
Title and Venue

International Workshop on *Plates vs Plumes: A Geological Controversy*

60th Anniversary Year of the Faculty of Mines
Istanbul Technical University – The Faculty of Mines
May 10, 2013 Friday, İhsan Ketin Conference Hall
Maslak-34469, Istanbul-Turkey

Invited Speakers

1- **Prof. Gillian R. Foulger**

Department of Earth Sciences, Durham University, Science Laboratories, South Road, Durham DH1 3LE, U.K.
"The Plates vs. Plumes Controversy: An Overview"

2- **Prof. Michele Lustrino**

Dipartimento di Scienze della Terra, Sapienza, Università di Roma, Piazzale Aldo Moro 5, 00185 Roma, Italy.

- "Constraints vs. assumptions in the mantle plume hypothesis"
- "Geochemical silver bullets for mantle plume hypothesis"

3- **Prof. Andreas Fichtner**

ETH Zurich, Institute of Geophysics, Sonneggstr 5, CH-8092 Zurich, Switzerland.

"The Iceland – Jan Mayen plume system and its impact on mantle dynamics in the North Atlantic region: Evidence from full-waveform inversion"

4- **Dr.habil. Jörg Geldmacher**

GEOMAR Helmholtz Zentrum für Ozeanforschung Kiel, Germany

The origin of Shatsky Rise: What we have learned from IODP Exp. 324

5- **Prof. Junzo Kasahara**

Tokyo University of Marine Science and Technology, Shizuoka University and University of Tokyo, Japan

"Moho Discontinuities: Variation of Moho discontinuities suggested by crustal studies in the western Pacific"

Further Reading

- Carminati E., Lustrino M., Doglioni C. (2012). Geodynamic evolution of the Central and Western Mediterranean: tectonics vs. igneous petrology constraints. *Tectonophysics*, doi: 10.1016/j.tecto.2012.01.026.
- Davies, F.G. (1999). *Dynamic Earth: Plates, Plumes and Mantle Convection*, Cambridge University Press, U.K.
- Foulger, G.R. (2010). *Plates vs Plumes: A Geological Controversy*, Wiley-Blackwell, ISBN 978-1-4443-3679-5.
- Foulger, G.R. & D.M. Jurdy (2007) (eds). *Plates, Plumes, and Planetary Processes*, Geol. Soc. Am. Spec. Vol. 430.
- Foulger, G.R., J.H. Natland, D.C. Presnall and D.L. Anderson (2005) (eds). *Plates, Plumes, and Paradigms*, Geol. Soc. Am. Spec. Vol. 388.
- Foulger, G.R. and J.H. Natland (2003). Is "hotspot" volcanism a consequence of plate tectonics? *Science*, 300, 921-922.