

Careers Speleologist Study Of Caves

Cave Geologists
All in a Day's Work: Careers Using Science, Second Edition
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Colorado Caves
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Hypogene Karst Regions and Caves of the World
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Transactions of the British Cave Research Association
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Caves of Tennessee
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A Guide to Caves and Karst of Indiana
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Cave Geologists

Caves have been used in various ways across human society but despite the persistence within popular culture of the iconic caveman, deep caves were never used primarily as habitation sites for early humans. Rather, in both ancient and contemporary contexts, caves have served primarily as ritual spaces. In *Sacred Darkness*, contributors use archaeological evidence as well as ethnographic studies of modern ritual practices to envision the cave as place of spiritual and ideological power and a potent venue for ritual practice. Covering the ritual use of caves in Europe, Asia, Australia, Africa, Mesoamerica, and the US Southwest and Eastern woodlands, this book brings together case studies by prominent scholars whose research spans from the Paleolithic period to the present day. These contributions demonstrate that cave sites are as fruitful as surface contexts in promoting the understanding of both ancient and modern religious beliefs and practices. This state-of-the-art survey of ritual cave use will be one of the most valuable resources for understanding the role of caves in studies of religion, sacred landscape, or cosmology and a must-read for any archaeologist interested in caves.

All in a Day's Work: Careers Using Science, Second Edition

Directories in Print

Collects information about applying for over five thousand types of educational financial aid, including local, state, and federal loans and scholarships.

Colorado Caves

Hidden Nature

Scientific, technical, and related societies of the United States.

Scientific, Technical, and Related Societies of the United States

The Archaeology of Caves in Ireland

Hypogene Karst Regions and Caves of the World

Cave organisms are the 'monsters' of the underground world and studying them invariably raises interesting questions about the ways evolution has equipped them to survive in permanent darkness and low-energy environments. Undertaking ecological studies in caves and other subterranean habitats is not only challenging because they are difficult to access, but also because the domain is so different from what we know from the surface, with no plants at the base of food chains and with a nearly constant microclimate year-round. The research presented here answers key questions such as how a constant environment can produce the enormous biodiversity seen below ground, what adaptations and peculiarities allow subterranean organisms to thrive, and how they are affected by the constraints of their environment. This book is divided into six main parts, which address: the habitats of cave animals; their complex diversity; the environmental factors that support that diversity; individual case studies of cave ecosystems; and of the conservation challenges they face; all of which culminate in proposals for future research directions. Given its breadth of coverage, it offers an essential reference guide for graduate students and established researchers alike.

Cave Life of Oklahoma and Arkansas

Cave Ecology

The Writers Directory

Caves are some of the creepiest and coolest places on Earth. Brave scientists known as cave geologists venture into their dark depths in order to learn more about these extreme places. Thanks to detailed text and photographs of cave geologists at work, readers can feel like they're in mysterious caves alongside these scientists. Cave geologists use science, technology, engineering, and math to do their research and to stay safe in this dangerous environment. In learning about this career, readers also learn about important topics in STEM-focused science curricula. Fun fact boxes and a graphic organizer enhance this exciting reading experience.

Academic American Encyclopedia

Studies of Cave Sediments

Who's who in Lebanon

Cave investigation is one of the most interesting research field in natural and earth sciences, showing a rapid development with technological progress. It coincides with a number of scientific disciplines to address the early human history, habitats of living lives and specimens. This book will be useful to students and researchers as well as to earth scientists, archeologist, biologist, natural sciences, and other experts in a other related of disciplines. The volume consists of three sections sorted thematically, each focusing on a certain aspect. The book presents results on the determination and definition of caves discussed by means of geographic, geophysical, and geological applications. Geomorphometric analysis using GIS and laser scanning, the importance of electric tomography method in cave detection, the use of groundwater sources in agricultural areas, and the habitats of bats and species are studied on several cave studies.

