

05月08日議程

H1-1 - 水文與水文地質 Hydrology and Hydrogeology

主持人：邱永嘉、林燕初

05月08日(星期三)

A124室

- 08:30-08:45 **H1-O-121**
以土壤熱特性推估土壤含水量之可行性研究
簡嫚萱(Jian,Man-Syuan)、邱永嘉
- 08:45-09:00 **H1-O-122**
TDR泥沙濃度監測研發與測試
TDR suspended sediment concentration monitoring development and implement
蘇勁宇(SU CHING YU)
- 09:00-09:15 **H1-O-123**
以單井TV-DTS進行地下水之流向與流速量測
Using single well TV-DTS to measure groundwater flow direction and velocity
劉承瀚(LIU-CHENG-HAN)、邱永嘉(Yung-chia Chiu)
- 09:15-09:30 **H1-O-124**
地球物理電磁方法於水文地質應用-以八卦台地為例
The Application of Geophysical Electromagnetic Methods in Hydrogeological Studies - A Case Study of the Bagua Terrace
陳俊榕(Chun-Rong Chen)、林燕初(-)、賴慈華(-)、黃智昭(-)、楊詠涵(Yung-Han Yang)、李奕亨(Yi-Heng Li)、黃桂奕(Kevin Huang)、陳文山(Alexix Chen)、陳新翰(Tommy Chen)、劉家維(Jia-Wei Liu)、李伯亨(Bo-Heng Lee)
- 09:30-09:45 **H1-O-125**
地形對火山集水區的生態水文之影響：從氫氧同位素證據
Topographic Influence on Ecohydrology in Volcanic Catchments: Evidence from Water Stable Isotope
李俊逸(Jun-Yi Lee)、彭宗仁(Tsung-Ren Peng)、李曉芬(Hsiao-Fen Lee)、劉滄琴(Tsang- Sen Liu)、盧乙嘉(Yi-Chia Lu)
- 09:45-10:00 **H1-O-126**
結合現地試驗及數值模式研析雲林沿海地區之淡海水交界面
Combining numerical model with on-site experiments to analyze freshwater-seawater interface in the coastal areas of Yunlin, Taiwan
陳楷韻(Kai-Yun Chen)、邱永嘉(Yung-Chia Chiu)

EM1/EM2-1 - 礦物及岩石學/礦物及岩石物理 Mineralogy and Petrology/ Mineral and Petro-Physics

主持人：郭力維、陳燕華

05月08日(星期三)

A128室

- 08:30-08:45 **EM1-O-127**
臺灣西南部泥岩區活動構造特性與變形機制之探究:以車瓜林斷層至旗山斷層間為例 Investigation on Tectonic Characteristics and Deformation Mechanisms of Mudstone Areas in southwestern Taiwan: A Case Study of the Mudstone Region between Chegualin and Chishan Faults
陳品豪(Pin-Hao, Chen)、陳燕華(Yen-Hua Chen)、謝明治(Ming-Chih Hsieh)、黃彥維(Yan-Wei Huang)、陳彥奇(Yan-Chi Chen)、吳季芹(Chi-Chin Wu)、鄢運璇(Yun-Syuan Yan)
- 08:45-09:00 **EM1-O-128**
Experimental Alteration of Rock Fulgurites and Its Insights for Lightning Scars
陳則元(Tze Yuan Chen)、郭力維(Li-Wei Kuo)、Matthew A. Pasek(Matthew A. Pasek)
- 09:00-09:15 **EM2-O-129**
從微觀到宏觀的各向異性應力-位移彈性波傳播模擬來探討岩石物理的研究
Elastic Anisotropic Stress-Displacement Wave Propagation Simulation Spanning Length Scales Rock Physics Models from Nano to Macro
陳浩維(How-Wei Chen)
- 09:15-09:30 **EM2-O-130**
Effects of thermal conductivity on the long-term thermal evolution of the lower mantle
陳季晴(Ji-Ching Chen)、Frédéric Deschamps、謝文斌(Wen-Pin Hsieh)
- 09:30-09:45 **EM2-O-131**
超含水相B在高溫高壓下的熱傳導率及其對地球深部水循環的影響
Thermal conductivity of Superhydrous Phase B at high pressure and temperature: implications for Earth deep water cycle
邱仁謙(Jen-Chien Chiu)、謝文斌(Wen-Pin Hsieh)

- 09:45-10:00 **EM2-O-132**
Frictional behavior of wet illite gouges under conditions of high normal stress, high slip rates and different fluid drainages
阮氏貞(Thi Trinh Nguyen)、郭力維(Li-Wei Kuo)、Szu-Ting Kuo

NH1-1 - 山崩與土石流災害 Landslide and Debris Flow

主持人：陳柔妃、曾佳漢

05月08日(星期三)

