copper. Quartz crystal (530 micrometers across) from a peralkaline rhyolite containing several inclusions of silicate melt (now glass). These inclusions were used to study the volatility of copper in magmas. Experimental heating caused the boomerang-shaped inclusion to leak and exsolve vapor bubbles, whereas the large black inclusion at the bottom did not leak. Other intact inclusions contained rare, copper-rich bubbles, which are interpreted as magmatic vapor. See page 1405. [Photograph taken under crossed polars by J. B. Lowenstern]

Reports

1405 Evidence for Extreme Partitioning of Copper into a Magmatic Vapor Phase: J. B. LOWENSTERN, G. A. MAHOD, M. L. RIVERS, S. R. SUTTON
1409 Did the Breakout of Laurentia Turn Gondwanaland Inside-Out?: P. F. HOFFMEN
1412 Conjugated Polymer Films for Gas Separations: M. R. ANDERSON, B. R. MATTES, H. REISS, R. B. KANER
1415 A Room-Temperature Molecular/Organic-Based Magnet: J. M. MANRIQUEZ, G. T. YEE, R. S. MCLEAN, A. J. EPSTEIN, J. S. MILLER
1421 Molecular Beam Scattering from Liquid Surfaces: M. E. SAECKER, S. T. GOVONI, D. V. KOWALSKI, M. E. KING, G. M. NATHANSON
1424 Programmed Cell Death of T Cells Signaled by the T Cell Receptor and the α3 Domain of Class I MHC: S. R. SAMBHARA and R. G. MILLER
1427 CREB: A Ca2+-Regulated Transcription Factor Phosphorylated by Calmodulin-Dependent Kinases: M. SHENG, M. A. THOMPSON, M. E. GREENBERG
1430 Recognition of Self Antigens by Skin-Derived T Cells with Invariant γ8 Antigen Receptors: W. L. HAVRAN, Y.-H. CHIEN, J. P. ALLISON

Book Reviews

1435 Plant-Animal Interactions, reviewed by J. N. THOMPSON ■ The “African” Honey Bee, D. R. SMITH ■ The Dinosauria, M. NORELL ■ Chromosome Banding, G. P. HOLMQUIST ■ Books Received

Products & Materials

1442 Kit Prevents PCR Carry-Over ■ Protein Visualization System ■ Gel Destainer ■ Chromosomal Grade Agarose ■ High Resolution, Recovery, and Speed Columns ■ Microincubation Chamber ■ Vertical Gel Electrophoresis Apparatus ■ Literature