

Fossil Hunter Macsci

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History VIPs: Mary Anning

At the turn of the twentieth century, smallpox claimed the lives of two million people per year. By 1979, the disease had been eradicated and victory was declared across the globe. Yet the story of smallpox remains the exception, as today a host of deadly contagions, from polio to AIDS, continue to threaten human health around the world. Spanning three centuries, *The End of Plagues* weaves together the discovery of vaccination, the birth and growth of immunology, and the fight to eradicate the world's most feared diseases. From Edward Jenner's discovery of vaccination in 1796, to the early nineteenth-century foundling voyages in which chains of orphans, vaccinated one by one, were sent to colonies around the globe, to the development of polio vaccines and the stockpiling of smallpox as a biological weapon in the Cold War, world-renown immunologist John Rhodes charts our fight against these plagues, and shows how vaccinations gave humanity the upper hand. Today, aid groups including the Bill and Melinda Gates Foundation and the World Health Organization have made the eradication of polio a priority, and Rhodes takes us behind the scenes to witness how soon we may be celebrating the eradication of polio.

The First Fossil Hunters

A rich and exuberant group biography of the early geologists, the people who were first to excavate from the layers of the world its buried history. The birth of geology was fostered initially by gentlemen whose wealth supported their interests, but in the nineteenth century, it was advanced by clergymen, academics, and women whose findings expanded the field. *Reading the Rocks* brings to life this eclectic cast of characters who brought passion, eccentricity, and towering intellect to the discovery of how Earth was formed. Geology opened a window on the planet's ancient past. Contrary to the Book of Genesis, the rocks and fossils dug up showed that Earth was immeasurably old. Moreover, fossil evidence revealed progressive changes in life forms. It is no coincidence that Charles Darwin was a keen

geologist. Acclaimed biographer and science writer Brenda Maddox's story goes beyond William Smith, the father of English geology; Charles Lyell, the father of modern geology; and James Hutton, whose analysis of rock layers unveiled what is now called "deep time." She also explores the lives of fossil hunter Mary Anning, the Reverend William Buckland, Darwin, and many others--their triumphs and disappointments, and the theological, philosophical, and scientific debates their findings provoked. *Reading the Rocks* illustrates in absorbing and revelatory details how this group of early geologists changed irrevocably our understanding of the world.

Wild Cats of the World

Janet Ivey, Emmy-award winning PBS children's TV host and president of Explore Mars, tells the fascinating story of Mary Anning, the fossil hunter from Lyme Regis, England who introduced to the modern world a revolutionary, scientific approach to understanding prehistoric life. Using the device of a letter written from Mary at the end of her life to Mary herself as a young child, Janet narrates Mary's story punctuated with illustrations and fun facts in an engaging way from start to finish. The older Mary describes her great discoveries, her friendships with notable scientists, and her love of exploration. At the end, Mary Anning invites the reader to write "A Letter to Your Genius Self" which encourages the child to consider her talents and dreams for the future.

The Story of Life in 25 Fossils

Dinosaur Hunter

More and more people are retiring South of the Border. And why not? Pension dollars that barely buy the necessities in the United States will stretch luxuriantly in Latin America, covering everything from servants to sirloin steaks. Yet, a move like this may seem intimidating. That's why *Your Guide to Retiring to Mexico, Costa Rica, and Beyond* was written - to help you choose the best place to spend your work-free years, and to guide you in making the move comfortably and easily. Author Shelley Emling, a seasoned traveler, takes you on a tour of the four best South-of-the-Border retirement spots: Mexico, Costa Rica, Guatemala, and Ecuador. For each country, all aspects of living are explained, from local customs and culture, to living costs, to rentals and real estate, to telephone service, and much much more. Lively and detailed, this book answers all your questions: Should I buy or rent? Which are the best neighborhoods for retirees? Should I bring a car to my new home? Must I apply for residency? What should I do about auto and health coverage? Can I bring my pet? How will I meet other Americans? So make your retirement years the best years of your life. With *Your Guide to Retiring*, your memories are waiting to be made.

