
Magma Generation and Evolution

In honour and memory of Michael J. O'Hara for his life-long contributions to understanding the working of the Earth and other planets by means of petrology and geochemistry

Michael J. O'Hara passed away on November 24, 2014, but his global influence in the field of petrology and geochemistry continues and his scientific legacies are well remembered. Mike started as a field geologist studying the Scourie gneisses in Scotland. As a pioneer, he used experimental petrology to study the phase equilibria and petrogenesis of mantle rocks and rocks derived from the mantle that build the ocean crust. As a NASA Principal Investigator of experimental petrology, Mike studied lunar samples returned from Apollo missions 11-17 and offered insights into the petrogenesis of lunar basalts in particular and Moon rocks in general. Mike quantified elegantly that trace element characteristics in basalts are not simple source signatures, but

also record complex mantle melting, magma differentiation and assimilation processes. Mike's scientific contributions are much more in expanse and depth and it is fair to say that modern igneous petrology and geochemistry would not be the same without Mike's many discoveries, creative efforts and deep insights.

The contributions in this Thematic Issue arose from presentations at the 2015 Goldschmidt conference held in Prague from 16-21 August 2015.

Yaoling Niu, Durham, December 2016

Marjorie Wilson, Leeds, December 2016

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[S] Contains supplementary data available at *Journal of Petrology* online.

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