Scientific, Technical, and Related Societies of the United States

This book illustrates the diversity of hypogene speleogenetic processes and void-conduit patterns depending on variations of the geological environments by presenting regional and cave-specific case studies. The cases include both well-known and newly recognized hypogene karst regions and caves of the world. They all focus on geological, hydrogeological, geodynamical and evolutionary contexts of hypogene speleogenesis. The last decade has witnessed the boost in recognition of the possibility, global occurrence, and practical importance of hypogene karstification (speleogenesis), i.e. the development of solutional porosity and permeability by upwelling flow, independent of recharge from the overlying or immediately adjacent surface. Hypogene karst has been identified and documented in many regions where it was previously overlooked or misinterpreted. The book enriches the basis for generalization and categorization of hypogene karst and thus improves our ability to adequately model hypogene karstification and predict related porosity and permeability. It is a book which benefits every researcher, student, and practitioner dealing with karst.

Transactions of the British Cave Research Association

Explains how caves are created, the different geological features in them and the types of animals that inhabit them, and contains information on safety, cave etiquette, equipment, caving organizations and descriptions of individual caves found in Indiana. Original.

The Publishers' Trade List Annual

Caves of Tennessee

International Journal of Speleology

A Guide to Caves and Karst of Indiana

Bulletin of the National Speleological Society

This book offers a concise but comprehensive introduction to cave ecology. The emphasis is on the organisms that dominate this unique environment, although conservation and management aspects are also considered. The book is intended for both graduate students and professionals and assumes no previous knowledge of cave biology. -;Caves and other subterranean habitats with their often strange (even bizarre) inhabitants have long been objects of fascination, curiosity, and debate. The question of how such organisms have evolved, and the relative roles of natural selection and genetic drift, has engaged subterranean biologists for decades. Indeed, these studies continue to inform the more general question of adaptation and evolution. However, interest in subterranean biology is not limited to questions of evolutionary biology. Both the distribution and the apparent ancient age of many subterranean species continue to be of significant interest to biogeographers. Subterranean ecosystems generally exhibit little or no primary productivity and, as extreme ecosystems, provide general insights into ecosystem function. Furthermore, the simplicity of subterranean communities relative to most surface-dwelling communities makes them useful model systems for the study of species interactions such as competition and predation, as well as more general principles of ecosystem function. The rarity of many cave species makes them of special interest in conservation biology. The *Biology of Caves and other Subterranean Habitats* offers a concise but comprehensive introduction to cave ecology. Whilst there is an emphasis on the organisms that dominate this unique environment, conservation and management aspects are also considered. The book includes a global range of examples and case studies from both caves and non-cave subterranean habitats; it also provides a clear explanation of specialized terms used by speleologists. This accessible text will appeal to researchers new to the field and to the many professional ecologists and conservation practitioners requiring a concise but authoritative overview. Its engaging style will also make it suitable for senior undergraduate and graduate students taking courses in cave and subterranean biology. -

Cave Investigation

Who's who in Technology

The *Encyclopedia of Caves and Karst Science* contains 350 alphabetically arranged entries. The topics include cave and karst geoscience, cave archaeology and human use of caves, art in caves, hydrology and groundwater, cave and karst history, and conservation and management. The *Encyclopedia* is extensively illustrated with photographs, maps, diagrams, and tables, and has thematic content lists and a comprehensive index to facilitate searching and browsing.

Studies in Speleology

Encyclopedia of Caves

National Parks Magazine

Ice Caves synthesizes the latest research on ice caves from around the world, bringing to light important information that was heretofore buried in various reports, journals, and archives largely outside the public view. Ice caves have become an increasingly important target for the scientific community in the past decade, as the paleoclimatic information they host offers invaluable information about both present-day and past climate conditions. Ice caves are caves that host perennial ice accumulations and are the least studied members of the cryosphere. They occur in places where peculiar cave morphology and climatic conditions combine to allow for ice to form and persist in otherwise adverse parts of the planet. The book is an informative reference for scientists interested in ice cave studies, climate scientists, geographers, glaciologists, microbiologists, and permafrost and karst scientists. Covers various aspects of ice occurrence in caves, including cave climate, ice genesis and dynamics, and cave fauna Features an overview of the paleoclimatic significance of ice caves Includes over 100 color images of ice caves around the world