A136室

- 08:30-08:45 **NH1-O-133**
應用遙測技術進行台20線勤和至復興路段邊坡安全性評估
Application of remote sensing techniques in slope instability assessment along Taiwan provincial highway No. 20 from Kinhe to Fuxing
黃翊婷(Yi-Ting Huang)、陳柔妃(Rou-Fei Chen)、張國楨(Kuo-Jen Chang)、陳聰海、張嘉興、王慶雄(Ching-Hsiung Wang)、徐士捷、莊心凱、紀建宇
- 08:45-09:00 **NH1-O-134**
運用合成孔徑雷達干涉技術評估全臺大規模崩塌潛勢區活動性
Assessment of Nationwide Deep-Seated Landslide Activity in Taiwan Utilizing InSAR
區雪儀(Au Suet Yee)、陳柔妃(Rou-Fei Chen)、陳振宇(Chen-Yu Chen)、游雅筑(Ya-Zhu Yu)、陳宗霆(Tsung-Ting Chen)
- 09:00-09:15 **NH1-O-135**
潛在大規模崩塌分類分級方法學發展及應用
Development of Classification and Grading Approach for Potential Large-scale Landslides and its Application
吳庭瑜(Ting-Yu Wu)、陳德偉(Te-Wei Chen)、魏倫瑋(Lun-Wei Wei)、楊哲銘(Che-Ming Yang)、曾佳漢(Chia-Han Tseng)、黃春銘(Chuen-Ming Huang)、簡留玄(Liu-Xuan Jian)、謝有忠(Yu-Chung Hsieh)、林錫宏(Hsi-hung Lin)、盧詩丁(Shih-Ting Lu)、侯進雄(Chin- Shyong Hou)
- 09:15-09:30 **NH1-O-136**
國道邊坡總體檢之回顧、發現與展望
Review, Discoveries, and Prospects of the Comprehensive Inspection of Freeway Slopes
魏佳韻(Chia-Yun Wei)、魏倫瑋(Lun-Wei Wei)、王泰典(Tai-

- Tien Wang)、許志豪(Chih-Hao Hsu)、陳德偉(Te-Wei Chen)、吳庭瑜(Ting-Yu Wu)、柯建仲(Chien-Chung Ke)
- 09:30-09:45 **NH1-O-137**
透過土石流模型研究山區溪流的沉積物供輸變化
Research on the changes in sediment supply and transport in torrents through debris flow model
張育慈(ZHANG, YU-CI)
- 09:45-10:00 **NH1-O-138**
利用PSInSAR技術與整合開源軟體監測慢滑移深層山崩：以荖濃溪新發地區山坡為例 Monitoring Slow-Moving Deep-Seated Landslides Using PSInSAR Techniques with an Integration of Open-Source Software: A Case Study of a Slope from the Laonong River, Southern Taiwan
Abhishek Lakhote、詹瑜璋(Yu-Chang Chan)、呂喬茵(Chiao-Yin Lu)

O1 - 海洋地質與地球物理 Marine Geology and Geophysics andslide and Debris Flow

主持人：張頌平、蘇品如

05月08日(星期三)

A146室

- 08:30-08:45 **O1-O-139**
南沙群島海域海底擴張時期之岩漿作用與地殼構造
Syn-rift magmatism in the continent-ocean transition in the Southwest Sub-Basin of South China Sea
張頌平(Sung-Ping CHANG)、陳冠宏(Kuan-Hong Chen)、謝獻祥(Hsien-Hsiang Hsieh)、Arif Mirza、張日新(Jih-Hsin Chang)、許鶴瀚(Ho-Han Hsu)
- 08:45-09:00 **O1-O-140**
從海底地震儀和多頻道反射震測資料分析澎湖盆地東側沉積層速度構造
Velocity Structure of Sedimentary Layers East of Penghu Basin Analyzed from OBS and MCS Data
黃薇(Huang, Wei)、王天楷(Wang, Tan-Kin)、蘇永祥(Su, Yung-Hsiang)
- 09:00-09:15 **O1-O-141**
由離岸-近岸震測分析新竹苗栗地區沉積層與地殼速度構造
詹御榮(CHAN, Yu-Jung)、戚務正(CHI, Wu-Cheng)、王天楷(WANG, Tan K.)

- 09:15-09:30 **O1-O-142**
離岸風場海域地質特性及地質安全評估
蘇品如(Pin-Ju SU)、陳松春、林依蓉、許鶴瀚、許樹坤、羅聖宗
- 09:30-09:45 **O1-O-143**
臺灣海峽中部沉積構造和斷層構造的震測資料分析
蘇永祥(Su, Yung-Hsiang)、王天楷(Tan-Kin Wang)、魏格(Sebastian Wege)、戚務正(Chi, Wu-Cheng)
- 09:45-10:00 **O1-O-144**
Offshore-onshore experiment along coastal line of Taoyuan, northwestern Taiwan
莫山(Mohsen Rezapour Domyeh)、王天楷(Tan-Kin Wang)、詹御榮(Yu-Jung Chan)、戚務正(Chi, Wu-Cheng)
- 10:00-10:15 **O1-O-145**
withdraw 臺灣北部近岸區斷層構造
陳松春(Song-Chuen Chen)、林依蓉、蘇品如、陳聖元、許鶴瀚、劉家瑄、許樹坤、蔡慶輝、陳豐評、陳麗雯

ST2/ST3-1 - 第四紀地質與考古地質學/恆春半島地質與古生物研究回顧與展望 Quaternary Geology and Archaeogeology/ Geology and Paleontology of the Hengchun West Hengchun Hill: a Review and New Perspectives

主持人：林淑芬、楊子睿

05月08日(星期三)

A155室

- 08:30-08:45 **ST2-O-146**
重建中國廣東沿海潟湖的古氣候變遷
唐子惟(Zih-Wei Tang)、汪良奇(Liang-Chi Wang)、陳惠芬(Huei-Fen Chen)、周祐民(Yu- Min Chou)
- 08:45-09:00 **ST2-O-147**
太魯閣峽谷是更新世氣候變遷下的生物庇護所— 由花粉紀錄中的新仙女木事件說起
A Pleistocene climate-change refugium inferred from the pollen record of Younger Dryas cold event in Taroko Gorge
林淑芬(Shu-Fen Lin)、蔡育廷(Yu-Ting Tsai)、朱有田(Yu-Ten Ju)、陳添財(Tien-Tsai Chen)、胡植慶(Jyr-Ching Hu)
- 09:00-09:15 **ST3-O-148**

