

Elements

An International Magazine of Mineralogy, Geochemistry, and Petrology



Volume 1, Number 5 • December 2005

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

From 2006, *Elements* will be published six times a year. Individuals are encouraged to join any one of the participating societies to receive *Elements*. Institutional subscribers to any of the following journals – *American Mineralogist*, *The Canadian Mineralogist*, *Clays and Clay Minerals*, *Mineralogical Magazine* and *Clay Minerals* – will also receive *Elements* as part of their 2006 subscription. Institutional subscriptions are available for US\$125 a year in 2006. Contact the managing editor (pierrette_tremblay@ete.inrs.ca) for information.

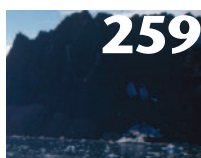
Copyright ©2005 by the Mineralogical Society of America

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

Printed in Canada ISSN 1811-5209 www.elementsmagazine.org



259

Large Igneous Provinces: Origin and Environmental Consequences

Andrew D. Saunders, Guest Editor



265

Large Igneous Provinces and the Mantle Plume Hypothesis

Ian H. Campbell



271

Large Igneous Provinces, Delamination, and Fertile Mantle

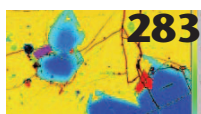
Don L. Anderson



277

Meteorite Impacts as Triggers to Large Igneous Provinces

Adrian P. Jones



283

Gas Fluxes from Flood Basalt Eruptions

Stephen Self, Thorvaldur Thordarson, and Mike Widdowson



289

Oceanic LIPs: The Kiss of Death

Andrew C. Kerr



293

The Link between Large Igneous Provinces and Mass Extinctions

Paul Wignall

Departments

| | |
|--|-----|
| Editorial | 251 |
| From the Editors | 252 |
| 2006 Preview | 253 |
| Letters to the Editors | 255 |
| Triple Point | 257 |
| Meet the Authors | 264 |
| People in the News | 276 |
| Book Review – Atlas of Meteorites | 282 |
| The Editors' Pick | 288 |
| Society News | 298 |
| Publication Forum – GeoScienceWorld | 313 |
| Conference Report – 13 th ICC | 314 |
| Travelogue – Antarctica | 316 |
| Calendar | 317 |
| Parting Shot | 319 |
| Advertisers in this Issue | 320 |

ABOUT THE COVER: Stacks of pahoehoe lava sheet lobes (dark layers) from a large number of flow fields make up the lava pile of the Deccan flood basalt province, seen here in the Western Ghats of central western India where a thickness of more than one kilometre is exposed. PHOTO M. WIDDOWSON

