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**Weathering Across the Earth** Sciences

Guest Editors: Patrick J. Frings and Heather L. Buss

Chemical weathering at millimetre scales, as depicted here by the false colour backscatter electron (BSE) image of a weathering rind, ultimately produces the critical zone and the resources necessary to sustain life within it. Composition and BSE image BY OLIVER MOORE; TREELINE BY WILLIAM WARBY.



The Central Role of Weathering in the Geosciences

Patrick J. Frings and Heather L. Buss



The Goldilocks Planet? How Silicate Weathering Maintains Earth "Just Right"

James F. Kasting



**How Plants Enhance Weathering** and How Weathering is Important to Plants Stephen Porder



**Breaking it Down:** 



Mechanical Processes in the Weathering Engine Suzanne P. Anderson



**Combating Climate Change Through Enhanced Weathering of Agricultural Soils** M. Grace Andrews and Lyla L. Taylor



Palaeoweathering: **How Do Weathering Rates Vary with Climate?** Patrick J. Frings



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## DEPARTMENTS

<b>Editorial</b> – Weathering: Earth's Inexorable Millstone	223
From the Editors	224
Meet the Authors	227
Society News	
Mineralogical Society of Great Britain and Ireland	266
Deutsche Mineralogische Gesellschaft	268
Geochemical Society	
Association of Applied Geochemists	
Clay Minerals Society	
International Association of GeoChemistry	274
Meteoritical Society	
European Association of Geochemistry	278
Japan Association of Mineralogical Sciences	
Mineralogical Association of Canada	282
Mineralogical Society of America	284
CosmoElements – The Apollo Sample Collection:	
50 Years of Solar System Insight	286
<b>Book Review</b> – Clays in the Critical Zone	288
Calendar	
People in the News – Donald Dingwell	292
Advertisers in this issue	292
Job Posting – University of Wisconsin-Madison	