

Real Evolution: the Self-developing Biosphere, Human Credit Systems and the Noösphere

According to its own champions, the modern doctrine of “environmentalism” is rooted in the work of British naturalist Charles Darwin (1809-1882).¹ The neurotic, third-rate scientist Darwin, in turn, claimed Parson Thomas Malthus (1766-1834) as his own spiritual father. This gloomy parson had claimed that the human population expands geometrically (2, 4, 8, 16, ...), while food supplies grow only arithmetically (1, 2, 3, 4, ...). Thus, according to Malthus, there was necessarily an incessant struggle for existence in which only the strong survive. Darwin declared that the resultant “war of each against all” led to the “survival of the fittest”, a process of “natural selection” that gave rise to new species.

Said Darwin: “[T]he Struggle for Existence amongst all organic beings throughout the world ... inevitably follows from their high geometrical powers of increase.... This is the doctrine of Malthus, applied to the whole animal and vegetable kingdoms. As many more individuals of each species are born than can possibly survive; and as, consequently, there is a frequently recurring struggle for existence, it follows that any being, if it vary however slightly in any manner profitable to itself, ... will have a better chance of surviving, and thus be naturally selected.”

In the atmosphere of the England of his day, where the Anglican church still held enormous power (half the graduates of the great universities of Cambridge and Oxford, for instance, became priests), and which maintained—at least formally—the doctrine of man as *imago Dei* (created in the image of God), Darwin hesitated to apply the full implications of his 1859 magnum opus *On the Origin of Species by Means of Natural Selection, or the Preservation of Favoured Races in the Struggle for Life to the human race*. Only after decades of relentless propaganda by his supporters to the effect that man was indeed “simply another animal”, as implied by Darwin’s *Origin*, did Darwin, in his 1871 *The Descent of Man and Selection in Relation to Sex*, come roaring out of the closet to claim that his “favoured races” dogma applied to “human races as well”.

Particularly important in preparing the ground for this later proclamation was the work of Darwin’s first cousin and cothinker, Sir Francis Galton, in founding the pseudoscience of eugenics. Galton coined the term “eugenics” from the roots meaning “well-born” in Greek. Already in 1869 he had published the book *Hereditary Genius*, in which he argued that mental qualities were biologically inherited; that the white race was the biologically best endowed to dominate the world;

that the English were the cream of the white race; and that the Darwin family itself was living proof of this principle. Darwin wrote to his cousin, “I do not think I have ever in all my life read anything more interesting and original.... I congratulate you on producing what I am convinced will prove a memorable work.”

In his *Descent of Man*, Darwin wrote: “I have hitherto only considered the advancement of man from a semi-human condition to that of the modern savage. But some remarks on the action of natural selection on civilised nations may be worth adding. This subject has been ably discussed by Mr. W. R. Greg, and previously by Mr. Wallace and Mr. Galton. Most of my remarks are taken from these three authors.” Alfred Russel Wallace had ostensibly “co-discovered” the theory of evolution with Darwin, while Greg is often credited as the “co-inventor of eugenics” with Galton. Like Galton, Greg, whom a biographer called “one of the chief assailants of Christianity in his day”, argued that the British were a “superior race”, destined to rule the world and to wipe out any other races standing in the way. Darwin’s *Descent* attempted to “prove” that the mental powers of human beings are no different than those of the higher apes.

Killing the “Unfit”

Following Malthus, Galton and Greg, Darwin bemoaned that modern society interfered with the “natural selection” of the fittest:

“With savages, the weak in body or mind are soon eliminated; and those that survive commonly exhibit a vigorous state of health. We civilised men, on the other hand, do our utmost to check the process of elimination; we build asylums for the imbecile, the maimed, and the sick; we institute poor-laws; and our medical men exert their utmost skill to save the life of every one to the last moment. There is reason to believe that vaccination has preserved thousands, who from a weak constitution would formerly have succumbed to small-pox. Thus the weak members of civilised societies propagate their kind. No one who has attended to the breeding of domestic animals will doubt that this must be highly injurious to the race of man. It is surprising how soon a want of care, or care wrongly directed, leads to the degeneration of a domestic race; but excepting in the case of man himself, hardly any one is so ignorant as to allow his worst animals to breed.”