Science Comics: Sharks

"A fascinating thriller, well crafted and relentless A cross between Tony Hillerman and Larry McMurtry, this is one hell of a good read."--Douglas Preston, author of

Tyrannosaur Canyon and Blasphemy The cowboys who work on the ranchlands of Montana expect more than their fair share of trouble. One of them is Mike Wire, a former homicide detective. Mike is about to learn murder and mayhem can happen under Montana's big skies, too. Beneath the earth lie enough dinosaur fossils to fill several museum collections---and make a fortune for whoever claims them first. Soon he will have to combine everything he learned as a cop with everything he knows as a cowboy to protect the people and the land he could never live without.

Marie Curie and Her Daughters

An account of the search for the missing link between humans and apes journeys into the competitive world of fossil hunting and the lives of competing scientists determined to uncover the mysteries of human evolution.

Reading the Rocks

Mary Anning, born in a poor family, lived in Lyme Regis and from an early age was fascinated by the fossils, then called snake stones and devil's toenails, that could then be picked up on the beaches. She became far more interested when she realised that these could be sold to the gentry who had grown into avid collectors. She was supported by her family in her enterprise but was often ripped off by the buyers and derided by the scientists. One person came to her rescue: Elizabeth Philpot, daughter of a wealthy family who had settled in Dorset to escape the stultifying respectability of genteel London society. The two women, of different ages and very different class and background, became unlikely friends but the relationship was to take on stranger twists as the excitement of the fossil discoveries - Mary Anning finds the first complete plesiosaur - turns to religious difficulties as the importance of these finds begins to spread.

The Fossil Hunter

Award-winning novelist Joan Thomas blends fact and fiction, passion and science in this stunning novel set in 19th-century Lyme Regis, England — the seaside town that is the setting of both *The French Lieutenant's Woman* and Jane Austen's *Persuasion*. More than 40 years before the publication of *The Origin of Species*, 12-year-old Mary Anning, a cabinet-maker's daughter, found the first intact skeleton of a prehistoric dolphin-like creature, and spent a year chipping it from the soft cliffs near Lyme Regis. This was only the first of many important discoveries made by this incredible woman, perhaps the most important paleontologist of her day. Henry de la Beche was the son of a gentry family, owners of a slave-worked estate in Jamaica where he spent his childhood. As an adolescent back in England, he ran away from military college, and soon found himself living with his elegant, cynical mother in Lyme Regis, where he pursued his passion for drawing and painting the landscapes and fossils of the area. One morning on an expedition to see an extraordinary discovery — a giant fossil — he meets a young woman unlike anyone he has ever met... From the Hardcover edition.

The Invention of Tradition

Poplars and willows form an important component of forestry and agricultural systems, providing a wide range of wood and non-wood products. This book synthesizes research on poplars and willows, providing a practical worldwide overview and guide to their basic characteristics, cultivation and use, issues, problems and trends. Prominence is given to environmental benefits and the importance of poplar and willow cultivation in meeting the needs of people and communities, sustainable livelihoods, land use and development.

The Fossil Hunter

For over 400 million years, sharks have been the ocean's top predator! They're vital to our ecosystem, but their importance is often overshadowed by our own fear—even though they hardly ever threaten humans. Dive in for an intimate look at the dynamic hammerhead, infamous great white, primordial megalodon, and the gentle nurse shark, the rare species that will let a scuba diver pet them! This book is filled to the gills with jaw-dropping illustrations and razor-sharp facts that shed light on these fascinating creatures of the deep, including their undersea terrain, cunning adaptability, and staggering variety. Every volume of Science Comics offers a complete introduction to a particular topic—dinosaurs, coral reefs, the solar system, volcanoes, bats, flying machines, and more. These gorgeously illustrated graphic novels offer wildly entertaining views of their subjects. Whether you're a fourth grader doing a natural science unit at school or a thirty year old with a secret passion for airplanes, these books are for you!

