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New Definition of Mankind: Taking Charge of the Galaxy
In NerObama Land: All Circus, No Bread
Mississippi Flood Disaster Reveals Epic Policy Fiasco

At the Brink of Confusion: When Governments Crumble

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EIR

From the Managing Editor

As you will see, when you page through this lengthy issue, we have a lot to say this week! Sky Shields' observation, in the LPAC Weekly Report of May 11 *(Feature)*, perhaps best sums up our current situation: That, if you were to look at mankind today, from the standpoint of the "domain of mind, where everything ontologically significant exists," what you would have observed over the last several decades, is the "slow death of the human species." Not a happy thought, but true. And yet, it is precisely the work being done by Shields, Lyndon LaRouche, Cody Jones, and their collaborators from the Basement research team, that promises to un-Earth the scientific answers that will solve this crisis.

The crisis is, of course, both "natural" and man-made. Which is to say, we do confront challenges posed by what might be termed the galatic timetable—our 62-million-year voyage through the Milky Way Galaxy, and its effect on our Solar System; but more immediately, we are confronted with the deepening insanity that characterizes our policymaking, especially in the trans-Atlantic region, as exemplified by the toleration of the genocidal green agenda. The evidence of this can be found everywhere: Look, for example, at the flooding in the U.S. Midwest, as covered in *Economics,* where the courageous efforts of the Army Corps of Engineers are undermined by lack of funds and manpower. The criminal negligence of the Obama White House in the face of this underscores once again the need to quickly evict the reigning Narcissist from those premises (see *National*).

Lyndon LaRouche provides the needed wisdom, in his contribution to *Strategy*: "At the Brink of Confusion: When Governments Crumble," in which he states, succinctly, "Unless the original Glass-Steagall Law of 1933 were re-enacted almost immediately, the general collapse of the U.S. financial system were imminent for some time during the remainder of this year, or even earlier."

What will become possible as we shake off the recent decades' madness, is suggested by our coverage in *Development*, on the Blue Revolution for North Africa, where great projects will make the desert bloom; and in *Science*, "The Importance of NAWAPA for Geophysical Research," in which Peter Martinson of the Basement Team asks the provocative question, whether shifts in the tectonic plates cause earthquakes, as widely believed, or vice versa.

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The end of the line: an abandoned railroad, St. Louis, Mo.

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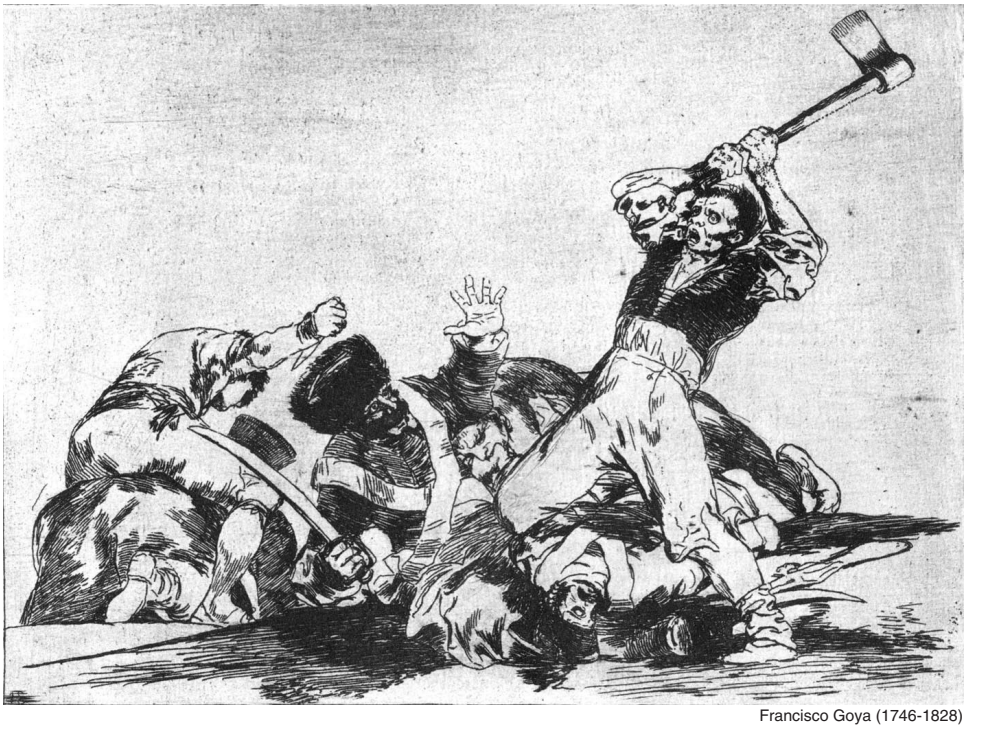
AT THE BRINK OF CONFUSION:

When Governments Crumble

Lyndon H. LaRouche, Jr.

May 8, 2011



Francisco Goya (1746-1828)

From Goya's etchings on The Disasters of War, "With or without reason."

Unless the original Glass-Steagall Law of 1933 were re-enacted almost immediately, the general collapse of the U.S. financial system were imminent for some time during the remainder of this year, or even earlier. It would be a general collapse within the present trans-Atlantic system, with consequent effects which would, almost certainly, engulf the remainder of the planet's surface.

This presently calamitous trend under the Barack Obama Presidency, is expressed in accelerated rates of downward physical-economic effects, effects now moving toward collapse of the Federal states of the U.S.A., as, similarly, throughout the trans-Atlantic region generally. This emphasizes the presently aggravated quality of that continuing calamity, which was created in the form of its currently aggravated expression by the impact of the November 2, 2010 U.S. national election. This is the expression of what has been a trend, a trend which has brought those states of the republic, themselves, into a point of fragility, a point at which this nation now hovers at the brink of a chain-reaction-like state of a presently rapid worsening, and now chronically crumbling, physical form of economic breakdown, a breakdown with characteristics which waver in moment to moment emphasis, wa-

vering between what are essentially matters of the internal U.S.A. crisis, and global kinds of disorientation.[1]

Such is the presently spreading state of affairs throughout the trans-Atlantic region of this planet. For the present moments, such a pattern of effects already prevails as the current status, with the result that, most notably, both the United States and throughout the zone called the crisis-stricken "Euro," were regions of the world which were doomed, a doom more and more that which would become closer to the point of the irreparable, were we to proceed without the virtually immediate passage of the original, 1933 intent of the Glass-Steagall act (H.R. 1489) by the United States. The point has already been reached, that members of Congress who act to prevent an early victory for the original Glass-Steagall's restoration would be contributing to the likelihood of their participating in a crime against humanity. The importance of Glass-Steagall is a matter of such urgency as exists now.

This would have been the present direction of trends and their consequences even if the pro-genocidal proposals of Hans Joachim Schellnhuber's avowedly pro-genocidal WBGU had not been launched. The British empire's launching of its puppet Schellnhuber's mass-murder, a mass-murder presently far worse than Adolf Hitler's population-reduction hoax, is being carried to a monstrous extreme, an extreme which had already been the British intention for sending the planet as a whole into sheer Hell. There is, speaking practically, no actually efficient, present barrier to global disaster, without the chances for passage of U.S.A.'s H.R. 1489 legislation as the pathway for halting the presently accelerating breakdown-crisis of the entirety of the trans-Atlantic region—and, therefore, beyond.

My own part in this, as reflected in what is written here, has been to reflect a process of discoveries and related kinds of developments which has included the greater part of my own achievements as a professional in economic forecasting over the greater portion (1956-2011) of my 88 years of life to date; but, this has been work also designed to take into account the roles in scientific and related matters of my present associates, including their discoveries and related product, all to the effect of treating the interrelationship among these sources as, then and now, the expression of a single, coherent effort.

Thus, I am enabled to present my own overview of a combination of such facts, as I do here, We must assess the present world-wide situation accordingly, in all relevant respects.

1. The original phase of this trend was set into motion during July-August 2007. It has been continuously aggravated since the initial phase of the presently continued succession of "bail-out"schemes in 2008.

FOREWORD:
Human Life: Man and His Creator...

For today's most profoundly bestirred, but often bewildered scientist, the first Chapter of ***Genesis*** *becomes, more and more, an astonishingly precise statement of a prophetic quality of that chapter's seemingly unique accuracy, that in its resemblance to a crucial work of physical science. Since our Solar system is a younger part of our galaxy, we might wonder: who might have been living "out there," or, who, perhaps, still today, is a species whose design is akin to that of our own?*

At the present date of writing this report, the science program of the LPAC team known as "the basement," has been in the process of completion of a special video report for early publication, a report which summarizes the record of life on our home-planet, Earth.[2] That study, by my associate Cody Jones et al., will subsume an area of recaptured experience since a time approximately a half-billion years ago. That report will present, in that so-indicated other publication of my associates, the deeply underlying issues, and implications of the history of life within the context of what is presently known to the combined product of both this author and those associates, respecting the relevant galactic principles themselves.

The standpoint of reference employed for that referenced LPAC "basement" report, will be dedicated to the subject of our progress in seeking a better understanding of the subject of the history of life as such. It will be a report which locates life on our planet under the authority of our Solar system's existence, but does this within those more broadly defined conditions which our own galaxy itself has defined for the effects of the

2. http://www.larouchepac.com/galactic-question

successive phases of ascent and descent of Solar system within this galaxy, effects on the existence of forms of life on Earth.

The emphasis in my own report before you here, is placed on showing a correlation between the progressive evolution of life on Earth in respect to the changes which the evolution of life-forms has induced as changes in the ordering of living processes. Here, I am considering that process of change in a direction from qualitatively lower to higher forms of systems of life on our planet, with strong emphasis on the relevant features of my profession as a physical economist in my accomplishments as having become recognized as a remarkably successful, if usually politically embattled economic forecaster during the course of the recent forty years.

I view the ongoing changes since the death of President Franklin Roosevelt, and, most emphatically, the persisting downshifts in the U.S. economy since the assassination of U.S. President John F. Kennedy, as decades of shifts which occur under those physical conditions of the near-the-surface region of the planet's setting, as those ensuing shifts are each situated, more immediately for our present understanding today, in terms of the effects to be recognized within the bounds of the domain of our Sun. The consideration of the factor of those externally induced changes on Earth, is to be combined with the effect of those internal changes in our planet's conditions which have been, in their turn, changes which have shaped the potentials for, and characteristics of the long-standing pattern within the existence of newly emerging, as also vanishing life-forms on our planet.

Francisco Goya (1746-1828)
From Los Caprichos, etching, "What if the pupil knows more?"

That process, when considered within the domain of our Sun, is situated within the adducibly lawful changes in those conditions for life on our planet which coincide with characteristic cycles of the Solar system's movements with respect to our galaxy.

Such are the bare boundaries of our subject-matter here. The deeper implications of those facts themselves, may begin to be explained in the following terms.

The Terms of Reference

The need for that amount of attention to the specific set of interlocking considerations shown here, is to be located in the need to eliminate certain viciously ruinous errors which have been widely tolerated by mankind thus far. These have been errors of backwardness which have tended, heretofore, to be carried over into much of both the attempted practice of science, and of mankind's frequent fits of resistance to that progress.

On that account, I emphasize, as Bernhard Riemann had done in the closing section of his 1854 habilitation dissertation, that this element of reluctance to conduct the pursuit of progress, has been a factor to be included as an intended effect of the corruption imposed by arbitrary reliance on the intrinsically and viciously misguided applications of merely reductionist, and also failed applications of mathematics to economy, failures which are the unfortunate realities of our universe

during the span of several recent generations.[3] These failures of often mutually contrary sets of applied scientific and related presumptions, have been marked by results which are typified as being results of the continuing influence of the systemically fraudulent character of the Aristotelean system of geometry associated traditionally with the discredited name of Euclid earlier, and the heritage of the Liberalism of Paolo Sarpi more recently.

Damn Euclid!

For the purposes of the subject at hand, we must place special emphasis on the subjects of the respectively systemic distinctions of both the already intrinsically noëtic principle of life itself, from that of the still higher quality of noëtic causation manifest by the activity of human cognition: as the combined contributions by Bernhard Riemann and Russian and Ukrainian Academician V.I. Vernadsky have shown.

Today, the relatively more frequent source of problems on this account, has been those regrettably pervasive errors of presumption which are rooted in a reductionist's form of deductive method. This fault is to be recognized as often being located in a combination of the form of some *a-priori* presumptions of reductionism which are to be traced either to such origins as Aristotelean method, or, to the crucial features of alteration of the Aristotelean methods by the introduction of the present role of that inherently failed, statistical method of economists and like professionals, a method whose origin is traced from the influence of Paolo Sarpi, to that of such Sarpi followers as Antonio Conti, and by Conti's Eighteenth-century followers in this practice. The present followers of that school of philosophical reductionism are typified by both the emergence of, and victims of the still presently dominant role of the British empire's culture on this planet at large.

For reason of the relevance of what is, unfortunately, the popularity of the intrinsic follies of modern empiricism, it is necessary to stress the fact, again, here, that the implicitly criminal features of the evolution of Sarpian empiricism, are features which are to be traced, in principle, from the influence of Paolo Sarpi in pre-shaping the corruption of what was to become known as Eighteenth-century British empiricism generally, a corruption by the so-called "pleasure-pain" principle which is intrinsic to the philosophical standpoint of contemporary reductionism.

At a point since the beginning of the Nineteenth Century, this process became the evolution into a philosophical standpoint known to us as the notoriously fraudulent concoctions of "Darwinism," and, notably, still later, by the form of the extremely radical incompetence inhering in the methods traceable largely to Bertrand Russell himself, as also to the radical positivism of both his school of Cambridge systems analysis and the folly of the latter school's expression in the form of the ideology of the Laxenberg International Institute of Applied Systems Analysis (IIASA).

As I have often stated, and restated, since the time of my adolescent years' rejection of the fraudulent, *a-priori* presumptions of a so-called Euclidean geometry, no single faculty of human perception could define, by itself, the actually efficient substance of any reality. The simplest demonstration of that fact was, for me, my first realization, early during my adolescence, that we must take what had been cases like my own exemplary experience in study of the physical work done in supporting a steel structure at the Boston area's Charlestown Navy Yard, as a typification of the mission to which the design of the form of such a structure must be dedicated.[4]

For example:

In addition to the need to exclude what I have just indicated as being the typical, inherent, practical incompetencies in the outgrowths of the method of modern empiricism from its earlier roots: *we must place special emphasis on the specificity of what have been both the chronic and typically vicious follies of modern statistical methods themselves.* It is indispensable, on this account, that we must adopt the benefits of the work of Bernhard Riemann and of his immediate collabora-

3. Cf. Bernhard Riemann, **Habilitation Dissertation**, concluding section.

4. It was my recognition of this experimental proof of the falseness inherent in a Euclidean geometry, which had won me to the study of the work of Leibniz at the beginning of my adolescent years. It was made apparent to me, even then, from study of the role of steel in the erection of high-rise structures, that no single physical dimension of sense-perception can define the meaning of experience. Today, I would prefer to have traced the principle so expressed to such ancient and modern precedents as Archytas' duplication of the cube, Eratosthenes' measurement of the size of the Earth, the discovery of the physical principle of the catenary by such as Filippo Brunelleschi, and by such others among his followers as Nicholas of Cusa and as by Leonardo da Vinci, and the development of the physical principle of least action by Gottfried Leibniz, as he had done, in following Johannes Kepler's uniquely original proof of the discovery of a universal physical principle expressed as the principle of gravitation.

tors of those same circles of such followers of the Leibniz heritage of France's original Ecole Polytechnique as Alexander von Humboldt and the circles associated with Carl F. Gauss. We must then emphasize such followers of the influence of Riemann as Max Planck and Albert Einstein, as the latter pair have been leading cases of the urgency of the continuing development of that Riemann tradition, and what was to be seen later, as being the indispensable Riemannian basis for the fuller development of the method of Academician V.I. Vernadsky, a Riemannian basis whose adoption was emphasized by Vernadsky himself, beginning no later than during the middle of the 1930s.

Instead of the error of presuming, as a matter of a rough illustration of this point, that "State A" generates the existence of "State B," which generates "State C;" we must "map" the existence of "State B" as, now, also, modifying, *anti-entropically*, predecessor "State A," as if retrospectively, into becoming a new "State A1," and also as a new "State B1;" these are changes which interact, in effect, to generate, also, "State A [B1,C]," and, also, "State [B2C2], etc. If that might be considered awkward to some, at first glance, the fact of the matter is, as Albert Einstein emphasized in stating his judgement on Kepler's uniquely original and largely developed discovery of the principle of gravitation as such, that the existing universe in which we exist, is always, *causally*, a finite universe, but, *speaking ontologically*, existing without any efficient form of containment of the form of an external bounding of its current, "self-expanding" existence of a universal domain of "cosmic radiation." The latter domain is one which contains no actuality of "empty space" within what may appear to some as the implied, momentary self-bounding of its actually unbounded universality.

Francisco Goya (1746-1828)

Los Caprichos, "What a golden beak!" etching.

Einstein's argument for this type of case, has provided the precedent which, thereby, establishes, as a kind of an intellectual springboard, a standard of competence for all subsequent expressions of a competent approach to modern science, despite those credulous opportunists who, even still today, defend the silly notion that Newton had discovered anything, excepting only the solitary case of his one, famous and only, single-sentence address to the meeting of a British Parliament, "Will someone please open a window?" By the early Nineteenth Century, the conclusive experimental evidence was, that Newton had not actually produced even some most obscure and minute, principled feature of a competent scientific practice.

This criticism of Isaac Newton and his like, is not to be considered unfair, by any means. The oligarchical system, as typified in ancient through modern manifestations, depends upon what have been "flat out," false assertions whose motivation has been the intent of stupefying of the credulous, a trick done for the sake of driving the so-called "lower classes" into a state of relative impotence respecting matters of scientific and related principles. Newton spoke fraud; whether he himself knew the truth, is a matter of relative indifference. The purpose assigned to that foolish fellow, was a lynch-mob-like form of bombast which had been intended to induce the mass of credulous scholars and

their likenesses, to believe what the oligarchical interest wished to induce them to wish to believe, not by methods of science, but those more brutish methods of intimidation aided by the arts of administering a sense of pleasure or pain. The case of the mass credulity induced by the reductionist methods of geometry known as "Euclidean," had already illustrated that point.

The relevant correction needed for treating this case of Newton and his like, is a statement which regards any action within a universe of action which proceeds in a manner according to attributed principle, as a potential change (or, "change of potential") in the totality of an otherwise finite, but never externally bounded, total domain of action. There is a proof of principle to this effect, to which we should arrive at a suitable later point. However, this much can be said, that confidently, here, presently, when we will have come to the chapter on the subject of a science of physical economy.

To amplify the crucial point which I have just made here: any such change in the principled state of a finite, but unbounded system, such as that of our actually experienced universe, is an expression of an existence whose generation lies as if, ostensibly "outside" what might be presumed, at first hand, to have existed, ontologically, up to that point, but is actually not such.

This is in despite of the lack of an external bounding, as if "instantaneously," by some relatively prefixed system. The action of change to which I point, is an intrinsically anti-entropic action in progress. That universe is a self-defined process of creation, rather than an externally created one.

Such is the proper physical meaning of "creation." That is to say such things as that we must presume, from our relatively humble standpoint presently, that "the Creator inhabits His creation, thoroughly."

This is properly illustrated by introducing another conception, to restate the implications of the immediately preceding paragraph in a statement of the following form on the subject of sense-perception.

Consider the case of an hypothetical person's assessment of a set of footprints which are reasonably presumed to be the effect of the movement of a person or beast who is not seen "in the picture" at this time. What might we presume from a scanning of that succession of those footprints, which is the spoor of the action?

Who, or what, can we propose to say, is the authorship of that pattern of footprints? It is not the mere part which is changed; it is the system containing those parts which is self-changed by the apparent generation of a relative, successor state of the presumed universe. There could be no competent modern science, except for pedagogical speculation, which takes at least this much of the matter into account; statistical methods, when used as a substitute for science, or for economic forecasting, are the trash which the performances of the majority of economic forecasters have most efficiently demonstrated such methods to be.

The foregoing, descriptive corrections do have, in the simpler aspects of the matter, an existing place in contemporary physical science, as being descriptive; but, that duly noted, there remain some much deeper implications to be considered.

It is necessary to pause to wrestle, pedagogically, with some speculations.

At first apprehension, the currently prevalent type of conclusion would be premised upon the functions of human sense-perception of evidence which might be classed as in the nature of "clues."

However, since the human sense-perception presumes a quality of agency which is competent to generate a concept of that action of the attributed mind, we must ask: what is the type of object which constitutes the prompting of a manifestation of an actual function of that mind, as distinct from mere sense-perception? Where does the principle of creation of higher states lie? The typical problem posed to many, still today, is posed as the following question.

"What is the cognizable object" which constitutes the efficient existence of the characteristic function of that mind? Although the exertion of the mind appears to be the author of the experience of the function of that mind, this is not actually a possibility; what is it that is built into sense-perception which is real, but which is not sense-perception as such, but which is, rather, an object of "cognition" (i.e., "which is a creative principle of 'mind'")?

In other words, what is the ontological distinction of a universal principle from a mere fact, or mere method? The problem posed by such questioning of our own mental processes, is equivalent to the matter of a universal physical or comparable principle, as a principle of our universe, or a virtual approximation of such a case.

Or, put the point as follows.

Just as, Kepler, for example, defined a universal principle of gravitation, in terms of the contrast of visual and harmonic orderings of sense-perceptual experi-

ence, so all notions validly classed as "universal principles," or their fair approximation, are, functionally of that same ontological class.

Consider the following alternative as illustrating a case to be treated more thoroughly at a later point.

Let us proceed to restate the formal expressions of that case, therefore, from the fact that there is no proof to the effect that the act of sense-perception is an act which is independent of the subjective opinion which is mere sense-perception. Sense-perception is as Johannes Kepler's discovery of the principle of gravitation demonstrated, as illustrated by the fact that an image-like conception of a practically sensed experience is, in ontological terms, a qualified fiction which must be treated, from inception, as an experiment to be tested.

That is to argue, that since everything known by mankind is presumed be governed by a law of the universe: wherein lies the authority of such a "universe," if such an authority is presumed to depend upon the role of the so-called "practical man's" mere sense-perception?

To grasp the essential features of that general point of argument, take the exemplary case of Kepler's uniquely original discovery of gravitation, in which the principle of gravitation is not deduced directly from sense-perception, but, rather, indirectly, from a proof of the systemic fallacy, or the like, of mere sense-perception. The value for gravitation is located in the contradiction between the two relatively ontological sets of sense-perceptual phenomena considered: sight and harmonics. What Kepler demonstrated as such an ontological experience, is the fruit of an experience which occurs "outside" the domain of sense-perceptual forms of experience; this is the characteristic which defines any valid principle attributable to the use of the effects of sensory experience.

The proper role of sense-perception is to capture the image of certain among the shadows which the unseen reality casts as the shadows known to the senses.

The existence of that class of existences known as that which has cast "the shadows," is to be recognized by the substance whose name is not "sense perception," but "mind." "Mind," so portrayed, is, therefore, not an expression of sense-perception, in itself; mind seeks a truly universal principle of crucial-experimental search for a truth which subsumes, but is not subsumed by sense-perception. This is to treated, as in the manner which Kepler employed for the first authentic concept of a principle of gravitation.

So, on precisely this account, Albert Einstein recognized this in his treatment of the case of Kepler's discovery of a great universal principle: that the universe of experience, is *systemically finite*, but not bounded: not bounded by perceived quantity, but in the nature of a self-containing universal principle which is actually known only to the mind. Or, should we not say, as a matter of illustration, the principle of the composition of the fugue as self-defined as a self-contained domain of experience, as defined by the practice of Johann Sebastian Bach.

This conclusion is not exotic; it is the contrary opinion, that based in sense-certainty, which is at fault. Sense-certainty typifies the foolishly fanciful notions associated with a lack of cognitive development, as with the case of deductions made as a statistical form of readings of footprints *per se.*

Such is the expression of the true principle of *mind as such*. Does that living through such an experience by a relative ingenue as that, seem to "break a Newton's head" to the perceived effect of the likeness of a shattered coconut? The actually cognitive powers of the human mind exist in a domain beyond the reach of the notions of mere sense-perception, notions to be found in a more rigorous conception of the "tuned circuit" of mind per se. It is in the fragmentation of the experience of reality, to such an effect, that the unifying wholeness of reality is not the dominant consideration, that the worst effects often tend to find their way in.

Let our dialogue be continued now accordingly.

The Great Principle of Our Universe

The modern study, to the present date, of the known history of life on our planet Earth, as the presented evidence has been examined by the "basement team," has not only revealed the existence of a galactic character of those patterns of life generally, but the fruitful estimate to the effect, that that which has existed since approximately a half-billions years, more or less, is a condition known to us through evidence presently available to the practice of physical science. The evidence has also revealed human life on this planet, as a condition existing within the recent several millions of years.