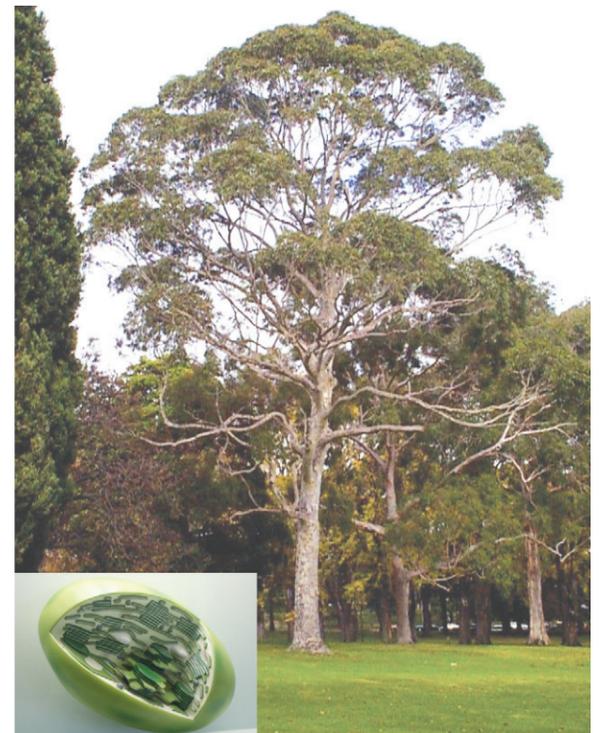
Like Malthus, Darwin advocated genocide as the solution to the propagation of the unfit.

And Malthus, like Darwin, had discovered nothing: he had plagiarised the 1790 book of a Venetian monk named Giammaria Ortes, *Reflections on the Population of Nations*. Ortes’s masters in the Venetian oligarchy that had ruled most of the world for centuries and had sponsored the rise of the British Empire itself, by the middle of the 18th century were hysterical over soaring population growth on the newly settled continent of North America. Benjamin Franklin’s beautiful 1751 pamphlet, *Observations Concerning the Increase of Mankind*, in which he forecast that the population of America would soon overtake that of Britain itself, especially incensed and challenged them.

From time immemorial, empires have practised “population control” (genocide) in order to keep subject populations in check. Thus did the Roman emperors, the Byzantine rulers who succeeded them, and the Venetians, whose monetarist empire



Earth, seen from space, presents a blue-green face that’s unique in our solar system, because of the activity of living matter. Plants carry out photosynthesis in tiny chlorophyll molecules, in chloroplasts (inset, right); they use the sun’s energy to generate chemical energy, making food that fuels the self-developing biosphere.



emerged circa A.D. 1000 and soon ruled the world. The Venetians, in turn, sponsored the rise of the City of London-centred British Empire, following the 1688 Glorious Revolution (the invasion of England by Venetian asset William of Orange). It was anchored on the Bank of England (1694) and the fast-developing dope- and slave-running British East India Company (BEIC), the largest monopoly in world history.

From shortly after the consolidation of British world hegemony against France in the Seven Years’ War of 1756-63, the kingpin of the BEIC was Lord Shelburne, Prime Minister of Britain in 1782-83. Shelburne and his young protégé and successor as Prime Minister, William Pitt, assigned Malthus to plagiarise Ortes, in order to justify the BEIC’s policies of genocide at home and abroad.

When the BEIC set up its Haileybury College in 1805 to train administrators for its world-girdling empire, Malthus was installed in what history books call the “world’s first chair in political economy”. Generations of BEIC employees, trained by Malthus, oversaw systematic genocide throughout the British Empire, killing tens of millions in India alone, and forcing them to grow the opium with which the BEIC mass-poisoned the people of China.

