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Special Publication 257

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Edited by M. Maggetti and B. Messiga

This volume gives a broad view of the application of geoscience techniques to the study of monuments and objects from excavations and museums, including their origin, technique of manufacture, age and conservation, and reaffirms the important contribution of geosciences in the interdisciplinary approach to the study of complex materials such as minerals, rocks, glass, metals, mortar, plaster, slags and pottery. The papers in this book cover three topics: the study of pottery, glass, stone and mortar; the application of Raman spectroscopy to a wide variety of objects; and the future of archaeometry. These interdisciplinary studies include field geology, geophysics, microscopy, textural analysis, physical methods and geochemistry. These studies unlock information from the ancient materials, such as the provenance of raw materials, the firing technology, the ancient recipes and the alteration

Special Publication 256

The History of Meteoritics and Key Meteorite Collections: Fireballs, Falls and Finds

Edited by G. J. H. McCall, A. J. Bowden and R. J. Howarth

This Special Publication has 24 papers with an international authorship, and is prefaced by an introductory overview which presents highlights in the field. The first section covers the acceptance by science of the reality of the falls of rock and metal from the sky, an account that takes the reader from BCE (before common era) to the nineteenth century. The second section details some of the world's most important collections in museums - their origins and development. The Smithsonian chapter also covers the astonishingly numerous finds in the cold desert of Antarctica by American search parties. There are also contributions covering the finds by Japanese parties in the Yamato mountains and the equally remarkable discoveries in the hot deserts of Australia, North Africa, Oman and the USA. The other seven chapters take the reader through the revolution in scientific research on meteoritics in the later part of the twentieth century, including terrestrial impact cratering and extraordinary showers of glass from the sky; tektites, now known to be Earth-impact-sourced. Finally, the short epilogue looks to the future.

The History of Meteoritics and Key Meteorite Collections should appeal to historians of science, meteoriticists, geologists, astronomers, curators and the general reader with an interest in science.

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