b>M3-O-75</b> Jyun-Yan Huang, Che-Min Lin, Kuo-En Ching, Chun-Hsiang Kuo Local Site Effect and Evidence of Fault Invasion in an Active Mud-Diapor Region from Dense Microtremor Measurements: A Case Study in Gunshuiping, Taiwan Region
10:40~10:50	<b>M3-O-76</b> 謝銘哲、詹忠翰 應用機率式與定值式地震危害分析技術探討南部科學園區地震危害潛勢
10:50~11:00	<b>M3-O-77</b> 鄭皓騰 應用交易成本理論比較各國因應地質災害之土地使用規劃策略
11:00~11:10	<b>G1-O-78</b> Yogendra Sharma Interseismic slip rate and fault geometry along the northwest Himalaya
11:10~11:20	<b>G1-O-79</b> 曹博涵、胡植慶、饒瑞鈞、邱俊穎 以 2015 年至 2019 年之雷達影像應用 PS-InSAR 技術分析宜蘭平原地表變形之特性
11:20~11:30	<b>M2-O-80</b> 黃俊銘、張立衡、潘勝彥、孫維芳、張以昕、莊永裕、古進上、紀宗志、傅慶州、郭陳澔 池上地震網 AI 近即時地震活動觀測

11:30~11:40	<b>M2-O-81</b> 孫維芳、潘勝彥、黃俊銘、古進上、紀宗志、黃柏壽、傅慶州、郭陳澔 池上微震觀測網及 2022 年 Mw6.9 池上地震序列
11:40~11:50	<b>M2-O-82</b> 牟鍾香、傅慶州、童忻、郭陳澔、朱傲祖 池上斷層近斷層帶受到 0918 地震活動特性初探
11:50~12:00	<b>M2-O-83</b> Ching-Chou Fu, Kuo-Hang Chen, Kuo-Wei Wu, Huey-Cheng Lee, Chung-Hsiang Mu, Hao Kuo-Chen Soil gas degassing and hydrogeological changes before and after the 2022 M6.8 Chihshang Earthquake in eastern Taiwan

**S4/GP2**

**210 教室**

**觀測地震學/人工智慧應用於地球物理**

Observational Seismology/ Application of AI to Geophysical Researches

主持人:陳冠翔、高嘉謙

10:30~10:40	<b>S4-O-84</b> 黃柏壽、古進上、林欽仁、江準熙、陳燕玲、陳國昌 以反向投射法成像震源自動定位地震—以台灣地震網為例
10:40~10:50	<b>S4-O-85</b> 蒲新杰、林正洪、李曉芬、賴雅娟、史旻弘 再探大屯火山地區流體上升現象
10:50~11:00	<b>S4-O-86</b> 林怡伸、王維豪、葉玉蓮、溫士忠、陳朝輝、黃蕙珠、石瑞銓、陳映年 獲得高精度地震定位的挑戰與解決之道-以雲嘉地區為例
11:00~11:10	<b>S4-O-87</b> Ban-Yuan Kuo, Cheng-Chien Peng, Kenn-Ming Yang Syn- and pre-orogenic deformation in the Taiwan foreland basin inferred from two-layer modeling of crustal anisotropy using Bayesian inversion

11:1~11:20	<b>S4-O-88</b> Sean Kuan-hsiang Chen, Po-Yuan Chen, Yih-Min Wu, Chien-Chih Chen, Chung-Han Chan A b-value precursor before the 2018 Hualien earthquake and its implication of preslip
11:20~11:30	<b>S4-O-89</b> How-Wei Chen 3D Near-surface to Upper Mantle Taiwan Reference Model Constrain by 1D/2D profiles and Empirical Vp-Vs Relationships
11:30~11:40	<b>GP2-O-90</b> Jui-Ming Chang, Wei-An Chao Data Augmentation Skill for Deep Neural Network of Two-Station Spectrogram Model in Landslide Research
11:40~11:50	<b>GP2-O-91</b> Jia-Cian Gao, Chung-Han Chan, Kuo-Fong Ma Ground motion model using Deep Neural Network in Taiwan
11:50~12:00	<b>GP2-O-92</b> Wu-Yu Liao, En-Jui Lee, Chung-Ching Wang, Po Chen, Floriane Provost, Clément Hibert, Jean-Philippe Malet, Chung-Ray Chu, Guan-Wei Lin RockNet: Rockfall and earthquake detection and association via multitask learning and transfer learning