- Epipelagic Gastropods From Southern Taiwan
NA(Diana Osipova)、李欣(Hsin Lee)、林千翔(Chien-Hsiang Lin)
09:15-09:30 **ST3-O-149**
更新世晚期臺灣南部恆春西臺地腕足動物及軟體動物化石
殼體化學成份反映之古環境 Late Pleistocene environment
of the west Hengchun Hill, Taiwan inferred from chemical
compositions of fossil brachiopod and mollusk shells
米泓生(Horng-sheng Mii)、黃志遠、林怡美、葉昭松、周伊珊
- 09:30-09:45 **ST3-O-150**
臺灣南部恆春西台地貓鼻頭石灰岩層序地層與沉積環境
Stratigraphy and Sedimentary Environment of the Pleistocene
Maobitou Limestone in the Western Hengchun Tableland, southern
Taiwan
黃巧慈(Q.Chelsea Wong)、徐濤德(J. Bruce H. Shyu)、王士
偉(Shih-Wei Wang)、謝凱旋 (Kai-Shuan Shea)

**S2/S4-1 - 工程地震學/觀測地震學 Engineering Seismology/
Environmental and Ambient Noise Seismology**

主持人：郭俊翔、黃有志

05月08日(星期三)

A159室

- 08:30-08:45 **S2-O-151**
台灣通用岩盤模型建立及應用
Construction of the Taiwan Generic Rock (TWGR) Velocity Profile
and Its Application
郭俊翔(Chun-Hsiang Kuo)、Norman Abrahamson
- 08:45-09:00 **S2-O-152**
Why Did The Pulse-Like Ground-Motions Differ Three Times in
PGV and Tp Within A 3 km Wide Near-Fault Region of The
2023 Mw7.8 Turkiye Earthquake?
Jyun-Yan Huang、Chih-Hsuan Sung、Chun-Hsiang Kuo、Che-
Min Lin
- 09:00-09:15 **S2-O-153**
withdraw Improving Earthquake Early Warning Initial Peak Ground
Motion Magnitude Estimation with Station Corrections: A Case
Study Using The P-Alert Network in Taiwan
黃鼎中(Ting-Chung Huang)
- 09:15-09:30 **S4-O-154**
基於微型服務架構的即時地震資料處理系統

- A microservices-based scalable seismogram processing system for real-time seismology
廖勿渝(Wu-Yu Liao)、李恩瑞(En-Jui Lee)、Florent Aden-Antoniow
- 09:30-09:45 **S4-O-155**
Constraining Seismic Anisotropy Beneath Southern Taiwan: Insights from SKS/SKKS Splitting Analysis with the SALUTE Array
Ramakrushna Reddy、Shu-Huei Hung、SALUTE Team1,2,3,4
- 09:45-10:00 **S4-O-156**
嘉義地區短周期地震網之建置與研究
黃有志(Yu-Chih Huang)、溫士忠、陳達毅、梁文宗、古進上、林哲民
- 10:00-10:15 **S4-O-157**
2023新港地震序列的特徵與力學意義
Characteristics and Mechanical Insight of the 2023 Hsinkung Earthquake Sequence
王維豪(Wang, Wei-Hau)、林怡伸(Lin, Yi-Shen)、黃偉宸(Huang, Wei-Chen)、溫士忠(Wen, Strong)

CR-1 - 亞洲地體構造演化整合研究 Comprehensive Research on Asian Tectonic Evolution

主持人：李皓揚、林建偉

05月08日(星期三)

B119室

- 08:30-08:45 **CR-O-158**
台灣海峽的早新生代基盤是否為外來微陸塊？來自通樑一號井的碎屑鋯石和獨居石之鈾鉛同位素年齡的證據
Is the Pre-Cenozoic basement of Taiwan strait an exotic terrane? : Constraints from detrital zircon and monazite U-Pb ages of Well TL-1 in Penghu Island
林建偉(Lin, Jian-Wei)
- 08:45-09:00 **CR-O-159**
Tracking the progressive stages of alteration in serpentinites – an integrated petro-geochemical study from Andaman Ophiolite, SE Asia
狄霸(Debaditya BANDYOPADHYAY)、飯塚義之(Yoshiyuki IIZUKA)、鍾孫霖(Sun-Lin CHUNG)、李皓揚(Hao-Yang LEE)、岩森光(Hikaru IWAMORI)、王國龍(Kuo-Lung WANG)、彭君能(Kwan-Nang PANG)、Biswajit GHOSH、Arnab DASGUPTA

- 09:00-09:15 **CR-O-160**
馬祖海灘砂碎屑鋯石鈾-鉛定年研究與沉積特徵
Detrital zircon U-Pb geochronology on Matsu beach sands: the depositional signature of small mountainous islands
林郁伶(Yu-Ling Lin)、李通藝(Tung-Yi Lee)、李皓揚(Hao-Yang Lee)、飯塚義之(Yoshiyuki Iizuka)、彭筱君(Xiao-Jun Peng)
- 09:15-09:30 **CR-O-161**
Zircon U-Th-Pb Geochronology using the LA-ICP-MS/MS at National Taiwan Normal University
Zircon U-Th-Pb Geochronology using the LA-ICP-MS/MS at National Taiwan Normal University Sam Uthup(Sam Uthup)、J. Gregory Shellnutt(J. Gregory Shellnutt)
- 09:30-09:45 **CR-O-162**
根據越南象背山變質區之氬氬定年結果對拖曳板塊學說之再檢視
The extrusion tectonism of Indochina reassessed: Constraints from 40 Ar/ 39 Ar geochronology from the Day Nui Con Voi metamorphic massif, Vietnam
葉孟宛(Meng Wan (Mary) Yeh)、Dinh Hue、李通藝(Tung-Yi Lee)、Ryan McAleer
- 09:45-10:00 **CR-O-163**
Middle Permian intraoceanic magmatism recorded in picrite-basalt associations along a Paleo- Tethyan suture, NE Iran
馬努(Manu Prasanth. M. P)、彭君能(Kwan-Nang Pang)
- 10:00-10:15 **CR-O-164**
由碎屑鋯石年代學探討新生代東海到南海大陸邊緣的地塊增生
Cenozoic Terrain Accretion from East China Sea to South China Sea Margins: A Perspective from Detrital Zircon Geochronology
李通藝(Tung-Yi Lee)、林建偉(Jian-Wei Lin)、林郁伶(Yu-Ling Lin)、陳俊祺(Chun-Chi Chen)

