

Fairweather Eden Life In Britain Half A Million Years Ago As Revealed By The Excavations At Boxgrove

Microfossils are an abundant component of the sedimentary rock record. Their analysis can reveal not only the environments in which the rocks were deposited, but also their age. When combined, the spatial and temporal distribution patterns of microfossils offer enormous utility for archaeological and forensic investigations. Their presence can act as a geological 'fingerprint' and the tiniest fragment of material, such as a broken Iron Age potsherd, can contain a microfossil signature that reveals the geographical source of the materials under investigation. This book explores how microfossils are employed as tools to interpret human society and habitation throughout history. Examples include microfossil evidence associated with Palaeolithic human occupation at Boxgrove in Sussex, alongside investigations into human-induced landscape change during the Holocene. Further examples include the use of microfossils to provenance the source materials of Iron Age ceramics, Roman mosaics and Minoan pottery, in addition to their application to help solve modern murder cases, highlighting the diverse applications of microfossils to improving our understanding of human history.

A number of researchers have tried to characterise the anatomy and behavioural systems of early hominid and early modern human populations in an attempt to understand how we became what we are. Can archaeology, palaeo-anthropology and genetics tell us how and when human cultures developed the traits that make our societies different from those of our closest living relatives? In which cases are these differences substantial, and when do they simply reflect our definitions of culture, species, the image we have of their evolution or of ourselves? From Tools to Symbols, a collection of twenty-seven selected papers from a South African-French conference organised in honour of the well-known palaeo-anthropologist Phillip Tobias, provides a multidisciplinary overview of this field of study. It is based on collaborative research conducted in sub-Saharan Africa by South African, French, American and German scholars in the last twenty years, and represents an excellent synthesis of the palaeontological and

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archaeological evidence of the last five million years of human evolution.

"Rather than explaining the archaeology of stones and bones as the product of group decisions, the contributors investigate how individual action created social life. This challenge to the accepted standpoint of the Palaeolithic brings new models and theories into the period; innovations that are matched by the resolution of the data that preserve individual action among the artefacts. The book brings together examples from recent excavations at Boxgrove, Schoningen and Blombos Cave, and the analyses of findings from Middle and Early Upper Pleistocene excavations in Europe, Africa and Asia. The results will revolutionise the Palaeolithic as archaeologists search for the lived lives among the empty spaces that remain."--BOOK JACKET.

Lithic Materials and Paleolithic Societies provides a detailed examination of the Paleolithic procurement and utilization of the most durable material in the worldwide archaeological record. The volume addresses sites ranging in age from some of the earliest hominin occupations in eastern and southern Africa to late Pleistocene and post-Pleistocene occupations in North American and Australia. The Early Paleolithic in India and the Near East, the Middle Paleolithic in Europe, and the Late Paleolithic in Europe and eastern Asia are also considered. The authors include established researchers who provide important synthetic statements updated with new information. Recent data are reported, often by younger scholars who are becoming respected members of the international research community. The authors represent research traditions from nine countries and therefore provide insight into the scholarly present as well as the Paleolithic past. Attempts are frequently made to relate lithic procurement and utilization to the organization of societies and even broader concerns of hominin behaviour. The volume re-evaluates existing interpretations in some instances by updating previous work of the authors and offers provocative new interpretations that at times call into question some basic assumptions of the Paleolithic. This book will be invaluable reading for advanced students and researchers in the fields of palaeolithic archaeology, geoarchaeology, and anthropology. Starting with the dawn of what we would recognise as modern human thought, this book journeys through 35,000 years of

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our human past. It shows how our earliest ancestors learnt to enter trance states and the revolutionary effect this had on the way they interacted with their world. Moreover, by marrying the very latest research with vivid first-person reconstructions, the book will actually take readers back in time. In its pages we join Stone Age hunting parties, steal food from desperate, starving cannibals, sit eye-to-eye with a mouldy Bronze Age mummy and join the Celts for a feast where you truly are what you eat. The story of our past has never been told this way before and has never been brought to life with such vividness. This is the past as our ancestors would have known it.

