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The spacecraft is designed to study clusters of asteroids

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along Jupiter ' s orbital path, known as the Trojan swarms, as it seeks to answer questions about the origins of the solar system and how life ...

NASA to Launch a Robotic Archaeologist Named Lucy
One summer afternoon in 1955, a Baylor University geology student was roaming the dry streambed of Tonk Creek in Crawford.

Tonkawa Falls event Saturday highlights mystery of ancient petroglyphs
How about a day trip the entire family will enjoy? Michigan

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Archaeology Day will be returning to the Michigan History Center in Lansing, Oct. 23 from 10 a.m. to 4 p.m. The event is free for all ages ...

Michigan Archaeology Day

It ' s more archaeological record of it. So, this was an article I was reading in BBC Future, and you might already know that when we look back in the past using geology, you look at different ...

The billion years missing from Earth ' s history

In a vast odyssey across the solar system, the mission will

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study asteroids known as Trojans that may contain secrets of how the planets ended up in their current orbits.

Why NASA Is Launching a Robotic Archaeologist Named Lucy

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Michigan Archaeology Day set for Oct. 23

A team of geoscientists and archaeologists made the

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discovery by analyzing samples of the tools at a University of Texas at Austin geology lab, finding that dough mixing vats and ...

Roman-era mixers and millstones made with geology in mind
This is a record of two seasons' geological and archaeological fieldwork in the Gebel Akhdar hills, with a summary of prehistoric finds in neighbouring territories. Dr Hey has written the first part ...

Prehistory and Pleistocene Geology in Cyrenaican Libya
geology and ecosystems range from the middle of the 20 th

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century to the beginning of the Agricultural Revolution roughly 15,000 years ago, leaving a lot of gray space to be debated among experts.

Crowd-Sourced Archaeology Shows Thousands of Years of Human Influence

GPR is used often for detecting underground utilities, but also has applications in other fields such as archaeology and geology. For those people in these fields, a less expensive GPR was the ...

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Sharjah, Government of Jersey explore environmental cooperation

After nearly three years and following extensive architectural renovations, the Georgia Southern Museum, one of the longest-standing educational centers on the university ' s campus, reopened to ...

The mosasaur is back!

This cave art was accidentally discovered in 1957 by an archaeologist Vishnu Wakankar ... can do that, ” says R

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Pavanaguru, a retired geology professor at Osmania University.

History on the rocks: Tour the ancient marvels lurking in our midst

Baur and colleagues are trying to show that drone-born geophysical sensors already used in fields such as exploration geology, volcanology and archaeology may be applied to more efficiently spot ...

Harnessing drones, geophysics and artificial intelligence to root out land mines

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The Nautilus is part of the Ocean Exploration Trust, a program aimed at exploring the ocean, seeking out new discoveries in the fields of geology, biology, maritime history, archaeology and ...

Flour Bluff teacher returns after deep sea research aboard vessel in Pacific Ocean

Aarti Deshpande-Mukherjee, archaeologist, Deccan College, is the principal investigator of the project along with professor Anindya Sarkar from the geology department of IIT Kharagpur, co ...

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Researchers from Deccan College, IIT Kharagpur to study climate change during Indus Valley Civilisation

Explore Downtown ' s unique geology with geologist Daniel Foley ... Experience being a National Park Service biologist or archaeologist! Flagstaff Area National Monuments resource staff will ...

2021 Flagstaff Festival of Science: Program of events

Family Discovery Day: Archaeology: 11 a.m.-4 p.m. Oct. 2 ... a hike to Shovel Point to hear about the unique biology and geology of this famous landmark. For more info, contact Kurt Mead at ...

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ATV Safety Field Day classes available in October

A study on stone tools from an outpost of the Roman Empire has found that for ancient bakers and millers, having the right tools was a matter of geology. A study on stone tools from an outpost of ...

This short introduction aims to provide archaeologists of all backgrounds with a grounding in the principles, materials, and methods of geology. Each chapter ends with a short reading list, and many have selected case-histories in illustration of the points made. Included is a glossary of

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technical terms.

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The archaeological geology of the Quaternary or the geological epoch during which humankind evolved is a scientific endeavor with much to offer in the fields of archaeology and palaeoanthropology. Earth science techniques offer diverse ways of characterizing the elements

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of past landscapes and archaeological facies. This book is a survey of techniques used in archaeological geology for the study of soils, sediments, rocks and minerals. The techniques presented represent those most commonly used today. They are discussed in detail and examples are provided, in many cases, to demonstrate their usefulness to archaeologists.

