

**Program of the
SESS-ERI Joint Workshop on Solid-Earth Geophysics
“Earth Structure and Environment”**

Date: 24-29 September, 2023

Main Venue: Lakeview Hall, 2F, Building No.1, Zhongguanyuan Global Village 中关村新园 1 号楼二层观湖厅

Sunday, Sept.24: Arrival. Welcome to Beijing!

Volunteers pick up ERI visitors at airport and transport to Zhongguanyuan Global Village PKU (北京大学中关村新园) by PKU Shuttle Bus or Taxi. Hotel check-in.

Friday, Sept.29: Departure. See you next time in Tokyo!

Take PKU Shuttle Bus or Metro to airport.

Monday morning, Sept. 25: Crust and Upper Mantle Structure

Chair: Dr. NING Jieyuan 宁杰远

08:40	Reception desk opens	
09:00-09:45	Dr. IWAMORI Hikaru 岩森 光 ERI, Univ. of Tokyo	Probing thermal and fluid conditions beneath the Japan arcs by magmas
09:45-10:15	Group Photo & Poster Session (Tea Time)	
10:15-11:00	Dr. YU Chunquan 俞春泉 SUSTech 南方科技大学	Seismic evidence for global basalt accumulation in the mantle transition zone
11:00-11:45	Dr. MA Jincheng 马锦程 SESS, PKU	Seismic full-waveform inversion of the crust-mantle structure beneath China and adjacent regions
Lunch at Time Western Restaurant, 2F, Building No.2 Zhongguanyuan Global Village PKU (中关村新园 2 号楼 2 层 时光西餐厅)		

Monday afternoon, Sept. 25: AI Applications in Geophysics

Chair: Dr. IWAMORI Hikaru 岩森 光

14:00-14:45	Dr. ZHAO Zeyu 赵泽宇 SESS, PKU	Seismic data processing and inversion by artificial intelligence
14:45-15:10	Mr. WANG Feiyi 王非翊 SESS, PKU	Lithospheric structure in East Asia from surface wave tomography based on deep learning
15:10-15:40	Poster Session (Tea Time)	
15:40-16:25	Dr. JIANG Yiran 蒋一然 Harbin Inst. Tech. 哈尔滨工业大学	Deep learning-based seismic surface wave signal processing and its application in the North China craton
16:25-17:10	Dr. WANG Yuchen 王宇晨 JAMSTEC 日本海洋研究开发机构	Coastal tsunami prediction in Tohoku region, Japan, using S-net observations based on artificial neural network
18:00	Dinner at Hua's Restaurant (Man-Han Feast Room), No.28 QINGHUA XILU 清华西路 28 号, 花家怡园 (满汉全席包间)	

Tuesday morning, Sept.26: Geodesy and Earthquakes

Chair: Dr. HUANG Qinghua 黄清华

09:00-09:45	Dr. KINOSHITA Masataka 木下 正高 ERI, Univ. of Tokyo	Subducting seamounts can control the coupling of seismogenic faults
09:45-10:15	Poster Session (Tea Time)	
10:15-11:00	Dr. AOKI Yosuke 青木 陽介 ERI, Univ. of Tokyo	Detecting transient displacements with kinematic GNSS processing
11:00-11:45	Dr. WANG Teng 王腾 SESS, PKU	Radar Imaging Geodesy: Mapping the surface deformation from space
Lunch at Time Western Restaurant, 2F, Building No.2 Zhongguanyuan Global Village PKU (中关村新园 2 号楼 2 层 时光西餐厅)		
Tuesday afternoon, Sept.26: The Summer Palace Tour (departing 14:00 from lobby)		

Wednesday morning, Sept.27: Geodesy and Earthquakes

Chair: Dr. KINOSHITA Masataka 木下 正高

09:00-09:45	Dr. HIMEMATSU Yuji 姬松 裕志 ERI, Univ. of Tokyo	Local-scale ground deformation at volcanoes in Japan detected by satellite SAR
09:45-10:15	Poster Session (Tea Time)	
10:15-10:40	Mr. XU Lang 徐浪 ERI, Univ. of Tokyo	Heterogeneous coupling, aseismic slip, and seismic potential along the Xianshuihe fault from Sentinel-1 InSAR velocities, 2014–2022
10:40-11:05	Mr. LI Zhen 李震 SESS, PKU	Time-dependent response of lithosphere to earthquakes inferred from geodetic data: cases on 2021 Mw7.2 Haiti earthquake and 2021 Mw7.4 Maduo earthquake
11:05-11:30	Mr. ZHAO Zeyan 赵泽严 SESS, PKU	Pore pressure diffusion makes different non-monotonic modulation for ordinary earthquakes and low-frequency earthquakes over a large range of periods
Lunch at Time Western Restaurant, 2F, Building No.2 Zhongguanyuan Global Village PKU (中关村新园 2 号楼 2 层 时光西餐厅)		

Wednesday afternoon, Sept.27: Geodesy and Earthquakes

Chair: Dr. ZHAO Li 赵里

14:00-14:45	Dr. YUE Han 岳汉 SESS, PKU	Resolving rupture processes of big earthquakes: a perspective from imaging, inversion and modeling techniques
14:45-15:15	Poster Session (Tea Time)	
15:15-15:40	Mr. WANG Zexin 王泽鑫 SESS, PKU	Super-shear dynamic triggering and cascading fault rupture for the 2023 Turkey Mw7.8 earthquake from joint inversion and detailed near-field strong-motion waveform analysis
15:40-16:30	General Discussion and Contract Signing	
18:00	Dinner at Yanchunyuan Chinese Restaurant, The Lakeview Hotel (VIP Room 11) 北大博雅国际酒店燕春园中餐厅 (11 号包间 观柳厅)	

Thursday, Sept.28: Field Trip to Hu Yu (虎峪)

8:00	Gather in hotel lobby (Building No.1, Zhongguanyuan Global Village PKU). Board PKU Shuttle Bus to Hu Yu. 在会议酒店（中关村新园 1 号楼）一层大厅集合，一起乘坐北大校车去虎峪。
9:00	Arrive in Hu Yu, Field trip starts. 到达虎峪，开始野外考察。
12:00	Depart Hu Yu by PKU Shuttle Bus. 乘坐北大校车离开虎峪。
12:30	Lunch at Auspicious Business Hotel Restaurant. 在大宅门迎祥酒店餐厅午餐。
14:00	Return by PKU Shuttle Bus. 返程。
15:00	Arrive in Zhongguanyuan Global Village PKU. Field trip ends. 到达中关村新园，野外考察结束。