The Earliest Europeans

Environmental Change and Human Development

Deer

Continuity and Change from Prehistory to the Present

The British Palaeolithic

The Handbook of British Archaeology

Psalms Book 2: An Earth Bible Commentary

In November 1997 English Heritage announced the discovery of a vast prehistoric temple in Somerset. The extraordinary wooden rings at Stanton Drew are the most recent and biggest of a series of remarkable discoveries that have transformed the way archaeologists think of the great monuments in the region, including Avebury and Stonehenge; one of the world's most famous prehistoric monuments, top tourist site and top location for summer solstice celebrations. The results of these discoveries have not been published outside academic journals and no one has considered the wider implications of these finds. Here Mike Pitts, who has worked as an archaeologist at Avebury, and has access to the unpublished English Heritage files, asks what sort of people designed and built these extraordinary neolithic structures - the biggest in Britain until the arrival of medieval cathedrals. Using computer reconstructions he shows what they looked like and asks what they are for. This is the story of the discovery of a lost civilisation that spanned five centuries, a civilisation that now lies mostly beneath the fields of Southern England. *Bones, Stones and Molecules* provides some of the best evidence for resolving the debate between the two hypotheses of human origins. The debate between the 'Out of Africa' model and the 'Multiregional' hypothesis is examined through the functional and developmental processes associated with the evolution of the human skull and face and focuses on the significance of the Australian record. The book analyzes important new discoveries that have occurred recently and examines evidence that is not available elsewhere. Cameron and Groves argue that the existing evidence supports a recent origin for modern humans from Africa. They also specifically relate these two theories to interpretations of the origins of the first Australians. The book provides an up-to-date interpretation of the fossil, archaeological and the molecular evidence, specifically as it relates to Asia, and Australia in particular. Readily accessible to the layperson and professional Provides concise coverage of current scientific evidence Presents a robust computer-generated model of human speciation over the last 7 million years Well illustrated with figures and photographs of important fossil specimens Presents a synthesis of great ape and human evolution

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In *Landscape of the Mind*, John F. Hoffecker explores the origin and growth of the human mind, drawing on archaeology, history, and the fossil record. He suggests that, as an indirect result of bipedal locomotion, early humans developed a feedback relationship among their hands, brains, and tools that evolved into the capacity to externalize thoughts in the form of shaped stone objects. When anatomically modern humans evolved a parallel capacity to externalize thoughts as symbolic language, individual brains within social groups became integrated into a "neocortical Internet," or super-brain, giving birth to the mind. Noting that archaeological traces of symbolism coincide with evidence of the ability to generate novel technology, Hoffecker contends that human creativity, as well as higher order consciousness, is a product of the superbrain. He equates the subsequent growth of the mind with human history, which began in Africa more than 50,000 years ago. As anatomically modern humans spread across the globe, adapting to a variety of climates and habitats, they redesigned themselves technologically and created alternative realities through tools, language, and art. Hoffecker connects the rise of civilization to a hierarchical reorganization of the super-brain, triggered by explosive population growth. Subsequent human history reflects to varying degrees the suppression of the mind's creative powers by the rigid hierarchies of nationstates and empires, constraining the further accumulation of knowledge. The modern world emerged after 1200 from the fragments of the Roman Empire, whose collapse had eliminated a central authority that could thwart innovation. Hoffecker concludes with speculation about the possibility of artificial intelligence and the consequences of a mind liberated from its organic antecedents to exist in an independent, nonbiological form.

Environmental Change and Human Development focuses on environmental change and human fortunes. While there is a large and rapidly expanding literature dealing with how people affect the environment, less attention has been given in recent years to how the environment shapes human development. In an ever more crowded world there is a need for anticipatory environmental management, and a crucial input to this is consideration of the interaction between environment and humans. The environment is not as stable, benign or controllable as people like to think. The world population is vastly larger than it has ever been and is still growing, and humans increasingly upset nature through pollution and other activities. While modern communications may help environmental managers, rapid travel also increases the dispersal of diseases and pests. Technological advance and social development is not all beneficial; some innovations have the effect of making people more vulnerable to disruption by natural disaster, and citizens are often less able to cope with changed conditions than people were in the past. *Environmental Change and Human Development* addresses key issues such as soil degradation, natural climatic variations and volcanic activity, and provides geography and earth sciences students with an essential introduction to the major debates surrounding this topic.

Celebrating the rich heritage of archaeology and of archaeological research in Hertfordshire, the 15 papers collected in this work focus on various aspects of the region, including the Neolithic to the post-Medieval periods, and include a report on the important excavations at the formative henge at Norton. Several chapters focus new attention on the Iron Age and Roman periods, both from a landscape perspective and through detailed studies of artefacts, while a discussion of the rare early Saxon material recently excavated at Watton at Stone makes a vital contribution to the existing corpus of knowledge about this little-understood period. All of the papers in the volume focus on the local scene with an understanding of wider issues in each period and as a result, the papers are of importance beyond the boundaries of the county and will be of interest to scholars with wide-ranging interests.