Scholarships Fellowships and Loans

The archaeology of caves in Ireland is a ground-breaking and unique study of the enigmatic, unseen and dark silent world of caves. People have engaged with caves for the duration of human occupation of the island, spanning 10,000 years. In prehistory, subterranean landscapes were associated with the dead and the spirit world, with evidence for burials, funerary rituals and votive deposition. The advent of Christianity saw the adaptation of caves as homes and places of storage, yet they also continued to feature in religious practice. Medieval mythology and modern folklore indicate that caves were considered places of the supernatural, being particularly associated with otherworldly women. Through a combination of archaeology, mythology and popular religion, this book takes the reader on a fascinating journey that sheds new light on a hitherto neglected area of research. It encourages us to consider what underground activities might reveal about the lives lived aboveground, and leaves us in no doubt as to the cultural significance of caves in the past. Marion Dowd is Lecturer in Prehistoric Archaeology at the Institute of Technology Sligo, Ireland. Her doctoral research examined the role of caves in Irish prehistoric ritual and religion. She has directed excavations in many caves, and has published and lectured widely on the subject.

Cave Biology

Science News

The Biology of Caves and Other Subterranean Habitats

John E. Mylroie and Ira D. Sasowsky' Caves occupy incongruous positions in both our culture and our science. The oldest records of modern human culture are the vivid cave paintings from southern France and northern Spain, which are in some cases more than 30,000 years old (Chauvet, et al, 1996). Yet, to call someone a "caveman" is to declare them primitive and ignorant. Caves, being cryptic and mysterious, occupied important roles in many cultures. For example, Greece, a country with abundant karst, had the oracle at Delphi and Hades the god of death working from caves. People are both drawn to and mortified by caves. Written records of cave exploration exist from as early as 852 BC (Shaw, 1992). In the decade of the 1920's, which was rich in news events, the second biggest story (as measured by column inches of newsprint) was the entrapment of Floyd Collins in Sand Cave, Kentucky, USA. This was surpassed only by Lindbergh's flight across the Atlantic (Murray and Brucker, 1979).

Science News Letter

Encyclopedia of Caves is a self-contained, beautifully illustrated work dedicated to caves and their unique environments. It includes more than 100 comprehensive articles from leading scholars and explorers in 15 different countries. Each entry is detailed and scientifically sound, yet accessible for students and non-scientists. This large-format reference is enhanced with hundreds of full-color photographs, maps, and drawings from the authors' own work, which provide unique images of the underground environment. Global in reach--authors are an international team of experts covering caves from around the world Includes 24 new articles commissioned especially for this 2nd edition Articles contain extensive bibliographies cross-referencing related essays Hundreds of color photographs, maps, charts and illustrations of cave features and biota A-Z sequence and a comprehensive index allow for easy location of topics Glossary presents definitions of all key vocabulary items

Cave Conservation and Restoration

The earth's subsurface contains abundant and active microbial biomass, living in water, occupying pore space, and colonizing mineral and rock surfaces. Caves are one type of subsurface habitat, being natural, solutionally- or collapse-enlarged openings in rock. Within the past 30 years, there has been an increase in the number of microbiology studies from cave environments to understand cave ecology, cave geology, and even the origins of life. By emphasizing the microbial life of caves, and the ecological processes and geological consequences attributed to microbes, this book provides the first authoritative and comprehensive account of the microbial life of caves for students, professionals, and general readers.

Encyclopedia of Caves and Karst Science

A critical examination of current knowledge and ideas on cave biology, with emphasis on evolution, ecology, and conservation.