Ammonite

Over the past twenty years, paleontologists have made tremendous fossil discoveries, including fossils that mark the growth of whales, manatees, and seals from land mammals and the origins of elephants, horses, and rhinos. Today there exists an amazing diversity of fossil humans, suggesting we walked upright long before we acquired large brains, and new evidence from molecules that enable scientists to decipher the tree of life as never before. The fossil record is now one of the strongest lines of evidence for evolution. In this engaging and richly illustrated book, Donald R. Prothero weaves an entertaining though intellectually rigorous history out of the transitional forms and series that dot the fossil record. Beginning with a brief discussion of the nature of science and the "monkey business of creationism," Prothero tackles subjects ranging from flood geology and rock dating to neo-Darwinism and macroevolution. He covers the ingredients of the primordial soup, the effects of communal living, invertebrate transitions, the development of the backbone, the reign of the dinosaurs, the mammalian explosion, and the leap from chimpanzee to human. Prothero pays particular attention to the recent discovery of "missing links" that complete the fossil timeline and details the debate between biologists over the mechanisms driving the evolutionary process. Evolution is an absorbing combination of firsthand observation, scientific discovery, and trenchant analysis. With the teaching of evolution still an issue, there couldn't be a better moment for a book clarifying the nature and value of fossil evidence. Widely recognized as a leading expert in his field, Prothero demonstrates that the transformation of life on this planet is far more awe inspiring than the narrow view of extremists.

Dorothy Crowfoot Hodgkin

For more than a century, the study of hunting and gathering societies has been central to the development of both archaeology and anthropology as academic disciplines, and has also generated widespread public interest and debate. The Oxford Handbook of the Archaeology and Anthropology of Hunter-Gatherers provides a comprehensive review of hunter-gatherer studies to date, including critical engagements with older debates, new theoretical perspectives, and renewed obligations for greater engagement between researchers and indigenous communities. Chapters provide in-depth archaeological, historical, and anthropological case-studies, and examine far-reaching questions about human social relations, attitudes to technology, ecology, and management of resources and the environment, as well as issues of diet, health, and gender relations - all central topics in hunter-gatherer research, but also themes that have great relevance for modern global society and its future challenges. The Handbook also provides a strategic vision for how the integration of new methods, approaches, and study regions can ensure that future research into the archaeology and anthropology of hunter-gatherers will continue to deliver penetrating insights into the factors that underlie all human diversity.

Global Re-introduction Perspectives

Mary Anning (1799-1847) was one of the pioneers of the emerging science of geology - the first woman palaeontologist to make important discoveries. After her death, many of her discoveries were credited to the naturalists who had bought her specimens. This book reveals the little-known life of this extraordinary woman from undeserved obscurity.

Essential Oils

This report discusses the relationship between population and environmental change, the forces that mediate this relationship, and how population dynamics specifically affect climate change and land-use change.

The Best Democracy Money Can Buy

The Oxford Handbook of the Archaeology and Anthropology of Hunter-Gatherers

"Here, my previous edition of Viruses, Plagues, & History is updated to reflect both progress and disappointment since that publication. This edition describes newcomers to the range of human infections, specifically, plagues that play important roles in this 21st century. The first is Middle East Respiratory Syndrome (MERS), an infection related to Sudden Acute Respiratory Syndrome (SARS). SARS was the first new-found plague of this century. Zika virus, which is similar to yellow fever virus in being transmitted by mosquitos, is another of the recent scourges. Zika appearing for the first time in the Americas is associated with birth defects and a paralytic condition in adults. Lastly, illness due to hepatitis viruses were

observed prominently during the second World War initially associated with blood transfusions and vaccine inoculations. Since then, hepatitis virus infections have afflicted millions of individuals, in some leading to an acute fulminating liver disease or more often to a life-long persistent infection. A subset of those infected has developed liver cancer. However, in a triumph of medical treatments for infectious diseases, pharmaceuticals have been developed whose use virtually eliminates such maladies. For example, Hepatitis C virus infection has been eliminated from almost all (>97%) of its victims. This incredible result was the by-product of basic research in virology as well as cell and molecular biology during which intelligent drugs were designed to block events in the hepatitis virus life-cycle"--

Daring to Dig

Describes the life of Mary Anning, who discovered many of the best and most complete fossils in nineteenth-century England, yet received little credit for her work.