In our study of such matters, the crucial evidence to be considered is located in the expressions of chiefly two patterns of scientific knowledge. Firstly, that the ordering of the successive changes in dominant living species on Earth during this term, has been from increasingly powerful expressions of the self-develop-

ment of living species in bringing life on our planet to higher forms, that, ultimately, to the appearance of mankind on this planet during the recent several millions of years. Second, that the process leading into the leading role of the human species on this planet, has demonstrated both that which is the historically defined, superior influence on this planet, the influence of an increasing power of living processes over non-living, and the superior creative powers of the human mind over all other forms of life in shaping this progress. Thirdly: the manifest ability, specific to mankind, to bring about the willfully crafted progress of mankind to accomplish works of transformation which are ultimately more powerful forces than those of any other known living species.

We must conclude, that the universe itself is ontologically creative ("anti-entropically") in the large. Life itself is intrinsically creative. Mankind has a higher quality of potential for creativity than that of any other known living species.

Therefore, must we not name the power of this cognitive function specific to the human species—the "noösphere," the human imagination?

Then, consider it to be the case, that with these foregoing words, we have set upon our stage the following content of the following first chapter of this report.

I. The Principle of Metaphor

The following statement presented in this present chapter, makes reference to a state of mind which is not a sensory image in itself, but, rather, belongs to a higher order of efficient idea than within the domain of presumed, elementary sense-certainty.

The relatively unwitting person points, by one means or another, to *an object* of one or another, specific organ of sense-perception. Or, that person might register, similarly, an array of comparably simple, single acts of sense-perception occurring more or less simultaneously. Nonetheless, despite such a latter, simpler quality of multiplicity, the most important of the experiences of human behavior, are those not of sense-perceptual objects, or the like, but is what we have shown, otherwise, to be that which can be shown to be an efficiently real state of being, as that of what is a well-definable state of mind, but which is not a matter of the apparently discrete, particular images of sense-perception as such.

Rather, what the latter person does, is something akin to what Johannes Kepler did in discovering the principle of gravitation: use the paradoxical conjunction of different qualities of sense-perception as the method of experiment, as by contrasting the notions of vision and of harmonics, by which a principle of nature is adduced experimentally, as in Kepler's discovery of gravitation.

These are higher orders of forms of efficiently expressed objects of principles of action, which we may regard as subjects of thought-objects, but which are not sense-perceptions as such, and which are of that type which can be demonstrated to be efficiently real objects when expressed in the form of the principle of action, rather than as fixed objects of sense-perception, as I had done, as, in effect, rejecting the notion of Euclidean geometry in the course of recurring visits to the Charlestown Navy Yard which occurred during my adolescence. Such anomalous thought-experiments, when used as methods of discovery of the existence of physical principles, and of related later proofs, as Kepler did, are typical of the higher order of forms of those communicable states of mind, which are to be classed, ontologically, under the name of ***metaphor***.

Such are the implications of the mind's conception of a universal physical principle, or the like notions of principles of Classical artistic composition and performance, as J.S. Bach's **Preludes and Fugues** illustrate this, and as my late friend, Norbert Brainin, conducted his experimental proof of a precious, antique violin as tuned to the equivalent of C=256. All notions which are valid as states of principle, rather than a particular thing, are in this higher class which is occupied typically by notions of principle, rather than the inherent brutishness of raw, unreasoned, sense-perception.

For example: All true physical principles belong properly to the class of metaphors, but, not all metaphors are truthfully representative of principles. Metaphor is, otherwise, the essential name for the domain of that which is ontologically actual, but which is not a "thingness" suggested as a fixed object of sense-perception; it is, instead, an expression of specifically human creativity, as creativity is expressed as nothing as much as it represents *the principle of ontological quality of expression of change itself.* We have become, once we concur with this devotion to experimental and related fact, thus, rightly joined to Bernhard Riemann in avowing the great principle which is compacted into

its expression as the concluding sentence of his celebrated 1854 habilitation dissertation. We have joined Riemann in departing the imperialist domain of the department of mathematics, for the actuality of the discovery of those universal principles of physical science whose subject is the study of the generation of the quality of change as such.

On that note, the fun now begins.

Any true principle may be, often, thus expressed for the human mind, by a principle which is not a sense-perception, but which can be demonstrated as being efficient, in the sense of some efficient mode of meaningfully distinct state of mind. This can be demonstrated by what is equivalent to an experimentally provable principle of nature.

Metaphor is the essential name for the domain of that which is ontologically actual, but which is not a "thingness" suggested as a fixed object of sense-perception; it is, instead, an expression of specifically human creativity, as creativity is expressed as nothing as much as it represents the principle of ontological quality of expression of change itself.

Let me be a bit more precise about science. For example:

Johannes Kepler's then uniquely original, and uniquely competent discovery of the universal principle of gravitation, is exemplary. This discovery defines, in turn, what deserves to be considered as among the categories of both physical principles and Classical artistic modes of insight into the principled features of social processes.

It is most useful, to place emphasis on the poetic name for the ontological principle among the body of all competent physical science. That principle is, therefore, "change as such," so expressed as being congruent with Heraclitus' "nothing but change," as in Plato's **Parmenides** dialogue.

For example, apparently exceptional instances of mass behavior, so far, as by birds in migratory flights, or, by the deliberate movements of fish and of other native creatures of the sea, as of animal migrations, especially as precursors of major, or nearly major earthquakes, and so forth, reflect the influence of a principle of electrodynamic functions of some living organism, as by means of *a notion of cosmic radiation,* a notion which liberates man from the folly of belief in the notion of "empty space." We, as human individuals, have been of relatively poor quality heretofore, for "tuning in" directly on such animal functions; but, then, for what we might appear to have lost in such an arrangement, in this way, it should become evident to us, that we have gained, in this way, in the freedom to choose the manner in which we regard our access to the liberty of a choice of direction. We are, when in this mode, demonstrating to ourselves and others that we are not animals; we have shown ourselves to be truly human beings.

Everything in the universe is implicitly creative in the proper meaning of ontology; since the universe itself were ontologically creative inherently; but, to the best of our present knowledge, only the human mind, among all presently known living creatures in this universe, among all living species known to us, is intrinsically creative in a truly voluntary way, as we express this by applying the principle of metaphor, as the valid work of all truly creative artists is done. Only man is presently known to us as being a living creature designed to be in the functional likeness of a Creator on this account.

In both the cases of the indicated range of types of animal behavior, or human behavior, the sense-functions may share outward similarities, as in terms of apparent, functional effects; but, the qualities of the two classes of effects are systemically different, and, therefore, and even when truthful as statements, are not a sharing of a common truth with respect to the idea-content of the function performed. In all cases, as I emphasize here, the truthfulness of our witting experience of sense-perception as such, lies, ontologically, essentially, in the domain of Classical-artistic notions of *metaphor*.

The name for the specific nature of this quality of specifically human freedom, is the Platonic function known as "the principle of hypothesizing an higher hypothesis." Here, the thesis which I shall present, is my own; but, nonetheless, it is inherently, implicitly knowable to mankind generally, as I shall state the case for that, here, as that might be adduced from the standpoint of my own accomplishments in the domain of a science of physical economy. I name that thesis which I have introduced in this present chapter of this report thus far, "On the subject of the actual human

Francisco Goya (1746-1828)

The circles of John von Neumann? Goya, "The Witches' Sabbath," oil.

mind," stating the case as I have summarily outlined it, most recently, as the principal thesis of a report to my associates.

I summarize that case as follows.

The Specific Nature of Man

> *It is a truly intelligent person, who can recognize both the true source and imprint of his, or her own actual "footprints" on history.*

The conclusion which is to be drawn from what passes for reported cases of varieties of popular opinions throughout much of this planet thus far, is that most among mankind generally still remains ignorant of the state of mind which defines the expression of its own true nature and plausible destiny. That widespread factor of ignorance is expressed as a naive belief in the notion of "sense-certainty."

There once were those times during which some cultures existed which need not be forgiven for their indifference to the creative powers of the human mind, an indifference which is often premised, notably among academics, on assertions of blind faith in the experience of "sense-perception," as by the followers of the notorious idiot-savant, John von Neumann; times had long since passed, as, for example, during the birth-pangs of those Classical cultural traditions once paramount among the elite of ancient Egypt and what is known, retrospectively, today, as typical of ancient Classical civilizations. The relevant needed conception of the implications of this fact, was supplied, implicitly, in a large degree, by the work of Bernhard Riemann's 1854 habilitation dissertation, most emphatically its concluding, third section.

This acquisition of this often disregarded quality of intellectual skill, is not essentially a matter of notions created by mere accumulation of learning, or other mere experience. Creativity, on the contrary, is inherent in the development of the specifically noëtic capabilities and potentialities of the individual human mind, as cases such as Archytas and Plato, or the great Eratosthenes, exhibited this.

In all studies of the principles of creative behavior to which I have been referred, the access to a native power of human creativity in the discovery, or mere recognition of the quality of principle, are established in early years of life, and, once manifest in the work of educational institutions, may not be retrievable after a wrestling with the agonies of advanced academic training for the higher degrees, where and when the graduate student is trained more to conform—or, to employ the alternative term, "to behave," rather than to think in a serious way.

Thus as in the often more or less disastrous cases of the effects of what I have witnessed among some post-1945 "multiversities," as Dr. Lawrence S. Kubie reported on such relative disasters in his well-known studies of such problems in his 1958 **The Neurotic Distortion of the Creative Process**, and his later, 1962 **Daedalus** piece, *"On the Fostering of Scientific Creative Productivity."*

Perhaps the most relevant case of academic forms of systemic destruction of the inherent creative potential

of once-gifted students, is that typified by the case of von Neumann and Oskar Morgenstern in the 1953 edition of their **The Theory of Games and Economic Behavior**. Von Neumann's standing as a putative "idiot-savant," is correlated with his expulsion from Göttingen by David Hilbert (on charges comparable to an earlier expulsion from Göttingen of Norbert Wiener on somewhat similar grounds).

II. Physical Science Looks at Political Economy

The subject of an actually willful form of promotion of both the physically efficient maintenance and the improvement of human life among the nations of our planet, begs for clarification of the role of money, or its equivalent, in a national economy, or in a set of national economies. Before turning attention in this chapter to those deeper matters of physical-economic values, a certain amount of forgivable, but necessary discussion of this subject as a problem for physical science, must precede that treatment of the latter topic.

First: All scientifically real, competent notions of economics can, and must be expressed in the form of a science of physical economy, rather than a money-economy. All of the worst of the great, systemic errors in the attempted practice of national economies, for example, are to be classed as the results of an emphasis on accounting practices consistent with past or contemporary standards of political economy, rather than physical economy.

Folly, especially that of popular forms of past and present society, presumes, incompetently, that national economy is the summation of an aggregation of pieces of local economy, rather than the truth, which is the reverse: that *local expressions of economy are the effect of a unified process of national economy*. It is for that reason that the citizens of the United States, and most of those nominally economics processionals, in particular, have been too easily, and popularly, duped and swindled, as, often popularly, on numerous, even leading accounts, today.

The particular folly inherent in money-economy, on this account, is exhibited in the frequent indifference of nations, and many among their population, to the kind of ultimate hopelessness they will tolerate, through their utterly misplaced confidence in their monetarist, or comparable economic system, up to the point of the more or less catastrophic eruption of some catastrophe from the relevant economy. This occurs as among the official institutions of a U.S.A., or a Europe, which is presently nearing a general, hyperinflationary trend toward a rather immediate breakdown-crisis of their current economic system, even as near as a few months, or even weeks away. This may be the result of a breakdown in either the monetary aspect of an ongoing economy, or, as presently, a hyperinflationary form of physical breakdown of the physical-economic process, as in 1923 Weimar Germany, or in the general case of the trans-Atlantic economies presently.

Therefore, frequently, when the citizen usually refers to "economics," he, or she, is speaking as the virtually certified victim of the more or less fluent advocate of a familiar language, but, respecting the actual content of their speech, that person usually does not actually comprehend, or, often, refuses to acknowledge the looming catastrophe rooted in the nature of the discord between the money economy and the physical economy. He, or she, prefers to think of what can be bought, rather than what is either being produced, where the employment needed to gain adequate purchasing-power is to be located, or how near a clearly defined general collapse might be.

Therefore, while all of the ordinarily obvious beliefs concerning economics are expressions of a commonly shared misunderstanding of the suggested subject of discussion, the worst of the commonplace expressions of those chronic diseases are of the quality of what is classed as "political economy," which are those related to the form of fantasy-life known as "monetarism."

Sarpi & the Roots of Monetarism

I find it necessary, that before coming to the affirmative form of the issues of a science of physical economy, that we must act, here and now, to clarify, and then put to one side, that moral disease of the human mind which is inherent in the methodological legacy of Paolo Sarpi, and in that legacy's influence on both what are, currently, those widely taught, enormously destructive, and systemically incompetent principles of economy, which are based on the modern empiricism otherwise known as *philosophical liberalism*.

Since I have covered much of the immediately following points in numerous earlier published locations, I now need only indicate summarily the implications of

Sarpi for British and related forms of deformed ideology and their effects on modern morals and principles of practiced Liberal economy and its ideology.

Modern liberalism, the British Liberalism, was brought into today's United Kingdom and the British empire itself, as under the flag carried into those isles by that William of Orange who was the spokesman for the flag of the New Venetian Party. This development was the outcome of a product of Paolo Sarpi's recognition of the utter incompetence, for a modern Europe, of the continuation of the previously established ideological hegemony of Aristotelean doctrine. Sarpi represented what was to become known as the New Venetian Party, as distinguished from that then politically bankrupt Aristotelean party which found itself floundering in the intellectual morass which was the Council of Trent.

Francisco Goya (1746-1828)

"The Colossus," oil.

What Sarpi recognized, at least implicitly so, was that the pre-Fifteenth-century Europe's collapse into its "New Dark Age," had ruined the possibility of returning to the previous, medieval form of a new Roman Empire.[5] The revolutionary changes, reflecting the heritage of the combination of both Dante Alighieri and his Fourteenth Century following, as a change which had been introduced through the Catholic Church's Councils, especially the great ecumenical Council of Florence, had introduced profoundly revolutionary changes in civilization. Under this new state of affairs, no attempted revival of previous, pro-Aristotelean, Roman imperial systems could succeed politically in any durable fashion. Aristoteleanism was a doomed dinosaur, still floundering, but nonetheless as a dying species.

Sarpi, the nominal beneficiary of this failure of the Sixteenth-century, Aristotelean party-line, had recognized this vulnerability, and, had consequently built a new movement around himself as its relevant leading intellectual figure. This was a role in which he found himself confronted by what would be the essential threat to the attempts of the Sarpians represented by what had become Niccolò Machiavelli's influence on the military-political-economic processes operating within Sixteenth-century Europe. For the Aristoteleans, Nicholas of Cusa and Christopher Columbus had typified the fact of the already ruined chances of a return to the old pre-dark-age order in Europe.

It is important to be said on relevant occasions, that while Sarpi had assaulted the sally-ports of the Aristoteleans, he, like the later Bertrand Russell, had not abandoned the cause of Aristotle himself. He had, instead, produced "a new Aristotle," now functioning in

5. In published earlier locations I have referred to the way in which the Venetians of the Fourteenth Century had played their clients, the Italian merchant bankers of the virtual "Wall Street" of their time, for fools, thus setting off the hyperinflationary process which detonated the accumulated follies of that century.

the capacities of a virtual political eunuch. A "new prime minister" had seized the control over the throne of "the old emperor." Aristotle reigned to become an imperial symbol, like a paper-mache "god" created for the edification of the credulous, but the actual practice of governing society, was, now, increasingly, Sarpi's concoction: "philosophical liberalism."

Those stated conditions, as reached at that point in history, are the key for any competent effort at understanding the inherent doom embedded in the recent centuries' past and present condition of the Anglophile varieties of modern philosophical liberalism.

Thus, the prevalent form of the modern European philosophical outlook, as typified by the concept of the new Roman Empire proclaimed by Britain's Lord Shelburne, permitted the introduction of post-feudalist forms of modern agriculture and manufactures, and a certain, restricted notion of political freedom within the ranks of the general labor force; however, it was in a militant posture against any competent form of a science of political-economy. There, on balance, most of the population of the trans-Atlantic region remains stuck, like overripe garbage, at the point of today's Liberalism. Hence, the curses which are still raining upon, and reigning over humanity, particularly the trans-Atlantic region, today.

The imperialist form of British Liberalism, thus dominates most of the international system of this planet, still today. Any competent approach to the subject of the practice of economy, continues to depend upon both recognizing that fact, and acting upon it accordingly. The following highlights of Liberalism are to be considered as summarized by me here and now.

Liberalism: Foul & Squishy

Inasmuch as Aristoteleanism had become a surrogate for what it pretended to be a principle, that notion of principle has been typified by Euclidean method which had substituted a-priori presumptions for actual principles, Sarpi's doctrine for practice permitted no actual principles to be taught. The substitute for principle in Sarpi's method, was that which was to be echoed by the notorious Adam Smith, as with Smith's astonishingly precise and succinct assertion of the fact that no actual principle, but only cheap and slimy counterfeits, was to be allowed to exist in what was to become known as Anglo-Dutch philosophical liberalism.

Those merely alleged principles of the Sarpi tradition, were stated succinctly, and consistently, in Smith's own, 1759 **Theory of Moral Sentiments**. Insofar as Anglo-Dutch Liberalism permits what it proposes to pass as a principle, Liberalism remains what Sarpi and his Anglo-Dutch followers made it, at least in essential features, to the present time. A triumphant Lord Shelburne, relishing the British empire's triumph at the 1763 Peace of Paris, adopted Smith as his agent against targets France and the rebellious English-speaking colonies in North America. Smith's 1759 doctrine thus became British imperial law.

As Smith prescribed in the cited work, the only principle explicitly associated with that modern Liberalism, is that of the human victims' perceptions of pleasure and pain. Better said, it were a system based upon the practice of the manipulation of the population's experience of the ruling stratum's crafting of the selection of pleasures and pains which the ruling agencies prescribed for administrative application.

We see the evidence of this in a clear and relevant expression among the shifting trends of behavior of legislators in North America and Europe. Those supposed paragons of public virtues are, chiefly, the whipped and whimpering weaklings they, in our United States and in Europe, have become since the success of the British and Wall Street interest gained through the assassination of President John F. Kennedy, as we have lately often witnessed this shamefully, cowardly pattern of behavior among U.S. Federal legislators and related political-party leaderships. In such circles "practical" usually signifies the political path of the legislator's anticipation of the least pain expected by choosing that course of action which is believed to represent the relatively least pain, rather than the actual merits of the issues.

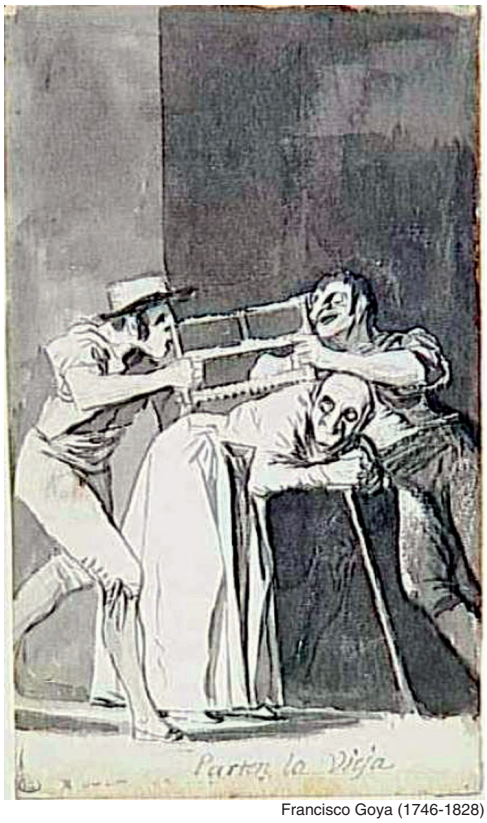
However, before blaming the legislators and their like for what is admittedly their alternation between their cowardice, and their joy in being part of some abusive action against a selected sacrificial lamb for the likeness of the human sacrifice of the moment, it were more important that we recognize that it is the use of the cattle-prods of pleasure and pain, by which legislators and the like are usually herded into a controlled state of behavior. We must consider the means needed to terminate the use of the pleasure-pain principle as a means of control over the intellect of the selected legislative and other targets, including the generality of the citizenry itself.

It is essential that an intended moral reform in the systems of government in the trans-Atlantic regions, be affirmative, rather than capriciously punitive, as the latter option is the prevalent state of affairs met among

nations of the trans-Atlantic regions today.

An outhouse behind the house was once named a "convenience." The populace and governments of a nation should not continue to be degraded to the status of a convenience.

Instead, there must be a political campaign for consent to a relevant change in the standard of morals, away from the habit of an application of the notion of what the consummately evil Jeremy Bentham had proposed as his filthy principles of legislation and morals. It were best said, that it were time that the old corpse of Jeremy Bentham be stuffed in a better way, and to a more suitable outcome.



Francisco Goya (1746-1828)

Obamacare. "They are cutting the old woman in two," Indian ink wash.

Money & Credit

It is not as much the use of money as such which defines the intrinsic insanity of monetarism, as it is the insane belief that money itself contains some curiously hidden, mysterious sort of intrinsic physical-economic value. The issue is that of the credulousness of a people enslaved in their own minds to a notion of value wrongly defined as being attributed to being a "natural value" of that for which payment in what is fictitiously denoted real wealth might be, actually, wrongly considered as being a naturally required amount of real wealth. Whereas, in truth, the proper use of money is as a reflection of *a realizable relative value, as credit, as the Massachusetts Pinetree Shilling or the U.S. dollar of a constitutional credit-system,* as defined by Alexander Hamilton, denoted the proper conception of credit.

That notion of credit is only hopefully presumed to be equivalent to a physically-efficient form of productivity attributable to what represents objectively real wealth, a presumption which must be discarded if the real, physical wealth does not appear in some appropriate form.

Thus, simply said, realizable wealth is not embodied within money, but only in hopes, or, in the alternative, merely unrealizable dreams, such as the unrealizable form of alleged "wealth" known as the slop of merely fictitious U.S. "bail-out money" uttered by the successive Bush and Obama administrations. The guilt shared by that pair of ill-chosen Presidents, on this account, was shown in a mass flood of electronic minting of fraudulent masses of merely nominal wealth, for which no future redemption were possible, a kind of merely "electronic paper" which has no credible hope of realization as real wealth, such as the actually worthless trillions of U.S. dollars of Federal Reserve and related forms of "bail-out" proceeds.

The willful uttering of dubious forms of money, under such inherently and willfully fraudulent circumstances as those, is clearly a case of willful fraud against both the bamboozled sucker in the affair, and an implicitly treasonous act of lechery against the nation as a whole.

Such are the delusions fostered by the effects of movement away from devotion to an actually productive society, which the U.S.A. was formerly, to a "post-industrial" form of merely monetarist society which is the practice of the two persons most recently occupying the U.S. Presidency.

The U.S. Credit System

As I have written above, the anti-monetarist, real, U.S. standard for portable forms of wealth is therefore modelled on the precedent of the use of the credit system established by the original Pine Tree Shilling of the Massachusetts Bay Colony under its original charter, that as a charter in force prior to the process of crushing the Massachusetts colony, and immediately preceding the murderously inclined tyranny installed in Britain by the invasion conducted by the New Venetian Party's William of Orange.

Contrast that development to U.S. Treasury Secretary Alexander Hamilton's declared intention, that being to prompt what became the working foundation for the U.S.A.'s creation of its original Federal Constitution. Hamilton's action on this account, had saved the United States from an ominously hopeless sort of bank-

ruptcy, like that which Presidents Bush and Obama have foisted on our nation presently. Hamilton's initiative became a means of rescue of the nation's credit, which was accomplished by shifting the burden of the unpayable obligation of the young republic's war-debt to the national (now Federal) government, a form of government whose inherent credit-worthiness could be defended by the means expressed in, most emphatically, the Preamble of the U.S. Federal Constitution.

Unfortunately, today, as I noted the cases of some among the most recent batch of those brought into the Federal legislature by the recent, November 2, 2010 elections, there are included a number of a fanatical sort of political and legal illiterates of the type of those, recently elected, who have expressed nothing as much as what is, frankly, the functional illiteracy which seeks to deny the rightful authority of that Preamble, the rightful authority which exists in defiance of any foreign body, such as the British imperial system, which may attempt to impose a reading contrary to that of our own original, Federal Constitution.

Hamilton's measures as Treasury Secretary, were of a constitutional quality of authority, that by the nature of the process of the generated productivity shown by quality of expertise in the principles on which the very creation of the Federal system itself, depended. This thus represented a constitutional quality of authority, rather than the lesser authority of a legislative act.

The colleagues of such illiterates as those who would have us violate that Constitution, should urge such errant types of prospective, or current colleagues to do the honorable thing, by abstaining from election to, or resigning from the legislature, that done on grounds of their complicity in that specific kind of functional illiteracy respecting the principles of government and economy which might be fairly considered to be chronically wicked, if they fail to meet the standard of cure provided as a relevant literacy examination.

In the actual case of the formation of the U.S. Federal Constitution, which is the original document on which the means for the continued existence of the United States depended, the needed credit-worthiness depended on means which corresponded exactly to the exemplary specifications of Treasury Secretary Hamilton's three crucial messages to the U.S. Congress. Under the sum-total of the provisions of the Preamble and the use of the credit-worthiness of the Federal Government which had been created to pledge support for postponed repayment of the war debt of the sundry states, that Government was enabled to pledge new credit uttered as loans for redeemable, chiefly physical projects placed within the types of categories specified by Secretary Hamilton's official **Reports**: **On Public Credit**, **On a National Bank**, and **On the Subject of Manufactures**.

