

Frank J. Tepley III

Previous Degrees:

B.S. Geology, California State University, Northridge; Ph.D. University of California, Los Angeles.

Classes Taught:

GEO315 Earth Materials II, OC582 Electron Probe Analysis, OC668 Theoretical Petrology, GEO412/512 Igneous Petrology

Research Interests:

- igneous petrology and high-T geochemistry associated with the formation, evolution and timescales of magmatic and volcanic systems.
- production of subduction zone lavas, mid-ocean ridge basalts as well as silicic volcanic systems.

Recent Publications/Presentations:

Rowe, M. C., **Tepley, F.J., III**, (2016) Origin and petrogenetic implications of anomalous olivine from a Cascade forearc basalt. *American Mineralogist* 101, 1807-1819.

Arculus, R. J., and Science Team of IODP Expedition 351 (2015) A record of spontaneous subduction initiation in the Izu-Bonin-Mariana arc. *Nature Geoscience*, doi:10.1038/NGEO2515.



JOIDES Resolution in SW Pacific Ocean