Advanced Functional Materials

This book explores examples of this process of invention and addresses the complex interaction of past and present in a fascinating study of ritual and symbolism.

Mary Anning's Curiosity

The true story of Folke Bernadotte's heroic rescue of 30,000 prisoners during WWII In one of the most amazing rescues of WWII, the Swedish head of the Red Cross rescued more than 30,000 people from concentration camps in the last three months of the war. Folke Bernadotte did so by negotiating with the enemy — shaking hands with Heinrich Himmler, the head of the Gestapo. Time was of the essence, as Hitler had ordered the destruction of all camps and everyone in them. A Forgotten Hero chronicles Folke's life and extraordinary journey, from his family history and early years to saving thousands of lives during WWII and his untimely assassination in 1948. A straightforward and compelling narrative, A Forgotten Hero sheds light on this important and heroic historical figure.

Hunting Dinosaurs in the Bad Lands of the Red Deer River, Alberta, Canada

Mary Anning, considered the world's greatest fossilist, discovered her first big find at the age of twelve. This novel is an imaginative re-creation of her childhood in early nineteenth-century Lyme Regis. Mary was born in 1799 in Lyme Regis, England, to a poor family. She and her older brother were the only two of ten children to survive. Her father, a carpenter and part-time fossil hunter, taught his children to look for fossils. When her father injured himself and was unable to work, Mary quit school and took up fossil hunting full-time to help support her family, a task that became even more important when her father died, leaving the Annings in debt. At the age of twelve, Mary, with her older brother Joe, found what they

believed to be the skeleton of a gigantic crocodile, the Great Croc of the legends. Between dodging her rival fossil hunter, the Curiman, and the sheer work of carefully digging out the fossil, Mary took almost a year to excavate what would later be termed the Ichthyosaurus. Mary Anning may have been uneducated, poor and a woman, but her life's work of fossil hunting led her to make many discoveries that influenced our understanding of prehistoric creatures and the age of the Earth. In 2010, Mary was named among the ten British women who have most influenced the history of science. Charles Darwin even cited Mary's fossilized creatures as evidence in his book *On the Origin of Species*. In this triumphant novel about scientific discovery, Monica Kulling brings Mary Anning and her world to life for young readers.

The End of Plagues

At a time when women were excluded from science, a young girl made a discovery that marked the birth of paleontology and continues to feed the debate about evolution to this day. Mary Anning was only twelve years old when, in 1811, she discovered the first dinosaur skeleton--of an ichthyosaur--while fossil hunting on the cliffs of Lyme Regis, England. Until Mary's incredible discovery, it was widely believed that animals did not become extinct. The child of a poor family, Mary became a fossil hunter, inspiring the tongue-twister, "She Sells Sea Shells by the Seashore." She attracted the attention of fossil collectors and eventually the scientific world. Once news of the fossils reached the halls of academia, it became impossible to ignore the truth. Mary's peculiar finds helped lay the groundwork for Charles Darwin's theory of evolution, laid out in his *On the Origin of Species*. Darwin drew on Mary's fossilized creatures as irrefutable evidence that life in the past was nothing like life in the present. A story worthy of Dickens, *The Fossil Hunter* chronicles the life of this young girl, with dirt under her fingernails and not a shilling to buy dinner, who became a world-renowned paleontologist. Dickens himself said of Mary: "The carpenter's daughter has won a name for herself, and deserved to win it." Here at last, Shelley Emling returns Mary Anning, of whom Stephen J. Gould remarked, is "probably the most important unsung (or inadequately sung) collecting force in the history of paleontology," to her deserved place in history.

Evolution

The story of two nineteenth-century scientists who revealed one of the most significant and exciting events in the natural history of this planet: the existence of dinosaurs.