Hamilton's measures as Treasury Secretary, were to be defined as of a constitutional quality of authority, that by the nature of the process of the generated productivity shown by his quality of expertise in the principles on which the very creation of the Federal system itself, depended. This thus represented a constitutional quality of authority, rather than the lesser authority of a legislative act.

A competent Federal Constitution is not to be considered as a fair target-area for the aims of liberal nags lacking in any respectable sort of actual principle. The original intent of our Federal Constitution, to provide us with a Federal Constitution which serves as our people's defense against the liberal evils against which we fought the British tyrant, is not to be whittled down liberally by the same liberalist foreign interests against which our founders fought to defend us against British liberalism. Ours is a republic built upon constitutional law, not the liberal conventions our nation had been constituted to defy, especially those liberals of the British Liberalism type, a people ruled by a monarchy which has no true constitutional principles of its own.

The Bad Real Andrew Jackson

This contrary to those inherently despicable, so-called "Jacksonian" impulses, which were products or reflections of a monstrously damaging, and also fraudulent reading of the intention of the U.S. Federal system, frauds such as those both foisted by Andrew Jackson, as a de facto agent of the Aaron Burr successor, in concert with that swindler (and later U.S. President) Martin van Buren himself. Van Buren had used the stampede associated with Jackson's populist hoax against the Second National Bank of the United States, to facilitate van Buren's own actions plunging the United States into that

Panic of 1837, whose bankruptcy destroyed the credit of the United States for a considerable time.

It is of most notable relevance on this point, that the credit of the United States, which secured the United States against the British-directed Confederacy, as had been done by President Abraham Lincoln's greenback policy, had been cancelled later to the effect of wrecking much of the great achievements which had been accomplished under Lincoln's[6] policy, a wrecking of our republic done at the behest of the same London which had created the Confederacy. This was a part of what would be the same British subversion expressed by the subsequent launching of the British imperial ouster of Chancellor Bismarck in 1890, by the British-Japan pact which opened what became World War I, through the vehicle of the war-treaty of Britain with the Mikado against China, Korea, and Russia, and World War I, all done by a scheme in which Theodore Roosevelt played a treasonously ugly part in his time, together with the notorious case of the Woodrow Wilson who had launched the rebirth of the Ku Klux Klan personally from inside the White House.

The notion of "legal precedents" becomes silly when some insurgent's piece of nonsense is pushed through in spite of the constitutional principles on which the sovereignty of our United States has depended, as from the formation of the Federal Constitution to the present day. It is the realization of the principle of intent, including the crucial economic intent, expressed in the formation of the Federal Constitution, its Preamble most simply and emphatically, which defines the shaping of the proper, higher authority in law needed for survival of our United States under the mass-murderously threatened situation of our constitutional republic today.

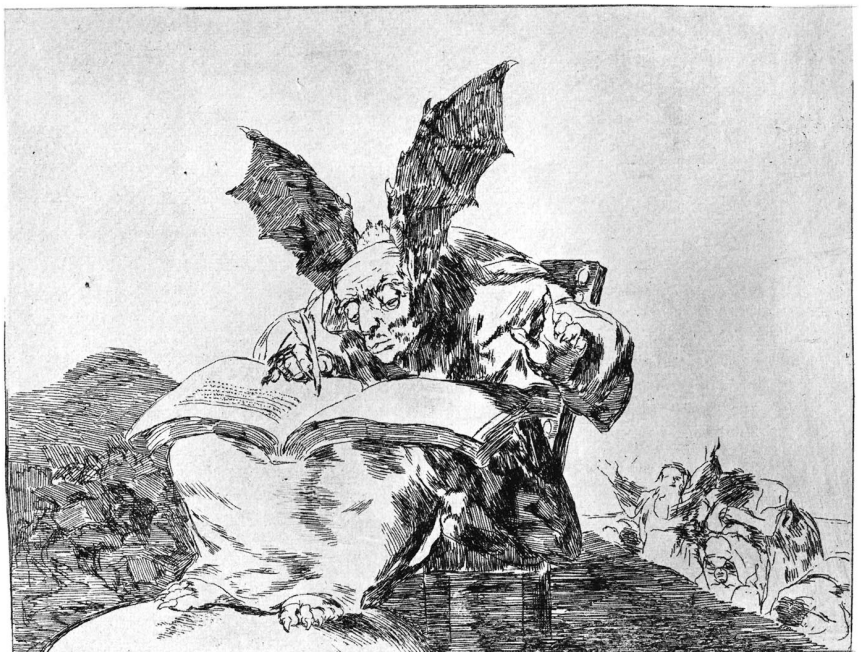
The failures of both the generally right-wing and frankly populist variants in types of leadership, must be considered as the kind of noise-making conducted on the periphery of that true constitutional patriotism which was aimed at the realization of the intention which had created in patriots' blood, this, our constitutional republic.

Meanwhile, the creation of Federal credit for the establishing of a platform of scientific and technological progress as the overriding policy of the U.S.A. must continue to override the intentions motivating that "environmentalist" nonsense which had been launched inside the U.S.A. as the tradition of the treasonously inclined President Theodore Roosevelt, a Theodore Roosevelt who had been the nephew and protégé of the uncle who was convicted of the crime of having been worse than merely a traitor. That Theodore Roosevelt, who happened to have been launched into leading U.S. political functions by the traitor and pro-slavery son-of-a-bitch, Roosevelt's uncle, Bulloch, who had served as the London-based Chief of Intelligence for the Confederacy and was the virtual creator of the political figure of Theodore Roosevelt, should have his so-called "enviromentalist" oligarchical policies of suppression of scientific progress cancelled forever, now. These were British inspired, alien expressions of "Green" policies which were to become a violation of the intent of the Federal Constitution of the United States. Those who can not accept that fact today, should be instructed that they can remain among us, but their evil, and implicitly treasonous policies toward mankind will not be tolerated any more. The practice of such "greenie-ism," is a crime, sometimes of the proportion of a major felony, even an act of treason against the clear intention of our Federal Constitution.

There are some other categories to be considered before turning to our more positive considerations here.

For example, the useful applications of the standard of physical economy must apply the principles of bankruptcy to purge a national economy of worthless values, such as those traced in the recent U.S. history of J.P. Morgan's asset Alan Greenspan, the which were already, or retrospectively intrinsically worthless at the time they were initially uttered as named monetary

6. Jackson's actions to shut down the Second Bank of the United States, actions taken on behalf of his master and successor, Martin van Buren's fraudulent Land Bank swindle, wrecked the credit of the United States for some time to come. These actions by Jackson and van Buren which opened the gates for Lord Palmerston's launching of the more energetic promotion of Britain's control, armed defense, and promotion of the Spanish importation of captured African slaves into the United States' expanded plantation-system, were assisted by an action which been aided by the destruction of the Cherokee nation ("The Trail of Tears"). Palmerston et al., used the effects of the operations of the scoundrels Jackson and van Buren, to introduce Palmerston's "Young Europe" branch into the United States. It was this American branch of "Young Europe," "Young America," which became the Palmerston-backed Confederacy created and intended by Palmerston as a means to destroy the United States. Earlier, Jackson, incidentally, had been caught red-handed in a tell-tale Aaron Burr operation intended to break apart the territory of the United States. Burr himself had been, at that time, personally an agent of Lord Shelburne's Jeremy Bentham, the "dirty tricks" operator, as chief for such functions of the British Foreign Office created under Shelburne in 1782.



Francisco Goya (1746-1828)

"Against the common good," etching from The Disasters of War.

assets, that done quite fraudulently.

In contrast to that, the very existence of the United States now depends, absolutely, on the elimination of the implicitly criminal effects of that subversion of the constitutional provisions which freed the United States from the alien policies of monetarist practice from any part of the authorities over our government of the United States. This time, we must ensure that Glass-Steagall is made to stick, without possibility of compromise to the contrary.

Thus, it would be impossible, without a very strict version of the enforcement of Glass-Steagall, to be tolerant of any part of the presently ruinous economic policies of the likes of Presidents George W. Bush, Jr. or Barack Obama, or to ignore the presently manifest fact of the hyperinflationary magnitudes of the intrinsically worthless and fraudulent debt created under the successions of those same George W. Bush, Jr. and Barack Obama. On that account, it is absolutely required that we prevent that destruction of the United States which had occurred under the reign of those errant Presidents, or their part in a swindle of the people of the United States which would not have been possible without an intrinsically fraudulent argument employed for the Congressional nullification of that implicit principle of the U.S. Constitution which is located as having been the basis for the 1933 Glass-Steagall law.

What should be done, must be done to the effect of casting out the devils responsible for the incredibly dumb 2008-2011 "bail-out" debt of the United States and that debt itself, thus sending such wicked notions to the Hell to which all of the worst of the worthless works of Satan must be relegated, if the continued very existence of the United States is to be assured.

There are no honestly practical alternatives by which to thwart the evil intention of the successive subversion and swindles embedded in the role of the now former J.P. Morgan agent and Ayn Rand devotee Allen Greenspan's swindles, those swindles which had been launched in a time since his role as an agent of J.P. Morgan during the early 1980s. There is no reason that his role might be considered morally a legitimate practice in law under the U.S. Federal Constitution in the past, or today. That neglect of truth which the toleration of his swindles represents, such as the disregard for law, or other expressions of justice, such as the rights of life, liberty and justice, now persists, perpetually, as a form of falsehood and cheating, against the honest practice of the honest law of an honest nation.

Otherwise, presently, without the immediate action required to restore the remedy of the original Glass-Steagall Act, the existence of the present United States (and relevant other nations), would soon be ended by what is presently the already ongoing acceleration of hyperinflation during the course of the months now immediately ahead, So, in the failure to re-enact Glass-Steagall now, the governments of the entirety of the trans-Atlantic regions must crumble. That crumbling is not merely ongoing presently, but, at an accelerating rate of disintegration. Under the present regime under London's bought-and-paid-for election of President Barack Obama, our United States would now soon cease to exist.

That benefit to our republic and its posterity which is the alternative to such a fatally destructive type of state of bankruptcy as that which has been expressed as the menacing outcome of the recent decades of practice, must become the benefit which re-enactment of Glass-Steagall now uniquely affords; this is an elemen-

tary fact of the matter. This benefit is to be found as being rooted in the example of the manner in which the United States' Alexander Hamilton defined the crucial physical-economic principle of a responsible form of national sovereignty, the principle of economic reform on which the unique design of the original U.S. Federal Constitution was premised, the same principle which the original intention of Glass-Steagall expressed.

To understand this point respecting the origins and continued implications of that Constitution's roots, it were sufficient to discard the silly, drunken-like presumption, that our Constitution prescribes a typically British design of some silly sort of precedents of "do's and don'ts," each one at a time, and each, relatively, independently situated, in a largely ad hoc practice in law.

Contrary to a shameful sort of British notion of a "common law,"our Federal Constitution expresses nothing less than a supreme principle of a design for a type of government committed to the endless supply of positive improvements in the human condition. This was adopted in opposition to the doubtful merit of largely makeshift, putatively cunning evil in British law, the law of a systemically parasitic form of rules of combat better suited to debating the assignment of the awards from awards made for the evening sport in a boxing, or wrestling ring.

Now, that said to dispense with the evils just described here, thus far in this present chapter, and for the remainder of this report, we shall be focussed on several crucial points of the history of Europe-based development of the reigning principles of government of and among nations. I present that case not always in nominally historical order, but according to the notion of the manner in which the changing processes represented as systems of European-rooted government since the fall of the Asian-based Achaemenid Empire, have shaped the relationship between, on the one side, the principled political reign of systems of government, as those changing systems have interacted with the discoveries of the physical principles which respective systems of government have often violated, but which have been, nonetheless, identified with, in one respect, respective systems of government, as being seen in a relationship to the changing characteristics of the knowledge and practice adducible as physical principles.

Francisco Goya (1746-1828)

Who supports the weight of the oligarchy? Caprichos, etching, "You can't do it."

That means, implicitly, not to overlook the fact that we must emphasize the point, that all willful actions by governments and peoples have consequences; All policies of government, either government in general, or particular periods of governments of our U.S.A., reflect the differences between actually patriotic U.S. Presidencies, on the one side, and, on the other, those figures and factions more inclined to recklessly negligent, or even treasonously imperialistic forms of such British-system-modelled pursuits and diversions as those echoing the monetarist practices in the Roman and Byzantine imperial and Venetian monetarist traditions.

Therefore, the relations between systems of government and nature, either among, or within nations, are

Francisco Goya (1746-1828)

"And they are like wild beasts," The Disasters of War, etching.

often those of respectively opposing authorities, distinguished from one another as both the will of man and the will of man's accountability to the principles of nature which are expressions of the superiority of humanity to the beasts. These differences are not always an expression of systemic forms of opposition, but have been usually at odds in effects of practice, among actually known governments, often even as systemic differences among the cultures of sovereign peoples. Taking the record of case to case, these differences are not necessarily in conflict by intention, even when, as in instances of ignorance of principles on either or both sides, the effects of the difference in authority among the two types of cases may define a serious conflict. Higher orders of principles must be applied to the relations among sovereigns.

Ultimately, the conflict tends to be between the ego of government *per se* and the principle of nature which human scientific and related revolutions express. There is no simply rational resolution of the difference between the two categories, since, as we know from current experience, in particular, that misconception of both government and nature by the current British monarchy and the recent President George W. Bush, Jr., and worse Obama Presidency, could not be properly considered as anything different than being insufferable on true principle to all or any part of the human species, and to the positive evolution of the system of nature more generally, alike.

Those are, so far, broadly defined considerations, but they should be considered for adoption as the ostensibly conflicting considerations to be taken into account in the following pages of this present chapter. The only form of actually efficient approach to deliberation on the matters stated thus far in the present chapter, is to shift the emphasis of the discussion to physical economy, as such, rather than monetarist systems.

The Case of Arthur Burns, et al.

I begin the following part of this present chapter with some highly relevant remarks on my investigations of the 1957 effects of the particular insanity of the economic policy formed under Arthur Burns' leading role for this under the Eisenhower Administration, with primary emphasis on the exemplary effects in the marketing of automobiles over the interval of 1953-1957.

The most crucial of the cases considered on that account, was that of those marketing and related financial practices of retail and wholesale sales of automobiles, which played a central role in bringing on what I had forecast, in Summer 1956, as the February 1957, sudden plunge of the United States into a steep and stubbornly prolonged recession, that up to and into the earliest years of the John F. Kennedy Administration. It was my study of the U.S. economy centered on the leading role of what I discovered as the clearly fraudulent aspects of the automobile marketing practices of that pre-1957 period, which had first established my toe-hold on successful economic forecasting, and has remained as my increasingly significant role conducted under what came to be recognizable as my uniquely superior credentials in the function of long-range forecasting, this from that time to the present.[7]

7. At the time I made that forecast, I was employed as an executive of a consulting firm in its New York City offices. Notably, I ran into a conflict with certain other, relevant officials of that same consulting firm,

Just as the post-Franklin Roosevelt United States had become the victim of a return to the same practices of Wall Street and London which had caused the so-called "Great Depression" of the 1930s, London and Wall Street who were personally the authors of installing the Nazi Party and Hitler regime in Germany and similar tendencies in London's partner France of that time, the allied victory of the 1944 landing in France had unleashed Wall Street and Churchill to return to "old ways." Once London and Wall Street foresaw the coming end of the Franklin Roosevelt administration, Wall Street, in particular, had gone back to the ways seen in the launching of Hitler into power by the actions of Brown Brothers Harriman's financing of that financial rescue of a bankrupt Adolf Hitler which had been part of the Bank of England's Montagu Norman-led effort in bringing Hitler to power, and taking down, suddenly, all the political parties which had been rivals of Hitler.

President Harry S Truman, a traditional Wall Street hawk in the Senate during the early years of the U.S. engagement in World War II, became, as President, a shameless boot-licker for the post-war policies of Winston Churchill, thus accompanying a rapid turning back toward the pre-war policies of Wall Street's and of some others, which included those of persistingly fascist proclivities under the Truman administration itself.[8]

Francisco Goya (1746-1828)

Arthur Burns or Alan Greenspan? "Phantom dancing with castanets," black chalk.

The immediate policy of the British interests then, and of Wall Street, once Franklin Roosevelt were dead, included among its most notable features Bertrand Russell's September 1946 declaration of the intention to launch "preventive nuclear war" against the Soviet Union, a policy certainly not alien to the bosom of a Winston Churchill then moving into his waning years. Later, with Josef Stalin conveniently dead, Stalin's successor Nikita Khrushchov, entered into an arranged pact of understanding, negotiated at the meeting of Russell's World Parliamentarians for World Government, with the same Bertrand Russell who had at-

that over the issue of this forecast. They insisted on statistical forecasting, which I knew as an inherently incompetent approach to the matter at hand at that time. Those advocates had not understood the significance of the practices typified by the role of Robert S. McNamara at Ford, where the most notably worst of the relevant, damnable practices had been launched from an accountant's, rather than a scientist's standpoint. This had been done in defiance of the correct policy of the actual competent industrial leadership of Ford, the leadership which McNamara's promotion had superseded. The lack of competence McNamara and relevant others had shown, then, was relatively minor when compared to the "post-industrial," actually "post-human," lunacy radiated from Wall Street and London today. Accounting itself, which was largely created in its present form by the founding of the Federal Reserve System, especially the part played by Woodrow Wilson, has inherent fallacies in its practice, but, given the circumstances, competent accountants are useful; some, unlike McNamara, have been actually impressive as intelligent persons in their own right.

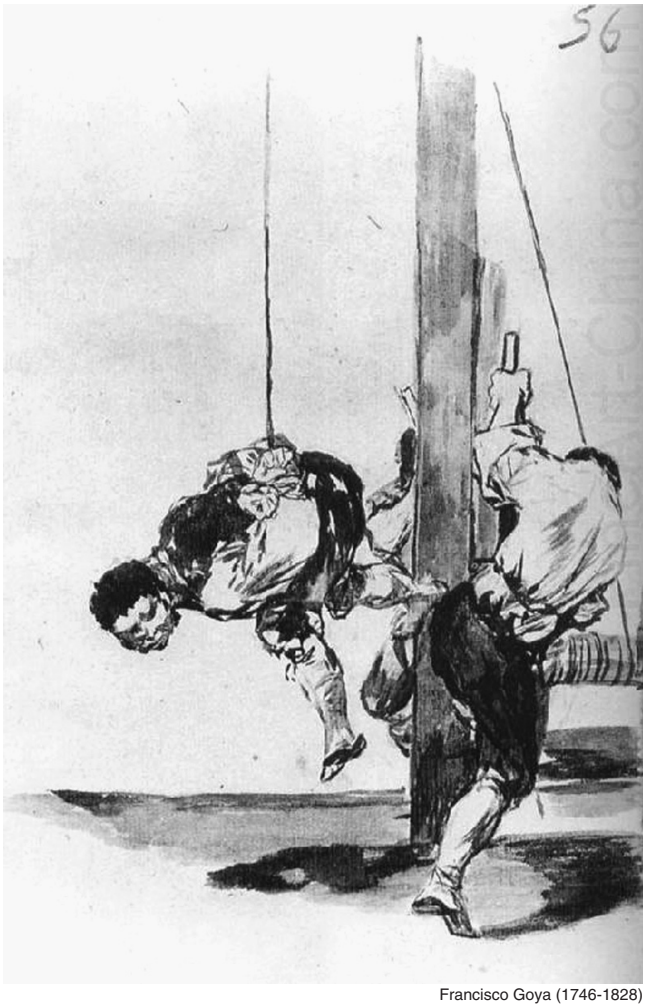
8. Lest my remarks be deemed "unfair" by some, the following should be put on record here. Although the modern use of the term "fascism" is traced prominently to Venice's Volpi di Misurata and his protégé Benito Mussolini, the content of modern fascism, the substitution of a dictator for an imperial monarch, is to be traced immediately to Bonapartism in France, which directly supplied the principal elements of content for the immediate model used for Mussolini's fascism. The case of Mussolini is to be traced back to the British Foreign Office-steered, terrorist wing of the French Revolution, as this was developed into a form which was expressed explicitly by Napoleon's dumping of his wife Josephine, who was tied to the pro-Ottoman, anti-Habsburg side of France's history, for Napoleon's marriage to a Habsburg princess. The coronation of Napoleon by the Habsburgs, had the net effect of reviving the legacy of the original Roman emperors more nearly. The resulting fascist conception became that of what is termed "governance" as the new name for the assimilation of the nations of continental Europe and others, in a form more nearly that of the ancient Roman fascism copied by the likes of "Il Duce." The long period of extended affinity between Winston Churchill and Mussolini, carries the smell of such affairs up through the present day of such advocates as the inherently disreputable Tony Blair.

tempted to launch a massive nuclear bombing of the Soviet Union. The independent Soviet development of nuclear weapons prior to Russell's intended stated readiness for launching "preventive" nuclear warfare, prompted the persistently evil Russell to return, for the remainder of his life, to the British "dark arts" of a modern Aristotle, rather than open warfare.

Now, as since beginnings under President Harry S Truman, the trend toward shucking the American model of economy for a Roman-British imperial form of globalized model, meant the shucking of American agro-industrial, high technology forms of physical-economic development, that done in support for a British imperial-like model of the type we tend to term, presently, as a "post-industrial" model, under which influence the main burdens of producing exports for the world market, the main burdens of agriculture and industry have been shifted, increasingly, to cheap-labor markets. This trend was represented in the model of the combination of the assassination of President Kennedy, and, later, his brother Robert, an assassination which was exploited to clear the way for both the launching and continuation of the war in Indo-China which the British interests demanded of the U.S.A., and sealed by the definitive economic step of puppet-President Richard Nixon's cancelling President Franklin Roosevelt's Bretton Woods agreement.

What is projected as part of the mass-genocide now pushed for the trans-Atlantic world from Britain's monarchy, as through the disgusting channels supported by President Barack Obama's advisor John Holdren and Britain's agent Schellnhuber, is a British-directed, global intention to reduce the world's population, very rapidly, to less than one billion, rather than Prince Philip's suggested two. This plain fact may be officially considered incredible among those who lack an understanding of even elementary facts, such as even the ABCs of history, but the British monarchy is doing nothing which differs essentially from the pro-genocidal practices of the ancient Mediterranean and similar expressions of what was known, explicitly, in ancient times as "the oligarchical model: keep the numbers of the underclass barefoot, ignorant, and minimal," such that the lower classes might never become enabled to overturn the oligarchical model typified by the British monarchy presently.

Regrettably, although the average American adult of my own generation, and a later generation or two, is not ignorant, yet, the extent of their knowledge has been narrowed, as much as convenience permits, to exclude



Francisco Goya (1746-1828)

Prince Philip's population policy. "Torture of a man," sepia wash.

the citizens' awareness of the larger picture in which the efficient motives of the leading oligarchical circles in the U.S.A., in Europe, and elsewhere, are hidden behind a screen of a widespread, cultivated ignorance of the true character and motives of that oligarchical ruling class which is mobilized like chicks in a brooder, around the central figure of the imperial, ever-drug-trafficking system of the British monarchy whose role in government had been long fit for permanent retirement from any status higher than a fancied-up show-case relic. The relevant principle to be learned from such facts of real life, is that much of what you apparently do not know were otherwise likely to kill you in vast numbers today. Imagine, the number of poor fools who refuse to face the fact that the World Wildlife Fund's Prince Philip does loudly and proudly in deed, intend to reduce the present human population to no more than two billions, and the British monarchy is doing about as much

as possible to bring that result, or not more than one billion, about, soon.

Take the case of the so-called "anti-nuclear freaks" of the so-called "environmentalist movement." The very policies which the freakish mass-ferment types harboring such persuasions advocate today, advocating this as their "movement," are those which they intend, shamelessly, will bring about, in fact, the induced mass-death rates which criminally-inclined minds such as Schellnhuber and President Obama's John Holdren are bent upon imposing upon the people of such nations as the United States now. What is explicitly intended, as openly stated, is a rate and mass of such mass-murder which dwarfs the evil intentions of Adolf Hitler in the extreme. These "freaks" are the incarnate echoes of the Flagellants of Europe's Fourteenth-century "New Dark Age." It is past time that such presently deluded fanatics of the *Three-Penny Opera* tradition, as that, be brought back to their senses in time to save even some semblance of civilization.

Francisco Goya (1746-1828)

Each against all. "Duel with Cudgels" (detail), oil.

The Science of Physical Economy

I have recently given way to the clear need of declaring myself committed to adopting a public utterance of a rather long-standing tradition of mine, one which has been based on my reflections on the scientific implications for today, of the practices of Charlemagne in, as a matter of fact, defining a platform of level of development of an entire territory, as he did in integrating the rivers internal to his region of Europe by creating a system of canals for a design which was finally completed in Germany during the 1990s.

