

## NUMBER 4

Foreword.....	<i>Robert A. Berner</i>	iii
A new model for atmospheric oxygen over Phanerozoic time <i>Robert A. Berner and Donald Canfield</i>		333
The Flin Flon paleosol and the composition of the atmosphere 1.8 BYBP.....	<i>H.D. Holland, C.R. Feakes, and E.A. Zbinden</i>	362
Alternative modeling approaches to the geochemical cycles of carbon, sulfur, and strontium isotopes.....	<i>Lee R. Kump</i>	390
A new approach to isotopic modeling of the variation of atmo- spheric oxygen through the Phanerozoic.....	<i>Antonio C. Lasaga</i>	411
The post-Paleozoic chronology and mechanism of $^{13}\text{C}$ depletion in primary marine organic matter <i>B.N. Popp, Ray Takigiku, J.M. Hayes, J.W. Louda, and Earl W. Baker</i>		436
The global water cycle and continental erosion during Phanero- zoic time (570 my) <i>Yves Tardy, Roger N'Kounkou, and Jean-Luc Probst</i>		455
Mineralization through geologic time: recycling perspective <i>Jan Veizer, Peter Laznicka, and Siegfried L. Jansen</i>		484
Phanerozoic cycling of sedimentary carbonate <i>Bruce H. Wilkinson and James C.G. Walker</i>		525

**REVIEW**

Chemical Cycles in the Evolution of the Earth; edited by C. Bryan Gregor, Fred T. Mackenzie, Robert M. Garrels, and J. Barry Maynard .....	<i>Robert A. Berner</i>	549
--	-------------------------	-----