Your Guide to Retiring to Mexico, Costa Rica, and Beyond

A brief and accessible introduction to molecular biology for students and professionals who want to understand this rapidly expanding field. Recent research in molecular biology has produced a remarkably detailed understanding of how living things operate. Becoming conversant with the intricacies of molecular biology and its extensive technical vocabulary can be a challenge, though, as introductory materials often seem more like a barrier than an invitation to the

study of life. This text offers a concise and accessible introduction to molecular biology, requiring no previous background in science, aimed at students and professionals in fields ranging from engineering to journalism—anyone who wants to get a foothold in this rapidly expanding field. It will be particularly useful for computer scientists exploring computational biology. A reader who has mastered the information in *The Processes of Life* is ready to move on to more complex material in almost any area of contemporary biology.

Viruses, Plagues, and History

Ranging from the largest - the Tiger to the smallest species - the Rusty-spotted Cat and Black-footed Cat, the world's wild cats are some of the most beautiful, ferocious and feared carnivores in the world. *Wild Cats of the World* provides a detailed account of each species of wild cat, examining their importance throughout history and the future of some of the most endangered breeds. Using stunning photography and magnificent colour plates by top wildlife artist Priscilla Barrett to depict each cat in detail, *Wild Cats of the World* examines the characteristics of all 38 species, as well as their history, distribution and current IUCN status.

The Life of a Fossil Hunter

'She sells sea shells on the sea shore' - and she really did! This rhyme is thought to have been written about Mary Anning, an amazing fossilist and dinosaur expert, who was almost unknown at the time she lived. This biography explores the life of Mary Anning, from her first fossil finds at the age of ten to her sales of important discoveries to wealthy scientists. Mary's fossil finds made a great contribution to what scientist understood about pre-historic life. Through the story of Mary Anning, readers learn about life and society in the 1800s and Victorian Britain. We learn what it was like to be born into a poor family and about the roles of women in society and in the field of science. Readers will learn to draw conclusions from the evidence provided - a great basis for class discussions. History VIP biographies each look at the life of a famous Briton telling the stories of these Very Important People with clear, lively text. Amazing facts are added with feature panels and lively illustrations give visual information of the time and society the VIP lived in. With these key biographies students learn how individual people's actions have shaped the course of history. Key terms are defined in an easy-to-use glossary encouraging readers to use historical terms in their own work. History VIPs biographies focus on key subjects in the history curriculum for Key Stages 2 and 3, exploring the impact of exceptional figures in history and the society and culture in Britain at the time that they lived. Features include: In other news - these panels give context and help readers to understand the society and events of the wider world in which the subject lived True or False - questions lead students to question information and to interact with the facts they are presented with. What they said - quote features bring the subjects to life using their own words! WOW! - Boxes add humorous or amazing information to astound the reader and bring out the hilarious side of history

Mary Anning

The Remarkable true story of science superstar Joan Wiffen, whose fossil discoveries proved that dinosaurs lived in ancient New Zealand. Once there was a clever girl who liked searching for interesting things on the ground. She wanted to know why shells could be found in rocks so far away from the sea. But her father thought education was no use to a girl, so Joan had to leave school. Many years later, she bought an old map. To her amazement, she saw that it marked a treasure hoard. Not of gold and jewels, but of dinosaur bones. Nobody had ever found dinosaur fossils in New Zealand before - in fact, top scientists had said it was impossible. But Joan was intrigued. She decided to learn everything she could about palaeontology and hunt these dinosaur fossils. This is the fifth picture book in an acclaimed series of true stories about the lives of famous Kiwi written by David Hill and magnificently illustrated by Phoebe Morris.

