



# METEORITES

*Their Impact on Science and History*

Edited by  
Brigitte Zanda and Monica Rotaru

CAMBRIDGE

# Meteorites Their Impact On Science And History

**Martin Beech**



## **Meteorites Their Impact On Science And History:**

*Meteorites* Brigitte Zanda, Monica Rotaru, 2001-07-12 What are these strange rocks that fall from the sky Where do they come from Are they a threat What are they made of How common are they Throughout history we have been fascinated by meteorites and their significance As time has passed we have learned more and more about these extraterrestrial objects and today the scientific study of meteorites provides a wealth of information about the solar system They reveal clues to some of the greatest scientific enigmas the origin of life on Earth the mass extinction of species the nature and composition of asteroids the conditions during the formation of the solar system and the dust from stars that died long before our Sun formed This comprehensive guide to meteorites first published in 2001 was written by a team of experts With the help of over two hundred full colour photographs diagrams and graphs they will skillfully answer all your questions **The History of**

**Meteoritics and Key Meteorite Collections** Gerald Joseph Home McCall, A. J. Bowden, Richard John Howarth, 2006 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 **Asteroids, Meteors, Meteorites, and Comets** Nicholas Faulkner, 2018-12-15 This fascinating text is a

perfect companion for any student interested in a more authoritative source on the subject of asteroids meteors meteorites and comets Readers will learn following the Next Generation Science Standards in the area of the Earth and the solar system the scientific differences between these four celestial objects They'll also study their features compositions characteristics classifications and history of their observation This book is perfect for the student doing a report on the subject or one who is curious about the space sciences and would like detailed information instead of a general overview *Cabinet Of*

*Curiosities, A: The Myth, Magic And Measure Of Meteorites* Martin Beech, 2021-03-05 Hurtling through the atmosphere in a blaze of light and reverberating percussions the arrival of a meteorite on Earth is a magical rare and precious sight These characteristics have accordingly ensured a long yet often controversial history For all this meteorites are cosmic messengers They tell us about the entire history of the solar system their story carrying us from the very earliest moments when solid material first began to form in the solar nebula Indeed meteorites played a key role in the origins of Earth's oceans and the

genesis of life Meteorites additionally tell us about the origin and evolution of the asteroids and they tell us about impacts upon the Moon as well as the volcanic history of planet Mars Much is known about the structure and chemistry of meteorites but for all this they still harbor many scientific mysteries that have yet to be resolved Encyclopedia of Astrobiology Muriel Gargaud, William M. Irvine, Ricardo Amils, Philippe Claeys, Henderson James Cleaves, Maryvonne Gerin, Daniel Rouan, Tilman Spohn, Stéphane Tirard, Michel Viso, 2023-07-27 Now in its third edition the Encyclopedia of Astrobiology serves as the key to a common understanding in the extremely interdisciplinary community of astrobiologists Each new or experienced researcher and graduate student in adjacent fields of astrobiology will appreciate this reference work in the quest to understand the big picture The carefully selected group of active researchers contributing to this work are aiming to give a comprehensive international perspective on and to accelerate the interdisciplinary advance of astrobiology The interdisciplinary field of astrobiology constitutes a joint arena where provocative discoveries are coalescing concerning e g the prevalence of exoplanets the diversity and hardiness of life and its chances for emergence Biologists astrophysicists biochemists geoscientists and space scientists share this exciting mission of revealing the origin and commonality of life in the Universe With its overview articles and its definitions the Encyclopedia of Astrobiology not only provides a common language and understanding for the members of the different disciplines but also serves for educating a new generation of young astrobiologists who are no longer separated by the jargon of individual scientific disciplines This new edition offers 170 new entries More than half of the existing entries were updated expanded or supplemented with figures supporting the understanding of the text Especially in the fields of astrochemistry and terrestrial extremophiles but also in exoplanets and space sciences in general there is a huge body of new results that have been taken into account in this new edition Because the entries in the Encyclopedia are in alphabetical order without regard for scientific field this edition includes a section Astrobiology by Discipline which lists the entries by scientific field and subfield This should be particularly helpful to those enquiring about astrobiology as it illustrates the broad and detailed nature of the field **Tsunami History and Science**

