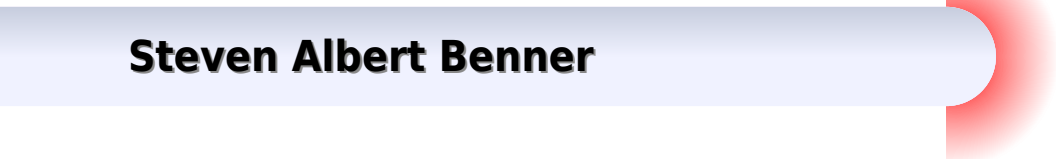


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this extensively revised paperback edition John Parrington explains the nature and possibilities of these new scientific developments which could usher in a brave new world We must rapidly come to understand its implications if we are to direct its huge potential to the good of humanity and the planet

Size Limits of Very Small Microorganisms National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Commission on Physical Sciences, Mathematics, and Applications, Steering Group for the Workshop on Size Limits of Very Small Microorganisms, 1999-09-13

How small can a free living organism be On the surface this question is straightforward in principle the smallest cells can be identified and measured But understanding what factors determine this lower limit and addressing the host of other questions that follow on from this knowledge require a fundamental understanding of the chemistry and ecology of cellular life The recent report of evidence for life in a martian meteorite and the prospect of searching for biological signatures in intelligently chosen samples from Mars and elsewhere bring a new immediacy to such questions How do we recognize the morphological or chemical remnants of life in rocks deposited 4 billion years ago on another planet Are the empirical limits on cell size identified by observation on Earth applicable to life wherever it may occur or is minimum size a function of the particular chemistry of an individual planetary surface These questions formed the focus of a workshop on the size limits of very small organisms organized by the Steering Group for the Workshop on Size Limits of Very Small Microorganisms and held on October 22 and 23 1998 Eighteen invited panelists representing fields ranging from cell biology and molecular genetics to paleontology and mineralogy joined with an almost equal number of other participants in a wide ranging exploration of minimum cell size and the challenge of interpreting micro and nano scale features of sedimentary rocks found on Earth or elsewhere in the solar system This document contains the proceedings of that workshop It includes position papers presented by the individual panelists arranged by panel along with a summary for each of the four sessions of extensive roundtable discussions that involved the panelists as well as other workshop participants

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About Life Paul S. Agutter, Denys N. Wheatley, 2007-03-06 Thanks to the popular media and to books by Dawkins Fortey Gould Margulis and other writers people are informed about many aspects of biology Everyone seems to know a little about evolution for example and about DNA and the possibilities good and bad afforded by research in molecular genetics Most people know some of the arguments for and against the likelihood of life on other planets And so on We are glad that these pieces of information have become so widely available However we do not assume any particular knowledge other than the most basic in this book Our aim is to address general questions rather than specific issues We want to enable our readers to join their disparate pieces of knowledge about biology together The most basic of these general questions and perhaps the most difficult can be expressed in beguilingly simple words What is life What does modern biology tell us about the essential differences between living organisms and the inanimate world An attempt to answer this question takes us on a journey through almost the whole of contemporary cell and molecular biology which occupies the first half of the book The journey is worth the effort The provisional answer we attain provides a coherent unifying context in which we can discuss evolution the origin of life extraterrestrial life the meaning of intelligence the evolution of the human brain and the nature of mind

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