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Microbial mats and Earth's Early Biosphere - David Des Marais (SETI Talks) Biofilm and microbial mats

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Earth Has a New Continent, But It's HidingHow bacteria \talk\'' - Bonnie Bassler

Exoplanets 101 | National GeographicElectromagnetism 101 | National Geographic Lactic Acid Bacteria and Fermented Foods: Benefits—Dr.Berg Chapter 1- Introduction to Microbiology Best of the E/V Nautilus 2016 Expedition | Nautilus Live Introduction To Microbiology Stars 101 | National Geographic Stone Giants - Iran, Tehran, Vardij | The Cosmic Connectome—Cosmos: Possible Worlds Marine Ecology Lecture: Seagrass, Saltmarsh, Mangroves Coastal ecosystems are highly dynamic and global change models need your local-scale data #CWTC24 Investigating heterogeneous geochemistry of brines and sediments from the Salard de Llamara KAUST Research: Speargrass recruit sandy microbes for help Joelle Sasse Schl.â pfer introduces her research on the plant root-microbiome interaction FEMS Microbiology Ecology Webinar on Microbes vs Metals Life on the Edge: A short film about biofilms

A murmur is heard from the depths of time. Life and Earth are engaged in a dialog that has lasted for four billion years. Sometimes it ' s a whisper, sometimes a roar. One part sometimes gets the upper hand, dominates the discussion and sets the agenda. But mostly the two have some kind of mutual understanding, and the murmur goes on. Most of us don ' t listen. Nora does. She listens, and she tries to understand. Nora Noffke has focused her scientific career on the interaction between the living and the non-living. This is no mean task in an academic world where you are usually either this or that, such as either a biologist or a geologist. The amount of stuff you need to grasp is so large that it usually feels better to sit comfortably on one chair, rather than to risk falling between them. Geobiology is not for the faint of heart. Nora ' s focus is on that all-important biological substance mucus, or EPS (ext- cellular polymeric substance). EPS is the oil in the machinery, the freeway to travel for many small animals and protists, the coat of armour for others, the mortar in the brick wall for yet others. For microbes such as cyanobacteria it may be the world they built, the world they live, eat, fight, multiply, and die in.

Paleoecology is a discipline that uses evidence from fossils to provide an understanding of ancient environments and the ecological history of life through geological time. This text covers the fundamental approaches that have provided the foundation for present paleoecological understanding, and outlines new research areas in paleoecology for managing future environmental and ecological change. Topics include the use of actualism in paleoecology, development of paleoecological models for paleoenvironmental reconstruction, taphonomy and exceptional fossil preservation, evolutionary paleoecology and ecological change through time, and conservation paleoecology. Data from studies of invertebrates, vertebrates, plants and microfossils, with added emphasis on bioturbation and microbial sedimentary structures, are discussed. Examples from marine and terrestrial environments are covered, with a particular focus on periods of great ecological change, such as the Precambrian-Cambrian transition and intervals of mass extinction. Readership: This book is designed for advanced undergraduates and beginning graduate students in the earth and biological sciences, as well as researchers and applied scientists in a range of related disciplines.

The purpose of this book is to show the essential and indispensable role of prokaryotes in the evolution of aliving world. The evolutionary success of prokaryotes is explained together with their role in the evolution of the geosphere, the biosphere and its functioning, as well as their ability to colonize all biotopes, including the most extreme ones. We consider that all past and present living beings emerged from prokaryotes and have interacted with them. Forces and mechanisms presented in the various theories of evolution apply to prokaryotes. The major stages of their evolution and biodiversity are also described. Finally, it is emphasized that prokaryotes are living organisms that provide indisputable evidence of evolutionary processes. Many examples of ongoing evolution in prokaryotes, observable at the human scale, are provided.