01/02/ GC1

211 教室

海洋地質與地球物理/2022 年東加火山事件論壇：多種科學的觀察  
/全球變遷

Marine Geology and Geophysics/ Forum for the 2022 Tonga Volcanic Eruption,  
Multidiscipline Observations/ Global Change

主持人：李紅春

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|-------------|--|
| 10:30~10:40 | <b>O1-O-93</b><br>Yung-Hsiang Su, Tan-Kin Wang, Sebastian Wege, Wu-Cheng Chi<br>Imaging of shallow stratigraphy and fault structures of the Nanjihtao and Southern Taihsi Basin using OBS and MCS data   |
| 10:40~10:50 | <b>O1-O-94</b><br>鄧家明、陳鼎仁、尤柏森、葉一慶、許樹坤、邱朝聰、余尚學、<br>郭芳旭、林聖心<br>發展即時監控程式 RDMA 監測海洋震源品質  |
| 10:50~11:00 | <b>O1-O-95</b><br>Amy Hsieh, Romain Vaucher, Christian Zeeden, Ludvig Löwemark, Chorng-Shern Horng, Andrew T. Lin<br>Assessing past climatic oscillations in Pliocene shallow-marine strata using integrated magnetostratigraphy, biostratigraphy, and astrochronology |
| 11:00~11:10 | <b>O1-O-96</b><br>林俊宏、陳羿豪<br>沉底式水下電探系統之建立與海底電纜調查應用初探   |
| 11:10~11:20 | <b>O1-O-97</b><br>尤柏森、陳婷婷<br>勵進研究船重力/活塞岩心採樣技術進程與岩心品質管控   |
| 11:20~11:30 | <b>O2-O-98</b><br>Jann-Yenq Liu, Tzu-Hsun Kao, Tien-Chi Liu, Bor-Shouh Huang, Po-Han Lee<br>Magnetic field fluctuations in Taiwan induced by the Lamb waves associated with the 15 January 2022 Tonga volcanic eruption  |
| 11:30~11:40 | <b>GC1-O-99</b><br>李紅春<br>台北盆地 8 千年前的海平面和冬季溫度的再研究  |

地形學、地質景觀及地質公園/地球科學技術

Geomorphology/ Geoscience Technology

主持人：謝孟龍、林慶仁

10:30~10:40	<b>GM-O-100</b> 莊勝傑、古佳慧、林建緯、劉羽珊、郭麗秋、陳政恒、黃芷馨、 蘇祐鼎、侯進雄、黃柏鈞、王豐仁 地質知識漂紮根在地—地質知識學習站設立與精進建議
10:40~10:50	<b>GM-O-101</b> 謝有忠、孫武群、吳庭瑜、徐嘉君、王驥魁 台灣巨木棲地分布之地形特性與地質環境
10:50~11:00	<b>GM-O-102</b> 謝孟龍、黎芳好 台灣山區殘存緩起伏地形的應用—以濁水溪為例
11:00~11:10	<b>GM-O-103</b> 郭麗秋、羅偉、林建緯、莊勝傑、王豐仁、侯進雄 花蓮玉里地區對於 1951 與 2022 年地震遺跡的保存與活用之 研究
11:10~11:20	<b>GM-O-104</b> 林宗儀、呂紹平、劉俊旻 桃園海岸草漂沙丘之地形動力與環境演育
11:20~11:30	<b>GT-O-105</b> 林慶仁、林豐盛、張坤輝、郭本垣 深海型寬頻 OBS 載台的改良設計
11:30~11:40	<b>GT-O-106</b> 陳又嘉、林慶仁、張竝瑜、林日白 淺海型大地電磁儀的研發與檢測

B/V3/V4

201 教室

生物地球科學/環境地球化學/地殼與地函的岩石圈構造交互作用

Biogeosciences/ Environmental Geochemistry/ Lithotectonic Interaction Between Crust and Mantle

