

An evolutionary biologist's view of reality

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Abstract

The practice of evolutionary biology requires a specific view of the world, different to the reductionism of chemistry, physics, and genetic engineering. Central to this view is the recognition that nature consists of complex, variable, living entities, interrelated into systems that undergo continuing change through time. Therefore the objective of an evolutionary biologist is not the description of patterns or properties of isolated objects, but an understanding of a dynamic process by which life continues in its potentially infinite variety of forms.

The scientific worldview as presented by educational institutions and the media during the last two centuries has been dominated by discoveries in the "hard sciences" - physics, chemistry, astronomy. Recently molecular biology was included, and this is essentially a branch of chemistry and physics. This worldview is enhanced by the practical applications of engineering, accountancy, warmongering and technologised medicine. Even today, a knowledge of biology is considered less essential for an average member of society than knowledge of computers. This "scientific" worldview proves to be highly defective when applied to solving the psychological problems of individuals and the socio-political conflicts of the modern world (a recent example: Matare 1999). Old religious and other idealistic solutions still seem to prevail in these spheres and are sometimes portrayed as contrasting with the scientific perspective (Farber 1998).

Here I present yet another point of view based on 25 years of research and teaching of evolutionary biology. It is a personal view that is intended to serve as an example of how an active study of biology may change the way we see the world.

The impotence of "scientific" solutions to human problems results from most people's inappreciation of variability as an essential ingredient of natural phenomena. Evolutionary biology constructed an alternative, but no less scientific, intellectual framework over a century ago. It is, however, still poorly understood by the majority of scientists, some molecular biologists included, and even less so by the general public. In biology it has been largely replaced in the last generation by an approach similar to engineering, in which the objective of the biologist's work is to control and manipulate life by direct interference with molecular processes inside the cells (Pauly 1987).

Theoretical biology hitherto busied itself with analyses of the phenomenon of life itself, but not venturing beyond its confines. However, the definition of life becomes blurred as we learn more about the world, while the interactions of biology with other disciplines are expanding to the extent that biology may be considered on a par with such noble disciplines as physics and mathematics. Therefore the views and experiences of biologists will influence the way scientists and societies think and thus will contribute to the formulation of new theoretical standpoints.

Characteristically, a biologist approaches reality from the point of view of a comfortably sized, but complex phenomenon of life rather than from that of the grandiose mechanics of the universe, or the enormous energy stores inside an atom. Life is a series

Purpose In A World Of Chance A Biologists View

Peter A. Corning



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Purpose in a World of Chance William Homan Thorpe, 1978 **Environmental Concepts, Policies, and Strategies** John Rose, 1991 This compilation of 20 papers published in the International journal of environmental studies in the last three years shows results obtained from surveys into the economic social and political background of environmental decisions and planning These results encompass a wide range of topics relevant to the study of the environment The main areas under discussion are politics control strategies determinism rural planning and styles of environmental and agricultural strategies Annotation copyrighted by Book News Inc Portland OR **Foolishness to the Greeks** Lesslie Newbigin, 1988-06-01 How can biblical authority be a reality for those shaped by the modern world This book treats the First World as a mission field offering a unique perspective on the relationship between the gospel and current society by presenting an outsider's view of contemporary Western culture **The Rehabilitation of Whitehead** George R. Lucas Jr., 1989-10-15 Lucas treats Whitehead within the framework of major themes in current Anglo American analytic philosophy viewed against the backdrop of significant historical trends in European and American thought since the Enlightenment This most misunderstood of twentieth century philosophers is critically interpreted here Whitehead had developed 50 years ago some ideas only now emerging in analytic philosophy Lucas examines the significance of Whitehead's thought for current epistemology of science for the anti foundationalism debate and more generally for modal logic action theory philosophical psychology and the philosophy of mind He shows how some recent analytic philosophy is now developing ideas concerning language personal identity and other topics that are found in Whitehead Lucas concludes with recent problems in relativity theory and quantum mechanics indicating how these bear on the philosophy of science and on the task of forging a comprehensive understanding of nature He examines the debates concerning Einstein and Whitehead on relativity and analyzes the work of Bohm Prigogine and others who have found Whitehead's categories useful for their own success Whitehead is shown to be a historical figure of great importance not an idiosyncratic thinker isolated along with a few enthusiastic followers from the mainstream of contemporary philosophy With Russell Whitehead participated in the same philosophical world that gave rise to analytic philosophy *Hartshorne and the Metaphysics of Animal Rights* Daniel A. Dombrowski, 1988-07-08 Charles Hartshorne is one of the premier metaphysicians and philosophers of religion in the twentieth century He has written extensively on animals both as a philosopher of nature and as an expert on bird song Since the publication of *Creative Synthesis and Philosophic Method* in 1970 he has devoted a great deal of attention to animals Among the main issues he advances is that the relationship between human beings and animals helps us to better understand our relationship with God **The Evolution of American Educational Technology** Paul Saettler, 2004-03-01 The primary purpose of this book is to trace the theoretical methodological foundations of American educational technology It must be emphasized that this work is essentially as history of the process of educational technology rather than of products in the