H1-2/H3 - 水文與水文地質/地層下陷與水資源管理 Hydrology and Hydrogeology/ Land Subsidence and Water Resources Management

主持人：王士榮、柯建仲

05月08日(星期三)

A124室

- 10:30-10:45 **H1-O-165**
濁水溪沖積扇臺地周緣水文地質架構研析

- Study on the Hydrogeological Framework around the Terrace of the Zhuoshui River Alluvial Fan
林榮潤(Jung Jun Lin)、溫惠鈺、陳耐錦、柯建仲、梁嘉宏、賴慈華、黃智昭
- 10:45-11:00 **H1-O-166**
裂隙岩體受尺度效應影響之水力特性
林佳靜(Jia-Jing, Lin)、郭威廷、陳柏愷、王泰典
- 11:00-11:15 **H3-O-167**
濁水溪沖積扇地下水鹽化調查及初步分析
The Investigation of Groundwater Salinization and Preliminary Work at Choushui River Alluvial Fan
戴東霖(Tung-Lin Tai)、郭芷晴(Chih-Ching Kuo)、劉雅瑄(Sofia Ya-Hsuan Liou)
- 11:15-11:30 **H3-O-168**
抗旱地下水找水潛力圖之建置與應用
梁嘉宏(ChiaHungLiang)、邵屏華、陳家生、林燕初、賴慈華、黃智昭
- 11:30-11:45 **H3-O-169**
利用磁環分層式地層下陷監測井觀測資料解析臺灣濁水溪沖積扇的地層下陷潛勢特性 Unraveling the susceptibility of land subsidence in the Choushui River Alluvial Fan, Taiwan through Observations from the Multi-Layer Compaction Monitoring Wells
Reyhan Azeriansyah、景國恩(Kuo-En Ching)、林政偉、徐國錦、葉昭龍、饒瑞鈞、蔡佩京
- 11:45-12:00 **H3-O-170**
濁水溪沖積扇含水層系統之骨架比儲水係數時空特性研究 Spatiotemporal Variations of the Skeletal Specific Storage in Choushui River Aquifer System, Taiwan
王士榮(Shih-Jung Wang)、阮玉清武(Ngoc Thanh Vu Nguyen)
- 12:00-12:15 **H3-O-171**
Implementation of Distributed Fiber Optic Sensing Based on Brillouin Optical Time Domain Analysis for Land Subsidence Monitoring
Umar Zada(UMAR ZADA)

EM2-2 - 礦物及岩石物理 Mineral and Petro-Physics

主持人：郭思廷、謝文斌

05月08日(星期三)

A128室

- 10:30-10:45 **EM2-O-172**
On the designs of saw-cut sample assemblies of rock triaxial tests
戴廷諺(Ting-Yen Tai)、郭展佑(Zhan-You Kuo)、郭思廷(Szu-Ting Kuo)、郭力維(Li-Wei Kuo)
- 10:45-11:00 **EM2-O-173**
建置雷射加熱技術並結合高壓鑽石砧以模擬地球內部高溫高壓狀態
陳朝志(Chao-chih Chen)
- 11:00-11:15 **EM2-O-174**
實驗室合成鑽石之熱導率與氮雜質含量關係之研究
A study on the correlation between thermal conductivity and nitrogen impurity content in lab grown diamonds
簡祐祥(Yu-Hsiang Chien)、黃慶祥(Tony Huang)、謝文斌(Wen-Pin Hsieh)
- 11:15-11:30 **EM2-O-175**
Links between sediment consolidation and frictional behaviors at seismic slip rate within the frontal thrust region at the Nankai subduction zone
Szu-Ting Kuo、Thi Trinh Nguyen、Li-Wei Kuo、Kohtaro Ujiie
- 11:30-11:45 **EM2-O-176**
Anisotropic thermal conductivity of antigorite along slab subduction impacts seismicity of intermediate-depth earthquakes
謝文斌(Wen-Pin Hsieh)、簡祐祥(Yu-Hsiang Chien)、Enrico Marzotto、曹懿麒(Yi-Chi Tsao)

NH1-2 - 山崩與土石流災害 Landslide and Debris Flow

主持人：吳祚任、楊哲銘

05月08日(星期三)

A136室

- 10:30-10:45 **NH1-O-177**
龜山島崩塌事件之三維數值模擬
Three Dimensional Simulations of Guishan Island Landslide Event
黃逸軒(Yi-Xuan Huang)、吳祚任(Tso-Ren Wu)、黃碧淳(Pi-Chun Huang)、許樹坤(Shu-Kun Hsu)
- 10:45-11:00 **NH1-O-178**
Applications of seismic signal analysis for inferring deep-seated landslide failure mechanisms
張睿明(Jui-Ming Chang)、楊哲銘(Che-Ming Yang)、趙韋安(Wei-An Chao)、黃明萬(Ming-Wan Huang)
- 11:00-11:15 **NH1-O-179**
新穎即時GNSS解算方法建立及崩場地應用案例展示
Novel Approach of Real-Time GNSS Landslide Monitoring and its Application
蕭震洋、林俊廷、溫惠鈺、陳耐錦、柯建仲
- 11:15-11:30 **NH1-O-180**
大滅絕下Claviaster libycus的生存策略及其對局部沖刷抑制的貢獻
Analysis of Claviaster Libycus Survival Mechanisms During Mass Extinction and the Impact of Local Scour Problems
吳祚任(Tso-Ren Wu)、林品潔(Pin-Jie Lin)、林日白(Jih-Pai Lin)、莊美惠(Mei-Hui Chuang)、黃逸軒(Yi-Xuan Huang)、朱家傑(Jia-Jie Chu)