A Forgotten Hero

A new portrait of the two-time Nobel winner and her two daughters Focusing on the first family in science, this biography of Marie Curie plumbs the recesses of her relationships with her two daughters, extraordinary in their own right, and presents the legendary scientist to us in a fresh way. Although the common image is that of a shy introvert toiling away in her laboratory, highly praised science writer Shelley Emling shows how Marie Curie was nothing short of an iconoclast. Her affair with a younger and married man drew the enmity of a xenophobic French establishment, who denied her entry to the Academy of Sciences and tried to expel her from France. But she was determined to live life how she saw fit, and passed on her resilience to her daughters. Emling draws on personal letters released by Curie's only granddaughter to show how Marie influenced her daughters yet let them blaze their own paths. Irene followed her mother's footsteps into science and was instrumental in the discovery of nuclear fission. Eve traveled the world as a foreign correspondent and then moved on to humanitarian missions. Emling also shows how Curie, following World War I, turned to America for help. Few people know about Curie's close friendship with American journalist Missy Meloney, who arranged speaking tours across the country for Marie and Eve and Irene. Months on the road, charming audiences both large and small, endeared the Curies to American women and established a lifelong relationship with the United States that formed one of the strongest connections of Marie's life. Without the financial support of American women, Marie might not have been able to go on with her research. Continuing the family story into the third generation, Emling also interviews Marie Curie's granddaughter Helene Joliot-Curie, who is an accomplished physicist in her own right. She reveals why her grandmother was a lot more than just a scientist and how Marie's trips to America forever changed her. Factually rich, personal and original, this is an engrossing story about the most famous woman in science that rips the cover off the myth and reveals the real person, friend, and mother behind it.

The Dinosaur Hunters: A True Story of Scientific Rivalry and the Discovery of the Prehistoric World (Text Only Edition)

The Fossil Chronicles

Griffins, Cyclopes, Monsters, and Giants--these fabulous creatures of classical mythology continue to live in the modern imagination through the vivid accounts that have come down to us from the ancient Greeks and Romans. But what if these beings were more than merely fictions? What if monstrous creatures once roamed the earth in the very places where their legends first arose? This is the arresting and original thesis that Adrienne Mayor explores in *The First Fossil Hunters*. Through careful research and meticulous documentation, she convincingly shows that many of the giants and monsters of myth did have a basis in fact--in the enormous bones of long-extinct species that were once abundant in the lands of the Greeks and Romans. As Mayor shows, the Greeks and Romans were well aware that a different breed of creatures once inhabited their lands. They frequently encountered the fossilized bones of these primeval beings, and they developed sophisticated concepts to explain the fossil evidence, concepts that were expressed in mythological stories. The legend of the gold-guarding griffin, for example, sprang from tales first told by Scythian gold-miners, who, passing through the Gobi Desert at the foot of the Altai Mountains, encountered the skeletons of Protoceratops and other dinosaurs that littered the ground. Like their modern counterparts, the ancient fossil hunters collected and measured impressive petrified remains and displayed them in temples and museums; they attempted to reconstruct the appearance of these prehistoric creatures and to explain their extinction. Long thought to be fantasy, the remarkably detailed and perceptive Greek and Roman accounts of giant bone finds were actually based on solid paleontological facts. By reading these neglected narratives for the first time in the light of modern scientific discoveries, Adrienne Mayor illuminates a lost world of ancient paleontology.

Curiosity

Shortlisted for the Duff Cooper Prize and the Marsh Biography Award Dorothy Hodgkin (1910-1994) was renowned for her important work on penicillin, vitamin B12 and insulin. Fully engaged with the political and social currents of her time, she participated in some of the greatest upheavals of the 20th century: women's education; the globalisation of science; the rise and fall of communism; and international peace movements. She was awarded the Nobel Prize for Chemistry in 1964 for her work in protein crystallography and remains the only British woman to have won a Nobel Prize in the sciences to date. She was Margaret Thatcher's tutor at Oxford, and lobbied Thatcher against the use of nuclear weapons. Thatcher, meanwhile, had a portrait of Hodgkin up in Downing Street. A wife, mother and grandmother, she cared deeply about the well-being of individuals in all cultures, and is a long-standing role model for women in STEM. She used some of her Nobel Prize winning money to set up a nursery at Somerville College, Oxford, to help other women in continue their work and studies in science. *Dorothy Hodgkin: A Life* is the definitive biography of one of Britain's most brilliant and unique scientists.

