

Elements

An International Magazine of Mineralogy, Geochemistry, and Petrology

Volume 1, Number 1 • January 2005

Elements is published jointly by the Mineralogical Society of America, the Mineralogical Society of Great Britain and Ireland, the Mineralogical Association of Canada, the Geochemical Society, and the Clay Minerals Society. It is provided as a benefit to members of these societies.

Elements will be published five times in 2005. Individuals are encouraged to join any one of the participating societies to receive *Elements*.

Institutional subscriptions are available for US\$100 a year. Contact the managing editor for information. 2005 subscribers to any of the following journals – *American Mineralogist*, *The Canadian Mineralogist*, *Clay and Clay Minerals* – will also receive *Elements*, as part of their subscription.

Copyright ©2005 by the Mineralogical Society of America

All rights reserved. Reproduction in any form, including translation to other languages, or by any means – graphic, electronic or mechanical, including photocopying or information storage and retrieval systems – without written permission from the copyright holder is strictly prohibited.

Publications mail agreement no. 40037944

Return copies undeliverable to Canadian addresses to:
PO Box 503
RPO West Beaver Creek
Richmond Hill ON L4B 4R6

Printed in Canada
ISSN 1811-5209

www.elementsmagazine.org



Fluids in Planetary Systems

Robert J. Bodnar, Guest Editor



Ore-Forming Fluids

Stephen E. Kesler



Volatiles in Magmatic-Volcanic Systems

Benedetto De Vivo, Annamaria Lima, and James D. Webster



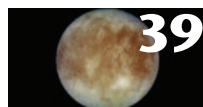
Water in the Mantle

Eiji Ohtani



Fluids, Faulting, and Flow

Harry W. Green II and Haemyeong Jung



Extraterrestrial Water

Michael E. Zolensky

ABOUT THE COVER:
“We all live on this planet which we have mistakenly chosen to call Earth (Anonymous).”

In this view of Earth from the Moon, it is clear that the Earth is indeed a “water planet”. Had early civilizations had such a view, it is likely that they would have selected a name other than “earth” to describe their home. In this inaugural issue of *Elements* the important role that water plays in the evolution of the Earth and planetary systems is summarized in articles by leading scientists in the Earth sciences.

Photo NASA/JPL

Departments

Editorial	3
2005 Preview	5
Triple Point	7
Meet the Authors	38
Review	44
Conference Reports	45
Editors' Pick	45
Society News	46
Mineralogical Society of America	46
Mineralogical Society of Great Britain and Ireland	48
Mineralogical Association of Canada	50
Geochemical Society	52
The Clay Minerals Society	54
International News	56
People in the News	56
Advertisers in this Issue	56
Calendar	Inside cover