Continuing that grand tradition of genocide, King Edward VII knighted eugenics-promoter Galton in 1909 for his “service to the Empire” in inventing this new “scientific” rationale for managing the empire. Darwin’s son Leonard succeeded Galton as the second and longtime chairman (1911-28) of the British Eugenics Education Society, the first such organisation in the world; other of Darwin’s sons and grandsons were Society activists as well.

“Darwinism” went on to become the cornerstone of the new British imperial science that emerged early in the 20th century: “ecology”. The name was coined by Darwin’s chief propagandist on the European continent, the notorious German racist and eugenicist Ernst Haeckel.

Darwin’s work was known to be humbug even in his lifetime. It achieved fame only because it was championed by the British Crown’s Privy Council, the ruling body of the British Empire. Typical were the efforts of Privy Councillor Thomas Huxley, known as “Darwin’s bulldog”.

In fact, the British did not dare publish Darwin’s *Origin* until 1859, just after the death of the universal genius Alexander von Humboldt, the greatest naturalist of the first half of the 19th century. Contrary to Darwin’s notion of each in struggle against all, Humboldt’s master work, *Cosmos: A Sketch of a Physical Description of the Universe*, had demonstrated universal harmony and the “progressive development of vegetable and animal life on the globe”, culminating in the emergence of man—of the creative human mind, as the pinnacle of this vast creation:

“From the remotest nebulae and from the revolving double stars, we have descended to the minutest organisms of animal creation, whether manifested in the depths of ocean or on the surface of our globe, and to the delicate vegetable germs which clothe the naked declivity of the ice-crowned mountain summit; and here we have been able to arrange these phenomena according to partially known laws; but other laws of a more mysterious nature rule the higher spheres of the organic world, in which is comprised the human species in all its varied conformation, its creative intellectual power, and the languages to which it has given existence. *A physical delineation of nature terminates at the point where the sphere of intellect begins, and a new world of mind is opened to our view.*” (Emphasis added.)

Even apart from his advocacy of eugenics and his claim that man was merely another animal, Darwin’s theory had enough holes in it to embarrass a slice of Swiss cheese. He claimed that each species gradually evolved into another through minute, favourable changes, mysteriously appearing in this or that individual and being transmitted to progeny via the “survival of the fittest”, with the result of entirely new species. Yet already in Darwin’s time, biologists, ge-

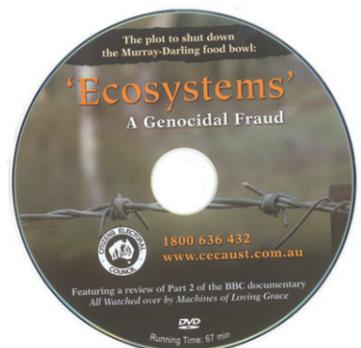
ologists and naturalists were well aware of the clear evidence, in geological and paleontological remains from hundreds of millions of years, of repeated sudden *mass* extinctions of species, whereupon *new* species would suddenly appear with markedly different characteristics than those previously dominant.

The “Second Law of Thermodynamics”

Simultaneous with their sponsorship of Darwin, Galton and the new “science of eugenics”, the Privy Council and British Royal Society cooked up another hoax, one which today underpins the “equilibrium” and “balance of nature” axioms of environmentalism: the Second Law of Thermodynamics.

