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# Elements

An International Magazine of Mineralogy, Geochemistry, and Petrology

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## Serpentinities

STÉPHANE GUILLOT and KEIKO HATTORI, Guest Editors

Key Roles from Geodynamics  
to the Origin of Life

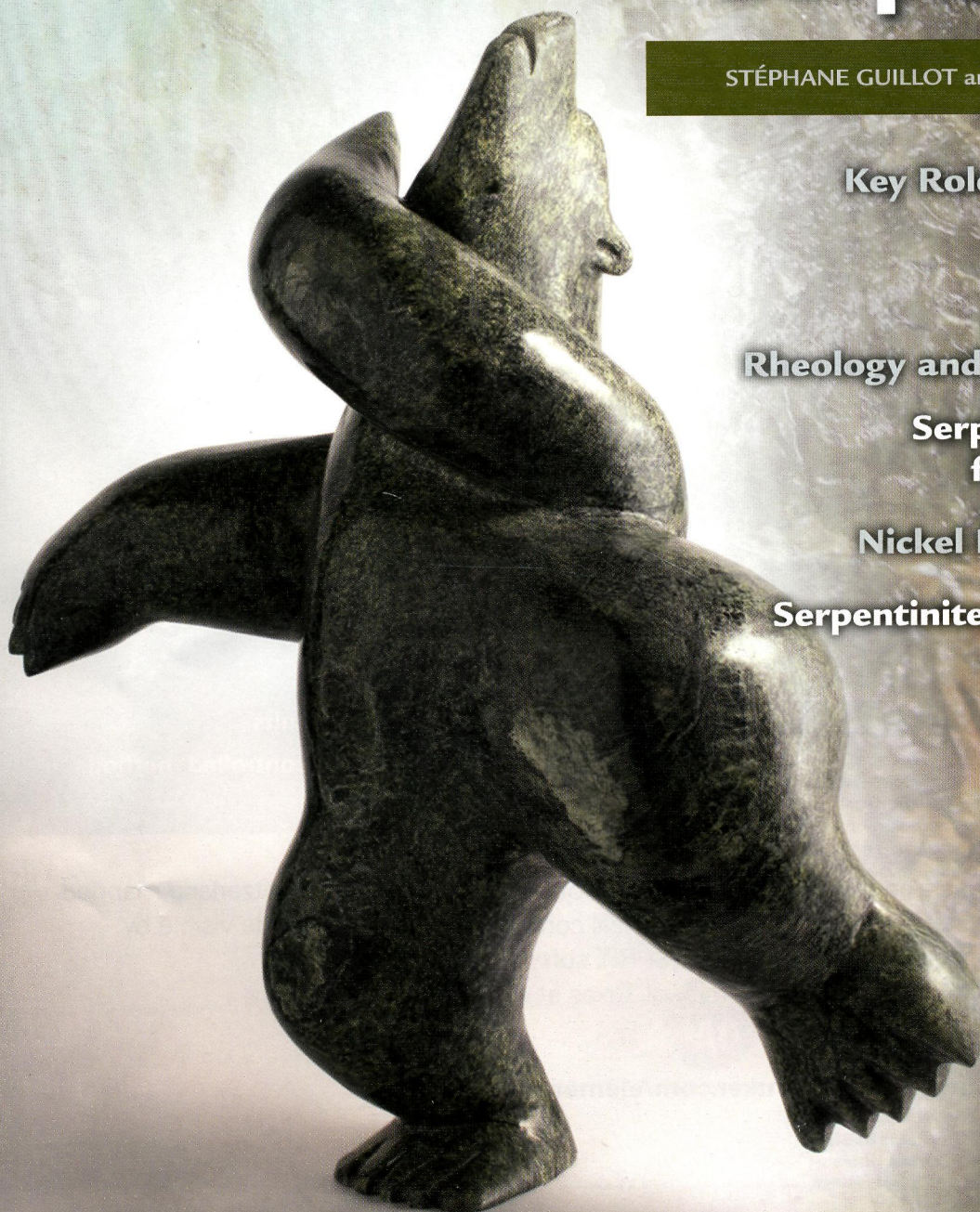
What, Why, Where?

Rheology and Tectonic Significance

Serpentinite Carbonation  
for CO<sub>2</sub> Sequestration

Nickel Laterite Ore Deposits

Serpentinities, Hydrogen, and Life



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## Serpentinites

Guest Editors: **Stéphane Guillot** and **Keiko Hattori**



**Serpentinites: Essential Roles in Geodynamics, Arc Volcanism, Sustainable Development, and the Origin of Life**

Stéphane Guillot and Keiko Hattori



**Serpentinite: What, Why, Where?**

Bernard W. Evans, Keiko Hattori, and Alain Baronnet



**Rheology and Tectonic Significance of Serpentinite**

Greg Hirth and Stéphane Guillot



**Serpentinite Carbonation for CO<sub>2</sub> Sequestration**

Ian M. Power, Siobhan A. Wilson, and Gregory M. Dipple



**Nickel Laterite Ore Deposits: Weathered Serpentinites**

Charles R. M. Butt and Dominique Cluzel



**Serpentinites, Hydrogen, and Life**

Thomas M. McCollom and Jeffrey S. Seewald

ABOUT THE COVER: The Inuit people of northern Canada have traditionally used serpentinite for their carvings.

*Gleeful Bear* (53 × 56 × 20 cm), by Kelly Qimripik of Cape Dorset, Nunavut, Canada, courtesy of the Inuit Gallery of Vancouver ([www.inuit.com](http://www.inuit.com)), reproduced with the permission of Dorset Fine Arts.

BACKGROUND IMAGE: vein of serpentinite surrounded by garnierite from the Koniambo Massif, New Caledonia

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