



THE LIVING UNIVERSE

NASA

and the development of
Astrobiology

Steven J. Dick AND James E. Strick

The Living Universe Nasa And The Development Of Astrobiology

Léo Pomar



The Living Universe Nasa And The Development Of Astrobiology:

The Living Universe Steven J. Dick, James Edgar Strick, 2004 *The Living Universe* is a comprehensive historically nuanced study of the formation of the new scientific discipline of exobiology and its transformation into astrobiology Among many other themes the authors analyze how research on the origin of life became wedded to the search for life on other planets and for extraterrestrial intelligence Many scientific breakthroughs of the last forty years were either directly supported or indirectly spun off from NASA's exobiology program including cell symbiosis the discovery of the Archaea and the theories of Nuclear Winter and the asteroid extinction of the dinosaurs Exobiology and astrobiology have generated public fascination enormous public relations benefits for NASA and on the flip side of the coin some of the most heated political wrangling ever seen in government science funding Dick and Strick provide a riveting overview of the search for life throughout the universe with all of the Earthly complexities of a science in the making and the imperfect humans called scientists Their book will appeal to biologists historians and philosophers of science planetary scientists including geologists and an educated general readership interested in the investigation of life on other planets

THE LIVING UNIVERSE: NASA AND THE DEVELOPMENT OF ASTROBIOLOGY. STEVEN J. DICK, **Assessment of the NASA Astrobiology Institute** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Review of the NASA Astrobiology Institute, 2008-04-20 Astrobiology is a scientific discipline devoted to the study of life in the universe its origin evolution distribution and future In 1997 NASA established an Astrobiology program the NASA Astrobiology Institute NAI as a result of a series of new results from solar system exploration and astronomical research in the mid 1990s together with advances in the biological sciences To help evaluate the NAI NASA asked the NRC to review progress made by the Institute in developing the field of astrobiology This book presents an evaluation of NAI's success in meeting its goals for fostering interdisciplinary research training future astrobiology researchers providing scientific and technical leadership exploring new research approaches with information technology and supporting outreach to K 12 education programs

When Biospheres Collide: A History of NASA's Planetary Protection Programs Michael Meltzer, 2012-01-27 PRINT FORMAT ONLY NOTE NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT OVERSTOCK SALE Significantly reduced list price This new book from the NASA History Series tackles an interesting duo of biological problems that will be familiar to anybody who has seen photos of Apollo astronauts quarantined after their return to Earth Namely how do we avoid contaminating celestial bodies with Earthly germs when we send spacecraft to study these bodies and how do we avoid spreading foreign biological matter from space when our robotic and human spacefarers return to Earth Biological matter from an external system could potentially cause an unchecked epidemic either on Earth or in space so strict precautions are necessary Each time a space vehicle visits another world it runs the risk of forever changing that extraterrestrial environment We are surrounded on Earth by a m lange of different microorganisms and if some of these hitchhike onboard a space mission they could

contaminate and start colonies on a different planet Such an occurrence would irrevocably alter the nature of that world compromise all future scientific exploration of the body and possibly damage any extant life on it By inadvertently carrying exotic organisms back to Earth on our spacecraft we also risk the release of biohazardous materials into our own ecosystem Such concerns were recognized by scientists even before the 1957 launch of Sputnik This book presents the history of planetary protection by tracing the responses to the above concerns on NASA s missions to the Moon Mars Venus Jupiter Saturn and many smaller bodies of our solar system The book relates the extensive efforts put forth by NASA to plan operations and prepare space vehicles that return exemplary science without contaminating the biospheres of other worlds or our own To protect irreplaceable environments NASA has committed to conducting space exploration in a manner that is protective of the bodies visited as well as of our own planet Historical Studies in the Societal Impact of Spaceflight

