

## Argentina Dinosaur dig including Titanosaur small group tours

### Reading List

#### **Walking on Eggs: The Astonishing Discovery of Thousands of Dinosaur Eggs in the Badlands of Patagonia**

by Luis Chiappe (Author), Lowell Dingus (Author)

"Walking on Eggs" is the riveting inside story behind one of the most significant paleontological discoveries in history. In November 1997, Luis M. Chiappe and Lowell Dingus led an elite team of paleontologists and geologists into the rugged and desolate badlands of Argentina. Unsure of what they would find, Chiappe and Dingus knew that this region had produced many spectacular specimens of dinosaurs and fossil birds over the last century. Nothing could have prepared them, however, for the headline-grabbing discovery they were about to make: a massive dinosaur nesting ground covering more than a square mile and littered with tens of thousands of large, unhatched dinosaur eggs.

Containing the first fossils of embryonic dinosaur skin ever found, the eggs gave rise to a host of mysteries. What species laid the eggs, and when? How were they preserved? And most intriguingly, what ancient catastrophe -- deeply rooted more than 70 million years in the past -- prevented them from hatching? In clear, comprehensible language, Chiappe and Dingus frame their scientific investigations within the context of a gripping detective story, illustrating how they used paleontological and geological evidence to establish the identity and age of the eggs, as well as how they established the cause of death. Chiappe and Dingus also recount a return trip to the badlands in 1999 in which they set out to learn more about dinosaur social and reproductive behavior.

Their investigations once again unearthed a key piece of the historic puzzle: the bones of a twenty-foot predatory, carnivorous dinosaur. As they decipher the evidence -- divining origins, discovering identities, and pinpointing possible causes of extinction -- Chiappe and Dingus interweave their field adventures with chapters illuminating the crucial precedents behind their groundbreaking work. Complementing the text are beautiful hand-drawn reproductions of what the dinosaurs and their landscape might have looked like, created by an artist who joined the expedition team in Patagonia. Infused with passion and an infectious sense of awe, "Walking on Eggs" illustrates the ups and downs of the scientific process and invites dinosaur lovers of all ages to experience the exhilarating sense of discovery.

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#### **Patagonian Mesozoic Reptiles (Life of the Past)**

by Zulma Gasparini (Editor), Rodolfo A. Coria (Editor), Leonardo Salgado (Editor)

Distant and exotic, Patagonia has been one of the most attractive places for explorers and paleontologists. The amazing diversity of its fauna and flora, the richness of its fossil record, and the variety of its paleoenvironments, all contribute to making Patagonia the focal point for the study of the history of life on Earth. *Patagonian Mesozoic Reptiles* gathers in a single volume—and for the first time—our current knowledge about the evolution of the region and its reptiles. Each contribution amply demonstrates that Patagonia during the Mesozoic provides a distinct perspective on the evolution of life during a key chapter in the geological history of this region.

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### **Flying Dinosaurs: How Fearsome Reptiles Became Birds**

by John Pickrell

The discovery of stunning, feathered dinosaur fossils coming out of China since 2006 suggest that these creatures were much more bird-like than paleontologists previously imagined. Further evidence—bones, genetics, eggs, behavior, and more—has shown a seamless transition from fleet-footed carnivores to the ancestors of modern birds.

Mixing colorful portraits with news on the latest fossil findings and interviews with leading paleontologists in the United States, China, Europe, and Australia, John Pickrell explains and details dinosaurs' development of flight. This special capacity introduced a whole new range of abilities for the animals and helped them survive a mass extinction, when thousands of other dinosaur species that once populated the Earth did not. Pickrell also turns his journalistic eye toward the stories behind the latest discoveries, investigating the role of the Chinese black market in trading fossils, the controversies among various dinosaur hunters, the interference of national governments intent on protecting scientific information, and the race to publish findings first that make this research such a dynamic area of science.

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### **The Rise and Fall of the Dinosaurs: The Untold Story of a Lost World**

by Steve Brusatte

66 million years ago the dinosaurs were wiped from the face of the earth. Today, Dr. Steve Brusatte, one of the leading scientists of a new generation of dinosaur hunters, armed with cutting edge technology, is piecing together the complete story of how the dinosaurs ruled the earth for 150 million years.

The world of the dinosaurs has fascinated on book and screen for decades – from early science fiction classics like *The Lost World*, to *Godzilla* terrorizing the streets of Tokyo, and the monsters of

Jurassic Park. But what if we got it wrong? In *The Rise and Fall of the Dinosaurs*, top dinosaur expert Brusatte, tells the real story of how dinosaurs rose to dominate the planet. Using the fossil clues that have been gathered using state of the art technology, Brusatte follows these magnificent creatures from their beginnings in the Early Triassic period, through the Jurassic period to their final days in the Cretaceous and the legacy that they left behind.

Along the way, Brusatte introduces us to modern day dinosaur hunters and gives an insight into what it's like to be a paleontologist. *The Rise and Fall of the Dinosaurs* is full of thrilling accounts of some of his personal discoveries, including primitive human-sized tyrannosaurs, monstrous carnivores even larger than T. rex, and feathered raptor dinosaurs preserved in lava from China.