form of devices or media Although media have played an important role in educational technology the reader should not lose sight of the central process which characterizes and underlies the true historical meaning and function of educational technology Moreover the assumption is made that all current theory methodology and practice rests upon the heritage of the past Indeed a common problem in the field has been the failure in many instances to take adequate account of past history in planning for the present or the future A related purpose of this book is to provide a selective survey of research in educational technology as it relates to the American public schools Such research reviews are not intended to be comprehensive but were included because of their historical importance and their relevance in understanding the process of educational technology

The Liberation of Life Charles Birch, John B. Cobb, 1985-01-10 This book is about the liberation of the concept of life from the bondage fashioned by the interpreters of life ever since biology began and about the liberation of the life of humans and non humans alike from the bondage of social structures and behaviour which now threatens the fullness of life's possibilities if not survival itself It falls into a tradition of writings about human problems from a perspective informed by biology It rejects the mechanistic model of life dominant in the Western world and develops an alternative ecological model which is applicable to the life of the cell and the life of the human community For the first time it brings together in one work the insights of modern biology with those of a modern holistic philosophy and a liberal theology in a way which challenges conventional approaches to science agriculture sociology politics economics development and liberation movements

Brave New Mind Peter Dodwell, 2000-06-08 How was the standard model of the mind developed Is it adequate And is there a place in this model for the creative genius of artists scientists and mathematicians This book looks at how scientists investigate the nature of the mind and the brain providing answers to these important questions It opens with a description of the historical roots of cognitive science and analyzes the strengths and weaknesses of the standard model of the mind including its inability to account for the many dramatic features of human achievement The final chapter develops the notion that human creativity and the unfolding of human consciousness demand two things that we acknowledge the central role that ideals play in human knowledge and conduct and that such ideals have no role in the standard model *Brave New Mind* proposes a new image of humankind that accommodates the place of ideals and creativity in cognition and life without abandoning the scientific ideals of empirical soundness and theoretical rigor

The God of Chance and Purpose Bradford McCall, 2022-02-10 This brief title will pursue a triangulation of chance divine involvement and theology through a fundamentally Peircean lens at least epistemologically and semiotically The argument proceeds over five distinct chapters and a conclusion that constitutes a sixth chapter In Part I I discuss the Modern Synthetic theory in evolutionary biology In particular I refer to what I have labeled the secular evolutionary worldview SEW Also in Part I I dismiss the French physicist Pierre Simon de Laplace's claim that a sufficiently informed intelligence could forecast everything that is going to happen in the whole universe and working backwards tell you everything that did happen not by

direct citation and rebuke but rather by implicit argumentation and demonstration of the God of Chance In Part II of this book I explore the God of chance and purpose with theological assists provided by Philip Clayton and Alister McGrath over two chapters So then we live in a world of both chance and purpose One may even go so far as to state that this world is designed for both chance and purpose

The Synergism Hypothesis Peter A. Corning, 1983 This book represents a major theoretical synthesis between the life sciences and the social sciences Peter Corning shows that the selective advantages arising from various kinds of cooperation from single celled creatures to wolf packs to modern nation states are the cause of the directional aspect of evolutionary history that is the progressive emergence of more complex hierarchically organized systems in the biological cultural and political realms The Synergism Hypothesis spans a vast intellectual and scientific territory and speaks to the central concerns of evolutionary biology sociobiology anthropology psychology economics sociology and political science It is an extraordinary contribution which should influence all future discussions of why we behave the way we do from back cover

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