Archaeological Fantasies

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The Lost Civilizations of the Stone Age

Lithic Materials and Paleolithic Societies

A Deeper Understanding of Human History

How Pseudoarchaeology Misrepresents the Past and Misleads the Public

Hominin Societies at the Edge of the Pleistocene World

Life in Britain 2000 BC as Revealed by the Latest Discoveries at Stonehenge, Avebury and Stanton Drew

Where did we come from? Why are we here? Is there a god? In our modern world, many people yearn for answers to these most fundamental of life's questions, having become disillusioned with trite explanations and troubled by narratives that deny their intuitive spirituality. Beginning with some of our most ancient ancestors, Wakan Tanka traces the evolution of humanity through the ages. Citing paleontological and archaeological discoveries, along with recent genetic evidence, it recounts how mankind evolved from the earliest mammals into anatomically and behaviourally modern humans. Wakan Tanka describes how human culture and spirituality evolved in concert with anatomy. Showing how humankind has, since very ancient times, had an instinctual, moral sense, it discusses how our spirituality has given us an appreciation for both the aesthetic and divine aspects of life as reflected in our cultures and artistic endeavours. By comparing philosophical and religious views of creation with modern scientific theory, Wakan Tanka reaches the conclusion that, rather than conflicting, these views are remarkably similar and equally valid ways of describing the same reality. Indeed, our scientific knowledge and spiritual beliefs can be harmonized, providing us with a deeper understanding of ourselves, of creation and of life's purpose.

Building on the first Wild Things volume (Oxbow Books 2014), which aimed to showcase the research putting archaeologists researching the Palaeolithic and Mesolithic at the cutting edge of understanding humanity's past, this collection of contributions presents recent research from an international group of both early career and established scientists. Covering aspects of both Palaeolithic and Mesolithic research in order to encourage dialogue between practitioners of archaeology of both periods, contributions are also geographically diverse, touching on British, European, North American, and Asian archaeology. Topics covered include transitional periods, deer and people, stone tool technologies, pottery, land-use, antler frontlets, and the development of prehistoric archaeology an 'age of wonder'.

The British Palaeolithic provides the first academic synthesis of the entire British Palaeolithic, from the earliest occupation to the end of the Ice Age. It fills a major gap in teaching resources as well in research by providing a current synthesis of the latest research on the period.

The Earliest Europeans explores the early origins of man in Europe through the perspective of 'a year in the life': how hominins in the Lower

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Palaeolithic coped with the year-round practical challenges of mid-latitude Europe with its distinctive temperatures, seasonality patterns, and available resources. Current research has provided increasingly robust archaeological and Quaternary Science records, but there are ongoing uncertainties as to both the earliest Europeans' specific survival strategies and behaviours, and the character of their dispersals into Europe. In short, how sustained and 'successful' were the individual phases of European occupation by Lower Palaeolithic hominins and what sorts of 'human' were they? Using a season-by-season chapter structure to explore, for example, the contrasting demands and opportunities of winter versus summer survival, Hosfield explores how foods and other resources would vary across the four seasons in quantity and quality, and the resulting implications for hominin behaviours. Text boxes provide the background on key issues, and the book draws on a range of supporting evidence including technology (e.g. the nature of Lower Palaeolithic stone tools; the evidence for organic tools), hominin life history (e.g. the length of infant dependency; the nature of 'parenting'; the implications of different mating models; the Social Brain Hypothesis), cognitive studies (e.g. brain scanning research into possible planning capabilities) and potential bias in the archaeological record (e.g. in terms of what is and isn't preserved). By testing the likelihood of different scenarios by comparing short-term, site-based insights with long-term, regional trends, Hosfield is able to put forward ideas on how our earliest European ancestors survived and what their lives were like.

