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ABOUT THE COVER:

CLIVE OPPENHEIMER

Sulfur miners earn a living the

hard way in the crater of Ijen

work amidst dense sulfurous

fumaroles and the acid crater

lake. Each miner hauls 70 kg of

native sulfur on each trip. Read

more about this "hell on Earth"

on page 67. Photo courtesy of

clouds emitted by nearby

volcano in Java, Indonesia. Miners

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Sulfur

Guest Editor: Charles W. Mandeville



Sulfur: A Ubiquitous and Useful Tracer in Earth and Planetary **Sciences**

Charles W. Mandeville

Sulfur in Magmas

Nicole Métrich and Charles W. Mandeville



Ultraviolet Sensing of Volcanic Sulfur Emissions

Clive Oppenheimer



Ancient Sulfur Cycling and Oxygenation of the Early Biosphere

Timothy W. Lyons and Benjamin C. Gill



Touring the Biogeochemical Landscape of a Sulfur-Fueled World

David T. Johnston

Sulfur on Mars

Penelope L. King and Scott M. McLennan

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