The Environmental Implications of Population Dynamics

"Palast is astonishing, he gets the real evidence no one else has the guts to dig up." Vincent Bugliosi, author of *None Dare Call it Treason* and Helter Skelter Award-winning investigative journalist Greg Palast digs deep to unearth the ugly facts that few reporters working anywhere in the world today have the courage or ability to

cover. From East Timor to Waco, he has exposed some of the most egregious cases of political corruption, corporate fraud, and financial manipulation in the US and abroad. His uncanny investigative skills as well as his no-holds-barred style have made him an anathema among magnates on four continents and a living legend among his colleagues and his devoted readership. This exciting collection, now revised and updated, brings together some of Palast's most powerful writing of the past decade. Included here are his celebrated Washington Post exposé on Jeb Bush and Katherine Harris's stealing of the presidential election in Florida, and recent stories on George W. Bush's payoffs to corporate cronies, the payola behind Hillary Clinton, and the faux energy crisis. Also included in this volume are new and previously unpublished material, television transcripts, photographs, and letters.

The First Human

Every fossil tells a story. Best-selling paleontology author Donald R. Prothero describes twenty-five famous, beautifully preserved fossils in a gripping scientific history of life on Earth. Recounting the adventures behind the discovery of these objects and fully interpreting their significance within the larger fossil record, Prothero creates a riveting history of life on our planet. The twenty-five fossils portrayed in this book catch animals in their evolutionary splendor as they transition from one kind of organism to another. We witness extinct plants and animals of microscopic and immense size and thrilling diversity. We learn about fantastic land and sea creatures that have no match in nature today. Along the way, we encounter such fascinating fossils as the earliest trilobite, *Olenellus*; the giant shark *Carcharocles*; the "fishibian" *Tiktaalik*; the "Frogamander" and the "Turtle on the Half-Shell"; enormous marine reptiles and the biggest dinosaurs known; the first bird, *Archaeopteryx*; the walking whale *Ambulocetus*; the gigantic hornless rhinoceros *Paraceratherium*, the largest land mammal that ever lived; and the *Australopithecus* nicknamed "Lucy," the oldest human skeleton. We meet the scientists and adventurers who pioneered paleontology and learn about the larger intellectual and social contexts in which their discoveries were made. Finally, we find out where to see these splendid fossils in the world's great museums. Ideal for all who love prehistoric landscapes and delight in the history of science, this book makes a treasured addition to any bookshelf, stoking curiosity in the evolution of life on Earth.

Poplars and Willows

Winner of the Lambda and Tiptree Awards • "A knockout . . . Strong, likable characters, a compelling story, and a very interesting take on gender."—Ursula K. Le Guin
Change or die. These are the only options available on planet Jeep. Centuries earlier, a deadly virus shattered the original colony, killing the men and forever altering the few surviving women. Now, generations after the colony lost touch with the rest of humanity, a company arrives to exploit Jeep—and its forces find themselves fighting for their lives. Terrified of spreading the virus, the company abandons its employees, leaving them afraid and isolated from the natives. In the face of this crisis, anthropologist Marghe Taishan arrives to test a new vaccine. As she risks death to uncover the women's biological secret, she finds that she too is changing—and realizes that not only has she found a home on Jeep, but that she alone carries the seeds of its destruction. . . . Ammonite is an

unforgettable novel that questions the very meanings of gender and humanity. As readers share in Marghe's journey through an alien world, they too embark on a parallel journey of fascinating self-exploration. "A powerful story of connection, allegiance, and obligation. Read Nicola Griffith's book—and keep an eye out for her name in the future."—Vonda N. McIntyre "A marvelous blend of high adventure and mind-boggling social speculation."—Kim Stanley Robinson

