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Elements

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Garnet

ETHAN F. BAXTER, MARK J. CADDICK, and JAY J. AGUE, Guest Editors

Common Mineral, Uncommonly Useful

Garnet in the Earth's Mantle

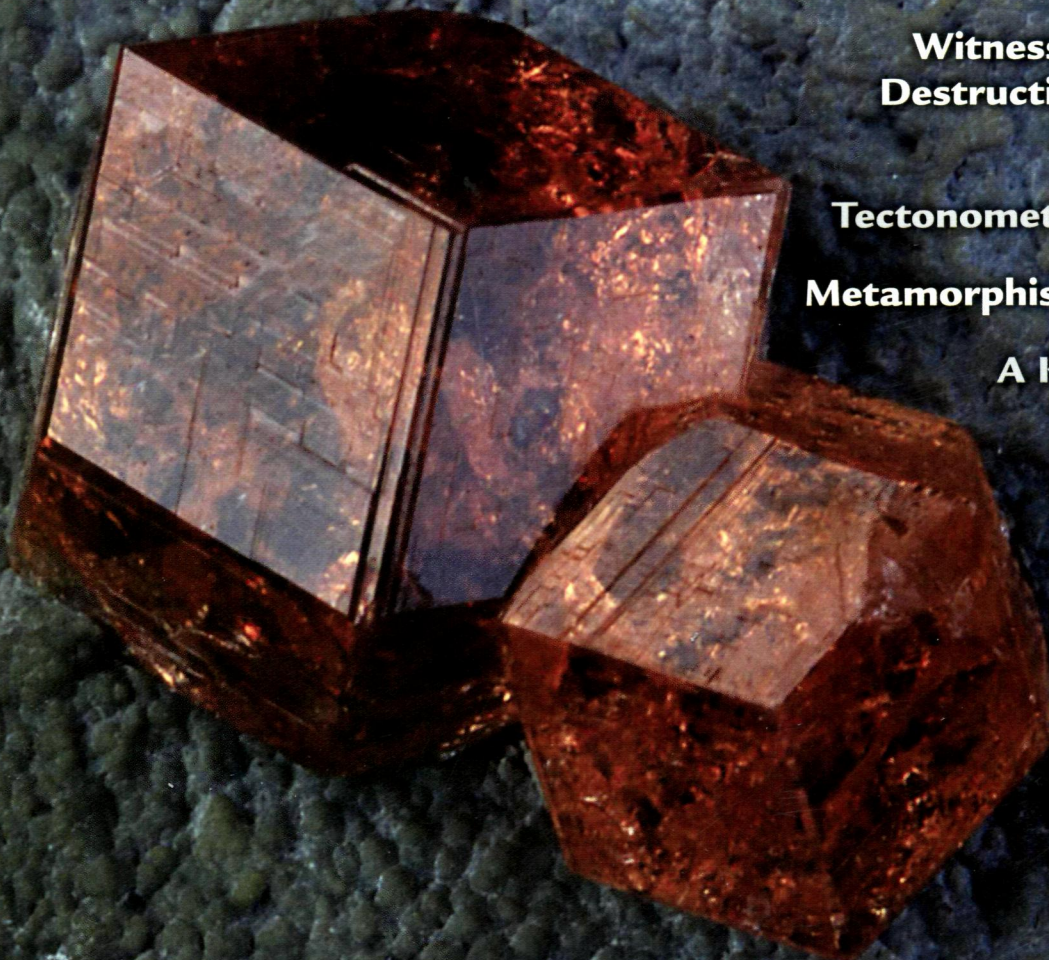
**Witness to the Evolution of
Destructive Plate Boundaries**

**Timekeeper of
Tectonometamorphic Processes**

Metamorphism as Garnet Sees It

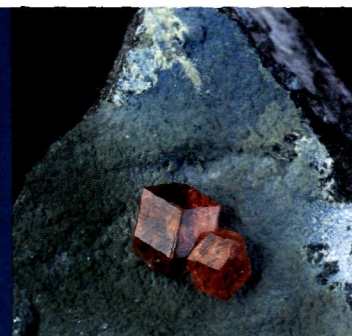
**A Key Phase in Nature,
the Laboratory,
and Technology**

From Stone to Star



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Garnet: Common Mineral, Uncommonly Useful

Guest Editors: **Ethan F. Baxter, Mark J. Caddick, and Jay J. Ague**



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Ethan F. Baxter, Mark J. Caddick, and Jay J. Ague



Garnet in the Earth's Mantle

Bernard J. Wood, Ekaterina S. Kiseeva, and Andrew K. Matzen



Garnet: Witness to the Evolution of Destructive Plate Boundaries

Mark J. Caddick and Matthew J. Kohn



Garnet Geochronology: Timekeeper of Tectonometamorphic Processes

Ethan F. Baxter and Erik E. Scherer



Metamorphism as Garnet Sees It: The Kinetics of Nucleation and Growth, Equilibration, and Diffusional Relaxation

Jay J. Ague and William D. Carlson



Garnet: A Key Phase in Nature, the Laboratory, and Technology

Charles A. Geiger



Garnet: From Stone to Star

Laurence Galois

ABOUT THE COVER: The Jeffrey mine, in Asbestos, Québec, Canada, is world famous for its beautiful crystals of orange, pink, and green grossular.

These transparent, almost complete "cinnamon" garnet crystals, the largest of which measures 16 mm across, display perfect shapes with smooth dodecahedral {110} faces. Their coloration arises from substituted Fe³⁺. FROM THE MINERAL COLLECTION OF UNIVERSITÉ PIERRE ET MARIE CURIE, PARIS; PHOTO COURTESY OF JEAN-PIERRE BOISSEAU

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