Seeks to explore the nature of left- and right-handedness in nature and history, addressing such topics as the cognitive differences of left-handed people, the reason Arabic and Hebrew writing goes from right to left, and the reason tornadoes spin according to their hemispheres. (Science & Mathematics)

Origins of Human Innovation and Creativity

Archaeological Investigations of Lower and Middle Palaeolithic

Landscapes, Locales and Artefacts

From Tools to Symbols

Hengeworld

Wakan Tanka

"As a Doe Groans"

Ancient Pakistan - An Archaeological History

This book tells the story of both the ancient humans who made handaxes and the thoughts and ideas of scholars who have spent their lives trying to understand them. Beginning with the earliest known finds, this volume provides a linear and thematic account of the history of the Old Stone Age, or Palaeolithic period, covering major discoveries, interpretations and debates worldwide; a story that takes us from the embers of the Great Fire of London to

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the beginning of the Covid-19 pandemic. It offers a comprehensive and unique history of archaeological theory and interpretation, seeking to explain how we know what we know about the deep past, and how ideas about it have changed over time, reflecting both scientific and societal change. At its heart lies the quest for an answer to a most curious and sometimes beautiful tool ever made – the handaxe. While focused on the Earlier Palaeolithic period, the book provides a readable account of how ideas about the prehistoric past generally were formed and altered, showing how the wider discipline came to be dominated by a succession of different theoretical ‘paradigms’, each seeking different answers from the same data set. Serving a dual purpose as a historical narrative and as a reference source, this book will be of interest to all students and researchers interested in deep human prehistory and evolution, archaeological theory and the history of archaeology.

“Even-handed, up-to-date, and clearly written. . . . If you want to navigate between the Scylla and Charybdis of Neanderthal controversies, you’ll find no better guide.” —Brian Fagan, author of Cro-Magnon In recent years, the common perception of the Neanderthal has been transformed thanks to new discoveries and paradigm-shattering scientific innovations. It turns out that the Neanderthals’ behavior was surprisingly modern: they buried the dead, cared for the sick, hunted large animals in their prime, harvested seafood, and spoke. Meanwhile, advances in DNA technologies have forced a reassessment of the Neanderthals’ place in our own past. For hundreds of thousands of years, Neanderthals evolved in Europe very much in parallel to the *Homo sapiens* line evolving in Africa, and, when both species made their first forays into Asia, the Neanderthals may even have had the upper hand. Here, Dimitra Papagianni and Michael A. Morse look at the Neanderthals through the full dramatic arc of their existence—from their evolution in Europe to their expansion to Siberia, their subsequent extinction, and ultimately their revival in popular novels, cartoons, cult movies, and TV commercials.

Ancient Pakistan - An Archaeological History deals with the prehistory of Pakistan from the Stone Age to the end of the Indus Civilization. This particular volume, *The Stone Age*, concerns with the first appearance of man in northern Pakistan more than a million years ago and traces his cultural history up to the emergence of agriculture and sedentary living in this region. The book is written for students of ancient history, anthropology, and archaeology. The material is generously illustrated with a large number of maps, tables, drawings, and colored photographs. Each Section is provided with extensive references to the text and a comprehensive bibliography is provided for those who want to dig deeper into the subject. Although the book primarily deals with the Greater Indus Valley, its scope is much wider: the subject has been discussed in context with the paleolithic of India, Central Asia, and Iran. The story of human evolution provides a constant background.

The assassin's bullet misses, the Archduke's carriage moves forward, and a

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catastrophic war is avoided. So too with the history of life. Re-run the tape of life, as Stephen J. Gould claimed, and the outcome must be entirely different: an alien world, without humans and maybe not even intelligence. The history of life is littered with accidents: any twist or turn may lead to a completely different world. Now this view is being challenged. Simon Conway Morris explores the evidence demonstrating life's almost eerie ability to navigate to a single solution, repeatedly. Eyes, brains, tools, even culture: all are very much on the cards. So if these are all evolutionary inevitabilities, where are our counterparts across the galaxy? The tape of life can only run on a suitable planet, and it seems that such Earth-like planets may be much rarer than hoped. Inevitable humans, yes, but in a lonely Universe.

This fourth edition constitutes the most extensive reshaping of the text to date. In a lucid and accessible style Kevin Greene explains the discovery and excavation of sites, outlines major dating methods, gives clear explanations of scientific techniques, and examines current theories and controversies. New features include: a completely new user-friendly text design with initial chapter overviews and final conclusions, key references for each chapter section, an annotated guide to further reading, a glossary, refreshed illustrations, case studies and examples, bibliography and full index a new companion website built for this edition providing hyperlinks from contents list to individual chapter summaries which in turn link to key websites and other material an important new chapter on current theory emphasizing the richness of sources of analogy or interpretation available today. This new edition provides students with a sound introduction to the field of archaeology and guides them towards further study.

