RiMG Volume 75

Carbon in Earth

CONTENTS

1-6	Why Deep Carbon?	Hazen & Schiffries
7-46	Carbon Mineralogy and Crystal Chemistry	Hazen et al.
47-77	Structure, Bonding, and Mineralogy of Carbon at Extreme Conditions	s Oganov et al.
79-107	Carbon Mineral Evolution	Hazen et al.
109-148	The Chemistry of Carbon in Aqueous Fluids at Crustal and Upper-ma Conditions: Experimental and Theoretical Constraints	antle Manning et al.
149-181	Primordial Origins of Earth's Carbon	Marty et al.
183-229	Ingassing, Storage, and Outgassing of Terrestrial Carbon Through Geologic Time	Dasgupta
231-250	Carbon in the Core: Its Influence on the Properties of Core and Mant	le Wood et al.
251-287	Carbon in Silicate Melts	Ni & Keppler
289-322	Carbonate Melts and Carbonatites	Jones et al.
323-354	Deep Carbon Emissions from Volcanoes	Burton et al.
355-421	Diamonds and the Geology of Mantle Carbon	Shirey et al.
423-448	Nanoprobes for Deep Carbon	Mao & Boulard
449-465	On the Origins of Deep Hydrocarbons	Sephton & Hazen
467-494	Laboratory Simulations of Abiotic Hydrocarbon Formation in Earth's Deep Subsurface	McCollom
495-545	Hydrocarbon Behavior at Nanoscale Interfaces	Cole et al.
547-574	Nature and Extent of the Deep Biosphere	Colwell & D'Hondt
575-606	Serpentinization, Carbon and Deep Life	Schrenk et al.
607-648	High-Pressure Biochemistry and Biophysics	Meersman et al.
649-675	The Deep Viriosphere: Assessing the Viral Impact on Microbial Community Dynamics in the Deep Subsurface	Anderson et al.

This volume was supported by a grant from the:



