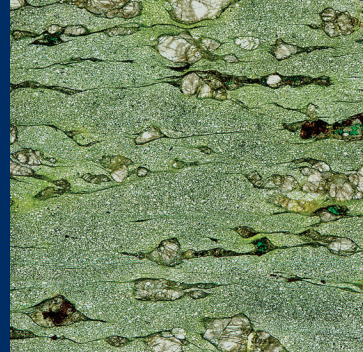


Elements

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Mantle peridotite with fluidal microstructure (sample K152) from Kimberley, South Africa. The field view is 1 cm in width. PERIDOTITE SPECIMEN FROM BERTRAND MOINE AND JESSY DOMINIQUE. PHOTO: SYLVIE DEMOUCHEY.

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The Invisible Ocean: Hydrogen in the Deep Earth

Guest Editors: **Sylvie Demouchy**, **Hélène Bureau**, and **Hans Keppler**



Hydrogen in the Depth Earth

Jed L. Mosenfelder, Hélène Bureau, and Anthony C. Withers



The Subduction of Hydrogen: Deep Water Cycling, Induced Seismicity, and Plate Tectonics

Hans Keppler, Eiji Ohtani, and Xiaozhi Yang



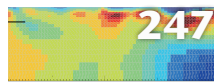
Deep Hydrogen Reservoirs and Longevity

Davide Novella, Sylvie Demouchy, and Nathalie Bolfan-Casanova



Hydrous Melting and its Seismic Signature

Stéphanie Durand, Marija Putak Juriček, and Karen M. Fischer



Probing Deep Hydrogen Using Electrical Conductivity

Takashi Yoshino, Geeth Manthilake, and Anne Pommier



The Geological History of Water: From Earth's Accretion to the Modern Deep Water Cycle

Lars Rüpke and Fabrice Gaillard

DEPARTMENTS

Editorial – Science in the News – Of Hydras and Heads . . .	219
From the Editors	220
Meet the Authors	221
Society News	
Association of Applied Geochemists	259
European Association of Geochemistry	260
Geochemical Society	262
Deutsche Mineralogische Gesellschaft	264
Mineralogical Society of the UK and Ireland	266
Mineralogical Association of Canada	268
Meteoritical Society	270
The Clay Minerals Society	272
International Association on the Genesis of Ore Deposits	273
Japan Association of Mineralogical Sciences	274
Swiss Geological Society	275
Mineralogical Society of America	276
International Association of Geochemistry	277
Société Française de Minéralogie et de Cristallographie	278
Calendar	279
Advertisers in this Issue	279
Parting Shots – When Jules Verne Became a Geologist	280