An Introduction

An Archaeological History of Britain

*Neanderthals Rediscovered: How Modern Science Is Rewriting Their Story
(Revised and Updated Edition)*

Their African Origin and Global Dispersal

Life's Solution

From Early Hominids to Modern Humans

Archaeology can shed light on the rise and fall of empires, the march of technology, the nature of past societies, the development of arts and culture, the course of warfare, and much more. Yet what gives it its greatest value is its ability to illuminate the area in which written records fall short - the everyday lives of ordinary people. Interpreting Archaeology uses a wide array of evidence, including artefacts as varied as humble ceramic pots, imposing monuments, and genetic data, to tell the human story from a new angle. Beginning with the discoveries that have reshaped our understanding of hominin evolution and the spread of Homo sapiens across the globe, Neil Faulkner has charted a fascinating journey through the past, taking in everything from the rise of the world's first great civilizations to the establishment of hierarchies, the development of art and religion, and the causes of warfare along the way.

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Including case studies, this collection of engaging and stimulating essays written by a diverse group of scholars, scientists and writers examines the phenomenon of pseudoarchaeology from a variety of perspectives.

For over 25 years The Handbook of British Archaeology has been the foremost guide to archaeological methods, artefacts and monuments, providing clear explanations of all specialist terms used by archaeologists. This completely revised and updated edition is packed with the latest information and now includes the most recent developments in archaeological science. Meticulously researched, every section has been extensively updated by a team of experts. There are chapters devoted to each of the archaeological periods found in Britain, as well as two chapters on techniques and the nature of archaeological remains. All the common artefacts, types of sites and current theories and methods are covered. The growing interest in post-medieval and industrial archaeology is fully explored in a brand new section dealing with these crucial periods. Hundreds of new illustrations enable instant comparison and identification of objects and monuments - from Palaeolithic handaxes to post-medieval gravestones. Several maps pinpoint the key sites, and other features include an extensive bibliography and a detailed index. The Handbook of British Archaeology is the most comprehensive resource book available and is essential for anyone with an interest in the subject - from field archaeologists and academics to students, heritage professionals, Time Team followers and amateur enthusiasts.

Innovation and creativity are two of the key characteristics that distinguish cultural transmission from biological transmission. This book explores a number of questions concerning the nature and timing of the origins of human creativity. What were the driving factors in the development of new technologies? What caused the stasis in stone tool technological innovation in the Early Pleistocene? Were there specific regions and episodes of enhanced technological development, or did it occur at a steady pace where ancestral humans lived? The authors are archaeologists who address these questions, armed with data from ancient artefacts such as shell beads used as jewelry, primitive musical instruments, and sophisticated techniques required to fashion certain kinds of stone into tools. Providing 'state of art' discussions that step back from the usual archaeological publications that focus mainly on individual site discoveries, this book presents the full picture on how and why creativity in Middle to Late Pleistocene archeology/anthropology evolved. Gives a full, original and multidisciplinary perspective on how and why creativity evolved in the Middle to Late Pleistocene Enhances our understanding of the big leaps forward in creativity at certain times Assesses the intellectual creativity of Homo erectus, H. neanderthalensis, and H. sapiens via their artefacts

Jonathan Eaton has provided the essential volume for all students of Archaeology, Classical Civilisations and Ancient History by condensing the entire archaeological history of Britain into one accessible volume. The Archaeological History of Britain takes us from the earliest prehistoric archaeology right up to the contemporary archaeology of the present day through the use of key sites to illustrate each key time period as well as a narrative of change to accompany the changing archaeological record. The wide range of evidence utilised by archaeologists, such as artefacts, landscape studies, historical sources and genetics are emphasised throughout this chronological journey as are the latest theoretical advances and practical discoveries,

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making this the most advanced narrative of British archaeology available.

What Archaeological Discoveries Reveal about the Past

The Ice Age

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Laterality in Sports

Modern Humans

On Human Origins, Spirituality and the Meaning of Life

The Story of the Thames

This book explores the ways in which contemporary evolutionary thinking might inform the study of the peculiarly human phenomenon of symbolic culture, including language, ritual, religion, religion and art. It draws together contributions from biologists, linguists, anthropologists and archaeologists in order to establish common ground where collaboration and interaction will be especially productive and challenging in the study of those fundamental aspects of our biology that makes us human.* Multidisciplinary*