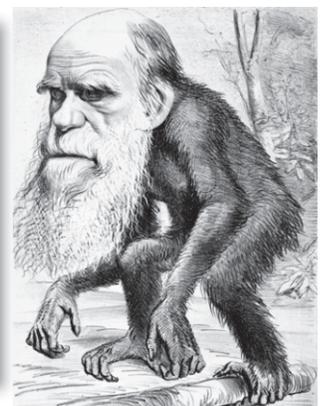
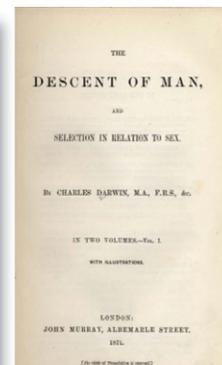
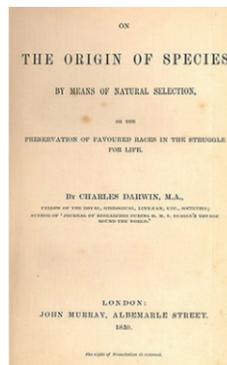
Spokesmen for the British imperial priesthood of science, such as Rudolf Clausius and Lord Kelvin, took valid, valuable work on heat-powered machinery done by the statesman and genius Sadi Carnot (1796-1832) and exploited those limited, very specific principles of abiotic machinery in concocting the “Second Law of Thermodynamics”, which they then claimed to be a law of the Universe as a whole. In essence that “law” states that machines run down, unless you constantly add new energy to them: that over time, energy-charged (heated) particles will gradually lose their heat and hence their ability to perform work. This is called entropy: the system continually runs down; unless it is externally recharged, its heat energy will eventually dissipate to nothing. In this “heat death”, also called an “equilibrium” state, the system has no ability to conduct work, and therefore undergoes no further change.

In the early 20th century Sir Arthur Tansley, the Cambridge University protégé of Bertrand Russell who



The notion of “ecosystems” underlies all modern environmentalism. This CEC video proves that it is a witting lie, cooked up by the notorious British imperialist and eugenicist Sir Arthur Tansley in 1935. His fraudulent contention was that Nature is always in a mechanistic “equilibrium”.

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Darwin’s two highly plagiarised emissions.



Sir Arthur Tansley, founder of the British imperial science of "ecology".

basically invented the British imperial science of "ecology" (he coined the term "ecosystem" in a famous 1935 article), applied the Clausius/Kelvin construct to "Nature", and the Universe as a whole. That is, Tansley proposed that the entire Universe, including all processes on Earth, is simply the product of inanimate flows of energy that are inevitably winding down.

Tansley concocted his argument in collaboration with two other Russell associates, the devout eugenicists and imperialists H.G. Wells and zoologist Julian Huxley. They were desperate to discredit the work of the great Ukrainian-Russian genius, the founder of the science of biogeochemistry, Vladimir I. Vernadsky (1863-1945).²

The Real Science of Nature: Vladimir I. Vernadsky

Tansley et al. constructed the British imperial science of "ecology" from inanimate energy flows, considering Earth to be basically a typical closed "thermodynamic system" (with perhaps a little new energy added from the Sun, a reality difficult to deny). Vernadsky, in contrast, began by exploring the Cosmic origin of the Earth and its characteristic features, especially the biosphere. The very first paragraph of his book *The Biosphere* outlines how he thought about this:



Russian biogeochemist V.I. Vernadsky

"The face of the Earth viewed from celestial space presents a unique appearance, different from all other heavenly bodies. The surface that separates the planet from the cosmic medium is the biosphere, visible principally because of the light from the sun, although it receives an infinite number of other radiations from space, of which only a small fraction are visible to us. We hardly realise the variety and importance of these rays, which cover a huge range of wavelengths. Our understanding is full of gaps, but improved detectors are rapidly expanding our knowledge of their existence and variety."

Thus our Earth is intimately tied to the farthest reaches of the Cosmos by virtue of the radiations that come from those far out regions. And our biosphere has developed from those radiations.

"The biosphere may be regarded as a region of transformers that convert cosmic radiations into active energy in electrical, chemical, mechanical, thermal and other forms. Radiations from distant stars enter the biosphere, but we catch and perceive only

an insignificant part of the total; this comes almost exclusively from the sun. [And of that we receive only one half billionth of the total solar output]. The existence of radiation originating in the most distant regions of the cosmos cannot be doubted. Stars and nebulae are constantly emitting specific radiations, and everything suggests that the penetrating radiation discovered in the upper regions of the atmosphere ... originates beyond the limits of the solar system, perhaps in the Milky Way, in nebulae, or in stars [of a certain variable type]..."³

Vernadsky then states: "It is living matter—the Earth's sum total of living organisms—that transforms the radiant energy of the sun into the active chemical energy of the biosphere. Living matter creates innumerable new chemical compounds by photosynthesis, and extends the biosphere at incredible speed as a thick layer of new molecular systems."⁴

Vernadsky documented the activity of life, that is, living organisms, including microorganisms like bacteria, plants (which carry out photosynthesis), and higher forms of animals. All have acted for *hundreds of millions*, if not *billions* of years to transform that biosphere.