Other, coincident, original features of Charlemagne's steps toward organizing a new quality of European economy, which were combined with the inland riparian development, had pointed to other factors, including the fact that the development of what was to emerge as the United States was based not only on inter-urban and other roads, but, successively, on riverway-canal programs echoing the Charlemagne precedent, and the extension of that riverway-canal development into, first, closely related railways running more or less parallel to canals, and, still later, the trans-continental railway system. The role of the introduction of steam-power and related applications of ever-hotter expressions of fire, to supplement the impetus provided by action related to railway development, emerged as the great strategic threat to the continued existence of the British empire which prompted a desperate British empire to cause the assassination of France's President Carnot, the launching of the fraudulent trial and sentencing of Alfred Dreyfus, the British-Japan treaty which launched the 1890s wars against Japan, Korea, and later Russia, and, also, the new Balkan wars which led into what became known as "World War I."

Against that indicated background, and my association as one among the founding members of the Fusion Energy Foundation (FEF) in the 1970s, and my personal collaboration, through the launching of the FEF, with Chicago University's Professor Robert Moon, I had set into motion a number of important developments, which, taken together, prompted me to define perspectives in terms of the nuclear physical-chemistry principle of "energy-flux density."

The notion of nuclear energy-flux density, in turn, impelled me to adopt the standpoint in a science of physical economy demonstrated by certain scientists of the time, as comparing the effectiveness of energy-flux density as a measure of the qualitatively differing forms of combustion and the like application of the general notion of the factor of energy-flux density in greater depth of insight to that concept's implications for a general principle of that type.

Such factors as speed of travel per ton carried, and other expressions of "heat-energy" concentrations, combined with inland water resources development, are now clearly established as being among the elements of related expressions of "energy-flux density"

which situate a national territory's potential for rates of per capita and per-square-kilometer, net productivity, as effects to be measured in terms per capita and per square kilometer.

Space exploration, including the development of orbiting and kindred use of satellites, are also among the relevant correlatives for defining principled forms of upward leaps in physical productivity, per capita, in combined Earth-bound and extraterrestrial terms of reference.

Such were the relevant considerations, considerations which have improved the quality of my assessment of economic factors bearing upon the appreciation of an Earth-based extension of mankind's engagement through further reaches within the Solar system, and beyond.

It was not a mere coincidence that the notion of continuing increase of "energy-flux density" should be applied to sundry expressions of extra-terrestrial development in their own right, in addition to their more immediate function "back on Earth."

The most notable other factor in the further development of this outlook, was the more recent commitment to abandon further defense of all conventional notions of space, most emphatically "empty space."[9] The enrichment of the work of the LPAC organization by the effect of our adoption of that "cosmic radiation" perspective, has produced what is, on reflection, an astonishing rate of increased progress in the team's successful advances, including advances which have been of considerable practical benefit in results thus far. The recently developed, relatively richer image of the role of the intimacy of the location of both the Earth and the Solar system within its own galaxy, was brought about through freeing the minds of our team from the burden of carrying the useless baggage of "traditional" belief in the existence of bodies separated by "empty space."

Although my dedication as a protagonist of physical economy, rather than of physical space-time, was in the making by the early 1950s, the breakthrough represented by our 2010 adoption of the ontological standpoint of "cosmic radiation," rather than "physical space-time," not only improved our appreciation of the accomplishments of Planck and Einstein, but accelerated the general rate of progress among, and by our LPAC team. It was only after we had experienced the dumping of: "space" and "space-time" as such, that we came to realize what a useless load of rubbish we had been carrying in the name of "space-time," earlier. Our appreciation, as followers of Riemann's powerful revolution, and of the work of Planck and Einstein, as also Riemann's successor Academician V.I. Vernadsky, increased greatly.

The effect of combining these matters in such a way as to incorporate the work of Vernadsky and his relevant associates and his notable followers in the matter of the distinction of living physical-space-time from the attributed physical-space-time of the Lithosphere, has also been crucial for us. The most significant among the related effects, is that these considerations suggest a location of one's sense of personal identity as not only somewhat freed from the shackles of enslavement to time, but, also, from the notion of limitation to the bounds of a place on Earth, as distinct from functional accountability for one's part in working within a "home" which is in the neighborhood of our galaxy.

The outcome, so far, of not only these and related discoveries made by the immediate associates of the scientific and closely related work of the LPAC team in these Virginia locations, has been an entirely fresh view which I have been in the process of experiencing, in my view of my own clearly implied duties in defining a meaning of physical-economic processes which is located in a point of reference looking back at Earth from what an imagined galactic point of intellectual reference of our experience as a team might be. It is the sensation of looking at human life on Earth as being more essentially in the nature of a galactic mission for the inhabitants of Earth, than merely being just another earthling.

Bernhard Riemann & V.I. Vernadsky

The entire span of the impact of the now globally extended modern European civilization, since the year of the birth of Nicholas of Cusa in A.D. 1401, until the present date, is, at bottom, all of a single piece which is qualitatively distinct in its separation from the specific characteristics of earlier history. Although the idea of modern European civilization presented in the expressed creativity of Dante Alighieri, was almost extinguished by the malice of Dante's foes, during the monstrosities of the Venice-played nightmare-themes of

9. During my immediate post-World War II years, when I began a modest, temporary career as a poet, I dedicated a short poem, titled "My Lyre," in which I envisaged the image of an idea of ideas as "bending stars like reeds." Notably now, the "me" of then, would have been pleased by my attachment to the principle of "universal cosmic radiation" now.

Europe's Fourteenth Century, the collapse of the core of the medieval system, including the deep setbacks to the satanic spirit of Venice, sparked the eruption of an entirely new conception of the very idea of a modern European civilization, that as a conception whose central expression became the great ecumenical Council of Florence in which the priest and scientist Cardinal Nicholas of Cusa emerged as the defining figure of the science, culture, and statecraft of that entire century, and for the emergence of modern science over the span from the beginning of Cusa's century to the present time. Leonardo da Vinci, an avowed and magnificently accomplished fruit of Cusa's influence, touches all of the principal accomplishments of science and statecraft into the lifetime of Gottfried Leibniz, and beyond.

The privilege of launching a fresh insurgence in the continuing legacy of Cusa et al. before them, combined with the crucial, later, transitional role of Friedrich Schiller, Carl F. Gauss and the brothers Alexander and Wilhelm von Humboldt and the legacy of France's original Ecole Polytechnique, have defined a new era developed within the Nineteenth Century, which came to be centered on the revolutionary achievements by Bernhard Riemann, beginning with his celebrated, multi-century-spanning 1854 habilitation dissertation, and continued through the work of such as Max Planck and Albert Einstein, into the commanding genius with which the world has entered into the richer meaning of the accomplishments of a great heir of the Riemann tradition, and today's exemplary prophet of the present cause of humanity's science, Academician V.I. Vernadsky.

Our chosen task must be to develop the means for fulfilling those missions which now lie even beyond that which we, or others on this planet presently know. The consequent choice which we must select as our evolving mission, is to foster the generation of those leaps in scientific and related powers of work which are not only what mankind needs as advances in those benefits of fundamental qualities of scientific progress on which the continued existence, and improved welfare of mankind depends, but, which, above all, mean progress from moving rocks on Earth, to galaxies above, as we now read the injunctions of **Genesis** 1.

The achievement of that, or any kindred sort of intention, becomes, thus, for those of us who accept such devotions, that quality of immortality which the true mind of the individual person may achieve through sharing in the creation of those principles of progress which, as principles, are truly immortal, since they continue to live on as known and knowable principles to guide humanity upwards, as principles which live on, fully efficiently, after the discoverer is officially mortally deceased. The distinctive principle of human life so observed, becomes, in and of itself, the expression of that immortal principle for which we are the servants, the mission assigned to humanity, to create the discovery of the miracles which conquer the obstacles of the apparently impossible.

The outcome . . . of these discoveries made by the immediate associates of the scientific and closely related work of the LPAC team has been an entirely fresh view which I have been in the process of experiencing, in my view of my own clearly implied duties in defining a meaning of physical-economic processes which is located in a point of reference looking back at Earth from an imagined galactic point of intellectual reference of our experience as a team.

The shift which we participants in the spirit which inhabits the intentions of our scientific team now sense as the galactic implications of the mission currently set before us as part of our devotion, gives us, thus, a confident sense of inspiration for identifying and working to contribute to the missions which we are discovering as the challenges now emerging, including ominously menacing ones, before us.

Mankind's essential nature, which **Genesis** 1 attributes to the creative powers which man and woman are entrusted for the outcome of the future, is now confronted with a now actually galactic quality of implicit challenge respecting the future. Much is now in doubt, but the mission we currently share remains a clear, and uniquely clear one: devotion for the sake of the outcome of the implied mission which our species is presently entrusted as a mission within the region of our galaxy which we must now recognize as the region of our immediate concern on behalf of the mission of our human species in the large, that for the outcome of the fact that the presently living have, indeed, lived as those with the intention of the immortals.

A NEW DEFINITION OF MANKIND

Taking Charge of the Solar System and the Galaxy

The LPAC-TV Weekly Report for May 11, 2011, was hosted by John Hoefle, and featured guests Lyndon LaRouche, and Basement researchers Sky Shields and Cody Jones. The video can be found at http://larouchepac.com/node/18144.

John Hoefle: Hello. Welcome to the LaRouchePAC Weekly Report, for May 11, 2011. With me in the studio today are two members of our Basement Team, Cody Jones and Sky Shields, and joining us from Europe, Lyndon LaRouche.

Lyndon LaRouche: There's an interesting subject we should take up today. It has two aspects to it. First of all, Cody [Jones] is pulling together something which will probably be done in, not more than two weeks, this week and next, probably, without glitches: a very important coverage on the history of life on planet Earth, which goes from a long time, about a half-billion years ago, or near that, to the present time.[1] And there are objective lessons to be learned from just what we know, or as much as we know today about that history, which bear upon the present world situation; and especially upon the question: What is the difference between the animal kingdom, which preceded human life by a long time, [and human life itself]?

Animals of various kinds and forms of life have been around for the better part of a half-billion years, whereas mankind is estimated to have been around for only a few million years. And there are a lot of questions which are posed because of the differences, the fundamental difference, between mankind, as a species, and the category of every other form of life known to us today.

There may be something comparable to human beings among planets of those millions of stars, called the Milky Way, of which we're a part, as the Earth. But otherwise, what we know as handshaking agreements with anything that looks like human, is so far limited to human beings as such, although we can not exclude a certain high probability, from the kinds of information that Cody's prepared to summarize, that there is nothing to exclude the possibility that life like that of human beings may exist in a number of locations inside the galaxy: That is something yet to be determined. But we can not exclude the possibility that that is the case.

Or maybe there were life forms like man, before, who were extinguished in so many of the casualties which came up in the course of the Milky Way, but that's it. So, today, we're stuck with man. And we have to act as if mankind were the only species of our kind in the universe. And that poses some questions.

What's the difference between man and an animal? There is a fundamental difference. And many people theoretically say, "Well, man is just an animal, or man

1. Now posted at: http://www.larouchepac.com/galactic-question

NASA

We develop scientific instruments, like microscopes and telescopes, to extend our reach beyond the five senses that come with us, "in the box," to areas which are inaccessible to ordinary human sense-perception. Shown: the Hubble Telescope, and the Eagle Nebula, one of the thousands of images taken by the Hubble, showing us our beautiful universe far beyond what the eye can see.

NASA/J. Hester, P. Scowen (Arizona State University)

is just an improved animal." But man is *not* just an improved animal.

From what we know of every living species, as much as we know, only mankind, who is estimated to have been on this planet, no more than a few million years, maybe 7, maybe 5 million, only mankind has shown the characteristics of the creative powers which mankind expresses.

So, mankind is a very distinct species. For example, the problem that people have today, is they look at mankind as an animal. Most opinion, even most expert opinion, psychologists, psychiatrists, and others, still think of man as definable as a form of animal which can talk! And they compare the screechings of monkeys, and so forth, things like that, with man—it doesn't work!

The crucial part of mankind is mankind's creative powers. That is, mankind's ability to, in effect, change its species, not as mankind, but change its species in respect to the *powers* of mankind, with respect to man's relationship to nature around us.

And this involves a very interesting problem: Most people, including experts in these fields, on this planet today, believe that the human mind is a product of sense-perceptions. Now, the curious thing about this is, that there is a tremendous amount of evidence which says that mankind is not defined by sense-perceptions, even though most people, including many scientific experts will insist, that man is a creature of sense-perceptions. Most people, even thinking people, presume that they are primarily based on dependency on five biological kinds of sense-perception. None of which is true.

Mankind is the only creature which is capable of creativity, and thus, I would say the following, and I'm prepared to back it up: That the distinction of mankind, is mankind's creative powers. Which means that unlike the typical animals, in and of themselves as a species, an animal based on powers of sense-perception—unless something intervenes, like a human being from the outside, to change that—that only man has an *actual mind*,

a mind as distinct from the array of sense-perceptions.

Now one of the things we can say about this today, is that since modern times, especially since modern times with some glimpses back from the ancient Greeks, such as Plato, it was understood that the human mind was not a product of sense-perception. It was not bounded within the framework of sense-perception. And that's the big difference.

Mankind has a mind, or the ability to manifest a mind which is independent of sense-perception. Modern science gives us a very clear picture of that kind of evidence: That what we know, in the discovery of principles, is that the power of the human mind, the so-called creative powers, the powers to create a *new state of mind*, involve demonstrations of the use of artificial senses, as in the form of our sense-perceptions, as the faculties of our mind. Most people who are ignorant of this, will assume that you can trace what people think, and how they think, to the powers located in sense-perception, or in the so-called animal sense-perception, or the biological sense-perception. That is not true. The human mind is not a product of a mere brain, nor of sense-perception, but is actually a product of what we might call cosmic radiation, a peculiar feature of cosmic radiation, which gives man a special power that no other known living species has.

Now, the best way to understand this, from a practical standpoint, is to look at the way the so-called five senses have been superseded, especially by the progress of science. We go beyond that, because we are able to recognize principles, which are not limited to sense-perceptions, and we're able to recognize in certain cases, that the mind itself, directly, is not controlled by sense-perception.

So that's where the point stands.

From Mathematics to Physics

For example, you look at the concluding third section of Bernhard Riemann's 1854 habilitation dissertation, in which he outlaws the use of mathematics as a controlling influence over physical science. That physical science is something above and beyond the limits and boundedness, of sense-perception, and says: To understand the universe, we must *leave* the department of mathematics, for physics.

Now, what does that mean? That means that we develop instruments, for example, microscopes: Now, small electron microscopes and other things, take us way beyond any possibility of ordinary sense-perception. So you have a microscope, or a telescope, or similar kinds of things, which go into the very small or the very large, which are areas which are inaccessible, to ordinary human sense-perception. What we do, is we take our faculties of sense-perception, and we can create some artificial ones as well. And we now utilize, we create, instruments which act as a middleman between man's natural sense-perceptual powers, and matters in the very small or the very large. We enter into domains which are too hot for mankind to exist in. We span distances which are way beyond mankind's reaches.

Now, what happens then, is that by adding these particular factors—for example, let's take the case of earthquakes: Now, lying idiots called physicists, or scientists, will tell you that you can not forecast an earthquake. But the fact of the matter is, as experimental demonstration has shown, that we *can* forecast earthquakes. Now, the question is, with what precision can we forecast earthquakes?

Now, actually, dogs, birds, snakes, fish, and so forth, do a much better job than we do, in forecasting earthquakes! And that's because we have given up some of the natural capabilities of animal life, in order to free our mental capacities, for *freedom* in choosing concepts, and means by which we explore the universe beyond the limits of sense-perception.

So, presuming five senses, which is what people believe, Riemann says, "no." Riemann says, in particular, mankind's knowledge of the universe does not reach into the very large or the very small. Ah! But with a microscope, with a telescope, and with other instruments, *man's mind* reaches into the universe, into the very small, and the very large! We have all kinds of sense-organs, artificial ones, which man creates in the form of instruments, and similar kinds of thing, where, by interpolation, we are able to take a combination of different kinds of senses, either the natural ones we have, or artificial ones which we create, and we can discover things that are not otherwise possible to the human mind.

And these sense-perceptions, artificial sense-perceptions, throw us something which was demonstrated to us most dramatically, by Johannes Kepler's discovery of the principle of gravitation. What Kepler did, having discovered the organization, of two of the inner planets with respect to the Sun, in his first major work, then goes into a later work, and compares this as an image of what the Solar System is organized as, in the sense of a visual-like image of the Solar System's organization, a visual-like image which *he* had crafted, based on his discovery

of the nature of the orbits of Mars and Earth.

Now, by comparing the harmonics, the natural harmonics of a natural musical scale, and comparing the sight image of the Solar System with the sonic image of this harmonic scale, it came to an irony, in which the notion of the principle of universal gravitation—that is, the principle of physical organization of the Solar System—was *independent* of *either* sight or harmonics, but depended upon a combination of them both, where a crucial value was determined by the ironies of a conjunction of both contrasting values.

Now, what we do in scientific instruments, we do the same thing. We build a great number of instruments, which measure things, electronically in particular, that we can't see, that we don't, as human beings, sense; maybe animals sometimes do sense. We take a combination of these, just the way that Kepler looked at the difference between the line-of-sight conception of the Solar System's organization, and the harmonic organization of the ordering of the Solar System, and found a value which was *neither*, but a conjunction of the contrast with both.

And this is what the meaning is, has been from ancient times, of what we call "real science": is using factors of observation, which create paradoxes which can not be solved by simple sense-certainty, by doing it as a contrast, a paradoxical complex in terms of the attempt at sense-certainty. In that way, mankind has created new kinds of sense-perception very richly, so that our knowledge of the universe is much greater than would have been possible a long time ago, except that we require *some* natural sense-perceptions.

In other words, if someone had no sense-perceptual capabilities, we are on the verge of demonstrating that we can artificially create scientific instruments, which will enable a person with *no* sense-perceptual capabilities, to acquire them from some other function in their body.

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There may be something comparable to human beings among planets of those millions of stars called the Milky Way, of which we're a part, as the Earth. But otherwise, what we know as handshaking agreements with anything that looks like human, is so far limited to human beings as such, although we can not exclude a certain high probability, that life, like that of human beings, may exist in a number of locations inside the galaxy: That is something yet to be determined.

—Lyndon LaRouche

So, that becomes the new definition of mankind. We realize that the identity of mankind does not lie in sense-perception, or in sense-certainties. The identity of mankind lies in the demonstrated ability of mankind to invent factors, such as instruments or interpretations of experience, which become precursors of the predictable events. And that we are able, therefore, by understanding that, to introduce factors *which change* the course of events, by understanding these precursors.

Sense-Perception Is Not Mankind

For example, simply today, we are now capable, despite a President of the United States who wants us all to die, apparently, to forecast major earthquakes. Even in the order of 9 through 11, we can forecast them, in many cases, to give humanity time to move to safety, temporarily, while this event is going on. We also can find out ways, by these means, to prevent some of these things: In other words, mankind has a potential, increasingly, to control man's existence and the possibility of existence in the universe. We know this possibility is not limited. It's only limited by what we do in the direction of finding that.

Now, we also know something else, which is rather embarrassing. We know that if the program were allowed, to limit sources of power, as the Greenies demand—no nuclear power, no modern science, population reduction to less than 1 billion people which is what this crowd is proposing right now—*that probably, mankind would be extinguished, in the same way that entire species of life were extinguished in crises of previous times.* Over 90%, probably about 95% or more, of *all forms of known life* which have existed on Earth in previous times, *have gone extinct,* although at the same

time, new species have come into play, to replace them. But we are now approaching a condition, where we must speculate on the possibility, that you can have another mass kill of life forms on this planet, and it could happen to us as a species.

The only way we can work to prevent that, or secure that not occurring, is by inventions of the type I just described: By using the creative powers of the *mind* of man, to introduce changes in practice which will enable man to construct a way of surviving. But in the meantime, the fact is, that the simple passage of time uses up the effectiveness of what had served us well before. We always have to go to higher forms of energy-flux density, for example, and to comparable changes in the conditions of human life, *even to maintain human life in its present condition*, the advantage of this present condition.

And we look at this, and we say, then, human sense-perception, and the function of the brain as limited to sense-perceptual functions, is not mankind! It seems to be animal mankind, except when man intervenes on behalf of the animal. Mankind often saves animal species, which otherwise are fully qualified to have gone into extinction long before this! Man's intervention is capable of preventing that. Man's intervention can prevent this from happening to mankind himself.

And in this importance of preceptors, which enable us to control processes beyond our previous imagination, which enable mankind to survive when no other living species *could* survive, except mankind with his special qualities: We know that the secret here, lies *not* in sense-perception, but in some strange process we do not fully understand, a principle of creativity, of intellectual creativity of a form which is specific to mankind. We know there's a relationship between this, and mankind's ability to develop *synthetic* powers of perception, which supplement, or even replace, damaged powers of normal human sense-perception, raw sense-perception.

And therefore, we realize that mankind is distinguished from the animals, by being an intrinsically creative species. And what is needed today—we know, for example, the greatest proposal for *mass murder* of mankind on this planet is now in progress, under a program which is now launched under the British monarchy, and which is being introduced as policy into the United States, under this Presidency in the United States: If this man is allowed to continue the policy he has now followed, since his inauguration, *the extinction of mankind is probable. And the extinction of the United States and the people on it, is actually certain, and guaranteed, and that, in short order.*

So the time has come, where we have to recognize these powers of creativity, which are implicit in two places, notably, first of all, in Bernhard Riemann's habilitation dissertation, especially in the concluding section of that; and also in the work of many people who have followed Riemann, most notably, Einstein, Planck, and then, of course, our great Russian friend, V.I. Vernadsky.

So we have now come to a point, where mankind must take charge of the planet, by reaching out to begin to take charge of the Solar System, and to reach toward being able to do something about a peace agreement with the galaxy, where mankind can live.

What Cody has been working on, as a particular project, which he's headed up, in this thing, is a picture of life, of the history of life, from primitive types, up to mankind now. And what this demonstrates, is, that the idea of a fixed system, the idea of a Second Law of Thermodynamics, *was a complete fraud from the inception.* There is *no truth*, to the idea of that, of a Second Law of Thermodynamics: It's a fraud!

In point of fact, since they're claiming this is a universal principle, a physical principle, how do they reckon with the *history of life* on this planet? From a half-billion years ago, up to the present? Despite all the kills, the mass kills of entire species, which occurred repeatedly, new species have come into being, which are of a higher order, or more useful to a complex of a higher order, than before? So actually, life on Earth has demonstrated its ability to *be* life on Earth! And by the inclusion of man, as life, the role of man supplies to life in general, the ability to say that if we can go for higher and higher orders of scientific progress, to more inventions of the mind and of the creative side, *we can save mankind for a meaningful future!*

And that should be the basis of our understanding of our Federal Constitution, today: That we are committed, to preserve the legacy of the self-development of human life on this planet; that we will *tolerate nothing*, which jeopardized that, or threatens to jeopardize that!

Man is a sacred creature, whose mentality lies in the universe, lies outside the mere bounds of sense-perception, or the human mind. For example: the crucial thing is, the discovery of the universal physical principles. Everything that mankind has achieved, is largely dominated by man's discovery of universal physical principles, with less and less imperfect insight. That's the basis of progress. And therefore, that defines what our

culture must be: We must go to higher orders of energy-flux-density, as man's existence. We must accomplish this by discovering new principles, which lie beyond—far beyond, now, today, those of sense-perception.

So give up the idea, that the human personality is a function of five senses—it is not! And science so far demonstrates that, fully. When we think about the number of things that are out there, that we are already using as mankind, which can *replace* lost powers of sense-perception, or invent powers of sense-perception, which are not existing normally within mankind—*this* is what mankind is! This is the implicit constitution of mankind, a constitution which is expressed *efficiently* by the provisions of the U.S. Federal Constitution, *and our opposition* to the enemy of civilization, called the British Empire, today.

So that's the general thesis; I thought we should kick it around.

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Probably, the greatest repudiation of what the Green movement represents, is the reality of the biosphere and the environment itself. If you look at the actual history of the biosphere, the actual history of the development of the environment on our planet, it has been one which has gone through successive stages of evolutionary upshifts.

—Cody Jones

The History of the Biosphere vs. the Greenies

Cody Jones: Okay. I would just start by saying, when we look at current popular opinion, we find it wrought with irony, potentially tragic irony, but that's where we come in, and particularly when you look at the Green movement, and you look at this guy Schellnhuber,[2] and you look at Prince Philip and what they represent: Probably, the greatest repudiation of what they represent as the Green movement, is the reality of the biosphere and the environment itself.

Because if you look at the actual history of the biosphere, the actual history of the development of the environment on our planet, it's actually been one which has consistently gone through successive stages of evolutionary upshifts. That, whereas the Green movement says, "We've got to put ourselves in some state of equilibrium; we've got to find a balance with the environment. We've got to subject our activity now, to the current state of the environment"—by doing that, we're effectively locking ourselves into the same type of potential that exists in the past, which brought about the extinction of many kinds of species, or set of species, that locked themselves into a current state of existence in the biosphere.

As Lyn has mentioned, a video is going to be coming out, that looks at the last half-billion years on the planet, which has been one punctuated by extinctions, but extinctions which seem to be coincident with a process governed by very large galactic and extragalactic processes. First of all, we find that there's a 62-million-year trend, just in biodiversity change, that every 62 million years, you see this sine-wave kind of change of increase and decrease in biodiversity.

Now, along with that, you have that punctuated by very large collapses in the biosphere, and in life. The one I think people are most familiar with, is what happened with the collapse of the dinosaurs, the extinction of the dinosaurs.