An evolutionary approach to culture

The Celts called them "fairy cattle" and the Greeks associated them with the hunter goddess Artemis, but for most people today, deer are seen as cute, like Bambi, or noble, like the Monarch of the Glen. They can be a danger when we're driving at night, or they can simply be a tasty venison burger. But while we may not often eat humble pie—an actual pie filled with deer organs—deer still appear in religion and mythology, on coats of arms, in fine art, and in literature ranging from The Yearling to Harry Potter and The Chronicles of Narnia. In *Deer*, veterinarian and deer farmer John Fletcher brings together the cultural and natural history of these dignified animals. Fletcher traces the evolution of deer, explaining why deer grow and cast aside their antlers each year and describing their symbolism in various cultures throughout history. He divulges the true story of Rudolph and Santa's other reindeer and explores the role deer have played as prized objects of the hunt in Europe, Asia, and America. Wide-ranging and richly illustrated, *Deer* provides a fresh perspective on this graceful, powerful animal that will appeal to hunters and gatherers alike.

A Fairweather Eden Random House

Laterality in Sports: Theories and Applications summarizes recent research on the neurophysiological foundations of handedness, and how left or right lateralization (affecting primary hand use, foot use, and eye use) affects motor control, performance outcome, skill acquisition, and achievement of sports expertise—both for one-on-one sports and team sports. As laterality research has matured, greater focus has been given to applications in human endeavours and, in particular, sport. The book examines performance within individual sports, and discusses the coaching ramifications of coaching to a specific lateralization preference. Describes the neurophysiological foundations of handedness Discusses the origins and development of laterality in humans Summarizes the impact of laterality on motor control and sports performance Encompasses research on both individual and team sports Includes research on skill acquisition, coaching, and development of expertise Covers research on laterality in preferred hand, foot, and eye use in sports

Werner Herzog's 2011 film *Cave of Forgotten Dreams*, about the painted caves at Chauvet, France brought a glimpse of Europe's extraordinary prehistory to a popular audience. But paleolithic cave paintings, stunning as they are, form just a part of a story

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that begins with the arrival of the first humans to Europe 1.3 million years ago, and culminates in the achievements of Greece and Rome. In *Europe before Rome*, T. Douglas Price takes readers on a guided tour through dozens of the most important prehistoric sites on the continent, from very recent discoveries to some of the most famous and puzzling places in the world, like Chauvet, Stonehenge, and Knossos. This volume focuses on more than 60 sites, organized chronologically according to their archaeological time period and accompanied by 200 illustrations, including numerous color photographs, maps, and drawings. Our understanding of prehistoric European archaeology has been almost completely rewritten in the last 25 years with a series of major findings from virtually every time period, such as Ötzi the Iceman, the discoveries at Atapuerca, and evidence of a much earlier eruption at Mt. Vesuvius. Many of the sites explored in the book offer the earliest European evidence we have of the typical features of human society--tool making, hunting, cooking, burial practices, agriculture, and warfare. Introductory prologues to each chapter provide context for the wider changes in human behavior and society in the time period, while the author's concluding remarks offer expert reflections on the enduring significance of these places. Tracing the evolution of human society in Europe across more than a million years, *Europe before Rome* gives readers a vivid portrait of life for prehistoric man and woman.

The Origins of Asymmetry in Brains, Bodies, Atoms, and Cultures

The Neanderthals Rediscovered: How Modern Science Is Rewriting Their Story

A Year in the Life: Survival Strategies in the Lower Palaeolithic

Uncivilised Genes

Human evolution and the urban paradox

Assembling the Acheulean World, 1673–2020s

Archaeology

Modern Humans is a vivid account of the most recent—and perhaps the most important—phase of human evolution: the appearance of anatomically modern people (*Homo sapiens*) in Africa less than half a million years ago and their later spread throughout the world. Leaving no stone unturned, John F. Hoffecker demonstrates that *Homo sapiens* represents a “major transition” in the evolution of living systems in terms of fundamental changes in the role of non-genetic information. *Modern Humans* synthesizes recent findings from genetics (including the rapidly growing body of ancient DNA), the human fossil record, and archaeology relating to the African origin and global dispersal of anatomically modern people. Hoffecker places humans in the broad context of the evolution of life, emphasizing the critical role of genetic and non-genetic forms of information in living systems as well as how changes in the storage, transmission, and translation of information underlie major transitions in evolution. He also draws on information and complexity theory to explain the emergence of *Homo sapiens* in Africa several hundred thousand years ago and the rapid and unprecedented spread of our species into a variety of environments in Australia and Eurasia, including the Arctic and Beringia, beginning between 75,000 and 60,000 years ago. This magisterial work will appeal to all with an interest in the ever-fascinating field of human evolution.