S3 - 環境與噪聲地震學 Environmental and Ambient Noise Seismology

主持人：柯彥廷、陳映年

05月08日(星期三)

A146室

- 10:30-10:45 **S3-O-181**
從 ILAN2014 計畫收集的不對稱雜訊-PCC 資料推斷宜蘭平原的 3D 速度構造和地熱異常 3D Velocity Structure and Geothermal Anomalies Inferred From Asymmetrical Noise-PCC Dataset Collected in ILAN2014 Project
陳浩維(How-Wei Chen)、費安達(Fanda Fitrianditha)

- 10:45-11:00 **S3-O-182**
Can ocean bottom seismometer track the footprints of typhoons? A study of two consecutive super typhoons crossing the northern Ryukyu
Lalit Arya(Lalit Arya) 、 Shu-Huei Hung 、 Ban-Yuan Kuo
- 11:00-11:15 **S3-O-183**
全臺即時環境噪聲監測系統
Taiwan Real-time Ambient Noise System (TRANS)
黃勁堯(Chin-Yao Huang) 、 黃信樺(Hsin-Hua Huang)
- 11:15-11:30 **S3-O-184**
Validation of seismic bedload saltation model: From laboratory flume to field-scale experiments
vvn Wei-An Chao 、 Chi-Yao Hung 、 Yu-Shiu Chen
- 11:30-11:45 **S3-O-185**
利用環境噪聲干涉技術擷取之經驗格林函數增強海嘯波預測
Enhancing Tsunami Wave Predictions with Ambient Noise Interferometry-derived Empirical Green's Function
柯彥廷(Justin Ko) 、 何昆錡(Kun-Chi Ho) 、 黃信樺(Hsin-Hua Huang) 、 李憲宗(Shiann-Jong Lee)
- 11:45-12:00 **S3-O-186**
從散射噪音中提取實驗格林函數應用於被動監控海洋動態
Applications in the Passive Monitoring of Ocean Dynamics through the Extraction of Empirical Green's Function from Diffuse Noise
譚子偉(Tan, Tsu Wei) 、 Oleg A. Godin
- 12:00-12:15 **S3-O-187**
On the robust relative travelttime measurement of noise-based surface waves across asynchronous networks - application to dense arrays in Taiwan
陳映年(Chen Ying-Nien) 、 廖峻甫(Chun-FU Liao)
- 12:15-12:30 **S3-O-188**
On Topographic Effect of Surface Wave Tomography: A Case Study in the Ilan area, Northeastern Taiwan
蘇柏立(Su, Po-Li) 、 嚴宏宇(Yen, Hung-Yu) 、 黃信樺(Huang, Hsin-Hua)

ST3-2 - 恆春半島地質與古生物研究回顧與展望 Geology and Paleontology of the Hengchun West Hengchun Hill: a Review and New Perspectives

主持人：王士偉、楊子睿

05月08日(星期三)

A155室

- 10:30-10:45 **ST3-O-189**
墾丁石灰岩洞穴之麂角化石研究
傅馨瑩(Fu, Hsin Ying)、林宜靜、張鈞翔
- 10:45-11:00 **ST3-O-190**
恆春西臺地北段HC-5和HC-8鑽井岩心微體化石生物地層研究
Study on the microfossil biostratigraphy of HC-5 and HC-8 boreholes in the northern section of West Hengchun Hill
謝凱旋(Shea, Kai-Shuan)、王士偉(Wang, Shih-Wei)
- 11:00-11:15 **ST3-O-191**
Paleoenvironment of the Szekou Formation in West Hengchun Hill: chronostratigraphic constraints from a literature review
陳宗岱(Zong-Dai Chen)、楊子睿(Tzu-Ruei Yang)、施路易(Ludvig Löwemark)
- 11:15-11:30 **ST3-O-192**
墾丁石灰岩洞穴之鼬獾化石研究
Ferret-badger fossils from Kenting limestone cave
紀子勤(Chi, Tzu-chin)、楊子睿(Yang, Tzu-Ruei)、張鈞翔(Chang, Chun-Hsiang)
- 11:30-11:45 **ST3-O-193**
晚更新世的恆春：鯨豚生活與擱淺的熱點？
A possible prehistoric beaching site for whales and dolphins in southern Taiwan
楊子睿(Tzu-Ruei Yang)、Anneke H. van Heteren、姚秋如(Chiou-Ju Yao)
- 11:45-12:00 **ST3-O-194**
恆春西台地頭溝地區四溝層鈣質超微化石生物地層年代再探
莊智凱(CHIH-KAI CHUANG)、楊子睿、魏國彥、李孟陽

S2/S4-1 - 觀測地震學 Environmental and Ambient Noise Seismology

主持人：李恩瑞、蒲新杰

05月08日(星期三)