Living organisms absorb or ingest material (both living and inert) and solar radiation from the surrounding environment, integrate those transformed substances into their own bodies, and excrete material outside. When an organism dies, the organic material is deposited again in the environment, often in another place and with different combinations and concentrations of chemical elements.

Vernadsky identified in living organisms the "biogenic migration" of atoms—the transfer of inert material and energy to a living body, where it is transformed and functions for some period of time, and then is excreted or left behind as a different product. The rate at which this happens within the biosphere is also called "biogenic flux".

The vast deposits of minerals on the Earth today, as well as the chemical composition of the Earth's atmosphere, and its oceans, soils and surface formation down to a considerable depth, resulted from living processes. Thus, Vernadsky concluded, the biosphere, including its present system of weather and climate, is a natural product of processes of living matter, or the principle of life.

The principle of *life*, the physical principle governing our biosphere and manifested in the constantly expanding totality of living matter, defies the Second Law of Thermodynamics. Vernadsky argued this point explicitly in his *Essays on Geochemistry*, in a passage about "the growth of active geological energy and the complete change of the biosphere" that occurs with the development of new species:

"Clausius's entropy does not really exist; it is not a fact of being, but a mathematical expression, useful and necessary when it allows the expression of natural phenomena in mathematical language. ... The deviation [from so-called laws of entropy] by such an essential phenomenon as living matter and its influence upon the biosphere shows that life does not stay within the premises for which entropy is stated."⁵

Moreover, Vernadsky wrote, mankind not only has emerged as a lawful process within the biosphere, but is creating entirely new elements and physical processes that are transforming the biosphere itself: through the powers of the human mind, the Earth is entering a "bright new geological epoch", that of the "Noösphere" (after *noös*, Greek for "mind").

Beginning with his famous 1922-23 lectures in Paris, Vernadsky developed his concept of the noösphere in ever more profound and optimistic ways, exemplified by the 1938 article in which he said:

"We are living in a brand new, bright geological epoch. Man, through his labour—and his conscious relationship to life—is transforming the envelope of the Earth—the geological region of life, the biosphere. Man is shifting it into

a new geological state: Through his labour and his consciousness, the biosphere is in a process of transition to the noösphere. Man is creating new biogeochemical processes, which never existed before. The biogeochemical history of the chemical elements—a planetary phenomenon—is drastically changing. Enormous masses of new, free metals and their alloys are being created on Earth, for example, ones which never existed here before, such as aluminium, magnesium, and calcium. Plant and animal life are being changed and disturbed in the most drastic manner. New species and races are being created. The face of the Earth is changing profoundly. The stage of the noösphere is being created. Within the Earth's biosphere, an intense blossoming is in process, the further history of which will be grandiose, it seems to us. In this geological process—which is fundamentally biogeochemical—a single individual unit of living matter, out of the totality of humanity—a great personality, whether a scientist, an inventor, or a statesman—can be of fundamental, decisive, directing importance, and can manifest himself as a *geological force*. This sort of manifestation of individuality in processes of enormous biogeochemical importance, is a new planetary phenomenon. It emerged, and began to manifest itself ever more sharply and profoundly in the course of time, during the most recent tens of thousands of years, on the background of billions of years of the prior history of the biosphere, when this phenomenon did not exist."⁶ (Emphasis added.)