Ary S. Jr., 2024-06-02 In the expanse of the world's oceans lies a force of nature that remains one of the most devastating and inspiring phenomena the tsunami Tsunami History and Science is a comprehensive revelation of these powerful waves combining scientific rigor with engaging storytelling to provide readers with a deep understanding of their origins mechanics and impacts History of Shock Waves, Explosions and Impact Peter O. K. Krehl, 2008-09-24 This unique and encyclopedic reference work describes the evolution of the physics of modern shock wave and detonation from the earlier and classical percussion The history of this complex process is first reviewed in a general survey Subsequently the subject is treated in more detail and the book is richly illustrated in the form of a picture gallery This book is ideal for everyone professionally interested in shock wave phenomena Isotope Geochemistry William M. White, 2023-02-21 ISOTOPE GEOCHEMISTRY Provides a thorough and up to date overview of radiogenic and stable isotope geochemistry Now in its second edition Isotope

Geochemistry presents a comprehensive introduction to radiogenic and stable isotope geochemistry. The first five chapters cover fundamentals including the physics of nuclei, radioactive decay, nucleosynthesis, geochronology, and the theory of stable isotope fractionation. The next chapter focuses on the isotope geochemistry of meteorites and their constraints on the formation of the solar system and the Earth. The subsequent three chapters cover radiogenic and stable isotope geochemistry evolution of the Earth's mantle and crust. Three more chapters are devoted to the Earth's surface, the exosphere, including the hydrologic system, the biosphere, and climate. A new chapter in this edition focuses on the use of isotopes in paleontology and archeology. The final chapter is devoted to the isotope geochemistry of the noble gases. Illustrated in full color throughout. *Isotope Geochemistry* is intended primarily as a textbook for advanced undergraduate and graduate students. It is also intended as a reference for earth science professionals reflecting the impact that isotope geochemistry has on virtually every aspect of the earth sciences from climate change and geomorphology to geodynamics. [Narrative Science](#) Mary S.

Morgan, Kim M. Hajek, Dominic J. Berry, 2022-10-06 *Narrative Science* examines the use of narrative in scientific research over the last two centuries. It brings together an international group of scholars who have engaged in intense collaboration to find and develop crucial cases of narrative in science. Motivated and coordinated by the Narrative Science project funded by the European Research Council, this volume offers integrated and insightful essays examining cases that run the gamut from geology to psychology, chemistry, physics, botany, mathematics, epidemiology, and biological engineering. Taking in shipwrecks, human evolution, military intelligence, and mass extinctions, this landmark study revises our understanding of what science is and the roles of narrative in scientists' work. This title is also available as Open Access. [Introduction to Planetary Science](#) Gunter Faure, Teresa M. Mensing, 2007-05-04 This textbook details basic principles of planetary science that help to unify the study of the solar system. It is organized in a hierarchical manner so that every chapter builds upon preceding ones. Starting with historical perspectives on space exploration and the development of the scientific method, the book leads the reader through the solar system. Coverage explains that the origin and subsequent evolution of planets and their satellites can be explained by applications of certain basic principles of physics, chemistry, and celestial mechanics, and that surface features of the solid bodies can be interpreted by principles of geology. [Journal of the Natural History and Science Society of Western Australia](#), 1910 **Global Catastrophes in Earth History; An Interdisciplinary Conference on Impacts, Volcanism, and Mass Mortality** Virgil L. Sharpton, Peter D. Ward, 1990 The conference was held in Snowbird, Utah, October 1988 as a sequel to the Conference on Large Body Impacts held in 1981, also in Snowbird. This volume contains 58 peer-reviewed papers arranged into sections that cover the major themes of the conference: catastrophic impacts, volcanism, and mass mortality; geological signatures of impacts; environmental effects of impacts; patterns of mass mortality; volcanism and its effects; case histories of mass mortalities and events and extinctions at the K-T boundary. Annotation copyrighted by Book News, Inc., Portland, OR.