Obsidian was long valued by ancient peoples as a raw material for producing stone tools, and archaeologists have increasingly come to view obsidian studies as a crucial aid in understanding the past. Steven Shackley now shows how the geochemical and contextual analyses of archaeological obsidian can be applied to the interpretation of social and economic organization in the ancient Southwest. This book,

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the capstone of decades of investigation, integrates a wealth of obsidian research in one volume. It covers advances in analytical chemistry and field petrology that have enhanced our understanding of obsidian source heterogeneity, presents the most recent data on and interpretations of archaeological obsidian sources in the Southwest, and explores the ethnohistorical and contemporary background for obsidian use in indigenous societies. Shackley provides a thorough examination of the geological origin of obsidian in the region and the methods used to collect raw material and determine its chemical composition, and descriptions of obsidian sources throughout the Southwest. He then describes the occurrence of obsidian artifacts and shows how their geochemical fingerprints allow archaeologists to

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make conclusions regarding the procurement of obsidian. The book presents three groundbreaking applications of obsidian source studies. It first discusses an application to early Preceramic groups, showing how obsidian sources can reflect the range they inhabited over time as well as their social relationships during the Archaic period. It then offers an examination of the Late Classic Salado in Arizona's Tonto Basin, where obsidian data, along with ceramic and architectural evidence, suggest that Mogollon migrants lived in economic and social harmony with the Hohokam, all the while maintaining relationships with their homeland. Finally, it provides an intensive look at social identity and gender differences in the Preclassic Hohokam of central Arizona, where obsidian source provenance and projectile point styles

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suggest that male Hohokam sought to create a stylistically defined identity in at least three areas of the Hohokam core area. These male "sodalities" were organized quite differently from female ceramic production groups. Today, obsidian research in the American Southwest enjoys an equal standing with ceramic, faunal, and floral studies as a method of revealing social process and change in prehistory. Shackley's book discusses the ways in which archaeologists should approach obsidian research, no matter what the region, offering a thorough survey of archaeological obsidian studies that will have methodological and theoretical applications worldwide. The volume includes an extensive glossary created specifically for archaeologists.

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This 2nd edition is a survey level review of key areas of archaeological geology/geoarchaeology. Principal subject areas include: historical principles; archaeological and geomorphic surfaces and landforms types; sediments and sediment analytic methods; archaeological stoney materials - petrographic and mineralogic attributes; ceramic materials - mineralogic composition and analytic methods; geochemical methods useful in archaeological geology - studies of materials; commonly used geochronological methods for archaeological geology. Contributions to paleoecology, paleoclimate and ancient cultures as well as multivariate ICP and EDX data are now included.

This book discusses the application of geological methods

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and theory to archaeology. Written as a survey text covering appropriate methods and techniques taken from geology, geophysics, geochemistry, and geochronology, it shows the student the practicality and importance of each technique's use in solving archaeological problems. Specific techniques are illustrated by practical results obtained from the authors' use on archaeological digs. With an international geographical scope, the book draws on sites from both hemispheres, including the Franchthi Cave in Greece, St. Catherines Island in the U.S., the Roman site of Drand in France, and Monte Verde, Chile. The authors also address applications in less traditional areas such as underwater, historical, industrial, and conservation archaeology.

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A unique collection touches on four fascinating sciences! Add a little variety to your science program with these full-color Wonder series books! Learn about the landscape of caves, where you find fossils, and what processes formed the world's landscapes, and discover connections with ancient civilizations and the Bible in an intense combined program. Four titles from the best-selling Wonders of Creation Series are combined for a full year of study. The focus of the course delves into archaeology, geology, speleology, and paleontology, all helping the student form a solid, biblical worldview. Combined with the Parent Lesson Plan, you will have a detailed calendar for each week of study, reproducible worksheets, quizzes and tests, and answers keys to help grade all assignments.

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This volume brings together contributions from an experienced group of archaeologists and geologists whose common objective is to present thorough and current reviews of the diverse ways in which methods from the earth sciences can contribute to archaeological research. Many areas of research are addressed here, including artifact analysis and sourcing, landscape reconstruction and site formation analysis, soil micromorphology and geophysical exploration of buried sites.

Sea-level change has influenced human population globally

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since prehistoric times. Even in early phases of cultural development human populations were faced with marine regression and transgression as a result of changing climate and corresponding glacio-isostatic adjustment. Global marine regression during the last glaciation changed the palaeogeography of the continental shelf, converting former marine environments to attractive terrestrial habitats for prehistoric humans. These areas of the shelf were used as hunting and gathering areas, as migration routes between continents, and most probably witnessed the earliest developments in seafaring and marine exploitation, until the postglacial transgression re-submerged these palaeo-landscapes. Based on modern marine research technologies and the integration of large databases, proxy data are

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increasingly available for the reconstruction of Quaternary submerged landscapes. Also, prehistoric archaeological remains from the recent sea bottom are shedding new light on human prehistoric development driven by rapidly changing climate and environment. This publication contributes to the exchange of ideas and new results in this young and challenging field of underwater palaeoenvironmental investigation.

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