



Our Position Within the Cosmos

	Section	Subject Matter	People
Our Position Within the Cosmos	<i>i. False beliefs and true facts: the fundamental differences</i>	Religion & the power of faith (on the subject of death) • Warped logic & reasoned beliefs (on the Moon landings & E.T.)	
	<i>ii. A brief history of mankind's knowledge</i>	Our perception of the Earth & the Sun through the ages • Spectroscopy, the Doppler shift & the expanding universe • Hubble's Law & general relativity • Evidence for the Big Bang * Atoms, the chemical elements & the transmutation of energy • Antimatter & dark matter	Eratosthenes of Cyrene Pythagoras Ptolemy Nicolaus Copernicus Giordano Bruno Galileo Galilei Johannes Kepler Isaac Newton Josef von Fraunhofer Christian Doppler Edwin Hubble Albert Einstein Arthur Eddington * Dmitri Mendeleev Marie Curie Pierre Curie Ernest Rutherford Paul Dirac Vera Rubin
	<i>Footnote</i>	Baryogenesis', the world of 'antiparticles' & the all pervading force of gravity	





<p>Our Position Within the Cosmos (...continued)</p>	<p><i>iii. The matter-energy cycle</i></p>	<p>The importance of the hydrogen atom * Our galaxy's fate • Withdrawal of the cosmological horizon • The fate of our Earth & Sun • The physical confines of evolution • Life & the transmutation of energy • Imagination * The human exploitation of energy transference • The nuclear sciences & our historic abuse of knowledge</p>	<p>* Albert Einstein * J. Robert Oppenheimer Harold Urey David Bohm</p>
	<p><i>Footnote</i></p>	<p>The unnoticable hastening of time</p>	