Steven J. Dick,2015 **Contact with Extraterrestrial Intelligence and Human Law** Michael Bohlander,2023-08-07 It is statistically unlikely that humans are the only intelligent species in the universe Nothing about the others will be known until contact is made beyond a radio signal from space that merely tells us they existed when it was sent That contact may occur tomorrow in a hundred years or never If it does it will be a high risk scenario for humanity It may be peaceful or hostile Relying on alien altruism and benign intentions is wishful thinking We need to begin identifying as a planetary species and develop a global consensus on how to respond in either scenario *NASA 50th Anniversary Proceedings: NASA's First 50 Years: Historical Perspectives* Steven J. Dick,National Aeronautics and Space Administration,2010-07-07 On 29 July 1958 President Dwight D Eisenhower signed the National Aeronautics and Space Act creating the National Aeronautics and Space Administration NASA which became operational on 1 October of that year Over the next 50 years NASA achieved a set of spectacular feats ranging from advancing the well established field of aeronautics to pioneering the new fields of Earth and space science and human spaceflight In the midst of the geopolitical context of the Cold War 12 Americans walked on the Moon arriving in peace for all mankind Humans saw their home planet from a new perspective with unforgettable Apollo images of Earthrise and the Blue Marble as well as the pale blue dot from the edge of the solar system A flotilla of spacecraft has studied Earth while other spacecraft have probed the depths of the solar system and the universe beyond In the 1980s the evolution of aeronautics gave us the first winged human spacecraft the Space Shuttle and the International Space Station stands as a symbol of human cooperation in space as well as a possible way station to the stars With the Apollo fire and two Space Shuttle accidents NASA has also seen the depths of tragedy In this volume a wide array of scholars turn a critical eye toward NASA s first 50 years probing an institution widely seen as the premier agency for exploration in the world carrying on a long tradition of exploration by the United States and the human species in general Fifty years after its founding NASA finds itself at a crossroads that historical perspectives can only help to illuminate **Eco-Phenomenology: Life, Human Life, Post-Human Life in the Harmony of the Cosmos** William S. Smith,Jadwiga S. Smith,Daniela Verducci,2018-07-03

This volume presents discussions on a wide range of topics focused on eco phenomenology and the interdisciplinary investigation of contemporary environmental thought Starting out with a Tymieniecka Memorial chapter the book continues with papers on the foundations theories readings and philosophical sources of eco phenomenology In addition it examines issues of phenomenological anthropology ecological perspectives of the human relationship to nature and phenomenology of the living body and the virtual body Furthermore the volume engages in a dialogue with contemporary behavioral sciences on topics such as eco alienation sustainability and the human relationship to the earth in the context of the cosmos *The Impact of Discovering Life beyond Earth* Steven J. Dick,2015-10-26 The search for life in the Universe once the domain of science fiction is now a robust research program with a well defined roadmap from studying the extremes of life on Earth to exploring the possible niches for life in the Solar System and discovering thousands of planets far beyond it In addition to constituting a major scientific endeavor astrobiology is one of the most popular topics in astronomy and is of growing interest to a broad community of thinkers from across the academic spectrum In this volume distinguished philosophers theologians anthropologists historians and scientists discuss the big questions about how the discovery of extraterrestrial life whether intelligent or microbial would impact society Their remarkable and often surprising findings challenge our foundational concepts of what the discovery of alien life may hold for humankind Written in easily accessible language this thought provoking collection engages a wide audience of readers from all backgrounds **Critical issues in the history of spaceflight** Steven J. Dick,2018

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **The Living Universe Nasa And The Development Of Astrobiology**

In a global inundated with screens and the cacophony of immediate communication, the profound power and mental resonance of verbal beauty usually fade into obscurity, eclipsed by the continuous barrage of sound and distractions. Yet, nestled within the musical pages of **The Living Universe Nasa And The Development Of Astrobiology**, a fascinating function of fictional beauty that pulses with organic emotions, lies an memorable trip waiting to be embarked upon. Published with a virtuoso wordsmith, that mesmerizing opus manuals viewers on an emotional odyssey, gently revealing the latent potential and profound affect embedded within the intricate internet of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is main subjects, dissect its charming writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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