The Dinosaur Hunter

"With wit and authority, Falk tells the parallel stories of two fossil discoveries that surprised the world, revealing the larger significance of these finds. Her lively recounting combines new historical research with her first-hand involvement in controversial interpretations."—Pat Shipman, author of *The Animal Connection* and *The Man Who Found the Missing Link* "An absorbing and engagingly personal account, by a leading participant, of two of the major "brain wars" that have raged along the path to our current understanding of human evolution."—Ian Tattersall, author of *The Fossil Trail* and *Human Origins* "In *The Fossil Chronicles*, Falk engages us with a 'tale of two brains'. While navigating the surfaces of these ancient brains, she reveals the convolutions of scientific controversies and how personalities and paleopolitics shape the ways we think about human evolution."—Nina G. Jablonski, author of *Skin: A Natural History*

A Practical Guide to Critical Thinking

This book takes an interdisciplinary look at the development of essential oils from the agricultural to consumer products sectors. The book espouses a product/market driven and entrepreneurial approach rather than a commodity approach, offering many new ideas and tools to assist the reader in the area of essential oil development. This book uniquely covers both the technical and business aspects in a detail that will inform readers of the complexities of essential oil development, production and business development. This book is the result of the author's thirty years experience in the industry.

Megalodon

The Processes of Life

A practical introduction to critical thinking across various disciplines Knowing how to think critically about what to believe and what to do is essential for success in both academic and professional environments. *A Practical Guide to Critical Thinking* introduces readers to the concepts, methods, and standards for thinking critically about reasons and arguments in virtually any area of practice. While most literature on critical thinking focuses on its formal applications within philosophy, this book offers a broad conception of critical thinking and explores its practical relevance to conducting research across a wide variety of disciplines, including business, education, and the biological sciences. While the book pursues an interdisciplinary approach to critical thinking, providing examples and illustrations from diverse subjects and fields of research, it also provides strategies to help

readers identify the methods and standards that are characteristic of critical thinking in their chosen branches of learning, in their workplace, and in their own lives. The concept of an argument is extended beyond its philosophical roots to include experimentation, testing, measurement, policy development and assessment, and aesthetic appreciation as activities that require critical thinking. The logical, core concepts of critical thinking are presented in a rigorous yet informal way, with creative and practical strategies for defining, analyzing, and evaluating reasons and arguments wherever they are found. Each chapter ends with a "Mistakes to Avoid" section as well as a variety of exercises designed to help readers integrate and extend the chapter's lessons. A Practical Guide to Critical Thinking is an excellent book for courses on critical thinking and logic at the upper-undergraduate and graduate levels. It is also an appropriate reference for anyone with a general interest in critical thinking skills.

Jurassic Mary

Documents the historical first fossil find of twelve-year-old Mary Anning in 1811, offering insight into the pivotal significance of the discipline of paleontology and how it impacted the scientific and religious communities as well as ongoing debates about evolution.

Remarkable Creatures

Because of their unique properties (size, shape, and surface functions), functional materials are gaining significant attention in the areas of energy conversion and storage, sensing, electronics, photonics, and biomedicine. Within the chapters of this book written by well-known researchers, one will find the range of methods that have been developed for preparation and functionalization of organic, inorganic and hybrid structures which are the necessary building blocks for the architecture of various advanced functional materials. The book discusses these innovative methodologies and research strategies, as well as provides a comprehensive and detailed overview of the cutting-edge research on the processing, properties and technology developments of advanced functional materials and their applications. Specifically, *Advanced Functional Materials: Compiles the objectives related to functional materials and provides detailed reviews of fundamentals, novel production methods, and frontiers of functional materials, including metallic oxides, conducting polymers, carbon nanotubes, discotic liquid crystalline dimers, calixarenes, crown ethers, chitosan and graphene. Discusses the production and characterization of these materials, while mentioning recent approaches developed as well as their uses and applications for sensitive chemiresistors, optical and electronic materials, solar hydrogen generation, supercapacitors, display and organic light-emitting diodes, functional adsorbents, and antimicrobial and biocompatible layer formation. This volume in the Advanced Materials Book Series includes twelve chapters divided into two main areas: Part 1: Functional Metal Oxides: Architecture, Design and Applications and Part 2: Multifunctional Hybrid Materials: Fundamentals and Frontiers*

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