Now, there's a lot of evidence that indicates that that extinction came about as a result of some sort of trigger, associated with cosmic radiation, associated with our Solar System's movement through the galaxy. So it wasn't something which was just an Earth-bound effect. It wasn't just something that occurred as a function of life on Earth, per se. But it was a function of a much larger galactic process. Exactly what that process is, we have to do a lot of work to find out, but we know it's galactic in nature, just by the sheer scale of the kind of cycles we're looking at: 62 million years.

You know, whenever you try to locate an entity

2. Prof. Hans Joachim Schellnhuber, head of German Advisory Council on Global Change (WBGU), and author of "World in Transition: A Social Contract for Sustainability" (see *EIR*, May 13, 2011).

which can afford you an image that would produce something of that scale, you have to go to the level of something like that of the galaxy. So, within that process of a cosmic radiation-mediated cyclical process, we had something like the extinction of the dinosaurs, that was accompanied with, potentially, mass viral infections, which themselves may have a cosmic radiation trigger, volcanic eruptions, other such things; asteroid hits, there seems to be a combination of different cataclysmic events which all contributed to bringing down, in particular the dinosaurs and what were the reigning species of that time, sort of the dominant forms of life on the planet at that time.

Now, there's one thing which is that, many of the kinds of factors which seem to have brought down the dinosaurs per se, seem to be now becoming more and more abundant in today's world: When we look at the earthquakes, we look at the threats from volcanoes, we look at the general increase in tectonic activity; we look at even what's going on here, in terms of new forms of viral infections, and other things which themselves could have a cosmic radiation trigger. So we're in a period now, where we're seeing an increase in the types of effects which have been known in history to have brought down whole epochs of life on the planet.

So that's one side. That's where we're potentially heading. And there are a lot of indications that say, in terms of the galactic cycles themselves, that we're in phase with periods of the galactic cycle which have corresponded to some of these major extinction events. That's on one side.

Now, if the Greenies have their way, and we continue to reverse technological progress: If we say we're not going to go with nuclear power; if we say, we're not going to go for development of the Third World, well then, we're subjecting our activity, to the existing state of the biosphere. And, as we know, any existing state of the biosphere is always subject to elimination, to destruction. That's what history has shown us.

The flip side of this—and this is where the real irony comes in, and shows just the insanity, and the sheer stupidity, and really, the murderous intention of the Greenie movement—is that the reality is, that in periods coming out of those extinctions, those have actually coincided with periods of biological upshift, of nonlinear development. For example, out of the extinction that occurred toward the end of the Ordovician period, that was actually the period when life first moved out of the oceans and onto land—major plant life, out of the oceans and onto land. That came out of an extinction, but represented then an upshift towards a higher state of the biosphere.

Now you had life on land, you had the potential to capture water over land masses. You had the creation of storms, the Schuman resonances, things we've gone through in the video recently put out by Oyang Teng.[3]

Then, after the next big extinction, the Devonian extinction, where you had, again, another massive wiping out of the existing state of life—but what emerged immediately out of that? That's when vertebrate life first went onto land: You had the amphibians and the reptiles came out of the oceans, and moved onto land. So again, out of the major extinction, you had another upshift, where now you had moving life, you had vertebrate creatures on land. That meant that the biosphere now a greater potential for the movement, reptiles and other large creatures, and very great spreaders of bacteria, of seeds. So now the biosphere had a greater capability to spread and enhance its existence, coming out of an extinction.

The most famous one, coming out of the mass extinction of the dinosaurs, to get back to that, was then, the explosion of the mammals: So, in the wake of the collapse of the dinosaurs, that's whenever you had the takeover the planet by mammals, which represented a much more highly evolved type of living creature than the dinosaurs. Mammals, for example, consume about 10 times more energy per pound, than the dinosaurs, because they maintain a much more regulated system, and internal temperature; they have much greater range of mobility. Which meant that, now, life, again, had a greater capability to exist in more diverse climates. You find mammals from the North Pole to the Equator: That's something you didn't have, prior to that explosion.

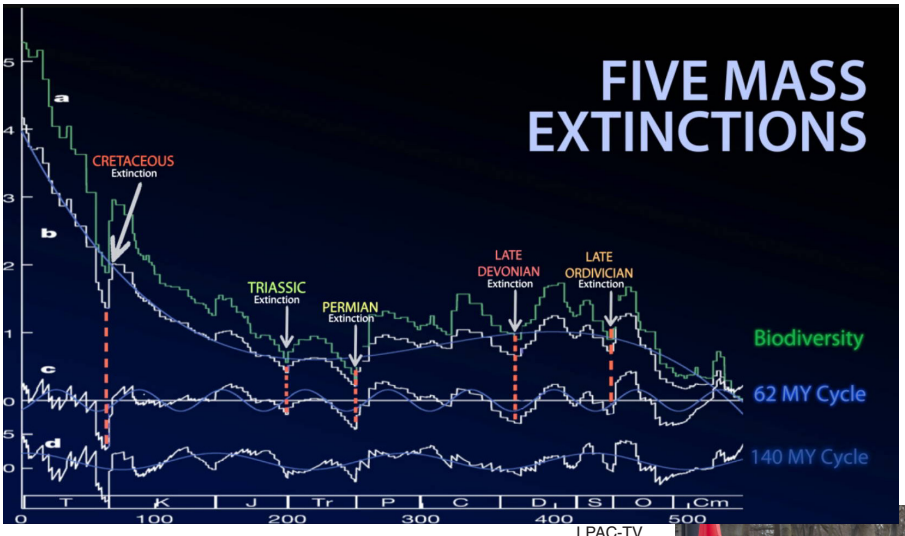
That coincided, then, with the emergence of higher forms of plant life, like the angiosperms, where now you had plant life that had things like fruits, grasses, that which represents a higher energy-flux-dense source of food, that could then fuel these more energetic mammals.

And all of this, then, of course, laid the platform for man's emergence, about 2 to 3 million years ago—we all know how much has man depended upon things like mammals, fruits, grasses, these things, for our sustained nutrition, for our biological needs, as well as our use of things like animals for work-labor, almost as a living technology.

So you have these two pictures, where on the one hand, you see the history of life has been one punctu-

3. "The Hypersea Platform," http://www.larouchepac.com/node/18085

FIGURE 1



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If the Greenies have their way, and we continue to reverse technological progress; if we say we're not going to go with nuclear power, then we are subjecting our activity to the existing state of the biosphere. And that means our species will become extinct, as so many other species have, over the last 500 million years. Below: an anti-nuclear demo in Berlin, Germany, April 8, 2011; the sign reads: "Shut down nuclear power; turn on renewables."

EIRNS/James Rea

ated by extinctions, disaster after disaster after disaster, which is what we're setting ourselves up for now, if we continue this policy of zero growth, no technology, the Green movement: We're putting ourselves in line with the extinction phases of the galactic cycle.

But! If we step back, and think that, one, the governing characteristic of the biosphere has actually been one of upshifts, of one of nonlinear changes, towards higher states of energy-flux density, in terms of the forms of life, in terms of the overall diversity and complexity of the biosphere. And then, we recognize that there's something unique in even that process that you find in man: Because, unlike any other creature in the biosphere, man uniquely is capable of actually holding that whole process as a "One," in our own minds. Right? No mammal, no dinosaur, no amoeba, ever sat back and self-consciously conceptualized the actual governing principle of the development of the biosphere.

They may have been part of an overall creative process, but no one single entity, no one single creature in the biosphere, was ever able to conceptualize and hold the process, and the principle of the biosphere as a one, in their mind. That's something unique to man: The fact that man can actually reflect, and in a sense, embody the entire process of development of the biosphere, in and of itself, tells us there's something unique about man, that you don't find in any other creature. And it's precisely that unique quality of man, to actually know, and grab these kinds of concepts as one, which really has to become the paradigm of our identity, if we're going to emerge out of this kind of crisis.

And so, the irony is sharp there, if we just look at the actual history of the biosphere, the actual history of life, one that is characterized by what are the equivalent of technological revolutions, and compare that to the kind of policy being pushed by this WBGU and others, which says, "no technological progress, no development, no creativity." And you see, that's the choice we're facing: either extinction, as we've seen in the past, or we actually take on, and truly embody, the principle of man, as a creative being, something which reflects the principle of creativity in the universe as a whole, and move forward.

The Oligarchical Principle

LaRouche: That gives you the second question: Why does mankind, with these capabilities, destroy himself?

Now, you have, for example, going on right now, the Green movement. The Green movement, is actually a Satanic movement, by any standard of morality. The Green movement is well known to us from history, at

least from history within mankind's sense of history: You had two tendencies, and we're talking largely about something, which our best knowledge of this lies in the Mediterranean region and around it, up to the present time worldwide.

There are two tendencies in mankind, social tendencies: One is called the "oligarchical tendency," the other is our tendency, typified by the United States, and in a certain excellence, our Constitution. The reason we moved from Europe into what became the United States, is that we were able, more effectively, than those parts of the Americas which were under the thumb of the Habsburg influence, we were capable, as a culture, of coming across the ocean to North America, and building up a self-developing society, which was doing just fine in the Massachusetts region, until William of Orange came onto the scene, and put the whole region back under the oligarchical principle, as it's called.

The oligarchy is what's described by, for example, the *Prometheus* dialogue: Prometheus is portrayed as struggling for the realization of man's natural capabilities, as with the use of fire—and man's the only creature that's ever used fire! No other species has ever been able to use fire! And that's typical of mankind: We're a fiery crew ourselves, by nature, except for those who try to dampen our fires!

But the oligarchy took the view, that they were a privileged group, and there were several kinds, but the one which is most important to use today, is the part that came out of the Mediterranean as the oligarchical principle there, the European oligarchical principle, which became the Roman Empire. And Europe has been living under the legacy of the Roman Empire model, since the time of Octavian. But the first phase, the original Roman Empire, collapsed—partly of its own intention, but partly because some of the oligarchy themselves desired that. That led to what became the Byzantine Empire; and the Byzantine Empire went into a collapse, which then was taken over by Venice, the old Venice.

The old Venice used the old Roman monetarist principle, to set up a new monetarist system, under which old Venetian system controlled *money*, as the old Roman Empire had done. But their control of money was the so-called feudal Crusader period, which destroyed itself!

We came out of that with a renaissance, which sought, as with the case of the work of the Florentine Renaissance, which made a fundamental revolution in the character of sociology, and economy, and science. But then, the old Venetians came back, rebuilt themselves, rehabilitated themselves, and by 1492, had started a period of religious warfare which lasted into 1648!

And despite the efforts of France and others, at that time, through the Peace of Westphalia, to restore civilization in this new, higher form, the British Empire came into being through the incidence of William of Orange. And William of Orange's British Empire is the *same oligarchical system* which we saw in the ancient Greek case, as in the legendary story of Prometheus versus the Olympians.

And that's what the problem is.

Now, today what we're dealing with—now these jokers who are behind this crazy environmentalist movement—yes, the fools are the fools; the idiots are idiots; the dupes are dupes. But there's something behind this, where they take a bunch of brainwashed zombies—which is what the typical Greenie is—but behind it is a much more calculating creature, the oligarchical creature, who says, "*If* we do not control people, if we do not reduce the population of people, if we do not limit their technology, their very development will enable them to get rid of us!"

So most of these people who are spreading lies, like the current lies, like the lies of this President, the lies of his British masters: Many of them know that what they're doing is a damned lie! That everything they're saying is a damned lie! But they've got a bunch of fools, who want to believe in these lies, and they use these fools like rabble, like a mass-insanity movement, like the Crusades, and they use this form of mass insanity to try to destroy civilization. Why? *Because they would rather see the human species go extinct, than the rule of mankind by the oligarchy cease!* And today, it's what we call the "financial oligarchy."

In point of fact, the Roman Empire still exists. People think about "colonies." Well, yes, empires do sometimes have colonies—often do. But the essence of the empire is not colonies. The essence of the empire is the control of the world by a monetarist system, and the monetarist system is the essence of the oligarchy. They use the monetarist system as a way of controlling the population, and controlling *the minds* of the population. And that's what we're seeing.

We're seeing the increment of insanity, especially from the assassination of John F. Kennedy, and then his brother, who was in line to become the nominee, and probably successful as the next President of the United States, at that time. They killed these people whom they considered valuable to us, to our cause, to our American

System. And they try to destroy the *very roots* of that within us, which gives us the capability of resisting and ultimately overthrowing the oligarchy.

Most of the stories that are being told to us in the name of environmentalism are complete lies by those who are telling them, or insanity by those who are believing those lies. *But if we don't defeat this oligarchy, if we do not eliminate what this President represents, this lunatic, who should not have been allowed in office—he's nothing but a British puppet! He's nothing but a puppet of these genocidalists. If we do not get our Presidency back, the whole planet is going to go to Hell!*

Because, you take the fact of what the United States represents and *has* represented, what is embedded within us, and you crush that, as it is being crushed by this President and his predecessor—who are both a both couple of clowns!—if we don't get rid of that, and get back to *our* Constitutional system, we will not be able to survive. And if we're not able to survive, Europe won't be able to survive! And if the trans-Atlantic region can't survive, then neither China, nor India, nor the other countries of Asia can survive.

So, we're now in a fight to save the human species, from the British Empire, and its stooges, who are saying things that they themselves don't believe, except they believe that they've got to get *you* to believe, so you will kill yourself, at their convenience.

The great principle of this, as the case you're doing, with this report, which you're preparing now, is to demonstrate, there is no Second Law of Thermodynamics, except in the mind of idiots or fools. It's false! The nature of the universe is inherently creative!

We see nothing in the history of the galaxy, which we know of, which, while being destructive, was not even *more* constructive than it was *de*structive! The nature of the universe is *anti-entropic*, and the key thing to this is to understand how our human ability, to develop artificial senses, as what we sometimes call "preceptors," of higher orders—*beyond* the physical-biological capabilities of man as a biological entity: That this *is* mankind! This *is* creativity! *This is* the destiny of mankind, if we can protect it!

As Franklin said: "You've got a universe, if you can keep it."

The Issue Is Creativity

Sky Shields: You know, it's funny, on that: The point you made about the nature of mankind's sense-perception, and the nature of what man is, relative to mankind's sense-perception, actually, you gave a perfect example of, with this whole overview of the history of the creative development on the planet: That, not only do our extended scientific perceptions get us to places that we couldn't exist otherwise—we can move to regions that you're not capable of existing physically, to the insides of stars, as you made the point. You can take the human mind into the very, very small, via these extended sense-perceptions that are not the ones that, as you say, "come in the box."

But the other place we get to transcend is the region of time, that our normal sense-perceptions are capable of accessing: The animal, the beast, is capable of accessing only the time that its body physically occupies. Your animal doesn't exist beyond its death; your animal doesn't exist before its birth. But the nature of human activity, the nature of human society is that you transcend generations: Your own identity transcends generations, and we have instruments that allow us to do that. The development of history, the development of human science, is largely a dialogue across generations, among minds.

But then, what you're demonstrating here, is also significant, that our actual character as human species, as human individuals, can transcend these *huge* swaths of history that our physical body would never transcend normally. And it seems to me, that gives you a real different sense of our identity, the amount of—the space-time that is characteristic of the human mind, of cognition, seems very different than even what you get in the animal domain, our ability to transcend that.

LaRouche: Well, you have that in the history of European culture, exactly that. If you go back to the time of the ancient Greek cultures and what came out of that,

you find the fights, like the fight of Plato against Aristotle, his so-called successor—two contrasting views. Aristotle is completely the Cult of Apollo, whereas Plato represents the heritage from before, of the other side, of *human creativity,* of the human mind: of human creativity as something more than just a biological effect, a species kind of sense-perceptive biological effect. And this is the issue! The issue is creativity.

And the interesting thing about it, of course, which also gets the freaks freaked out—but the enemy knew it—the crucial point, when they got rid of Napoleon, who was no good anyway, but they did something else. They introduced the attempt to destroy the Classical revolution of the 18th Century. Now, that's been going on, and it took the form of the destruction of science, like the faker Newton! Newton was a fraud. Newton never established a principle in his life! Nothing that Newton ever claimed to have discovered, did he discover! He discovered nothing! He discovered his position—if that. A complete fraud.

And you have people, even scientists, who say they believe in Newton's discovery of gravity—a complete hoax! A complete fraud! And yet, many of our leading scientists, who otherwise were quite sane and fruitful, believed in that nonsense! And you have the whole history—the destruction of culture: You had Classical artistic and musical culture of the 18th Century and beyond, and earlier. Look what happened to it over the course of the 19th Century: *It degenerated!* The cases of those who were competent in composing vanished with the death of Brahms, practically, and a few people around him.

The ability to perform this music, to understand it, *died* in the course of the 1980s! We had musicians, whom I was working with, with others, as a group, to defend Classical tuning, which actually is a biological principle, as well as a formal artistic principle: And they went with this elevated voice! They went with this crazy post-industrial society collection, at the end of World War II.

We have been *culturally* destroyed, *scientifically* destroyed, with the destruction of those capabilities of Classical culture and science, which characterize man's superiority to the monkeys, huh? And the monkeys are about to take over! Because the British Empire, which now dominates the world, intends to turn the running of the planet over to monkeys, like this crowd that's now coming along with extinction program for humanity.

It is this thing, is what is crucial. Because it lies in the *Classical artistic imagination*, which explores the universe as the Classical imagination, for successful effects of the imagination, which then becomes science. It's not a progress from plain work into science, into Classical artistic composition. Classical artistic composition is the ground upon which physical scientific progress is nurtured. It's man conception of man, as expressed in Classical artistic composition, which is the essence of the genius of creativity in mankind.

The Slow Death of the Human Species

Shields: It seems that that's the domain of mind where everything ontologically significant exists, both in human activity and otherwise. If you were able to see the space we actually occupy, it would be that domain of mind, that domain of Classical artistic composition.

It also seems that if you were looking at us from that standpoint, what you would have seen over the last several decades, is the slow death of the human species—not something we're about to run into, but it's something we're in the middle of, right now! That as long as we're tolerating the policies that are being promoted by the Greenies, as long as we're tolerating the cultural changes that have been dumped on us over the last several decades, we're actually losing our ability as a species to be able to extend ourselves in these domains.

We're losing our sense of history; that is actually going. The last several, successive generations, have been generations whose sense of their identity in all human history has been steadily collapsing. Corollary with that, has been what you've seen since the collapse of the Apollo space program: that our ability to extend our senses off the surface of this planet, beyond where animals can exist, has been steadily collapsing. Viewed from the outside, that would look like a slow death. That's the definition of a slow death, what we're incurring.

Whatever would happen with a major earthquake, a major asteroid collision, anything that could happen in this period, would just be finishing us off. History will remember that what actually killed us, was this preceding period.

LaRouche: Exactly. This culture now, which is now accepted, which the British Empire, and which our current, insane President represents, can be the factor of extinction of the human species in this generation! That can be the case. And if we have any quality of fitness to survive, we're going to get rid of that factor. We're going to go back to the legacy of our achievements earlier.

And the key thing here, which is lacking, generally, to get in the final point of this thing we've been going through, is: What is this business of creativity? It's most

simply demonstrated in physical science, because we keep a nice, neat record of the progress of physical science through the effects of the progress of physical science. And we see the increased energy-flux density of mankind's role in society, as associated with the discovery of universal physical principles, of which there have been less and less, since people like Norbert Wiener and people like that came along: We've gone to a mechanistic, anti-scientific view, in the name of science.

But what's happening is, we're killing the very capability of creativity, as a practice of creativity on which human progress and existence have depended. If we do not eliminate the Green movement from a position of control over leading nations of this planet, the human species is headed for extinction. The important thing here is that the discovery of a true, universal, physical principle is immortal. That is, the individual person who makes such a true discovery of that form, when that person has died, leaves that accomplishment of that principle as a permanent factor in the existence of the human species.

It is that kind of creativity, so expressed, which distinguishes mankind from the beasts. It is that kind of scientific and cultural progress which is the only means which can secure the non-extinction of the human species, now.

Jones: Yes, that's an interesting point. We've talked a lot about the reaches, the extension of the senses, and how that really is an expression of the creative process. I was just running again, through this idea in my mind, which, where you see a breakdown between the very small and the very large, as it comes up, as Riemann brings it up in the last part of the habilitation dissertation: Which is, that if you actually look at the history of mankind's ability to expand his reaches into the very large, in terms of his physical reaches out there, to a certain extent, it's actually been a function of our ability to go ever deeper into the very small. That is, something like the chemical revolution creates the potential for things like long-range locomotion, steam engines, etc. It requires the breakthroughs in nuclear physics to, say, have a competent Moon-based system, a rocket-based system.

Then it requires going even deeper, to the level of fusion, to be able to move towards the development of, say, constant acceleration rockets, to then, move on to successful colonization of Mars. Then it takes an even deeper understanding of things like matter/anti-matter, to then get beyond even Mars, out to some of the further reaches of our Solar System and the galaxy.

And so you see, whenever you go to the domain of creativity and discovery, there's an actual breakdown of even our ideas of "time," "distance," "space," where the very small and the very large, seemingly— from our sense-perceptual standpoint—are actually very much connected through the discovery of these kinds of principles: that each discovery of principle in the small extends our ability to go further and further into the reaches of the galaxy and the universe.

LPAC-TV

What you would have seen over the last several decades, is the slow death of the human species—not something we're about to run into, but something we're in the middle of, right now! That as long as we're tolerating the policies that are being promoted by the Greenies, as long as we're tolerating the cultural changes that have been dumped on us over the last several decades, we're actually losing our ability as a species to to extend ourselves in these domains.

—Sky Shields

Kill the Second Law of Thermodynamics!

Shields: And it seems like exactly that point is also the case for the cultural discoveries: That the ability to make certain transformations, physically, in the human species, requires certain major transformations in the question of cultural organization that we have on the ground. That you couldn't have the developments that we've seen thus far, since the creation of the United States, you couldn't have that without having the existence of a republic. That this would be impossible. That

requires a real new sense, scientific sense of the way the human species is meant to organize itself.

But at the same time, if that republic is not organized around a real capability for self-reflection, of each and every human individual, on the qualities that make them, and other human beings human, you can't maintain a republic.

Jones: Right. And that's the problem with the loss of Classical culture: If people lose the ability to perform Classical composition, or even to compose Classical composition, in a certain sense, you've lost the ability to reflect on the human mind as a One. Because, what you find, in the actual performance of Classical composition, or, at the higher level, the production of it, the composing of it, is someone who's able to reflect on the quality of human mind as a One, and express it as a unity, and not just as an assemblage of parts and sequences.

So once you lose that, you've really lost, in the population, an ability to reflect on their own creative potential. And we see the disastrous effects of that, in what we have in the world today.

Hoefle: Well, we traded our willingness to do that, for the mere accounting of money. So, we think we're doing better, because we have more money, and then the money disappears, and suddenly, we realize, at this point, we're really doomed, unless we can go back to what we were doing before.

Do you have more, Lyn?

LaRouche: I think we've got more to say, but we've got to do the next step. We've got this thing that Cody's doing, to get out. We have some more to say about the details of this structure, about how creativity functions, actually functions, which we simply outlined here, to try to get the connection between the idea of creativity and the existence of living species in the universe. To kill this crazy, stupid fraud, called the Second Law of Thermodynamics! Which a lot of idiots believe in! They're told, to "recite after me, the Second Law of Thermodynamics," and they do it! You ask them why? And they say, " 'Cause that's what we do!" It's like what the baby says, when he makes a stink! And the baby looks at his mother, and says, "That's what do, Mummy! Do-do."

Hoefle: All right, well, we don't want to solve all of the problems of humanity this week. We want to save something for next week's show!

Jones: We'll end on that refreshing note!

Mississippi Flood Disaster Reveals Epic Policy Fiasco

by Marcia Merry Baker

May 12—The worsening flood destruction in the Mississippi Basin, mitigated by structures and actions of the U.S. Army Corps of Engineers, shows—*not* the wrath of nature, which is fierce—but the policy failure of recent decades, up through and including the Obama Administration's pretense of concern, which is to offer only "disaster-as-usual" bloviating, token aid, or outright denial of Federal relief. Obama is offering the "Haiti treatment" to millions of people throughout the flood zone.

FEMA/Ed Edahl

The devastation along the Mississippi has not been caused by an "act of God"; rather, it is the result of the Obama Administration applying the "Haiti treatment" to the flood-ravaged region. Here is metropolitan Memphis, Tenn., on May 8. By May 10, the river's crest was at 47.87 feet, just below the 1937 record of 48.7 feet.

The vast flood damage in the Mississippi/Missouri/Ohio Basin—the third-largest drainage basin in the world (after the Amazon and Congo), covering all or part of 31 states, results from the years-long policy of suppressing needed science, R&D, infrastructure, and economic activity to support and protect the nation.

To begin with, there has been a longtime suppression of work to understand "the weather," imposed by cutbacks in resources for NASA (National Aeronautics and Space Administration), NOAA (National Oceanic and Atmospheric Administration), the USGS (U.S. Geological Survey) and related agencies, and also resulting from the insinuation of pseudo-environmentalist, global-warming hokum throughout U.S. science institutions.

Secondly, flood-protection programs and large-scale water-management systems have been undermined, both by Federal underfunding, and by deliberately obstructive environmentalist "impact" demands

and lawsuits. These have been instigated by agencies and figures associated with Wall Street/London-centered financial circles, opposed to national development. The National Environmental Policy Act (NEPA), signed into law on Jan. 1, 1970, was the benchmark in this subversion.