The Writers Directory

More than ten thousand known caves lie beneath the state of Tennessee according to the Tennessee Cave Survey, a nonprofit organization that catalogs and maps them. Thousands more riddle surrounding states. In *Hidden Nature*, Michael Ray Taylor tells the story of this vast underground wilderness. In addition to describing the sheer physical majesty of the region's wild caverns and the concurrent joys and dangers of exploring them, he examines their rich natural history and scientific import, their relationship to clean water and a healthy surface environment, and their uncertain future. As a longtime caver and the author of three popular books related to caving—*Cave Passages*, *Dark Life*, and *Caves*—Taylor enjoys (for a journalist) unusual access to this secretive world. He is personally acquainted with many of the region's most accomplished cave explorers and scientists, and they in turn are familiar with his popular writing on caves in books; in magazines such as *Audubon*, *Outside*, and *Sports Illustrated*; and on websites such as those of the Discovery Channel and the PBS science series *Nova*. *Hidden Nature* is structured as a comprehensive work of well-researched fact that reads like a personal narrative of the author's long attraction to these caves and the people who dare enter their hidden chambers.

Ice Caves

Sacred Darkness

Transactions

Shortlisted for the Tratman Award 2015 To enter caves is to venture beyond the realm of the everyday. From huge vaulted caverns to impassable, water-filled passages; from the karst topography of Guilin in China to the lava tubes of Hawaii; from tiny remote pilgrimage sites to massive tourism enterprises, caves are places of mystery. Dark spaces that remain largely unexplored, caves are astonishing wonders of nature and habitats for exotic flora and fauna. This book investigates the natural and cultural history of caves and considers the roles caves have played in the human imagination and experience of the natural world. It explores the long history of the human fascination with caves, across countries and continents, examining their dual role as spaces of both wonder and fear. It tells the tales of the adventurers who pioneered the science of caves and those of the explorers and cave-divers still searching for new, unmapped routes deep into the earth. This book explores the lure of the subterranean world by examining caving and cave tourism and by looking to the mythology, literature, and art of caves. This lavishly illustrated book will appeal to general readers and experts alike interested in the ecology and use of caves, or the extraordinary artistic responses earth's dark recesses have evoked over the centuries.

Cave

Speleobiology, the study of cave life, is a relatively new science. The diversity of

species that live in caves, springs, and aquifers is just beginning to be documented, and much of the underground world has yet to be explored. The surveys of cave life reported in this book represent an important step forward in understanding the biodiversity of caves in Oklahoma and Arkansas. The project whose research led to the publication of *Cave Life of Oklahoma and Arkansas* began in the 1970s as a study of Ozark cavefish and expanded to encompass two states and involve a number of research topics and collaborators. The authors and their team donned snorkeling gear, cave suits, and climbing harnesses and descended into caves in Oklahoma and Arkansas to study, inventory, and photograph this hidden world. The result is a comprehensive checklist of the region's cave fauna, complete with descriptions of these rare animals' distribution and ecological niches. The cast of characters ranges from familiar and charismatic species, such as cave crayfish and gray bats, to rare and bizarre fauna, such as blind salamanders and cave dung beetles. More than 175 full-color illustrations include stunning, never-before-seen photographs (from the cameras of Dave Bunnell, Tim Ernst, and Danté B. Fenolio, among others) of cave animals—even some newly discovered species. The authors also address conservation of subterranean biodiversity, discussing not only threats to cave life such as invasive species, resource extraction, and habitat loss, but also current methods of preservation and protection, including legislation, land acquisition, people management, and cave gates. The book's appendices provide a comprehensive cave bibliography and checklists of subterranean animals for each cave. Speleology is critical to science. Subterranean organisms are key indicators of groundwater quality, and their adaptations can lead to advances in medicine. *Cave Life of Oklahoma and Arkansas* advances our knowledge of, and can thus help us save, subterranean ecosystems—among the world's last frontiers.

Microbial Life of Cave Systems

Geological Newsletter

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