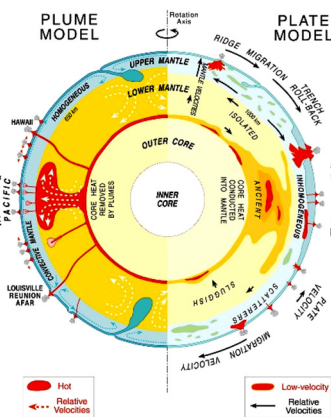


INVITATION

The controversy concerning plume or non-plume origins for continental and oceanic basalts, and implications for mantle dynamics, is still ongoing a decade after resurgence of the debate. This workshop will bring together scientists to address questions that include: (1) What is the definition of a plume? (2) How can the plume- and plate hypotheses be tested and falsified? (3) Do our research approaches hamper progress? (4) Are current models for “hot spots” consistent with cross-disciplinary results?

Join us in the spring at the beautiful river city of Wuhan, Central China, to share your opinions and ideas about the most significant debate currently ongoing in Earth science.



Gillian R. Foulger
Co-Convenor



Yigang XU
Co-Convenor



Timothy Kusky
Co-Convenor



Chunan Tang
Co-Convenor

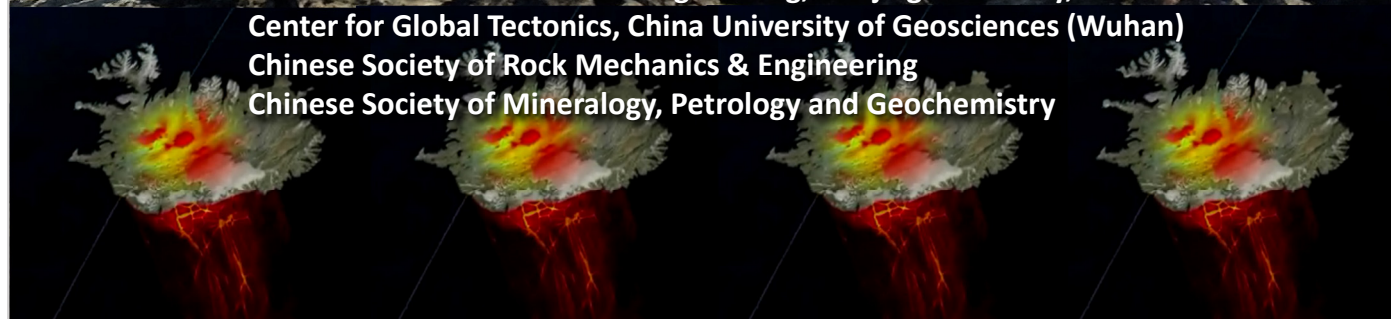
International Workshop: Plate & Plume Theory, Mechanisms & Effects July 8-12, 2019, Wuhan

ORGANIZER

State Key Laboratory of Geological Processes and Mineral Resources,
China University of Geosciences (Wuhan), China
State Key Laboratory of Isotope Geochemistry, Guangzhou Institute of
Geochemistry, CAS, China

CO-ORGANIZERS

College of Earth Sciences, Chengdu University of Technology, China
Institute of Mountain Hazards and Environment, CAS
School of Earth Sciences and Engineering, Nanjing University, China
Center for Global Tectonics, China University of Geosciences (Wuhan)
Chinese Society of Rock Mechanics & Engineering
Chinese Society of Mineralogy, Petrology and Geochemistry



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Zhenmin Jin, China
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LOCAL ORGANING COMMITTEE

Laishi Zhao, Zeming Shi
Chunan Tang, Yongsheng Liu

TIME AND VENUE

Time: July 8-12, 2019
Venue: Wuhan, Hubei, China

KEY DATES

Deadline for abstract submission:
1 April, 2019

SECREARIAT

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Site visit to Emeishan LIP



The Emeishan flood basalt in SW China has been recognized as one of the major mafic LIPs. It was emplaced over a short time with a termination age of 259.1 ± 0.5 Ma, which is very close to the Guadalupian–Lopingian Boundary. Thus, it is possibly synch-

ronous with a number of major global events during the late Paleozoic, such as the double mass extinctions, ocean superanoxia, or sea-level drop.

Over the past decade, multidisciplinary investigations have been conducted in ELIP on its origin. A mantle plume model has been used to explain the physical and chemical features of this LIP, including the eruption of high magnesian lavas and evidence for pre-volcanic crustal domal uplift.

However, most of the seismic evidence for mantle plumes is confined to the modern, active hotspots, whereas the ELIP is related to an ancient thermal activity. Thus, to understand the origin of an ancient LIP, great care must be taken when a real-time geophysical observation on the deep-seated and hence volatile structures is used as a discriminator. (Limited to 20 persons)