A159室

- 10:30-10:45 **S4-O-195**
整合機器學習與等時差法提升地震預警震源之精確性
Integration of Machine Learning and Equal Differential Time
Method for Enhanced Hypocenter Localization in Earthquake Early
Warning Systems
李恩瑞(En-Jui Lee)、練嘉翔(Jia-Xiang Lian)、廖勿渝(Wu-Yu
Liao)、陳達毅(Da-Yi Chen)
- 10:45-11:00 **S4-O-196**
Lithosphere and Asthenosphere Seismic Structure Beneath the
Hawaiian Swell from Rayleigh Wave Dispersion
陳凱勳(Kai-Xun Chen)、Donald W. Forsyth
- 11:00-11:15 **S4-O-197**
利用SeisComP建置新一代地震測報系統
Building a New Earthquake Monitoring System by SeisComP
宋冠毅(Guan-Yi, Song)、陳達毅(Da-Yi, Chen)、吳逸民(Yih-
Min, Wu)、張毓軒(Yu-Hsuan, Chang)
- 11:15-11:30 **S4-O-198**
Insights into the Crustal Structures of Southern Taiwan: A Study
of Seismic Attenuation Tomography using Amphibious
SALUTE Array
林侑頻(Yu-Pin Lin)、洪淑蕙(Shu-Huei Hung)、Scientific Team
of Southern Array for the Lithosphere and Uplift of Taiwan
Experiment
- 11:30-11:45 **S4-O-199**
大屯火山地震b值的時空間變化
Spatial and temporal Variations of seismic b-value at the Tatun
Volcano Group, Northern Taiwan
蒲新杰(Hsin-Chieh Pu)、林正洪(Cheng-Horng Lin)、賴雅娟(Ya-
Chuan Lai)、史旻弘(Min- Hung Shih)、李曉芬(Hsiao-Fen Lee)
- 11:45-12:00 **S4-O-200**
索羅門區域雙隱沒帶的應力分析
Stress fields in the double subduction systems of the Solomon
region
楊欣穎(Hsin-Ying Yang)

12:00-12:15 **S4-O-201**
withdraw Revisiting the Initial Peak P-wave Displacement and the Ground
Motion Characteristic Period with Signal-to-noise Ratios: A
Case Study Using a Low-Cost Sensor Network in Taiwan
黃鼎中(Ting-Chung Huang)

**CR-2 - 亞洲地體構造演化整合研究 Comprehensive Research on Asian
Tectonic Evolution**

主持人：王國龍、謝奈特

05月08日(星期三)

B119室

10:30-10:45 **CR-O-202 [Invited talk]**
Photochemical mechanism to create strong ¹³C-depletion in CO
and carbon cycling in early Mar
Yuichiro Ueno、Johan A. Schmidt、Matthew S. Johnson、
Xiaofeng Zang、Alexis Gilbert、Hiroyuki Kurokawa、Tomohiro
Usui、Shohei Aoki

10:45-11:00 **CR-O-203 [Invited talk]**
Hf and W partitioning between liquid metal and silicate melt
calculated by first principle thermodynamic integration of
molecular dynamics and the evolution of ¹⁸²W isotope of the earth
Katsuhiko Suzuki、Taku Tsuchiya

11:00-11:15 **CR-O-204 [Invited talk]**
Zircon U-Pb age of metamorphosed welded tuff and Younger
Hida granites in the Noto Peninsula, central Japan: Implications
on regional Jurassic continental arc magmatism along the eastern
margin of the Asian.
Mayuko Fukuyama、Masatsugu Ogasawara

11:15-11:30 **CR-O-205**
Archean lithospheric mantle beneath Proterozoic Central Asia
Orogenic Belt
王國龍(Kuo-Lung Wang)、Suzanne Y. O'Reilly、Victor P.
Kovach、Sergei Dril、Mikhail I. Kuzmin、V. Yarmolyuk、V.
Prikhodko、Yoshiyuki Iizuka、William L. Griffin、Norman J.
Pearson

11:30-11:45 **CR-O-206**
三疊紀中期越南中部崑崙地塊中長英質岩漿活動的地球化學分
析
Geochemistry of the middle Triassic felsic magmatism from Kon

Tum massif, Central Vietnam

PHAM THI CHI、J.Gregory Shellnutt、Hao-Yang, Lee、The Anh, Bui

11:45-12:00

CR-O-207

The Saharan Metacraton or Central Saharan Shield?: wither the continental crust of North-Central Africa

謝奈特(J. Gregory Shellnutt)、葉孟宛(Mary Yeh)、李通藝(Tung-Yi Lee)

S1 - 一般地震學研究 General Seismology

主持人：甘禮有、謝銘哲

05月08日(星期三)

A128室

13:45-14:00

S1-O-208

Response of seismic sources in the reduced micropolar medium
阿提夫(Mohammad Atif)

14:00-14:15

S1-O-209

群集地震法·場址效應·Vs30·與東北日本之地質

Cluster-event method 2, site effects, Vs30, and the geology of the Tohoku region, Japan

郭本垣(Ban-Yuan Kuo)、簡珮如(Pei-Ru Jian)

14:15-14:30

S1-O-210

Lithospheric Seismic Imaging of Taiwan by Teleseismic Full
Waveform Inversion

甘禮有(Li-Yu Kan)、郭陳濤(Hao Kuo-Chen)、Sebastien
Chevrot、林正洪(Cheng-Horng Lin)、Vadim Monteiller

14:30-14:45

S1-O-211

應用傳染型餘震序列和地震動模型技術實現即時地震活動與特
定場址震度預報

Toward Real-time Earthquake Occurrence and Site-Specific
Ground-Shaking Intensity Forecasting Using ETAS and GMM
Techniques

謝銘哲(Hsieh, Ming-Che)、詹忠翰(Chan, Chung-Han)、馬國鳳
(Ma, Kuo-Fong)

