

Workshop on Water in Planetary Basalts

REVISED PROGRAM

Wednesday, November 14, 2007

WELCOME

8:45 a.m. Berkners

8:45 a.m. Filiberto J. *
Welcome Address and Introduction

WATER IN PLANETARY BASALTS: AMOUNT

9:00 a.m. Berkners

Chairs: J. Filiberto
Q. Li

9:00 a.m. Righter K. * Moore G. M.
Stability of Hornblende and Biotite in Basic Planetary Magmas [#2017]

9:30 a.m. Treiman A. H. * [INVITED]
Volatiles in Melt Inclusions: The Example of Kaersutite Versus Rhönite

10:00 a.m. Saal A. E. * Hauri E. H. LoCascio M. Van Orman J.
Rutherford M. J. Cooper R. F. [INVITED]
The Volatile Contents (CO₂, H₂O, F, S, Cl) of the Lunar Picritic Glasses [#2009]

10:30 a.m. BREAK

11:00 a.m. Peslier A. H.
Water in Anhydrous Minerals of the Upper Mantle: A Review of Data of Natural Samples and Their Significance [#2003]

11:30 a.m. Jones J. H. *
The Edge of Wetness: The Case for Dry Magmatism on Mars, II [#2006]

12:00 p.m. Discussion

12:30 p.m. LUNCH

WATER IN SUBDUCTION ZONES

2:00 p.m. Berkners

Chair: E. H. Hauri

2:00 p.m. Hauri E. H. * Shaw A. M. Saal A. E. [INVITED]
Giant Impacts, Late Veneers, and the Gradual Hydration of the Earth's Mantle by Subduction [#2008]

2:30 p.m. Wallace P. * Johnson E. Manea V. Vigouroux N. Delgado Granados H. [INVITED]
Formation and Ascent of H₂O-rich Mafic Magmas in Subduction Zones [#2014]

3:00 p.m. Draper D. S. *
Effect of Water on Crystallization of Mafic Arc High-Alumina Basalt from the South Sandwich Islands: Still No Liquidus Olivine [#2013]

3:30 p.m. DISCUSSION

4:00 p.m. RECEPTION

Thursday, November 15, 2007
WATER IN THE MANTLE: EFFECTS ON MANTLE MELTING
9:00 a.m. Berkners

Chairs: M. M. Hirschmann
E. Medard

- 9:00 a.m. Dalton H. A. Holloway J. R. Sharp T. G. Hervig R. L.
Investigation of the Effects of H₂O on Melting of a Primitive Martian Mantle Composition [#2012]
- 9:30 a.m. Filiberto J. * Treiman A. H. Kiefer W. S. Li Q.
The Effect of Water on Liquidus Temperatures [#2010]
- 10:00 a.m. Médard E. * Grove T. L.
Water in Basaltic Melts: Effect on Liquidus Temperatures, Olivine-Melt Thermometry and Mantle Melting [#2015]
- 10:30 a.m. BREAK
- 11:00 a.m. Kiefer W. S. * Li Q. Filiberto J. [INVITED]
Parameterizations of Magma Production in a Water-Undersaturated Martian Mantle: A Plea for Improved Experimental Petrology Constraints [#2016]
- 11:30 a.m. Hirschmann M. M. * Aubaud C. Withers T.
Hydrous Partial Melting of the Upper Mantle as Judged from Mineral/Melt Partition Coefficients [#2002]
- 12:00 p.m. LUNCH
- 1:00 p.m. Grove T. L. * Médard E. Till C. B. [INVITED]
The Role of H₂O on Mantle Melting in the Terrestrial Planets [#2007]
- 1:30 p.m. Li Q. * Kiefer W. S.
The Effects of Water on Mantle Convection and Magma Production on Mars [#2011]
- 2:00 p.m. Elkins-Tanton L. T. *
Producing Volatile-rich Magmas Without Plate Tectonics: Upside-Down Melting [#2005]
- 2:30 p.m. DISCUSSION