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"In the first complete chronological narrative of the species from emergence to extinction...archaeologist Dimitra Papagianni and science historian Michael Morse have shaped a gem." —Nature In recent years, the common perception of the Neanderthals has been transformed, thanks to new discoveries and paradigm-shattering scientific innovations. It turns out that the Neanderthals' behavior was surprisingly modern: they buried the dead, cared for the sick, hunted large animals in their prime, harvested seafood, and communicated with spoken language. Meanwhile, advances in DNA technologies are compelling us to reassess the Neanderthals' place in our own past. For hundreds of thousands of years, Neanderthals evolved in Europe parallel to *Homo sapiens* evolving in Africa, and, when both species made their first forays into Asia, the Neanderthals may even have had the upper hand. In this important volume, Dimitra Papagianni and Michael A. Morse compile the first full chronological narrative of the Neanderthals' dramatic existence—from their evolution in Europe to their expansion to Siberia, their subsequent extinction, and ultimately their revival in popular novels, cartoons, cult movies, and television commercials.

500,000 years in the life of a river.

Arthur Walker-Jones presents an Earth-focused reading of the second book of Psalms, focusing upon the many nonhuman animals that appear repeatedly within the text. In the first commentary to explore the implications of the natural and cultural history of animals for the interpretation of Psalms, Walker-Jones moves beyond the standard treatment of animals as mere metaphors for human concerns, or background to human stories. Instead, Walker-Jones draws upon the interdisciplinary field of animal studies, incorporating this into ecocritical analysis and arguing for the similarity between the two approaches, including recognizing that the oppression and liberation of humans is interrelated with the oppression and liberation of Earth and all its creatures. Walker-Jones looks at foxes, sheep, goats, cattle, doves, snakes, lions, snails, dogs, and deer, which all appear in Psalms 42–72, taking into account that many of these animals co-evolved with humans and created the particular ecological niche of the highlands east of the Mediterranean. Perceiving Earth in various ways—as refuge, as enemy, as Rock, and as fertile and joyous—this volume brings an entirely new ecological perspective to the Psalms.

The discovery of the remains of 'Boxgrove Man', a 'Missing Link' hominid half a million years old in chalk pits in Sussex made world headlines in May 1994. This was the most sensational archeological find in the UK since Piltdown Man - only this time it was not a hoax. Continuing excavation by site archeologist Mark Roberts has enabled him and his team to build up a picture of this, the first Englishman, and to open up a unique window on life in Britain before the Ice Age. Because these human remains, the artefacts surrounding them and the remains of the local flora and fauna - including elephants and rhinoceroses of an extinct species - are preserved in an unprecedented way, we now discover how

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our ancestors hunted, ate, manufactured the implements they needed to survive and interacted; these were neither the opportunist scavengers nor the mindless killers that they have previously been supposed to be. Boxgrove, therefore, represents a revolutionary view of the origins of mankind, and changes our understanding of what it means to be human.

A Site-by-Site Tour of the Stone, Bronze, and Iron Ages

Human Evolution and the Archaeology of Thought

Inevitable Humans in a Lonely Universe

Shamans, Trance and the Afterlife

Prehistoric Belief

Right Hand, Left Hand

Europe before Rome

Originally published by the Australian Institute of Aboriginal

Studies, this facsimile edition of Professor Sylvia J. Hallam's

classic 1975 work, Fire and Hearth, includes a substantial

Afterword by the author, and a Preface by Emeritus Professor

John Mulvaney. The book has been produced in light of the

considerable new interest in the subject of Aboriginal land

*management before European settlement in Australia. *** "The*

land the English settled was not as God made it. It was as the

Aborigines made it." Such is the challenging claim which opens

Sylvia Hallam's majestic pioneer memoir on the interconnections

between Aboriginal society, Country and the varied applications

of deliberate firing. -- from the Preface by Professor John

Mulvaney [Subject: History, Anthropology, Ethnography,

Australian Studies, Aboriginal Studies, Land Conservation]

This book is an introduction to the study of artefacts, setting

them in a social context rather than using a purely scientific

approach. Drawing on a range of different cultures and

extensively illustrated, Archaeological Artefacts and Material

Culture covers everything from recovery strategies and recording

procedures to interpretation through typology, ethnography and

experiment, and every type of material including wood, fibers,

bones, hides and adhesives, stone, clay, and metals. With over

seventy illustrations with almost fifty in full colour, this

book not only provides the tools an archaeologist will need to

interpret past societies from their artefacts, but also a keen

appreciation of the beauty and tactility involved in working

with these fascinating objects. This is a book no archaeologist

should be without, but it will also appeal to anybody interested

in the interaction between people and objects.