14:45-15:00

S1-O-212

Joint inversion of seafloor compliance and Rayleigh wave
ellipticity for the lithosphere structure in the southwest Okinawa
Trough

彭振謙(Cheng-Chien Peng)、郭本垣(Ban-Yuan Kuo)

- 15:00-15:15 **S1-O-213**
大陸青海地區中、大規模走向滑移地震之斷層參數研究
Study on the Fault Parameters for the Moderate-to-Large Strike-Slip Earthquakes in Qinghai, China
邱亦璿(I Hsuan Chiu)、郭書育、黃瑞德、林瓊瑤、林采儀

GM - 地形學、地質景觀及地質公園 Geomorphology, Geological Landscape and Geopark

主持人：謝有忠、謝孟龍

05月08日(星期三)

A136室

- 13:45-14:00 **GM-O-214**
澎湖活龍灘沙洲地形的時空動態變化 – 2020~2024短時距監測
Spatio-Temporal Morphodynamics of Huolongtan Sandbar ,
Penghu island - Using Short-term Monitoring from 2020 to 2024.
方晴(Ching Fang)、呂政豪、游能悌
- 14:00-14:15 **GM-O-215**
台灣山脈的隆升與侵蝕: 來自山椒魚的啟發
Rapid tectonic uplift but slow erosion of Taiwan's high mountains
helps relic Hynobius survive
謝孟龍(Meng-Long Hsieh)、朱有田
- 14:15-14:30 **GM-O-216**
土砂災害地形製圖之探討
沈淑敏、王聖鐸、林司秦、游牧笛、張志新、林聖琪
- 14:30-14:45 **GM-O-217**
以數值地形資料判釋台灣巨木棲地分布之地形特性與地質環境
Recognition of Geomorphological Characteristics and Geological
Environment of Giant Tree Habitat Distribution in Taiwan through
Digital Terrain Data
謝有忠(Yu-Chung Hsieh)、孫武群(Wu-Cyun Sun)、徐嘉君
(Rebecca Chia-Chun Hsu)、王驥魁(Chi-Kuei Wang)
- 14:45-15:00 **GM-O-218**
地球系統服務概念應用於礦業資產保存：以九份及金瓜石礦山
為例
Integrating the Concept of Geosystem Service into Mining Heritage
Conservation: Take the Chiufen and Chinkuashih Mines as the
Example
黃家俊(Huang, Chia-Chun)

- 15:00-15:15 **GM-O-219**
以自然紀念物推動地質遺跡保育的機會與挑戰-以臺東八仙洞為例
The chance and challenges of geological heritage conservation by nominating Natural Monument -the case study of Baxian cave, Taitung
紀權育(Chuanyao Chi)

GC1/GC2 - 全球變遷/重力觀測與海平面變化 Global Change/ Gravity and Sea Level Change

主持人：胡訓銘、Ludvig Löwemark

05月08日(星期三)

A146室

- 13:45-14:00 **GC1-O-220**
冰期終止期海平面上升速率可能受控北大西洋融冰特徵
Sustained Atlantic meltwater drives high sea-level rise rate during ice age terminations
胡訓銘(Hsun-Ming Hu)、Gianluca Marino、María Fernanda Sánchez Goñi、Carlos Pérez- Mejías、沈川洲(Chuan-Chou Shen)
- 14:00-14:15 **GC1-O-221**
withdraw
二氧化碳生物礦化過程的微生物群落動態分析：探索實現2050年淨零碳排的生物負碳法
Microbial community dynamics in carbon dioxide biomineralization: A Bio-based carbon negative approach for achieving Net Zero-2050
許昺慕(Bing Mu-Hsu)、林光(Suprokash Koner)、胡艾西(Ashiq Hussain)
- 14:15-14:30 **GC1-O-222**
基於臺灣海峽泥質區岩心重建東亞近千年極端氣候變化
Reconstructing Extreme Climate Variability in East Asia over the Past Millennia Based on Cores from the Taiwan Strait
李家德(Jia-De Lee)
- 14:30-14:45 **GC1-O-223**
以中國吉林泥炭岩心重建14Kyrns以來的古氣候和環境突發事件
Climate and environmental changes over the past 14 Kyrns reflected by the peat cores from Hani and Jinchuan peatlands, Jilin, China
李紅春(Li HongChun)、周春燕(Chun-Yen Chou)、沈姿岑(Tzu-Tsen Shen)、徐中敏(Dora Hsu)
- 14:45-15:00 **GC2-O-224**
The tilting of Eemian sea notches in Phang Nga Bay, peninsular

Thailand, reveal tectonic movements over the past 100.000 years
Ludvig(Löwemark) 、 Björn Gunnarson 、 Hong-Chun Li 、
Akkaneewut Jirapinyakul 、 Sakonvan Chawchai

NH2/NH3 - 地震災害/一般地質災害 Seismic Hazard/ General Geologic Hazard

主持人：張國楨、高嘉謙

05月08日(星期三)