主持人：林玉詩、譚諤

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| 15:30~15:40 | <b>B-O-107</b><br>Yu-Shih Lin<br>Geomorphic controls of benthic organic carbon remineralization on two distinct shelves in the northern South China Sea  |
| 15:40~15:50 | <b>B-O-108</b><br>Pei-Hua Wu, Bi-Qing Liang<br>Low Mg-calcite Microtubes Formed by Cyanobacterial Biomineralization as the Scaffold in the Microbial Mat of Kenting Modern Stromatolite  |
| 15:50~16:00 | <b>B-O-109</b><br>Aslia Asif, Bing-Mu Hsu, Bashir Hussain<br>Systematic assessment of mineral distribution and diversity of microbial communities and its interactions in the Taiwan subduction zone of mud volcanoes                        |
| 16:00~16:10 | <b>B-O-110</b><br>Bashir Hussain, Bing-Mu Hsu, Aslia Asif<br>Analysis and interpretation of hot springs water, biofilms, and sediment bacterial community profiling and their metabolic potential in the area of Taiwan geothermal ecosystem |
| 16:10~16:20 | <b>B-O-111</b><br>I-Sen Tsai, Bing-Mu Hsu, Bashir Hussain, Cheng-Wei Fan, Suprokash Koner<br>Exploring In-situ Bioremediation for TCE Degradation: Microbial Metabolic Patterns and Bacterial Identification                                 |
| 16:20~16:30 | <b>B-O-112</b><br>Bing-Mu Hsu, Suprokash Koner, Bashir Hussain, Aslia Asif, I-An Tsai<br>Impact of Serpentine Rock on Microbial Communities and Biogeochemical Cycle   |



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| 16:30~16:40 | <b>B-O-113</b><br>張鈞翔<br>澎湖原人再現   |
| 16:40~16:50 | <b>V3-O-114</b><br>Satabdi Misra, Hong-Chun Li, Tzu-Tsen Shen<br>A multi-proxy approach to palaeoenvironmental reconstruction of Lake Shira, Russia: insights from $^{14}\text{C}$ , elemental concentrations and fallout radionuclides |
| 16:50~17:00 | <b>V4-O-115</b><br>Eh Tan<br>Production rate of magma at Mariana determined from numerical subduction models  |
| 17:00~17:10 | <b>V4-O-116</b><br>賴昱銘、梁瑋琪、呂宛馨、Iwan Setiawan、李皓揚、鍾孫霖<br>西瓜哇火山岩鋯石鈾鉛年代與鉛同位素值在區域構造之隱示  |

**ER3/ER4**

202 教室

**地熱潛能場址之調查與研究分享/地質處置場址之調查與研究分享**  
Survey and Research Sharing of Geothermal Potential Sites/ Survey and Research Sharing of Geological Disposal Sites

主持人：吳瑋哲、曾彥祺

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| 15:30~15:40 | <b>ER3-O-117</b><br>陳愷<br>緊密微震儀陣列於臺灣變質岩及火成岩地區探勘成果                              |
| 15:40~15:50 | <b>ER3-O-118</b><br>吳瑋哲、陳榮輝、蘇建旻、溫士忠、陳朝輝、李奕亨、陳俊榕、張文彥<br>區分火山型微震與構造型微震:以磺嘴山地熱區為例 |
| 15:50~16:00 | <b>ER3-O-119</b><br>劉台生、李元希、黃淞洋、賴柏翰、鄭展昀<br>廬山地熱區熱流機制之熱-水耦合數值模擬                 |
| 16:00~16:10 | <b>ER3-O-120</b><br>張郁敬、葉恩肇、林朝彥、黃淞洋、董倫道、郭泰融<br>臺灣南投東埔地區地熱場應力環境分析初探             |

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| 16:10~16:20 | <b>ER4-O-121</b><br>Andy Min Hao Wang<br>Assessing CO <sub>2</sub> Plume Migration and Trapping Mechanisms with Petroleum System Modeling |
| 16:20~16:30 | <b>ER4-O-122</b><br>曾彥祺、柯佳君、簡志宇、曾柏諺、許軒瑞、吳珉豪、田志明、李奇峰、楊志成<br>台灣北部濱海地區碳封存可行性研究   |
| 16:30~16:40 | <b>ER4-O-123</b><br>顏元奕、陳俊德、顏銀桐<br>二氧化碳地質封存之地震監測及風險評估   |

