

# Elements

An International Magazine of Mineralogy, Geochemistry, and Petrology



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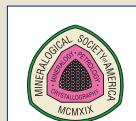
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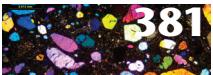


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## Kimberlites

Guest Editors: **Andrea Giuliani** and **D. Graham Pearson**

Aerial view of the Diavik Diamond Mine, Northwest Territories, Canada. PHOTO CREDIT: PAT HEALY, TORONTO, CANADA. (Inset) Image of a Diavik A154 kimberlite displaying a large green chrome diopside. CREDIT: ANETTA BANAS, UNIVERSITY OF ALBERTA, CANADA



### Kimberlites: From Deep Earth to Diamond Mines

Andrea Giuliani and D. Graham Pearson

### What is a Kimberlite? Petrology and Mineralogy of Hypabyssal Kimberlites

Roger H. Mitchell, Andrea Giuliani, and Hugh O'Brien

### Kimberlites as Geochemical Probes of Earth's Mantle

D. Graham Pearson, Jon Woodhead, and Philip E. Janney

### Kimberlites from Source to Surface: Insights from Experiments

Stephen F. Foley, Gregory M. Yaxley, and Bruce A. Kjarsgaard

### Dating Kimberlites: Methods and Emplacement Patterns Through Time

Larry M. Heaman, David Phillips, and D. Graham Pearson

### Kimberlite Volcanology: Transport, Ascent, and Eruption

J. Kelly Russell, R. Stephen J. Sparks, and Janine L. Kavanagh

### Diamond Exploration and Resource Evaluation of Kimberlites

Bruce A. Kjarsgaard, Nicole Januszczak, and Johann Stiefenhofer

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