Human Physical Economy— Lawful Evolution of the Universe

Admitting that yes, indeed, mankind has become the dominant force on the planet over the past few hundreds or thousands of years, today's British high priests of environmentalism hysterically maintain that this new epoch, which they call the Anthropocene Era (after the root *anthropos*, meaning "man"), is disastrously disturbing the pristine equilibrium of Nature which had existed basically unchanged (only spiced up with a little slow Darwinian evolution) for hundreds of millions of years before the unfortunate appearance of mankind. The following sections of this feature report will systematically dismantle this British imperialist hoax, step by relentless step.

Most dramatic are the recent breakthroughs on the real nature of evolution, made by Lyndon LaRouche's Basement scientific team. These findings, which amplify Vernadsky's own proof that the biosphere is winding up, not down, are based upon LaRouche's own breakthrough discoveries in the science of physical economy: a healthy growing economy is the result of the never-ending discovery and application of new, ever more energy-dense technologies to the process of production. This precisely matches the history of the biosphere itself.

Indeed, Vernadsky himself testified that he developed his concept of the noösphere not as a religious or philosophical idea, but, rather, it was grounded in his work on physical economy during World War I. At that time he headed efforts under the Commission for the Study of Productive Forces (KEPS) (in existence 1915-30) to survey Russia's vast natural resources for possible mobilisation in that war, which the British Empire had started.

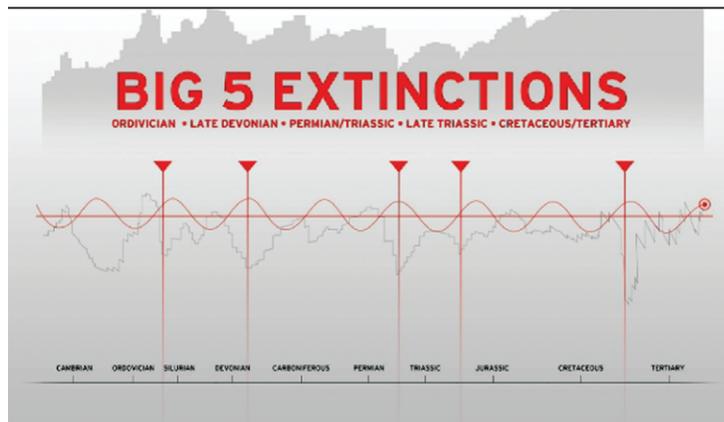
The founding fathers of the USA understood, as LaRouche has developed in greater depth, that no matter how abundant such resources, they can only be shaped and set into motion as part of a healthy, growing human economy through a *system of public credit*, as opposed to the privately controlled *monetarist systems* around which all empires are constructed. Our article on a Credit System (page 12) addresses this principle.

The Special Report on pages 15-18 demonstrates how the British invented modern environmentalism, precisely to prevent such public credit-pivoted, unlimited expansion of the physical economy. They seek to preserve their privately controlled monetarist system and their political power. And that pow-

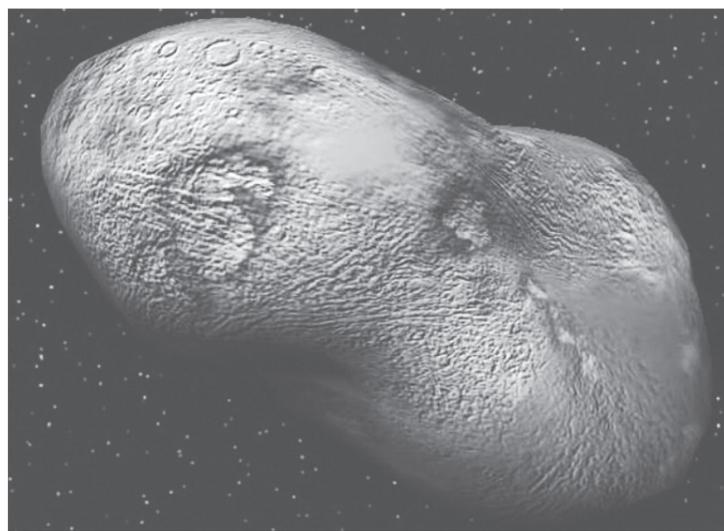


Our Milky Way galaxy moves through the Universe "face on", not "edge on" like a frisbee. As the solar system moves above the galactic plane (that is, forward in the direction of the whole galaxy's motion), Earth is exposed to a greater density of cosmic radiation.