At a time when Homo sapiens has existed for less than 200,000 years and we are already talking about planetary extinction, *The Rise and Fall of the Dinosaurs* is a timely reminder of what humans can learn from the magnificent creatures who ruled the earth before us.

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### **Weird Dinosaurs: The Strange New Fossils Challenging Everything We Thought We Knew**

by John Pickrell

From the outback of Australia to the Gobi Desert of Mongolia and the savanna of Madagascar, award-winning science writer and dinosaur enthusiast John Pickrell embarks on a world tour of new finds, meeting the fossil hunters working at the frontier of discovery. He reveals the dwarf dinosaurs unearthed by an eccentric Transylvanian baron; an aquatic, crocodile-snouted carnivore bigger than T. Rex, which once lurked in North African waterways; a Chinese dinosaur with wings like a bat; and a Patagonian sauropod so enormous it weighed more than two commercial jet airliners.

Other surprising discoveries hail from Alaska, Siberia, Canada, Burma, and South Africa. Why did dinosaurs grow so huge? How did they spread across the world? Did they all have feathers? What do sauropods have in common with 1950s vacuum cleaners? The stuff of adventure movies and scientific revolutions, *Weird Dinosaurs* examines the latest breakthroughs and new technologies radically transforming our understanding of the distant past. Pickrell opens a vivid portal to a brand new age of fossil discovery, in which fossil hunters are routinely redefining what we know and how we think about prehistory's most iconic and fascinating creatures.

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### **Dinosaurs of the Flaming Cliffs: The Thrilling Account of One of the Largest Dinosaur Expeditions of the 20th Century by the Expedition Leader**

by Michael Novacek

In 1993, an international team of paleontologists from the American Museum of Natural History and the Mongolian Academy of Sciences, in the fourth year of a multiyear expedition, made one of the most miraculous fossil discoveries in history. They unearthed a treasure trove of Cretaceous dinosaurs and mammals, including several new species, that has already helped to reshape our understanding of the dinosaur age. In *Dinosaurs of the Flaming Cliffs*, team leader Michael Novacek, Provost of Science of the American Museum of Natural History and Curator of Vertebrate Paleontology, re-creates the day-to-day drama of field exploration over the past six years in the Gobi and recounts his and his colleagues' historic discoveries, reported in front-page headlines across the world. In a remarkable narrative that interweaves expedition chapters with in-depth scientific discussions on the nature and importance of the fossil record, Novacek takes us on a journey that explores the very nature of scientific inquiry and dinosaur research.

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### **Pterosaurs: Natural History, Evolution, Anatomy**

by Mark Whitton

For 150 million years, the skies didn't belong to birds--they belonged to the pterosaurs. These flying reptiles, which include the pterodactyls, shared the world with the nonavian dinosaurs until their extinction 65 million years ago. Some pterosaurs, such as the giant azhdarchids, were the largest flying animals of all time, with wingspans exceeding thirty feet and standing heights comparable to modern giraffes. This richly illustrated book takes an unprecedented look at these astonishing creatures, presenting the latest findings on their anatomy, ecology, and extinction. *Pterosaurs* features some 200 stunning illustrations, including original paintings by Mark Witton and photos of rarely seen fossils. After decades of mystery, paleontologists have finally begun to understand how pterosaurs are related to other reptiles, how they functioned as living animals, and, despite dwarfing all other flying animals, how they managed to become airborne. Here you can explore the fossil evidence of pterosaur behavior and ecology, learn about the skeletal and soft-tissue anatomy of pterosaurs, and consider the newest theories about their cryptic origins. This one-of-a-kind book covers the discovery history, paleobiogeography, anatomy, and behaviors of more than 130 species of pterosaur, and also discusses their demise at the end of the Mesozoic. \* The most comprehensive book on pterosaurs ever published \* Features some 200 illustrations, including original paintings by the author \* Covers every known species and major group of pterosaurs \* Describes pterosaur anatomy, ecology, behaviors, diversity, and more \* Encourages further study with 500 references to primary pterosaur literature

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### **Dinosaurs: How They Lived and Evolved**

by Darren Naish

From the Victorian golden age of dinosaur discovery to the cutting edge of twenty-first century fossil forensics 'Dinosaurs' unravels the mysteries of the most spectacular group of animals our planet has ever seen. Despite facing drastic climatic conditions including violent volcanic activity, searing temperatures and rising and plunging sea levels, the dinosaurs formed an evolutionary dynasty that ruled the Earth for more than 150 million years. Darren Naish and Paul Barrett reveal the latest scientific findings about dinosaur anatomy, behaviour, and evolution. They also demonstrate how dinosaurs survived the great extinction at the end of the Cretaceous Period and continued to evolve and thrive alongside us, existing today as an incredibly diverse array of birds that are the direct descendants of theropods. 'Dinosaurs' is lavishly illustrated with specimens from the Natural History Museum's own collections, along with explanatory diagrams and charts and full-colour artistic reconstructions of dinosaur behaviour.

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