For years, the Army Corps, mandated since 1927 to control floods, has seen its proposals held up, only partially funded, or even blocked throughout the Mississippi/Missouri/Ohio Basin, and elsewhere. Aspects of what are lacking in the four basic features of flood control, are reported below—levees, floodways (diversions), river channel maintenance, and tributary controls.

The structures, staffing, and logistics capacity which the Corps does have in place in the Mississippi/Ohio watersheds, are working spectacularly in the current emergency. So are collaborating agencies, the National Guard, local police, fire and emergency officials, and thousands of volunteers. But where the flood control structures were never built; where they were constructed, but neglected; and wherever there are staff shortages, then danger and damage result.

U.S. Army Corps of Engineers

On May 9, the Bonnet Carré Spillway was activated (as seen here), diverting water eastward into Lake Ponchartrain, and thence to the Gulf of Mexico, bypassing New Orleans.

This is the policy disaster. The excuse has been, "There isn't enough money." All the while, the rake-offs to Wall Street and London keep flowing, to reach the stage of multi-trillion-dollar bail-outs, hyperinflation, and economic breakdown.

What is essential for a radical shift to a sane policy, is reinstitution of the Glass-Steagall law, for which an emergency mobilization is now underway. Glass-Steagall makes way for credits for upgrading water and land management, and for launching science programs in full. Along with short term, all-out rescue and rebuilding efforts, Glass-Steagall restoration is the critical measure for full-scale disaster relief and recovery.

Mississippi Delta: Epic Flooding

As of mid-May, the Mississippi high waters have rolled relentlessly along, now reaching the states of Mississippi and Louisiana, the Delta lands. One large diversion channel—the Bonnet Carré—has so far been opened in the Delta, and the other, the Morganza Spillway, is at the ready for activation, as soon as the river flow reaches a trigger rate of 1.5 million cubic feet per second (cfs) at the Red River Landing, which is expected around May 15. Upstream, where the Ohio and Mississippi join, the large Birds Point-New Madrid Spillway is now activated.

On May 3, the Birds Point levee was breached, in Missouri, on the west bank of the Mississippi near Cairo, Ill., where the Ohio River enters the Mississippi. High water was diverted into the Birds Point/New Madrid Floodway, to rejoin the Mississippi downstream, which lowered the height and pressure of water on levees at Cairo.

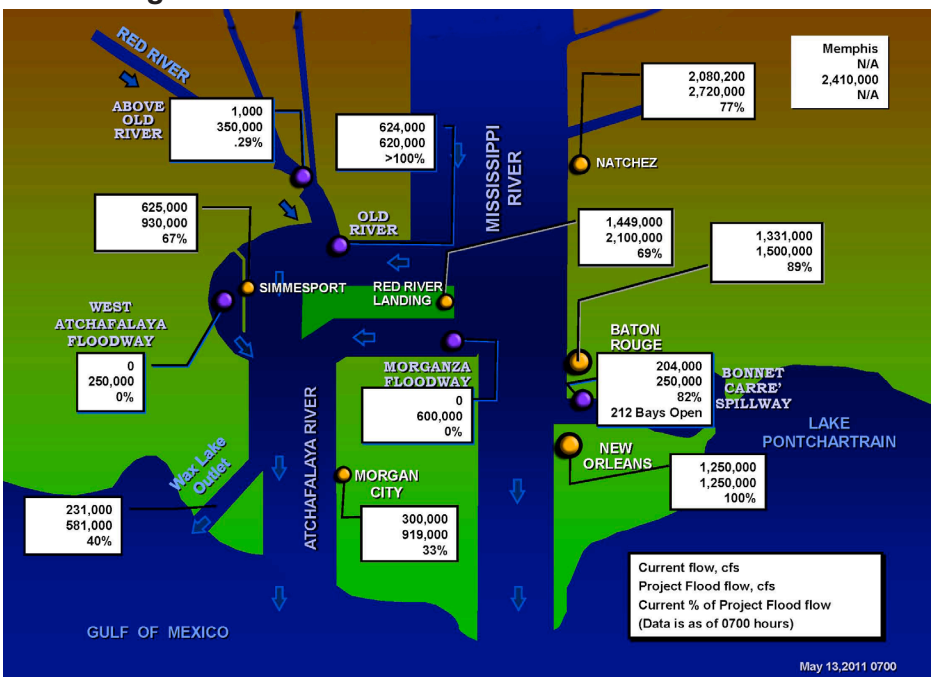
On May 9, the Bonnet Carré Spillway was activated, diverting water eastward into Lake Ponchartrain, and thence to the Gulf of Mexico, bypassing New Orleans. This spillway, completed in 1931, was last used in 2008.

On May 15 or thereabouts, it is expected that the Morganza Spillway will be activated, also to relieve New Orleans. Completed in 1954, it has been used only once before, in 1973. Flood waters will flow through the Atchafalaya River swamplands, and into the Gulf.

Using the spillways will flood farm operations, displace people, animals, and plantlife, but spare other,

FIGURE 1

Current High Water Flows



U.S. Army Corps of Engineers

This schematic, dated May 13, indicates the status of the high water flow along the Mississippi River and its tributararies, based on monitoring by the Corps of Engineers.

more highly concentrated centers of activity, from devastation. The two spillways are expected to depress the river level in New Orleans down to 17 feet, when it crests on May 24, four feet below the 1927 record of a 21-foot crest.

Near, or absolute record-setting flood levels, have been recorded in the lower Ohio Valley and at points all along the Mississippi, as the crest slowly moves south. The combination of a large snowmelt, and severe rainstorms in the Basin, made for huge run-off.

On May 10 in Memphis, the crest was 47.87 feet (14.5 meters), just below the 1937 record of 48.7 feet at this city.

On May 19, at Vicksburg, the crest is expected to be 57.5 feet, which is 1.5 feet above the 1927 all-time record.

Upper Watersheds: TVA Proof of Principle

These huge floods would be even worse, were it not for run-off control systems holding back flows in the tributaries of the Mississippi. For example, the dams in the famous Tennessee Valley Authority (TVA) were designed to help in flood mitigation—as well as power, irrigation, recreation, etc.—in the large, multi-state catchment area upstream from where the Tennessee joins the Mississippi at Paducah, Ky. In late Winter, the TVA made ready for anticipated Spring rains and snowmelt, by drawing down its lakewaters, to then later, in April, open storage space to capture and hold back waters during the peak run-off/rain period.

In the state of West Virgina, where many of its rivers flow directly into the Ohio, the Corps activated every dam and lake to impound the maximum water during the flood period. West Virginia lakes were so swollen, that most state parks and recreational areas were closed for safety. As the Ohio began to recede, the Corps safely started releasing the lakewaters.

The Ohio River system—which includes the Tennessee watershed, accounts for 75% of the flow at the mouth of the Mississippi. The bad flooding in the river counties of Indiana, Kentucky, Illinois, Missouri, Tennessee, and southward, would have been far, far worse, without the TVA and other upper watershed storage on the Ohio Basin system.

However, in many other upper watersheds—such as those running off the Ozarks in Missouri, southward into Arkansas, thence into the Mississippi River, water management structures are lacking or ill-maintained. They are not the responsibility of the Corps—whose mission is to see to the mainstem rivers, ports, and so on. The upper watershed installations on tributaries mostly belong to various local entities, plus local partners of the U.S. Department of Agriculture. The Corps may inspect them, but that's all.

For example, on the Black River in southeastern Missouri, the levee in Poplar Bluff broke on April 26, and over 1,000 persons had to evacuate. The Black River flows into the White River in Arkansas, where on many streams, levees failed. Dozens of smaller levees broke in other states.

At a press briefing that day, Tony Hill, Corps spokesman for emergency management at Little Rock, Ark., said that the Poplar Bluff levee received an "unaccept-

U.S. Army Corps of Engineers

Lyndon LaRouche pointed to the threat to the U.S. food supply, in a recent discussion: "What do these heavy storms do to the planting season?... You're going to lose significant parts of the food supply, at the source, inside the United States, as a result of these floods."

able" rating by Corps engineers at their 2008 inspection, but nothing was done to rehabilitate it. No funding came forth. He said that this kind of problem is "systemic" among the thousands of such flood-control structures in the country. The Army Corps barely has the means to inspect them. Neither the Corps nor other agencies are then deployed to maintain these levees, which are the property of various local authorities—counties, levee districts, and others—which no longer have any resources for upkeep. The Black River, which flows southward into Arkansas from the Ozarks, and other secondary rivers, have many substandard flood embankments.

Corps Stripped Down

The Army Corps itself is down to only 34,600 civilian and 650 military men and women. Over a third of the total workforce has been recycled through Iraq and Afghanistan. The total roster is way down from the 47,000 it stood at barely 15 years ago. At present, out of the eight Corps divisions for the continental U.S.A., two are working flat-out—the Mississippi Valley Division, and the Great Lakes and Ohio River Division.

It is highly relevant that the Obama Administration intends to *cut* the Corps budget. What a contrast with President Franklin Roosevelt, who, in the comparable 1937 floods, mobilized the manpower available in the Works Progress Administration (WPA) to set up shelters, help with relocation, and shore up levees.

"Fatigue has been a factor," said Col. Vernie Reichling, head of the Corps Memphis District, at a May 3 press conference in Sikeston, Mo. "Some of our people have worked 24-36 hours straight. They've been working with high explosives, and there is a concern for safety. We have been constantly adjusting to conditions. The conditions Mother Nature threw at us were severe."

Reichling had to delay the third of three explosive blasts, in the activation of the Birds Point-New Madrid Floodway operation, to redirect some of the Mississippi flow, because he ran out of explosives for the second of two outflow crevasses (to let floodwater back into the main Mississippi), and had to procure more. The blast was successfully executed on May 5. Reichling also pointed out that his 150-man Corps crew needed the time to rest.

Vast Agriculture Damage

There is vast damage to farm operations—land, buildings, livestock, storage, and transportation—now worsening under the flooding and extreme storms in the Mississippi/Ohio Basins Corridor, and at the same time, in the April tornado-storm belt; and under drought conditions in Texas.

Beyond immediate rescue operations, for livestock, moving machinery to high ground and other emergency actions, the policy question of food security it posed.

Lyndon LaRouche, on the LPAC-TV Weekly Report April 27, put the food question forward concretely, in discussing the breakdown of not only the economic system, but of economic policy:

"What about the areas of flooding in this central region of the United States? We're now in the area of the planting season. What do these heavy storms do to the planting season?

"Now, what would you do, normally, under a sane economy, with heavy rainstorms of this type flooding the area, in terms of the planting system? You re-seed; you plant the seeds. What is going to happen now, under this government, and its policies? *There is no funding for re-*

seeding. So you're going to lose significant parts of the food supply, at the source, inside the United States, as a result of these floods."

Only 9% of the U.S. national corn crop was planted as of late April, just when the storms slammed the Mississippi Basin and other farm areas, in contrast to 46% a year ago, same time, according to the USDA April 24 Crop Planting Progress Report. This lag reflects the fact it has been too cold and wet in some of the northerly latitudes, to risk planting. Corn won't germinate in ground temperatures less that 50° F; but waiting for a late start has other risks. If, by about mid-May, 85% of the U.S. national corn crop is not successfully sown or re-sown, there will be higher risks that yields will fall in what's planted later.

FEMA/Marliee Caliendo

Obama's criminal neglect in denying Federal relief to flood-stricken regions of the United States has real consequences, as can be seen in this photo from Memphis, dated May 9.

However, the Obama Administration is barely even going through the motions. On May 3, Agriculture Secretary Tom Vilsack and FEMA Director W. Craig Fugate issued a joint pledge to aid the farm operations now under water in the national Birds Point-New Madrid Floodway. In the face of White House prevarication, on top of uncertainty and damage, the floodway farmers have resorted to impotently suing the Corps.

Obama's Haiti Treatment for Midwest Flooding

Given the mega-flooding, the threat of more severe weather ahead, the food question, and the prospect of vast aid needed to rebuild, the White House response of "disaster-as-usual" pretenses is a glaring mockery. Obama, the Agriculture Department, and other agencies are doing the minimum everywhere.

Obama has been selectively announcing approval for, or denial of, official disaster declarations in certain counties in Tennessee, Mississippi, Kentucky, Missouri, Arkansas, and Louisiana; he previously announced Federal recognition of disaster counties elsewhere in the flood zone. The Presidential disaster declaration authorizes FEMA and Homeland Security to provide aid and *partial* funding. "Emergency protective measures, limited to direct Federal assistance, will be provided at 75% Federal funding." In other words, the locals—already economically destroyed by the Obama "recovery," and now literally underwater, are supposed to come up with the rest!

As of the end of the first week in May, an unofficial *EIR* tally of the number of counties now designated as official disasters by the Federal government, or requested for that designation by their governors, reached over 240 in just the 13 states of the Mississippi-Ohio Basin, and the Southern part of Tornado Alley.

In addition there are dozens more disaster counties in other states, resulting from diverse other weather events, such as six counties in Iowa, granted official disaster status May 6, from April tornado storms. In North Dakota on May 6, the governor asked for 39 counties and three Indian reservations to be approved for Federal assistance because of Spring floods.

These counties, and dozens of cities, are in no position at all to even meet the criteria of covering 25% of any disaster aid given by FEMA. In just seven weeks, the budget year ends for most all U.S. states, and any fiscal pretense that may have been kept, is now gone, gone, gone. Most of the United States' 3,000 counties are in the same position, even without a physical disaster.

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In NerObama Land: All Circus, No Bread

by the Editors

May 17—White House insiders are quietly praying that last weekend's Saturday Night Live deadly spoof of President Obama's over-the-top, manic self-promotion, since the recent killing of al-Qaeda leader Osama bin Laden by U.S. Navy SEAL teams, will prompt the President to back off from his hyper-Narcissist ego trip, and devote some attention to the accelerating bankruptcy of the country and the increasing impoverishment of a growing number of citizens. But in their heart of hearts, they know that their prayers are not going to be answered.

President Obama is displaying all of the clinical signs of an Emperor Nero, just as Lyndon LaRouche first warned on April 11, 2009, in his now famous international webcast. Lacking Old Nero's musical talent, Obama spends his waking hours running around the country raising funds for his reelection campaign, and sneaking in a choose-up basketball game with Education Secretary Arne Duncan whenever the opportunity arises.

Obama Dribbles While America Burns

Sources close to the Administration freely admit that the President's energy is totally focused on his reelection, and that all policy decisions are being made on the basis of what will best serve that fixation. The "Billion-Dollar Man" has all but abandoned the day-to-day work of the Presidency to the likes of White House advisor Valerie Jarrett, as he races from coast to coast for behind-closed-doors sessions with big-bucks donors.

And back at the White House, Jarrett is finding herself in a pitched battle with White House Chief of Staff William Daley, who is about the only live point of contact between the Obama Chicago inner circle and the rest of the Democratic Party. Recent news accounts, confirmed to *EIR* by several sources close to the Democratic National Committee, indicate that Daley is out to bust up the Jarrett-Michelle Obama praetorian guard screening the President from any reality. The outcome of this battle may determine whether the Democratic Party finally comes to its senses and moves, as the GOP leadership under Sen. Howard Baker did against Nixon in 1974, to force Obama to resign from office.

At the time of Nixon's resignation, leading Republican elders made it clear that they were prepared to invoke Section 4 of the 25th Amendment to the Constitution, if the President refused to step down. Section 4, which spells out precisely how a President may be removed from office, if he is mentally or physically unable to serve, applied to Nixon at that time, and applies even more so to President Nerobama today.

The U.S. Is Dying

On May 16, the President made a brief campaign stopover in Washington, D.C. for a pair of events at the Capitol Hilton and St. Regis hotels. The smaller of the two events, at the St. Regis, was a $38,000 a plate affair. Back in the real world, as Obama was schmoozing with Wall Streeters and other wealthy boosters, the Federal government was reaching its debt ceiling; but Secretary

EIRNS/Ian Overton

The American people are fed up with the Wall Street bailouts, while they see vital programs like Medicare, Medicaid, and Social Security on the chopping block; they are once again flocking to Congressional town hall meetings to demand action. The only viable option is Glass-Steagall." Here, an August 2009 meeting in Rep. Sheila Jackson Lee's Houston district.

of the Treasury Timothy Geithner was reassuring holders of U.S. Treasuries that the government would not go broke until at least mid-August, because he was effectively stealing funds from the Federal Employees Pension Fund, replacing the cash with IOUs to be paid off at a later date. April 2011 manufacturing and housing data came out the next morning, showing a further severe collapse of the real economy.

Over on Constitution Avenue N.W., Federal Reserve chairman Ben Bernanke was going through his own nightmare, desperately trying to figure out how to steal another trillion dollars in taxpayers' money to bail out Wall Street, yet once again, before the end of the year. A former regional Federal Reserve Bank president candidly reported that Bernanke does not have the political support for another quantitative easing—QE3—not even among the members of the Federal Open Market Committee. On Capitol Hill, with reelection campaign season just weeks away, there is no stomach for another Wall Street bailout.

On May 16, over a thousand people turned out for Rep. Brad Sherman's (D-Calif.) town hall meeting, to deliver an unambiguous message: Don't you dare tamper with Medicare, Medicaid or Social Security. Sherman, who has fought against the bailouts of the banksters, had clearly been leaned on by the White House and Wall Street. He whimpered to the angry crowd that every program—including Medicare, Medicaid, and Social Security—was on the table for possible cuts.

Last month, Republican legislators were pilloried by constituents for voting in favor of Rep. Paul Ryan's (R-Wisc.) budget plan, trashing all major entitlement programs and wiping out the last vestiges of Franklin Roosevelt's New Deal. Yet President Obama, as responsive as ever to London and Wall Street's demands for blood, remains adamant that he plans to cut to the bone.

Glass-Steagall or Die

The only thing that can save the United States from imminent destruction is the immediate reinstating of Glass-Steagall. This is precisely what is spelled out in Rep. Marcy Kaptur's (D-Ohio) H.R. 1489 bill, now pending before the House Financial Services Committee. An identical bill is soon expected to be introduced into the U.S. Senate.

Under Glass-Steagall, commercial banks would be separated from brokerage, insurance, and other purely speculative activities, and be fully protected by the Federal government in bankruptcy reorganization. The $17-20 trillion in gambling debts of Wall Street, bailed out at taxpayers' expense since 2008, would be charged back to the Wall Street houses; and the money credited back to the Federal government accounts could then be used to save the 50 states from imminent bankruptcy, and launch capital-budgeted infrastructure projects, to both create millions of productive jobs, and restore the United States to economic growth.

Furthermore, as LaRouche has bluntly stated, once such Glass-Steagall legislation were to be passed by the Congress, and arrive on the President's desk, Obama would be ordered by his London and Wall Street owners to veto the bill. And this would be the end of the Obama Presidency. Obama could not psychologically handle the popular outpouring of rage at such an act of willful destruction of the last chance for the United States to survive.

Ultimately, as more and more Americans are coming to realize, either Obama is removed from office, or the United States will not survive till the end of the year.

Fed Up with Obama, Mitchell Resigns

by Michele Steinberg

May 13 (EIRNS)—The long-expected departure of Sen. George Mitchell from the position of Middle East envoy to the so-called "peace process" was not only about Israel and the Palestinian State—it is about the complete failure of Barack Obama's foreign policy in North Africa and Southwest Asia, and the continuing disintegration of the sane national security grouping within the Obama Administration.

At the very moment that the United States could fulfill the vision of Franklin D. Roosevelt for North Africa and the Arab World—the end of colonialism and the greening of the desert (see *Development* section on the Blue Revolution)—Obama is treasonously imposing the British policy of perpetual war and a financial dictatorship by the new British Empire of the financier oligarchy.

U.S. State Department

George Mitchell's resignation is but the latest defection from the Obama madhouse, and reflects the complete failure of the Administration's foreign policy in the region.

Look at the recent record: Defense Secretary Robert Gates, expected to leave in August, has bumped up his exit to June, due, in great part, to Obama's embracing of another land war in Africa, with the Libya fiasco. Earlier, Gen. Jim Jones, the National Security Advisor, left, after a long running battle against the stupid pressures from the Chicago mafia in the White House—Rahm Emanuel, David Axelrod, and Valerie Jarrett—who insisted that there is no such thing as strategic policy, only domestic electoral concerns—especially concerns about the 2012 re-election and the $1 billion war chest that Obama, Axelrod, and Jarret are counting on.

No position was more vulnerable to "collateral damage" from that corruption than the Middle East envoy post that Mitchell was caught in. As Obama capitulated time and again to British agent Israeli Prime Minister Benjamin Netanyahu's demands, in order to secure Jewish American contributions to his 2012 campaign, it was clear that the "envoy" post had been nothing but a title, for at least the last year.

"Senator Mitchell should be saluted for this resignation," stated one well-informed Egyptian source who has been an active participant in the leadership of the Egyptian mass strike, and who has watched Obama destroy every chance for Israeli-Arab peace—from allowing the Israeli expansion of settlements and repeated attacks on Gaza, to applying an obscene double-standard of allowing Saudi, Bahraini, and other Persian Gulf dictators to jail and kill their own citizens, who are protesting economic conditions and repression.

Obama's labile and unstable approach to the Israel-Palestine talks, doomed the Mitchell mission from the start, despite Mitchell's best efforts, in close coordination with Gates, Secretary of State Hillary Clinton, and General Jones. Obama scuttled every possible positive development—using Israeli agent Dennis Ross, the National Security Council's Middle East specialist, against Mitchell. In September 2010, when Netanyahu thumbed his nose at Mitchell and Clinton by refusing to extend a freeze on Jewish settlements, Obama went running to Ross.

The result was a letter promising that the U.S. would veto any UN resolution that Israel objected to, on the Palestinian issue, and offering about $3 billion in additional aid, in return for a mere 60 additional days during which no new Jewish houses would be built on Palestinian lands. The letter was leaked to David Makovsky at Ross's traditional pro-Israel roost, the Washington Institute for Near East Policy (WINEP). The U.S. would also promise not to seek any further extensions of the freeze beyond the 60 days, and would agree that settlements would be addressed only in a final agreement. Netanyahu just laughed off Obama's offer, as he abandoned Palestinian rights, the Road Map, and every other agreement since the Oslo Accords.

Obama's actions enraged the Mitchell team, and after the February 2011 U.S. veto of the UN Security Council resolution that condemned the Jewish settlements in the West Bank as a violation of international law, it was just a matter of time before Mitchell would leave. After Obama's UN veto, Mitchell was powerless

to do anything to stop the anti-peace moves by Netanyahu, who has Obama's full backing.

But, Mitchell's resignation is an eye-opener for many Arab leaders and intellectuals who at first resisted, but have now come to agree with Lyndon LaRouche's warnings that no peace will be possible as long as Obama is President, and the British Empire is not destroyed. The departure of Mitchell will help shatter more illusions about Obama.

There is also an immediate context for Mitchell's leaving: the upcoming "Middle East peace" speech by Obama on May 19. According to informed Middle East sources, Mitchell had pressured Obama to announce U.S. "principles" on Palestinian statehood, such as commitment to the 1967 borders, after the disastrous UN veto, which gave the "Greater Israel" lunatics a green light to grab more Palestinian land. Obama rejected Mitchell's advice, and went with Middle East advisor Ross, who insisted, on behalf of Netanyahu, that *no* announcement of a U.S. position on Palestinian statehood be made. With Netanyahu's arrival in the U.S. May 16 to address AIPAC's annual conference and the House of Representatives, and then meet with the Narcissist-in-Chief, Obama is doing exactly what LaRouche described—acting as a British agent, and delivering the demanded performance for his billion-dollar campaign payoff.

White House/Pete Souza

Obama's kowtowing to Britain's Israeli Prime Minister Netanyahu and the U.S. Israeli lobby, is an international scandal, and has sullied the reputation of the United States among the world's nations.

U.S. Loses World Trust

It is now an open topic of discussion in Washington, D.C., that Obama's capitulation to London and Tel Aviv has severely damaged the United States' standing in the world as a whole. One of the most forceful statements of this disastrous turn was delivered by Amb. Chas W. Freeman, who delivered the Hisham B. Sharabi Memorial Lecture at the Palestine Center on May 4.

After lambasting Israel's flagrant violation of international law, Freeman, who served as U.S. Ambassador to Saudi Arabia, next turned to Washington. "American determination to protect Israel from the political and legal consequences of any and all of its actions has also taken its toll, not just on the willingness of others to credit and follow the United States, but also on the authority of international organizations and the integrity of international law.... Repeated American vetoes on behalf of Israel have reduced the United Nations and other international fora to impotence on fundamental questions of justice and human dignity."

He continued, "Perceived American double standards and hypocrisy on matters related to the Israel-Palestine conflict account for much of the recent decline in international admiration and deference to U.S. leadership in the Middle East and elsewhere....

"U.S. sponsorship of the late, lamented 'peace process' began as a demonstration of American diplomatic power, the indispensable role of the United States in Middle Eastern affairs, and the necessity of all interested in peace to defer to America. The 'peace process' has ended by discrediting American power and diplomacy....