A155室

- | | |
|-------------------------|--|
| 13:45-14:00 | NH2-O-225 台灣地區地動預估式的權重訂定 The weight determination of ground motion prediction equation in Taiwan 高嘉謙(Jia-Cian Gao)、詹忠翰(Chung-Han Chan)、馬國鳳(Kuo-Fong Ma) |
| 14:00-14:15 withdraw | NH2-O-226 印尼蘇門答臘地震危害分析 Probabilistic Seismic Hazard Assessment of Sumatra, Indonesia 詹忠翰(Chung-Han Chan) |
| 14:15-14:30 | NH2-O-227 2022年9月台灣東部地震活動斷層形態構造行為 及地震變形分析 Analysis of active fault morphotectonic behavior and seismic deformation during the September 2022 earthquakes in eastern Taiwan 許峻瑒(Jun-Yang XU)、張國楨(Kuo-Jen CHANG) |
| 14:30-14:45 | NH3-O-228 流域集水區山崩與河道土砂生產、運移與災防應用特徵分析 Assessment of landslide, Sediment Production and Disaster Prevention in mountainous watersheds in Taiwan 許永濉(HSU YUNG WEI)、張國楨(Kuo-Jen CHANG) |
| 14:45-15:00 | NH3-O-229 減重力法於內波模擬之分析 Internal Waves Simulation by Using the Reduced Gravity Method 宋國協(Quoc Hiep, Tong)、吳祚任(Tso-Ren, Wu) |
| 15:00-15:15 | NH3-O-230 風影響下近岸地區沖落斷路器的數值研究 A numerical study of plunging breakers in the nearshore area under the influence of wind |

張明南(Nhat-Minh Truong)、吳祚任(Tso-Ren Wu)、朱佳仁
(Chia-Ren Chu)、王仲宇(**Chung-Ye Wang**)

B- 生物地球科學 Biogeosciences

主持人：許昺慕、梁碧清

05月08日(星期三)

A159室

- 13:45-14:00 **B-O-231**
比較微生物岩的總體基因體學及代謝分析為台灣現生疊層岩與凝塊岩形成過程中的分化提供見解
Comparative metagenomic and metabolic profiling of microbialites provides insight into the differentiation of stromatolite and thrombolite during formation in Kenting, Taiwan
吳佩樺(Wu Pei Hua)、Biqing Liang、Chia-Chun Chiu、Jer-Horng Wu、Wei-Sheng Wu
- 14:00-14:15 **B-O-232**
高屏河系代謝作用之空間差異
Spatial variation of stream metabolism in the Kaoping River system
何語浩(YUHAO HO)、Pei-Ling Wang、Li-Hung Lin
- 14:15-14:30 **B-O-233**
土壤鐵錳結核：以微生物視角探索營養物質循環和重金屬封存之礦化作用
A comprehensive study to insight molecular biomineralization of ferromanganese nodules formation as well as its contribution on heavy metals immobilization and nutrient cycling in soil
許昺慕(Bing Mu-Hsu)、中正大學(Danish Ali)、林光(Suprokash Koner)、胡艾西(Ashiq Hussain)、艾莎莉(Aslia Asif)
- 14:30-14:45 **B-O-234**
泥火山微生物組之生物降解潛力探索—應用於含氯有機化合物污染的土壤及地下水之生物復育
Deciphering the biodegradation potentiality of terrestrial mud volcanoes microbiome for enhanced bioremediation of soil and groundwater ecosystems contaminated with chlorinated volatile organic compounds
胡司憲(Bashir Hussain)、海歡(Hania Hassan)、許昺慕(Bing-Mu Hsu)、艾莎莉(Aslia Asif)
- 14:45-15:00 **B-O-235**
withdraw 蛇紋岩土壤區域之現地植物根部微生物組所驅動的重金屬和養分適應挑戰

Plant Root-Associated Microbiome-Driven Responses to Heavy Metals and Nutrients Enable Ecological Adaptation of Native Plant Species in Edaphic Serpentine Challenges

艾莎莉(Aslia Asif)、許昺慕(Bing-Mu Hsu)、胡司憲(Bashir Hussain)、林光(Suprokash Koner)

M1- 0403花蓮地震特別議程/國科會自然處地球科學學門說明會

主持人：張中白、許雅儒

05月08日(星期三)

A124室

- 13:45-13:55 國科會自然處地球科學學門說明會
- 13:55-14:07 **M1-O-236**
0403 MW7.4 花蓮地震序列與地震定位問題
郭陳濤、孫維芳、顏君毅、劉耀宏、潘勝彥、管卓康、甘禮有、古進上、林哲民、黃俊銘
- 14:07-14:19 **M1-O-237**
Unraveling the rupture source of the 2024 M7.2 Hualien earthquake using geodetic data
Ya-Ju Hsu, Hsin Tung, Yunung Nina Lin, Yu Wang, Horng-Yue Chen, Chi-Hsien Tang
- 14:19-14:31 **M1-O-238**
2024年花蓮地震後的海岸抬升與波浪事件初步調查
王昱、段祥、黃宗鏜、吳昇翰
- 14:31-14:43 **M1-O-239**
A conjugated structure discloses interaction between two fault systems in eastern Taiwan during 2022 Guangfu earthquake
Chih-Heng Lu, Yi-Chun Hsu, Chung-Pai Chang, and Yue-Gau Chen
- 14:43-14:55 **M1-O-240**
Rethinking researches on seismic hazard mitigation after the 2024 Hualien, Taiwan, earthquake sequence
Chung-Han Chan
- 14:55-15:07 **M1-O-241**
2024年4月3日地震前後礁溪溫泉監測井水位變化
江協堂、莊雅惠
- 15:07-15:19 **M1-O-242**
2024 ML 7.2 地震前後一個月的全台灣地震活動分析：基於機器學習地震目錄的觀察
廖勿渝、李恩瑞、景國恩、蕭詩涵、陳奕凱、陳達毅、饒瑞鈞
- 15:19-15:31 **M1-O-243**
0403花蓮地震之海嘯訊號解析與模擬分析
吳祚任、曾歆倚、林君蔚、楊博元

- 15:31-15:43 **M1-O-244**
Seismo-tectonic structures of Eastern Taiwan: insights from
numerical thermo-mechanical models of arc-continent collision
Eh Tan 、 Yuan-His Lee 、 Chih-Hsin Chen 、 Hsin-Hua Huang
- 15:43-16:03 國科會自然處地球科學門說明會