**M5-3**

205 教室

**氣候變遷下的陸海交互作用觀測**

OBTAIN-ucc: OBservatory for Terra-Aqua INteractions under climate changes

主持人：邱永嘉、王珮玲

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| 15:30~15:40 | <b>M5-O-124</b><br>邱永嘉、林立虹、李宗祐、許少瑜、陳文福、游政谷、王珮玲、鐘志忠、柯建仲<br>高屏溪全流域之水文特徵模型建立與水文收支研析   |
| 15:40~15:50 | <b>M5-O-125</b><br>李宗祐、邱繼成、許少瑜<br>高屏河流域水文收支初探  |
| 15:50~16:00 | <b>M5-O-126</b><br>李芸瑄、王珮玲、林立虹、邱永嘉<br>高屏河流域水文化學特徵與化學風化作用對碳收支的影響  |
| 16:00~16:10 | <b>M5-O-127</b><br>莊惟歆、蔡義誌、許少瑜、邱永嘉<br>高屏河流域隘寮溪河段地下水與地表水交互作用之研究：以斷流河道下方地下水及伏流水為例  |
| 16:10~16:20 | <b>M5-O-128</b><br>Tzu-Hsuan Tu, En-Ju Lin, Pei-Ling Wang , Li-Hung Lin<br>Upstream aquatic history and seasonality shape microbial community composition in a small mountainous river |

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| 16:20~16:30 | <b>M5-O-129</b><br>李宗祐、潘彥維、邱永嘉<br>應用分散式光纖溫度感測器觀測隘寮溪山區河段伏流水流出後之溫度變化  |
| 16:30~16:40 | <b>M5-O-130</b><br>潘彥維、李宗祐、邱永嘉<br>應用分散式光纖溫度感測器觀測隘寮溪山區河段伏流水流出後之溫度變化  |
| 16:40~16:50 | <b>M5-O-131</b><br>Jhen-Nien Chen, Li-Hung Lin, Pei-Ling Wang, Jui-Fen Tsai, Yueh-Ting Lin, Lu-Yu Wang, Pei-En Chen<br>Microbial carbon transformation in metamorphic aquifers of southeastern Taiwan |

**EG**

**208 教室**

**工程地質學** Engineering Geology

主持人：邱家吉

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|-------------|---|
| 15:30~15:40 | <b>EG-O-132</b><br>邱家吉、柳鈞元<br>半自動化岩體評分程式之建構   |
| 15:40~15:50 | <b>EG-O-133</b><br>黃宥傑、王泰典、鄭富書<br>非連續體數值模擬方法中板岩不連續面等值化評估方法  |
| 15:50~16:00 | <b>EG-O-134</b><br>羅百喬、黃詠智、潘立慈、羅偉、王泰典、謝有忠<br>板岩帶與片岩帶岩性交界的邊坡穩定與岩體特性探討-以南橫公路霧鹿至利稻鄰近為例   |
| 16:00~16:10 | <b>EG-O-135</b><br>吳明諭、羅偉<br>斷層破壞帶探討-以臺灣東北角萊萊地區為例   |
| 16:10~16:20 | <b>EG-O-136</b><br>Hoai-Han Le, Jia-Jyun Dong, Yu-Chen Lu, Stefan Christopher Nicholas<br>Scale effect of the spatial correlation length used in stochastic Markov random field: A case study in the Taipei Basin |

- 16:20~16:30 **EG-O-137**  
Duc-Huy Tran, Shih-Jung Wang, Jia-Jyun Dong  
Borehole Densities induced Uncertainty in Heterogeneously Hydrogeological Models
- 16:30~16:40 **EG-O-138**  
丁禕、陳勉銘、許鈞傑、陸挽中、黃淳銘  
談「地質調查技術指引手冊草案」與工程地質調查之重要性
- 16:40~16:50 **EG-O-139**  
劉育良、林承翰、林銘郎、楊恆偉  
利用砂箱試驗初探斜移斷層潛移錯動高架橋群樁基礎之性能評估
- 16:50~17:00 **EG-O-140**  
葉家志、蕭秋安、周坤賢、楊智堯、紀宗吉、邱禎龍、蘇泰維  
土壤液化潛勢調查分析與精進
- 17:00~17:10 **EG-O-141**  
賴俊璋、吳章諾、林瓚宏  
使用無人載具精進地表地質勘查之方法