**Global Catastrophes in Earth History; An Interdisciplinary Conference on Impacts, Volcanism, and Mass Mortality** Virgil L. Sharpton, Peter D. Ward, 1990 The conference was held in Snowbird, Utah, October 1988 as a sequel to the Conference on Large Body Impacts held in 1981, also in Snowbird. This volume contains 58 peer-reviewed papers arranged into sections that cover the major themes of the conference: catastrophic impacts, volcanism, and mass mortality; geological signatures of impacts; environmental effects of impacts; patterns of mass mortality; volcanism and its effects; case histories of mass mortalities and events and extinctions at the K-T boundary. Annotation copyrighted by Book News, Inc., Portland, OR. *Taking Science to the Moon* Donald A. Beattie, 2003-08-07 Transports the reader behind NASA's

facade and into the 1960s politics planning sessions turf battles camaraderie and jealousies of the world's major space agency An absorbing insightful and revealing critical history The Observatory

**Accretion of Extraterrestrial Matter Throughout Earth's History** Bernhard Peucker-Ehrenbrink, Birger Schmitz, 2012-12-06 Every year Earth is bombarded with about 40 000 tons of extraterrestrial material This includes microscopic cosmic dust particles shed by comets and asteroids in outer space meteorites as well as large comets and asteroids that have led to catastrophic events in the geologic past Originally considered only a curiosity extraterrestrial matter found on Earth provides the only samples we have from comets asteroids and other planets Only recently mankind has started to actively collect extraterrestrial matter in space Apollo program Stardust mission rather than to wait for its delivery to Earth Still most of our knowledge of the origin and evolution of our solar system is based on careful studies of meteorites cosmic dust and traces of large impact events in the geologic record such as the mass extinction that terminated the Cretaceous Period and led to the extinction of the dinosaurs This book summarizes our current knowledge of the properties origin orbital evolution and accretion mechanism of extraterrestrial matter accreted on Earth and sheds light on accretion processes and fluxes in the geologic past The chapters in the first part of the book are arranged in order to follow extraterrestrial matter from its origin in space its orbital evolution on its way to Earth its interaction with the Earth magnetosphere and atmosphere to its more or less violent collision with the Earth's surface In the second part of the book several chapters deal with the present day flux of cosmic dust and meteorites to Earth Finally several chapters deal with the reconstruction of the accretion history of extraterrestrial matter on Earth starting with the most recent geologic past and ending with the very early violent accretion period shortly after the formation of Earth Moon and other solid planets in our solar system

**Encyclopedia of Earth Science** New York Academy of Sciences, Timothy M. Kusky, 2014-05-14 Presents an illustrated A to Z reference with approximately 700 entries on topics in the earth sciences including hydrology geology atmospheric sciences oceanography and more

**Meteorites and the Early Solar System II** Dante S. Laretta, Harry Y. McSween, 2006-07 They range in size from microscopic particles to masses of many tons The geologic diversity of asteroids and other rocky bodies of the solar system are displayed in the enormous variety of textures and mineralogies observed in meteorites The composition chemistry and mineralogy of primitive meteorites collectively provide evidence for a wide variety of chemical and physical processes This book synthesizes our current understanding of the early solar system summarizing information about processes that occurred before its formation It will be valuable as a textbook for graduate education in planetary science and as a reference for meteoriticists and researchers in allied fields worldwide

*Earth Sciences History*, 2004

*A Brief History of Creation: Science and the Search for the Origin of Life* Bill Mesler, H. James Cleaves II, 2015-12-07 The epic story of the scientists through the ages who have sought answers to life's biggest mystery How did it begin In this essential and illuminating history of Western science Bill Mesler and H James Cleaves II seek to answer the most crucial question in science How did life begin They trace the

trials and triumphs of the iconoclastic scientists who have sought to solve the mystery from Darwin's theory of evolution to Crick and Watson's unveiling of DNA. This fascinating exploration not only examines the origin of life question but also interrogates the very nature of scientific discovery and objectivity. *The Encyclopedia of Science and Technology* James Trefil, 2001-08-24 Edited by acclaimed science writer and physicist James Trefil the Encyclopedia's 1000 entries combine in depth coverage with a vivid graphic format to bring every facet of science technology and medicine into stunning focus. From absolute zero to the Mesozoic era to semiconductors to the twin paradox Trefil and his co-authors have an uncanny ability to convey how the universe works and to show readers how to apply that knowledge to everyday problems. *The Canadian Record of Science*, 1985

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