A student-friendly textbook that describes ancient soils, how they may be identified, and their use in paleoenvironmental reconstruction Ancient soils contain vital mineralogical, geochemical, textural, and paleontological information about the continental environments in which they formed. Advances in isotope geochemistry and sequence-stratigraphic models allow evermore detailed reconstructions of environmental change from paleosols, and new insights into such diverse topics as atmospheric chemistry, global change, paleoecology, geobiology and mass extinction. This book educates readers about the field of paleopedology and how it remains a key area of investigation for geologists and environmental scientists seeking to learn about, and reconstruct, the condition and evolution of paleoenvironments. Presented in three sections—Soils and Paleosols; Factors in Soil Formation, and Fossil Record of Soils—Soils of the Past: An Introduction to Paleopedology describes the main types of ancient soil, procedures for identifying and studying them, their classification and, most significantly, a wide array of examples of how paleosols have been used for paleoenvironmental reconstruction. The book is an excellent reflection of the current state of knowledge and can be widely adopted over many disciplines. All chapters have been revised and updated to reflect advances in soil science in the last two decades New tables display a wealth of new data added since the 2nd edition published in 2001 New figures have been added and line art has been redrawn to improve clarity and promote understanding References have been updated throughout Soils of the Past, 3rd Edition is written for advanced undergraduates studying paleopedology as part of a degree in geology, environmental science, or physical geography, and for interested professional earth scientists.

Choice Recommended Title, August 2019 Read an exclusive interview with Professor Vera Kolb here. Astrobiology is the study of the origin, evolution, distribution, and future of life on Earth. This exciting and significant field of research also investigates the potential existence and search for extra-terrestrial life in the Solar System and beyond. This is the first handbook in this burgeoning and interdisciplinary field. Edited by Vera Kolb, a highly respected astrobiologist, this comprehensive resource captures the history and current state of the field. Rich in information and easy to use, it assumes basic knowledge and provides answers to questions from practitioners and specialists in the field, as well as providing key references for further study. Features: Fills an important gap in the market, providing a comprehensive overview of the field Edited by an authority in the subject, with chapters written by experts in the many diverse areas that comprise astrobiology Contains in-depth and broad coverage of an exciting field that will only grow in importance in the decades ahead

This book presents a comprehensive, contemporary review of tidal environments and deposits. Individual chapters, each written by world-class experts, cover the full spectrum of coastal, shallow-marine and even deep-marine settings where tidal action influences or controls sediment movement and deposition. Both siliciclastic and carbonate deposits are covered. Various chapters examine the dynamics of sediment transport by tides, and the morphodynamics of tidal systems. Several chapters explore the occurrence of tidal deposits in the stratigraphic context of entire sedimentary basins. This book is essential reading for both coastal geologists and managers, and geologists interested in extracting hydrocarbons from complex tidal successions.

Geobiology Paleocology Prokaryotes and Evolution Soils of the Past Handbook of Astrobiology Principles of Tidal Sedimentology FOSSIL RECORD 7 Fossil Record 5 Geobiologie Der Stromatolithe The Cnidaria, Past, Present and Future Trace Fossils as Indicators of Sedimentary Environments Frontiers of Astrobiology Mineralogy Encyclopedia of Geology Encyclopedia of Astrobiology Characterizing Modern Microbialites and The Geobiological Processes Underlying Their Formation Fossil Record 6 Volume 2 The Kinney Brick Quarry Lagerst.â tte, Late Pennsylvanian of New Mexico Biological Soil Crusts: An Organizing Principle in Drylands Earliest Life on Earth: Habitats, Environments and Methods of Detection

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This volume presents a broad panorama of the current status of research of invertebrate animals considered belonging to the phylum Cnidaria, such as hydra, jellyfish, sea anemone, and coral. In this book the Cnidarians are traced from the Earth ' s primordial oceans, to their response to the warming and acidifying oceans. Due to the role of corals in the carbon and calcium cycles, various aspects of cnidarian calcification are discussed. The relation of the Cnidaria with Mankind is approached, in accordance with the Editors ' philosophy of bridging the artificial schism between science, arts and Humanities. Cnidarians' encounters with humans result in a broad spectrum of medical emergencies that are reviewed. The final section of the volume is devoted to the role of Hydra and Medusa in mythology and art.

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