**EM1/EM2**

**210 教室**

**礦物及岩石學/礦物及岩石物理**

Mineralogy and Petrology/ Mineral and Petro-Physics

主持人：黃克峻

- 15:30~15:40 **EM2-O-142**  
Wen-Pin Hsieh, Frédéric Deschamps, Yi-Chi Tsao  
A thermally-conductive Martian core and implications for its dynamo cessation
- 15:40~15:50 **EM2-O-143**  
吳玥箴、陳燕華、謝文斌  
奈米鈦磁鐵礦合成與其磁性及熱導率之研究
- 15:50~16:00 **EM1-O-144**  
Tze-Yuan Chen, Li-Wei Kuo  
Alteration of rock fulgurite—an experimental approach

16:00~16:10	<b>EM2-O-145</b> Ching-En Kung Simulation of thermo-hydro-mechanical-chemical evolution of fault gouges deformed at seismic slip velocities
16:10~16:20	<b>EM2-O-146</b> Thi-Trinh Nguyen, Li-Wei Kuo, Szu-Ting Kuo Frictional properties of water-saturated clay gouges during seismic slip
16:20~16:30	<b>EM1-O-147</b> Ko-Chun Huang, Wei-Teh Jiang Microstructures and polytypism of transitional enargite from the Penshan orebody in the Chinkuashih high sulfidation epithermal Cu-Au deposit
16:30~16:40	<b>EM1-O-148</b> 吳季芹、陳燕華 車瓜林斷層至中寮隧道間泥岩區之顯微組構及其大地應力之研究
16:40~16:50	<b>EM1-O-149</b> 李毓和、吳冠何、陳惠芬 屏東恆春半島地區碳氫化合物液包體水晶的特徵研究
16:50~17:00	<b>EM2-O-150</b> 龔慧貞、簡廷翰、花天享、鄭靜 解析或預測礦物振動光譜輔助工具:第一原理計算方法

NH1/NH3/NH2

211 教室

### 山崩與土石流災害/一般地質災害/地震災害

Landslide and Debris Flow/ General Geologic Hazard/ Seismic Hazard

主持人：王金山、曾佳漢

15:30~15:40	<b>NH1-O-151</b> 呂喬茵、詹瑜璋、胡植慶、邱俊穎、朱崇銳、曾佳漢、張志新 應用優化之多時域雷達干涉技術處理流程進行慢滑移山崩地表變形監測
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- 15:40~15:50 **NH1-O-152**  
朱崇銳、劉哲欣、張志新  
區域型邊坡落石地動自動監測技術開發
- 15:50~16:00 **NH1-O-153**  
Jui-Ming Chang, Wei-An Chao  
Daman Post Failure Landslides: Real-time Warning System by Parameter-based Method and Deep Neural Network
- 16:00~16:10 **NH1-O-154**  
黃春銘、李錫堤、簡留玄、謝有忠、林錫宏、紀宗吉  
山崩潛感因子最適尺度探討
- 16:10~16:20 **NH1-O-155**  
陳德偉、吳庭瑜、魏倫璋、黃春銘、簡留玄、楊哲銘、曾佳漢、謝有忠、林錫宏、紀宗吉  
潛在大規模崩塌分類分級方法學初探
- 16:20~16:30 **NH3-O-156**  
Chia-Han Tseng, Chao-Kai Chen, Alvian Yanuardian, Jia-Jyun Dong, Ruey-Juin Rau  
Monitoring and analyses of movement patterns and mechanisms of dip-slope landslides: A dip slope case in urban Taipei
- 16:30~16:40 **NH3-O-157**  
蘇聖天、徐浩德、王昱、李易諭、廖治豪  
無人飛行載具於露天礦場邊坡監測之應用
- 16:40~16:50 **NH2-O-158**  
王金山、譚志豪、陳憶璇、冀樹勇、謝有忠、邱禎龍、盧詩丁  
土壤液化監測場址建置與動態評估暨展示系統開發
- 16:50~17:00 **NH2-O-159**  
Shao-Jinn Chin, Rupert Sutherland, Martha Savage  
Earthquakes and seismic hazard in the footwall of a subduction zone, New Caledonia, South Pacific