"A new milestone in this journey to diplomatic ignominy was reached on February 18 this year, when the United States vetoed a resolution in the U.N. Security Council that had been cobbled together from earlier official American statements. The resolution condemned the expansion of Israeli settlements and called for it to end. In doing so, it echoed numerous previous Security Council resolutions as well as the 'Road Map.' All fourteen other members of the Council, including America's closest allies, spoke vigorously in favor of the resolution, which had been sponsored by 130 member states. The debate and the vote on that resolution were an unambiguous vote of no confidence in American as well as Israeli policy."

NORTH AFRICA

Making the Sahara Bloom: The Blue Revolution

This is the edited transcript of a Schiller Institute video posted at http://www.schiller-institut.de/. It is available there in both English and German. We include a small selection of the graphics, while urging readers to view the video to get the full impact. The narrator is Daniel Grasenack-Tente.

From North Africa to the United States, people are rising up and demanding their freedom, dignity, and bread! They are demonstrating everywhere around the world against the corrupt leadership of an already failed system: from the Maghreb all the way to Dresden and even Madison, Wisconsin.

Schiller Institute

Narrator Daniel Grasenack-Tente

It is understandable that the demonstrators in North Africa do not trust the Western world. After all, those whom the Western press has suddenly proclaimed to be dictators, were just recently our close allies in the fight against terrorism, and had the full support of the IMF.

Within the last 12 months, the IMF has positively rated Egypt, Libya, Tunisia, Bahrain, and Yemen, saying that they had "good macroeconomic management," "prudent macroeconomic policies," "positive short-term prospects," and "healthy economic policies." Libya was even positively singled out for praise.

Praise for a decades-long policy of liberalization and deindustrialization; praise for massive unemployment; praise for 30 years in which not a single ambitious infrastructure project inspired the youth generation. Praise and a Judas kiss for the destruction of their own economy.

Courageous and large development projects must replace IMF policy. There are ambitious designs, such as the Roudaire Plan to desalinate water using the fourth generation of nuclear power reactors, the construction of the Tunis-Berlin transport corridor, and the greening of the Sahara with the help of advanced technologies at our disposal and those still to be developed.

Although small to medium-sized companies in Europe will play an important role, important decisions

must first be made elsewhere. Sovereign states and their governments must overturn the old paradigm and halt encroaching chaos.

An international Glass-Steagall standard must be implemented to separate speculative from commercial banking. Speculative debts will no longer be paid, thus freeing up the massive amounts of credit needed to begin international development projects.

The failed global system based on the free-market economy will have to make room for an international credit system with the cooperation of sovereign states. Globalization will disappear into the grave it has dug for itself for the past 40 years.

What President Franklin Roosevelt saw, as he flew over North Africa in 1943.

From FDR to the World Land-Bridge

1943. Nothing but sand. President Roosevelt, flying over North Africa, saw nothing but desert for hours and hours. But he knew about the underground river-systems buried there.

Roosevelt: "Divert this water flow for irrigation purposes? It'd make Imperial Valley in California look like a cabbage patch! And the salt flats: They were below the level of the Mediterranean; you could dig a canal straight back to re-create that lake—one hundred and fifty miles long, sixty miles wide. The Sahara would bloom for hundreds of miles!"

In the '50s, U.S. President Eisenhower tried to breathe life into Roosevelt's plan through his "Atoms for Peace" program, when he proposed to build nuclear power reactors for water management projects in Egypt. The proposal included filling up the Qattara Depression with water.

National Archives

President Roosevelt and President Edwin Barclay of Liberia, Jan. 27, 1943.

Lyndon LaRouche also campaigned in this same Franklin Roosevelt tradition. Taking part in a conference in Baghdad in 1975, he presented plans for the agricultural development of the region that would see the implementation of highest technologies (**Figure 1**).

Since Roosevelt's death, the British Empire has intervened to put a stop to his plans for the future. Henry Kissinger's NSSM 200 of 1974 is a prime example of this. Kissinger targeted 13 nations for brutal conditions of underdevelopment, using food as weapon, among other things. Egypt was one of these countries.

During LaRouche's international mobilization for the Strategic Defense Initiative, he proposed that Egypt should be elevated to become "the Japan of the Middle East" through technological and

FIGURE 1
LaRouche's 'Oasis Plan' for Development of the Middle East Crossroads

EIRNS

scientific investments. But when discussions between LaRouche and Egyptian ministers led to his invitation to a conference in Cairo in 1982, Kissinger intervened personally to prevent it.

Franklin Roosevelt's heritage and the future of Egypt seemed bleak.

If there is to be a future in this region, we must bring the policies of Roosevelt and Eisenhower back once again, but this time, with the depth of LaRouche's physical economic idea of the "platform," and with a much wider scope.

This is what the World Land-Bridge entails (**Figure 2**).

To build the connection across the Bering Strait to the NAWAPA [North American Water and Power Alliance] project, as well as the development corridors from Tierra del Fuego through the Darien Gap and Mexico, from the United States and Canada towards Siberia and then the Eurasian Land-Bridge. Whole continents will be brought onto a higher economic platform, each step of development of the economy taking place in a totally different international and technological context, a process which will be the actual driver of economic development.

Not only will there be jobs created, but man will be in a position to consciously form the world in which he lives. He will unite countries though mutual development; he will bring continents closer together and also change the climate—both politically and biologically.

So, when we look at Africa today, it must be from the standpoint of an all-encompassing and global change, rather than by trying to solve problems that look like they're local in nature, but oftentimes are not.

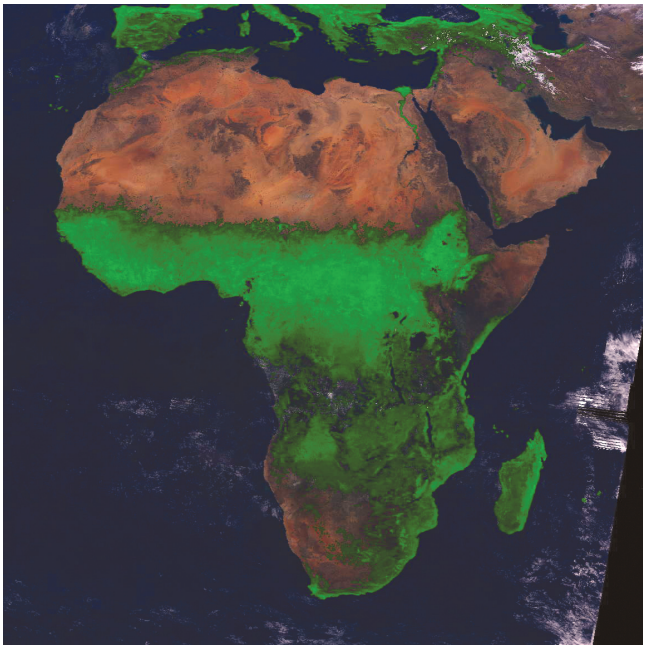
Outflanking the Sahara

Let us begin with the Sahara. Conquering it may seem, at first sight, to be a formidable task, but there are already key concepts in place to allow us to begin tack-

FIGURE 2
The World Land-Bridge
(Proposed and Existing Railways)

EIRNS

FIGURE 3
The Challenge Facing North Africa: Water!
(1984)



NASA/Goddard Space Flight Center Scientific Visualization Studio

ling the problem of greening this 9-million-square-kilometer vast desert (**Figure 3**).

After all, nature has already solved this problem once before. More than 400 million years ago, a plant named Cooksonia, with neither leaves nor roots, appeared on the surface of the planet. It had the ability to live outside the ocean, because, as fossil evidence shows, it carried the water within its own body. In succeeding generations of plants, developing as they moved from the coasts to the interior, the hydrological cycle was brought to the once-dry continents.

A recent theory developed by Russian scientists Makareyeva and Gorshov shows the biosphere's inland activity to be a breakthrough process; they called it "the biotic pump." They discuss that, much like the human heart, the forest pumps the life-giving moisture inland to allow more growth, and increasing rainfall.

The chain of life thus created between the coasts and the inland area has a unique relationship in the evapo-transpiration cycle, where plants on the coasts are able to suck the moisture inland from the ocean.

There are other theories for why rich plantlife produces and moves such dense amounts of water, but no one really knows the answer yet. The best way to find out, is to test it, and if we bring this idea back to the Sahara, we could use it to outflank the desert.

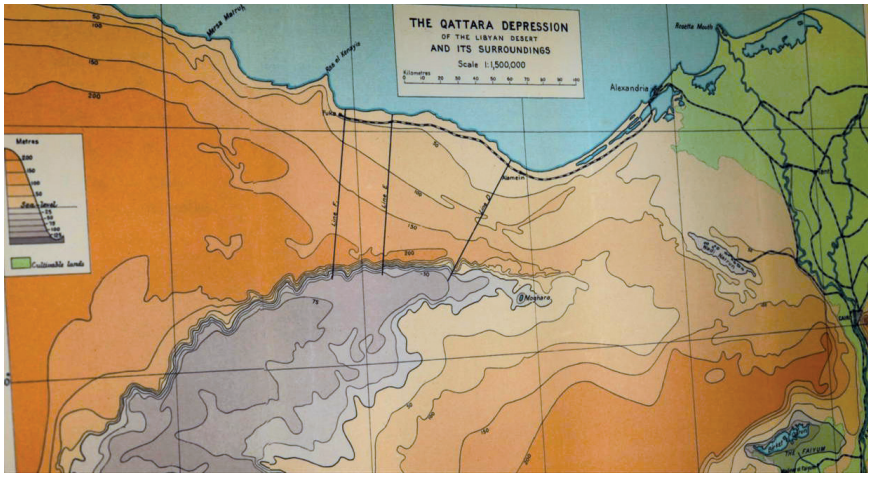
There already exist a few programs to bring water inland from the ocean, which would create, as FDR said, "a vast inland sea." The proposal to fill the Qattara Depression in Egypt (**Figure 4**) by a canal from the Mediterranean, and the similar proposal to fill the chotts in Tunisia and Algeria, have existed since the early 1900s.

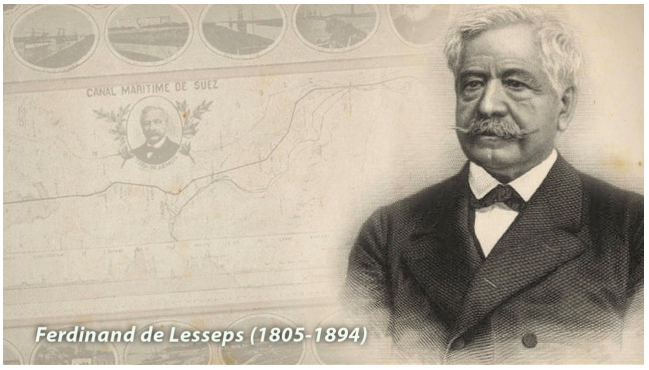
Now, let us take a closer look at these proposals, to really understand the problems involved, and see how we could make these projects a reality.

Tunisia/Algeria: The Roudaire Plan

In 1874, French topographer François Élie-Roudaire published an article titled "An Algerian Inland Sea." He was convinced that he had discovered a vast depression of salty marshlands, which the Arabs called "chotts," extending over nearly 400 km, from Algeria to the Gulf of Gabès in Tunisia. With the backing of the architect of both the Panama and Suez canals, Ferdinand de Lesseps, he proposed to bring seawater back in, by digging a 240-km canal. Among other advantages, Roudaire argued, the introduction of such a huge volume of water would change the local climate, and could transform the whole region into a "breadbasket." For various reasons, the project was never realized at

FIGURE 4
The Qattara Depression





In 1884, François Élie-Roudaire (left) developed a plan for "an Algeria Inland Sea," to dig a canal from the salty inland marshalnds, or chotts, to the Mediterranean, thereby changing the local climate. Ferdinand de Lesseps, the architect of the Panama and Suez canals, supported him. Unfortunately, the project was never realized.

that time.

Today, however, from the standpoint of a higher cognitive and scientific "platform," that undertaking can at last succeed; and with the aid of modern technologies, such as large-scale desalination of saltwater, we will be able to turn these desert areas into fertile gardens.

Let us now show you how.

It all begins with the arrival—by sea!—of the principal power-generator for the whole project (**Figure 5**). In July 2010, the Russian state atomic energy corporation, Rosatom, launched the new generation of floating nuclear power plants. This revolutionizing technology will provide remote regions and underdeveloped nations with easy access to electric power and process heat.

This floating nuclear power plant, according to our plan, would now be anchored off the coast at Gabès, where, a couple of months earlier, a huge concrete reservoir had been installed atop a hill overlooking the coastline, with a large conduit descending down to the bay, and then to the mooring.

One month later, the sound of water would be heard near the reservoir, which is quickly filled up. Hydroelectric turbines soon start generating electricity for the city.

A necessity in this process is, of course, to remove the salt from the ocean water, in order to turn it into potable water for human consumption, and—not to forget—for irrigation, so that dry areas can be greened and used for growing food. Desalination plants have been operating for 50 years, and as of today, there are more than 13,000 desalination plants worldwide, producing more than 45 billion liters of water per day (**Figure 6**). That might sound like a lot, and if distrib-

FIGURE 5

http://www.schiller-institut.de

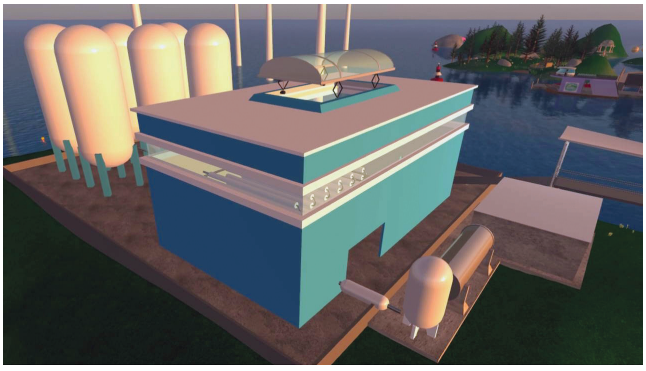
Under the Schiller Institute's plan, Russian floating nuclear power plants like this one would be anchored off the coast of Gabès, Tunisia, providing the principal power source for the project.

FIGURE 6

http://www.schiller-institut.de

There are more than 13,000 desalination plants in the world, but that is not nearly enough to meet the need.

FIGURE 7



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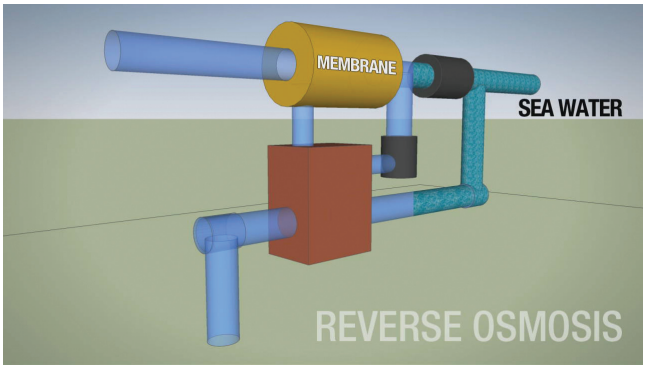
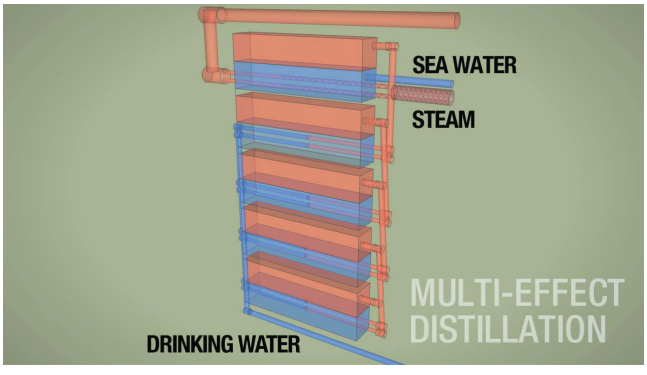
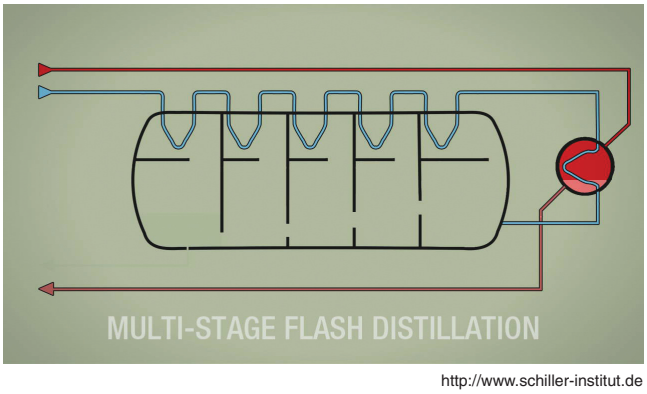
A schematic of a nuclear desalination facility for North Africa.

FIGURE 8







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The three principal methods of desalination of seawater. Research is continuing on how they can be improved.

uted equally to a world population of 7 billion human beings, it would give every person almost seven liters per day. But if we think about the global hunger crisis, and the absolute necessity of irrigating massive land areas that are today useless for the needs of humanity, those 45 billion liters are just peanuts! Just to give you an idea: If you would pour those 45 billion liters over the world's land area, it would correspond to less than one cubic meter of water for the irrigation of each square kilometer of land. That does not get us far!

What we need is a large-scale water desalination program, which, because of the sheer scale of it, must be based on the latest breakthroughs in nuclear science.

Any power plant—even a small diesel engine—can be coupled with a desalination facility. But nuclear plants are the most attractive power source for desalination, because they are more energy-intensive, and also cleaner, than plants fired by conventional fuels (**Figure 7**). Although almost any kind of nuclear plant could be used to power a desalination facility, the fourth-generation high-temperature nuclear reactor—which is 50% more efficient, modular, mass-producible, inherently safe, and originally developed in Germany!—is ideal for the job.

During the desalination process itself, there are three main technologies in use (**Figure 8**): In *reverse osmosis*, pressure is applied to force the saltwater to get filtered through a semi-permeable membrane. *Multi-effect distillation* consists of a number of stages, where, in each step, the water is heated by steam in tubes, so that it evaporates and then condenses onto the next tube. *Multi-stage flash distillation* is based on an ingenious system of countercurrent heat exchange, where a portion of the water is flashed into steam in multiple stages, and then condensed by the incoming flow of colder seawater. All three technologies are still undergoing research to improve efficiency and cost.

The large amount of freshwater produced at our desalination plant in Gabès, will now be used to fill up an aqueduct placed around the first chott, the el-Fejaj Chott.

Now, the Herculean task begins: to get rid of the salt which has accumulated in the soil of these basins for thousands of years. When the aqueduct pours freshwa-

FIGURE 9

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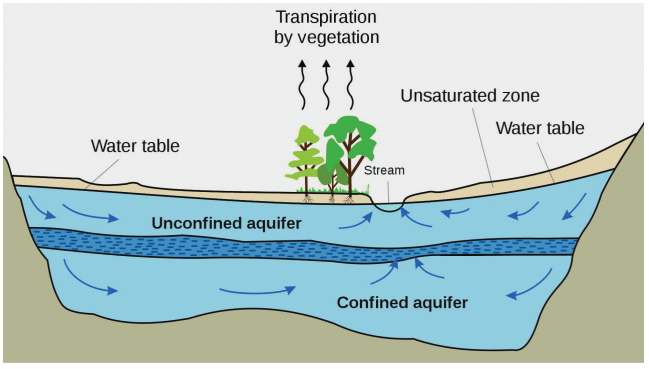
For the Sahara, supplying freshwater will not solve the problem of getting out the salt deep in the soil. Among the techniques to be used will be planting halophytes—plants that live in saline environments and absorb salt.

FIGURE 10



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This diagram illustrates how ancient aquifers will be replenished, using freshwater produced in Gabès.

ter into the chott—through a system of small canals, pipes, and polders, as commonly used in irrigation—that water rinses the soil, and carries the saltwater to the sea, via specially built underground conduits the size of a man. This process of carrying the salt to the Mediterranean will take several years. Since the salt is deeply encrusted in the soil, it cannot be extracted quickly, not even by bulldozers, but the freshwater will have to move the salt upwards, month after month. The process will be accelerated by increased rainfall.

In order to eliminate the remainder of the salt, we can plant halophytes, plants that like growing in saline areas and absorb the salt (**Figure 9**). Recently, thanks to bio-technologies, halophyte varieties of rice have been created, which will also help solve the food crisis.

By now, the first chott has been replaced by a real freshwater lake, which is a much better solution than Roudaire's "inland sea," which would have increased the soil's salinity. Now, we will use the technique of the famous Dutch polders, in order to win large areas of useful farmland through a network of drainage canals. At first, we plant halophytic plants and bushes specially developed for the purpose; they will later be replaced by palm trees. All this new pasture land will also allow for a dramatic increase in cattle-raising.

In short, we have just created a renaissance of local farming, and, thus, filled the necessary first criterion on the way towards the food security every nation must attain.

In the same way as we are able to reclaim the land for the el-Fejaj Chott, we will reclaim the el-Djerid Chott and the el-Gharsa Chott, making freshwater available for great numbers of people. Thus, new cities will be founded. Not only humans, but also migrating birds, which have shunned them for centuries, will find these climes welcoming.

Another indispensible phase of the Blue Revolution will be to install derricks alongside the network of aqueducts; not to pump oil, but to inject freshwater produced in Gabès into the geological depths. In this way, the aquifer underneath what had been an arid desert, will be revived (**Figure 10**). That aquifer allows agriculture to flourish, and will provide a daily source of water to drink.

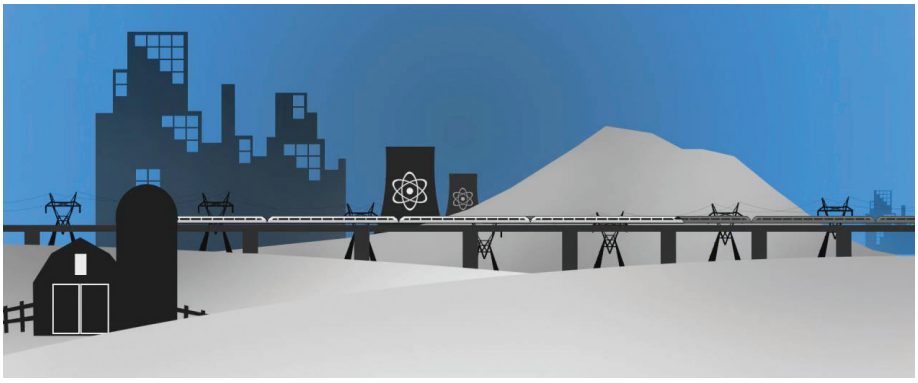
On the Algerian side, the Melrhir Chott will be subdivided into smaller basins, in order to facilitate the desalination process. An extra desalination plant will also be built here. Meanwhile, in Tunisia, other nuclear power plants will be built, ten times more powerful. More freshwater will be produced in a floating desalination plant. A new irrigation canal will connect Gabès to our newly founded city in Algeria.

The water now flowing generously in the Sahara, will change local weather patterns, and stimulate increased rainfall, further creating the conditions for life, so that the population can grow. Instead of exporting oil and gas cheaply, new petrochemical facilities and other industries can be created, such as manufacturing and mining. This, in turn, requires research facilities and universities to be established.

The Tunis-Berlin Corridor

The newly developed local processing industry, as well as the booming population in the region, require an

FIGURE 11



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Development corridors across North Africa would use high-speed rail, including to connect with Europe.

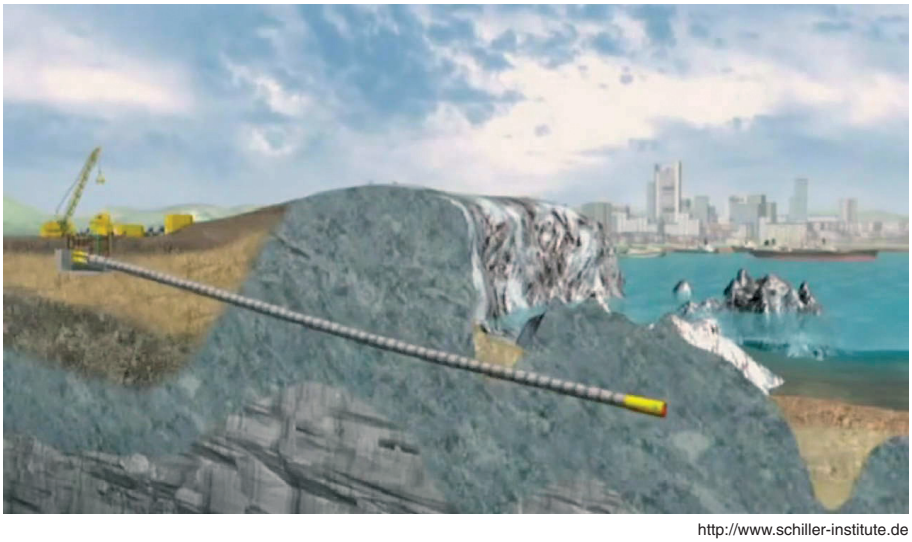
FIGURE 12

The Proposed Sicily-Tunisia Tunnel

EIRNS/Flavio Tabanelli

FIGURE 13

Modern Techology for Digging a Submarine Tunnel



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efficient transportation system. The cornerstone of this new development corridor, going through Tunisia and into Algeria, is a high-speed rail network (**Figure 11**), which naturally should not be restricted to a few hundred kilometers, but needs to continue further to connect with North Africa's closest neighbor: Europe.