This book provides a new look at the climatic history of the

last 2.6 million years during the ice age, a time of extreme

climatic fluctuations that have not yet ended. This period also

coincides with important phases of human development from

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Neanderthals to modern humans, both of whom existed side by side during the last cold stage of the ice age. The ice age has seen dramatic expansions of glaciers and ice sheets, although this has been interspersed with relatively short warmer intervals like the one we live in today. The book focuses on the changing state of these glaciers and the effects of associated climate changes on a wide variety of environments (including mountains, rivers, deserts, oceans and seas) and also plants and animals. For example, at times the Sahara was green and colonized by humans, and Lake Chad covered 350,000 km² - larger than the United Kingdom. What happened during the ice age can only be reconstructed from the traces that are left in the ground. The work of the geoscientist is similar to that of a detective who has to reconstruct the sequence of events from circumstantial evidence. The book draws on the specialisms and experience of the authors who are experts on the glacial history of the Earth. Readership: Undergraduate and postgraduate students studying the Quaternary, researchers, and anyone interested in climate change, environmental change and geology. The book provides a rich collection of illustrations and photographs to help the readers at all levels visualise the dramatic consequences of glacier expansions during the Ice Age.

In Uncivilised Genes: Human Evolution and the Urban Paradox, Gustav Milne explores how we can reconfigure our lifestyles and urban environments, based on an understanding of our prehistoric past, in order to bring about a richer future for mankind. We evolved as hunter-gatherers over a period of more than three million years: living off the land within small tribal societies in a symbiotic working relationship with nature. Understanding this legacy and how our evolution has determined our social, psychological, nutritional and physiological needs means we can adopt what Milne has termed evolutionary-concordant behaviours: behaviours designed to reconcile the fundamental mismatch between our current urban lifestyles and our ancient biology. Our ancestral diets and lifestyles could hold the secret not only to enhancing our health and happiness but also to combating the prevalence of western lifestyle diseases such as obesity, type 2 diabetes and various types of cancer to name but a few. Milne expertly evaluates these challenges - along with many other issues pertinent to our urban wellbeing - and proposes solutions within our reach, including adaptations to our dietary regimes, lifestyle-embedded activities and school and university curriculums, and a re-engineering of our built environment to better suit our needs. Drawing on what archaeological evidence reveals about Palaeolithic and Mesolithic diets, as well as on anthropological studies of contemporary hunter-gatherer

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societies, Uncivilised Genes offers timely insights to enhance our collective and individual health and prosperity. It also shines a spotlight on the evolutionary determinants of social behaviour, and looks at how we can bridge the gap between the world we are creating and the un-urbanised, uncivilised world to which we are genetically and psychologically better adapted. This book is not a rejection of modernity. Neither is it a call to reject towns and seek solace in a rural idyll, nor another celebrity-endorsed fad diet or exercise programme. Rather, it is a comprehensive chronicle of the myriad factors that continue to contribute to our societal and personal wellbeing, and a broad-ranging blueprint for a richer future more in tune with our basic physiology, psychology, metabolism and mindset. Essential reading for anyone interested in living a healthier, more evolutionary-concordant life. Contents include: 1. In the Beginning; 2. Genesis; 3. A View of the Garden; 4. A Hunger Game; 5. Food for Thought; 6. Body of Evidence; 7. A Life Less Sedentary; 8. Lost Tribes; 9. Hunter-Gatherer vs. Football-Shopper; 10. Music and Words; 11. Green and Pleasant; 12. Central Park; 13. Old Town; 14. Urban Regeneration; 15. Revelations.

*At once a pioneering study of evolution and an accessible and lively reading experience, a book that offers the most convincing—and radical—explanation for how and why the human mind evolved. Consciousness, morality, creativity, language, and art: these are the traits that make us human. Scientists have traditionally explained these qualities as merely a side effect of surplus brain size, but Miller argues that they were sexual attractors, not side effects. He bases his argument on Darwin's theory of sexual selection, which until now has played second fiddle to Darwin's theory of natural selection, and draws on ideas and research from a wide range of fields, including psychology, economics, history, and pop culture. Witty, powerfully argued, and continually thought-provoking, *The Mating Mind* is a landmark in our understanding of our own species.*

Bones, Stones and Molecules

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Archaeological Artefacts as Material Culture

Recent Research

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The Mating Mind

Controlling nature?

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