FIG. 1



Mass extinctions coincide with the 62 million-year cycle of our solar system's movement above the galactic plane. Approximately 62 million years have passed since the last mass extinction.



The asteroid Apophis. Mankind must master and deploy power sources of ever rising energy flux densities, not only to provide a decent standard of living for all members of the human race here on Earth, but to secure the very existence of the human race. For instance, were an asteroid of only 140 metres in diameter to strike Earth, it would release 100 megatonnes of energy—twice that of the USSR's 1961 test of the Tsar Bomba hydrogen bomb, the largest thermonuclear weapon ever tested. Only a tiny percentage of Near Earth Objects, which are asteroids and comets passing close to Earth, have yet been tracked. One of those is the 350 metre asteroid called Apophis, pictured above, which will fly by the Earth in 2029 (coming closer than the orbit of many communications satellites). On its next return, in 2036, the possibility of a collision may be greater and is a matter of intense discussion among scientists. We must develop the energy densities not only to deal with such threats, but with potentially even deadlier ones, given that the Earth is now crossing above the galactic plane on its roughly 62 million-year cycle—a cycle which has corresponded with the last five mass extinctions on Earth.

er is invariably exercised through "population control"—genocide—as championed by Ortes, Malthus, Darwin and all modern environmentalists.

Great Galactic Cycles Shape Evolution

Our solar system moves through the Milky Way galaxy in two prominent cycles: it rises above the plane of the galaxy once each 62 million years, and passes through one of its spiral arms every 145 million years. Depending on where the solar system is in these cycles, it (and therefore the Earth) absorbs greatly fluctuating influxes of cosmic rays, and experiences variations in gravitational forces, both of which are primary factors shaping the evolution of life on Earth.

The 62 million-year movement of our solar system above the plane of the galaxy has coincided with cycles of dramatic mass extinctions of existing species on Earth, but also with the emergence of new ones. In this process, 98 per cent of all species which have ever existed on our planet have become extinct, but each extinction paves the way for new, more highly organised and complex life forms, of which the human species, emerging only some three million years ago, is the most advanced. As our solar system now moves above the galactic plane again, we face another likely extinction event, one that could wipe out mankind, unless we apply human creativity to master the

scientific principles needed to survive.

If the Greenies succeed in stopping all science and technology, they will ensure mankind's extinction. Only humans have the ability to transcend this galactic threat, and become an immortal species. But that will happen only if we act like human beings and utilise our divine-like powers of creativity, and not like animals, as under the present dictatorship of Green Fascism.

Notes

1. This exposé of Charles Darwin and the British oligarchy's creation of "Darwinism" is drawn from CEC National Chairman Ann Lawler's devastating address, "The Humbugger of Charles Darwin", delivered at the CEC National Conference of 23-24 July 2011. For her full remarks, see *The New Citizen*, October/November 2011, pp. 19-25. <http://cecaust.com.au/greenfascism>
2. See Craig Isherwood, "The Noösphere of Vernadsky and LaRouche", *The New Citizen*, October/November 2011, pp. 26-34. <http://cecaust.com.au/greenfascism>
3. Vladimir Ivanovich Vernadsky (Vernadsky), *The Biosphere*, tr. David B. Langmuir (New York: Peter Nevraumont Publishing Company, 1998), p. 47. Phrases in square brackets are editorial additions for clarity.
4. *Ibid.*, p. 50.
5. Vladimir I. Vernadsky, *Geochemistry and the Biosphere* (Sante Fe: Synergetic Press, 2007), p. 215.
6. V.I. Vernadsky, "On the Fundamental Material-Energetic Distinction between Living and Nonliving Natural Bodies of the Biosphere", *21st Century Science and Technology*, Winter 2000-2001, p. 20-29.