The tunnel between Tunisia and Sicily will be a 150-km-long rail-freight link across the Strait of Sicily in the Mediterranean, connecting Cape Bon on the northeastern tip of Tunisia with Pizzolato on the west coast of Sicily (**Figure 12**). This project was first presented internationally at the Schiller Institute conference in Kiedrich, Germany, in 2007.

The Italian government agency ENEA recently presented a feasibility study, in which the researchers suggested the construction of four artificial islands, which will be built with the excavated material. Having the tunnel constructed in five sections between these four intermediate islands will reduce the construction time and cost, as each section can be reduced to only 30 km. Furthermore, these islands can also be used for fishing and recreation.

The author of the tunnel project, the Italian nuclear engineer and transportation expert Dr. Pietro La Mendola, said that "to dig a submarine tunnel has become highly feasible, with modern technologies. As an engineer, I must update my knowledge on digging technologies every three months. Modern machines dig 1.5 km per month. That means that the tunnel would be ready in about 60 months" (**Figure 13**).

During the construction, the

Creative Commons/Cooper.ch

Amazing results with modern construction equipment: The Gotthard Base Tunnel through the Swiss Alps (shown here in progress, in 2006), was completed in 2010.

project would create 10,000 highly skilled jobs in Tunisia alone, which would be a major factor in stabilizing emigration, but the long-term positive effects would of course be much greater than just that.

The building of the Tunisia-Sicily Tunnel is part of a 2,500-km-long land-bridge corridor from Tunis to Berlin, continuing eastward from there.

With this tunnel between Europe and Africa, the planned Messina Bridge between Sicily and the Italian mainland would have an entirely different significance, changing its role from only a connection between two Italian regions, to becoming a vital part of an intercontinental system.

As for the current state infrastructure of southern Italy, the Mezzogiorno region, Italian Economics Minister Giulio Tremonti polemically described the situation, after having travelled through the South: "Trains coming from the North have flies squashed on their windshield. Trains coming from the South don't. In the South, the flies are faster than trains."

With high-speed rail, particularly magnetic levitation, the Mezzogiorno would undergo a total transformation, from an underdeveloped, proverbial "Deep South," to a modern agro-industrial region, strategically located as a gateway to the African continent.

Further development projects are underway: The breakthrough of the Gotthard Base Tunnel through the Swiss Alps caused much rejoicing in October 2010; the Berlin-Tunis north-south corridor will be one of the important arteries of the World Land-Bridge network.

With the building of the 38-km Gibraltar Tunnel between Spain and Morocco (expected to open in 2025), the Marmaray Railway Tunnel under the Bosphorus in Istanbul (opening in 2013), and additional transportation projects within the Oasis Plan for Southwest Asia, the Mediterranean will become an integrated region, with an uninterrupted circulation of transport of goods and passengers along the Mediterranean coast. This will, once and for all, put an end to the underdevelopment that the region has suffered, and provide a future for the youth!

Egypt's and Sudan's Struggle for Development

Let us compare the population densities of Europe with those of Northern Africa, to bury, once and for all, the Malthusian lie that Africa is overpopulated. Apart from some areas along the coast and the Nile River, Northern Africa is almost totally uninhabited.

FIGURE 14

Egypt's Population Density

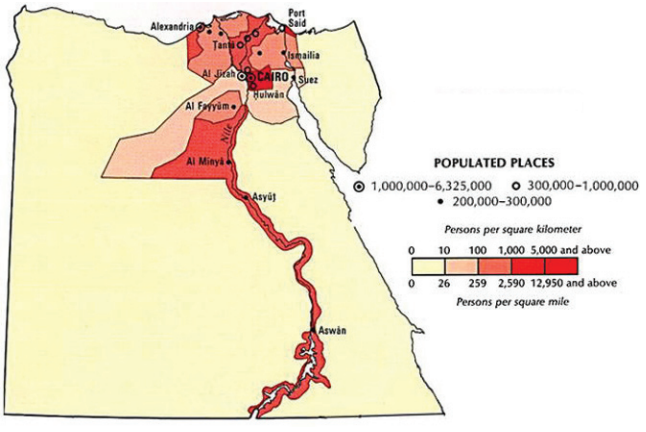
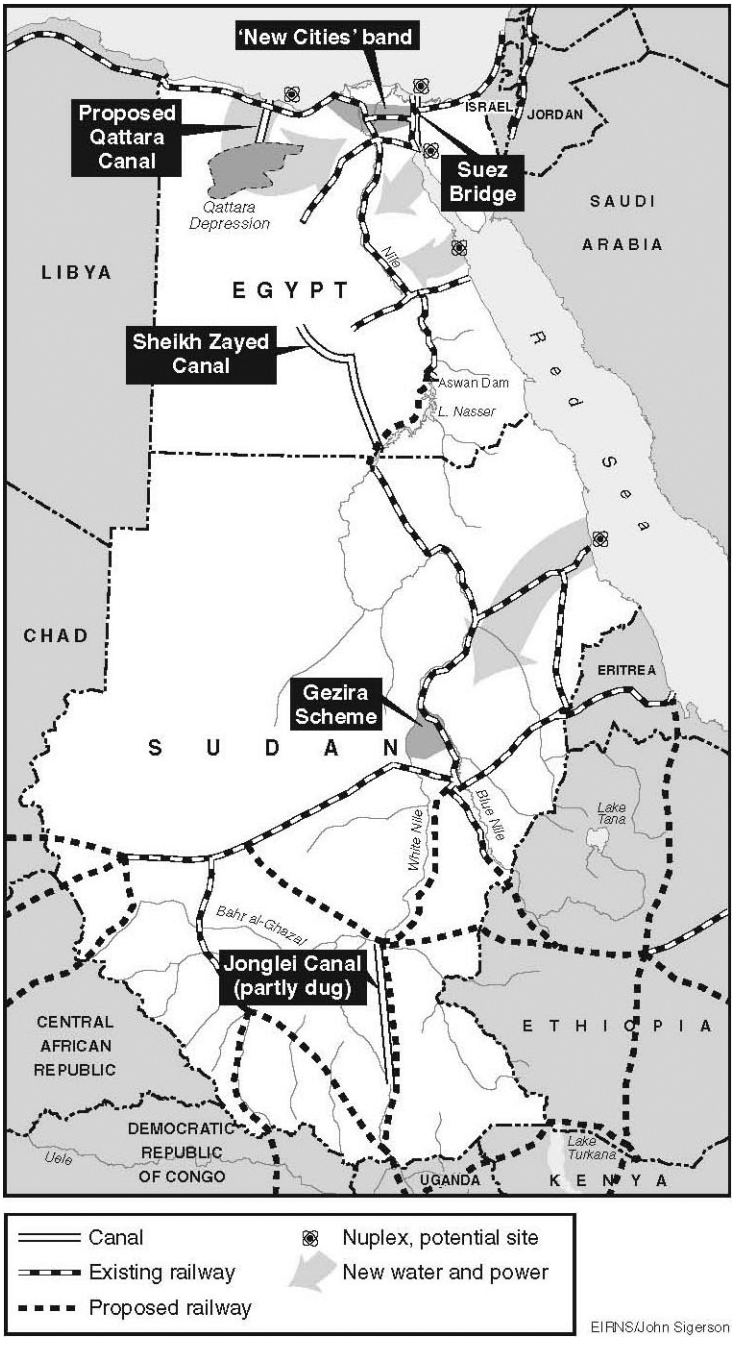


FIGURE 15

Egypt and Sudan: Selected Infrastructure Projects, Present and Proposed



Take the case of Egypt (**Figure 14**). More than 80 million Egyptians are packed into a slim strip of land, less than 7% of the total land area, on the banks of the Nile, and in Cairo and the Nile Delta. It is the lack of technological and infrastructural development which is the problem, not the number of people. Egypt has been denied real development for more than 30 years.

In 1981, after the assassination of President Anwar Sadat by the British-created Muslim Brotherhood, President Mubarak came to power, but Egypt's economy was based on what President Gamal Abdel Nasser had established as a state-directed economy based on infrastructure building, agricultural reform, and industrialization. This included the nationalization of the Suez Canal and the construction of the Aswan Dam. It was because of this development orientation, combined with a growing population, that Henry Kissinger put Egypt on the list of countries targeted for depopulation.

In 1982, the Egyptian government was ready to implement the proposals made by LaRouche and his associates: building nuclear power, transferring desalinated water to desert areas, including the Qattara Depression in the northwest; creating new cities as satellites of existing cities, rather than trying to manage the ghettos of Cairo and Alexandria; transforming the landscape, and thereby creating new agriculture, new sources of food supply, making the deserts bloom, and making Egypt and Sudan the breadbasket for all of Africa and the Arab countries (**Figure 15**). LaRouche's representatives interviewed Egyptian government ministers, who said that they "agreed 100%" with LaRouche's proposals.

But at this point, Kissinger and company moved in, as agents of the British, and said, "No." Egypt was not allowed to invest in agro-industrial development, but instead had to import food. The orchestration of the Iran-Iraq War of the 1980s, the two Iraq wars, and other conflicts in the region, forced the whole region away from economic development, driving it into a war economy. Instead of importing machines and nuclear power plants, Egypt was forced to buy weapons—leading to huge profits for British-run weapons cartels, while Egypt was thrown into a debt trap. The IMF could thereby force Egypt to devalue its currency, to privatize its industries, and to export cash crops in exchange for hard currency.

By the 1990s, Egypt had become totally dependent on these cheap agricultural exports, but also on tourism, with fanciful tourist resorts being built on the beaches of the Red Sea. Massive media campaigns promoted

the myth that this was "development."

It is these policies, imposed from the outside upon Egypt, that the people revolted against! And it is only by reversing the decision to impose these murderous policies upon Egypt, that the problem can be solved.

The key issue here is food production. The Egyptian farmer is among the most resourceful in the world. The yields per hectare for crops such as rice, sugarcane, corn, and wheat, rank among the highest in the world. Two or three harvests a year are often possible.

The challenge all along has been to simply expand the habitable and arable area, outside the valley and delta of the Nile. Ironically, the sands of much of the Sahara have a good potential for agriculture. During the time of the last glaciation, it used to be green and luscious.

In northwestern Egypt, only about 70 km from the Mediterranean coast, lies the Qattara Depression, likely the remnant of a great salt lake, whose deepest point is more than a hundred meters below sea level. One of many proposals is to dig a canal to within a few kilometers of the Depression, then run the flow in a tunnel through the escarpment, and desalinate the water by it sending it down reverse osmosis membranes at high pressure. Like the salty chotts in Tunisia, the soil is spoiled by concentrated saltwater deposits underneath; therefore, a package of nuclear-powered desalination and related engineering projects is required to successfully transform the landscape. Restarting plant growth over such a large area, will restart the rainfall patterns needed to once again make this part of the Sahara green, habitable, and arable.

In the south of Egypt, the Toshka project consists of moving large amounts of Nile River water by pumping water from Lake Nasser behind the Aswan Dam, into the desert west of the lake, where the ancient bed of the Nile is believed to have run, thereby creating several lakes. The Toshka overflow canal, completed in 1978, first came into use in 1996, when Lake Nasser reached record high levels.

A comprehensive program for the development of today's desert area west of the Nile, has been designed by an Egyptian patriot, Dr. Farouk El-Baz, an Egyptian-American scientist who worked with NASA in the United States in the planning of exploration of the Moon during the Apollo missions. He is currently the director of the Center for Remote Sensing at Boston University, and adjunct professor of geology at Ain Shams University in Cairo.

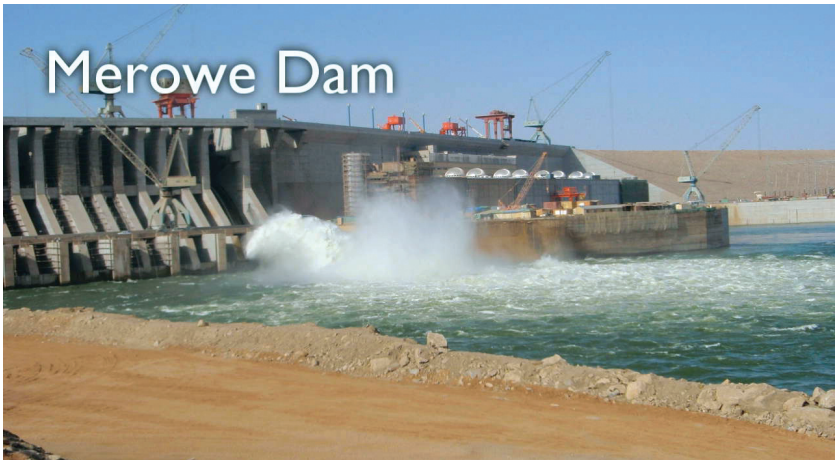
According to Dr. El-Baz's plan, a north-south development corridor will be built parallel to the Nile, at a distance between 10 and 80 km, running 1,200 km, from the Mediterranean coast all the way to the border with Sudan. The proposed project includes the establishment of a superhighway of the highest international standard, a railroad for fast transport, 12 east-west branches to connect to high-density population centers along the way, a water pipeline from the Toshka Canal, an electricity line, and a new international port. New agro-industrial centers and cities will be built in this "New Valley" (**Figure 16**).

FIGURE 16
Proposed Development Corridor West of the Nile

Dr. Farouk El-Baz, http://tiny.cc/n2uf5

Further upstream along the Nile, in Sudan, the Merowe Dam was opened in 2009 (**Figure 17**). This massive infrastructure project, which will add 1,250 MW to the national grid (doubling Sudan's power supply), and add more than 1 million acres of farmland, is one of the main reasons that Sudan has been targetted by the British Empire, which wants to keep Africa in poverty, recolonize its independent nations, and loot its natural resources. Sudan is the greatest area for grain production in all of Africa, and agricultural projects here, such as the famous Gezira farmlands, could pro-

FIGURE 17



vide self-sufficiency in food for the entire region.

An agreement among the nations in the entire region along the Nile, which as a water system also includes Ethiopia and Eritrea, on cooperating in these water projects and food production projects, is the key to success.

New Cities

This land reclamation, expanding the habitable area outside the confines of "the Old Valley" along the Nile, poses the challenge of designing new cities. By the 1970s, Egypt had not built a single new city for a hundred years, since Suez City. Then, it began to embark on an ambitious "new cities project."

The new cities include Sadat City, 6th of October City, and 10th of Ramadan City.

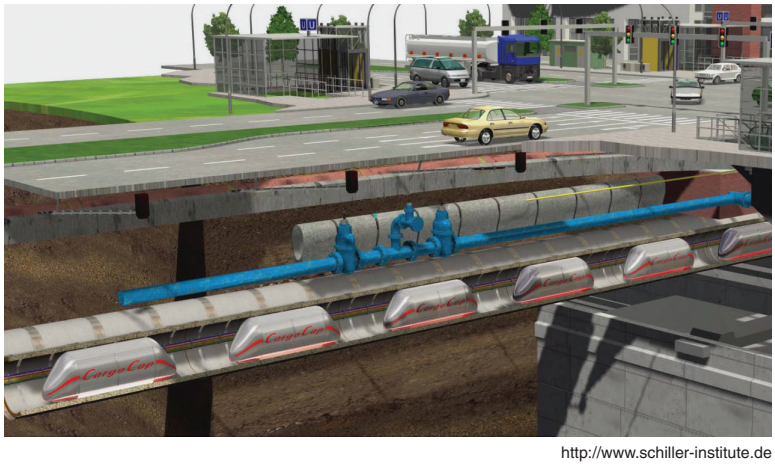
Started in 1977, 10th of Ramadan City was designed to be an independent hub of medium and heavy industries, ultimately providing some 150,000 jobs, including factories for glass, piping, and cement. Each of the new cities is custom-designed, and this one was built in the shape of a nonagon, divided into a number of residential areas. Each residential area is further subdivided into districts, which are arranged in a circular pattern around a central service area, with supermarkets, primary schools, and public services. The larger residential areas, in turn, surround the main city center with its public and recreational services.

By the early 1980s, Ramadan City was already a rather large oasis in the middle of the desert.

However, the expansion process was halted by the world economic breakdown crisis, with its devastating effects on the Egyptian economy. Today, large desert areas, intended for buildings, and for the most part sold to private investors, are still lying unused. Tens of thousands of people commute back and forth, working in the new city by day, and returning at night to Cairo, some commuting up to seven hours daily, and spending up to one-third of their income on transportation. This is an obvious example of the need for a high-speed transportation network, preferably using magnetic levitation.

In 1987, Helga Zepp-LaRouche outlined in her writing on "The City of Cusa" how new science cities, where the foremost scientists will come together to work on solving the problems of the next 100 years of civilization, should, in their city design, harmonically combine scientific and technological progress with the principles of Classical architecture. The cities will be designed around a center of cultural and educational development of the population. This will be surrounded by a region of housing, followed by the relevant industrial activity, and around that, the farmland. Public transport will be designed to deliver the majority of workers and students to their destinations in about 15 minutes or less. Such transport infrastructure, and especially goods transport, will be located underground (**Figure 18**), in order to free up the surface of the city for the benefit of pedestrians and beautiful architec-

FIGURE 18



http://www.schiller-institute.de

A proposal for urban planning in the new North Africa includes underground transport of people and cargo.

ture. High-speed magnetically levitated rail transportation systems will connect the broader region, with speeds and efficiencies that are superior to flight.

Space Science

An absolute necessity for the required dramatic increase of the standard of living of Africa's peoples, is: space science! Transforming the continent, through projects of the scope of Transaqua, the Roudaire Plan, and the Qattara project, requires mapping resources, water management, geographic and geologic analysis, land-use planning, and agricultural monitoring—all of which are done most efficiently using space-based technologies. For example, satellite overflights of the continent, using a special camera with remote sensing, can detect the location of underground water.

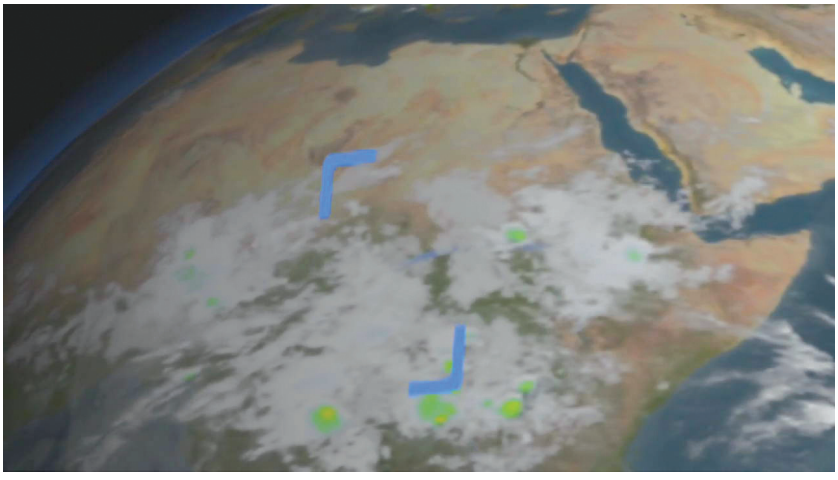
In August 2010, the Communication Ministers of the African Union countries took the first step forward toward the formation of an African Space Agency. The former director of Egypt's space program, Dr. Mohamed Argoun, recently proposed a continent-wide satellite project, AfricaSat, to bring together, and enhance, the technical and industrial capabilities of Africa. This is a good example of how a collaborative effort across the whole continent, would lead to the benefit of all.

This approach brings us to now reflect on the higher principle of the non-bestial nature of man. It is to intentionally begin directing inter-hemispheric weather for the benefit of man and the biosphere. Using their climate-monitoring satellites, NASA research teams have begun to trace the genesis of some of the major hurricanes experienced in the Gulf of Mexico.

This is Hurricane Isabel from 2003 (**Figure 19**). The trade winds are coming into the eastern side of Africa through the Ethiopian mountains. The homogeneous air flows are differentiated by the surface, turning them into vortices; these then travel eastward. While following along the Sahel region, the hotter air from the desert adds to the speed of these waves and pushes it higher by lowering the pressure. By the time these streams get to the coast, where the water is suddenly cold, and if the inward winds off the coast have the right push, then a hurricane is formed.

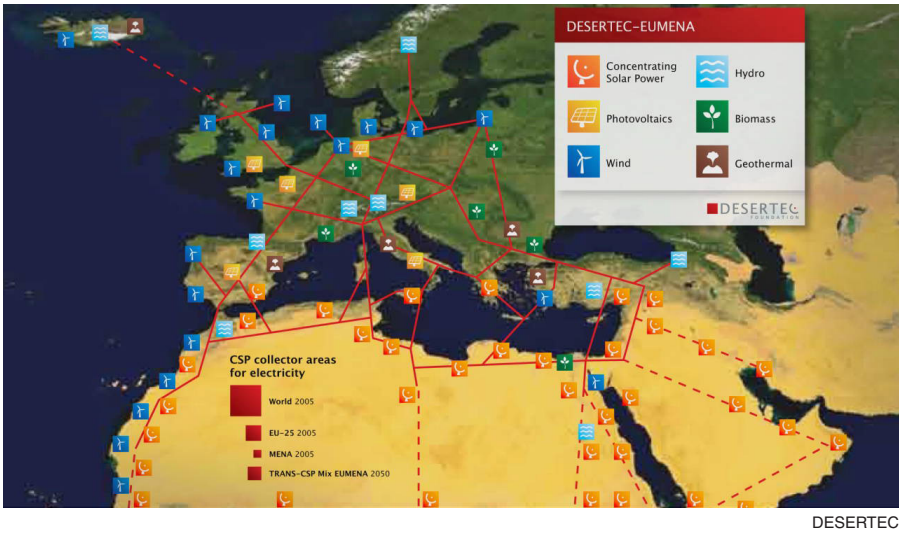
If we develop this particular region in the way we've been discussing here; if we bring up the vegetation, and add to the forests in the Sahel, we know that a regional

FIGURE 19
Hurricane Isabel, 2003, Began in East Africa



NASA

FIGURE 20
DESERTEC: Paving Africa with Solar Panels



DESERTEC

This racist and oligarchical plan, which is well underway, will dry out the region further, extending the Sahel desert.

cooling could occur, as well as an addition of moisture, and all this could bring these passing winds into a stabilized route, and have a calming effect on the whole downstream process, which could otherwise build to become a hurricane. The changes in weather caused by the building of NAWAPA will in turn impact the Atlantic system and most likely even the northwestern coast of Africa.

These speculations are only the beginning of the possibilities of increasing our mastery over nature. But these ideas belong to a new era of mankind, an era into which we now must enter.

DESERTEC

This project is called DESERTEC (**Figure 20**). Essentially, the plan was to turn all these little orange squares into solar panels, and to connect them with new windmills on the coasts of Morocco, and take all the electricity that is generated from these systems, and funnel it into Europe. In order to save money on the long high-voltage cables, the designers then decided to leave the electricity to the Africans and get the oil and gas from them instead.

What this will do, from the standpoint of the biosphere, by heating the landmass, and drying the region out further than it already is, is that it could potentially extend the desert, extend the Sahel, and turn the entire continent of Africa and the Middle East into a giant desert furnace. Now this policy is clearly oligarchical and racist. But above all, these effects show the real intention behind it. And it is this intention, this policy, against which people around the world are rebelling right now. Egypt paved the way and other nations are following in its footsteps.

The point is, the conditions of life have become unbearable to these people. Every human being has the right to life, liberty, and the pursuit of happiness. A system that has dictated living conditions to most people on the planet that are unworthy of the dignity of man, and have made life itself on this planet near to impossible, will always collapse, and must now be shaken off.

We have presented the ideas that are necessary to replace the current system. And as far as the inalienable rights of man are concerned, either you are on the side of mankind, or not. The people of Egypt have made their choice. It is now up to you!

Sudan Irrigation Minister: Build Infrastructure, Use Water Resources

Kamal Ali Mohammed, Minister of Irrigation and Water Resources, Republic of Sudan, was interviewed on Jan. 23, 2011 in Khartoum, by Lawrence Freeman. A referendum had just taken place in southern Sudan, Jan. 9-15, but the results were not yet known. It led to the creation of a separate Republic of South Sudan, which will become an independent country on July 9.

Sudan is Africa's largest country in area, with 2.3 million square kilometers (before the secession of the South), which is slightly more than one quarter the size of the United States. Sudan's population is approaching 40 million, and it shares with Egypt, what is considered to be the longest river in the world, the Nile.[1] But as **Figures 2 and 3** show, the far north of the country is a desert, while the South receives much more rain, and in some areas, is indeed a tropical rainforest.

Sudan as a whole has been self-sufficient in basic food requirements in the past, and its agricultural potential is enormous: Fully 40% of the land area is fertile and arable. Studies have shown that if Sudan's full potential were reached, it could provide over 1 billion tons of food, enough to feed North Africa and the Horn. Yet in 2002, only 16% of that area was actually being cultivated. The seasonal lack of rainfall can create acute food shortages, especially in central Sudan.

Water resources are abundant, but their variability presents a life-and-death issue. The average annual rainful is 416 millimeters, but that ranges between 25 mm in the North and more than 1,600 mm in the South. Rainfed agriculture in the Central-South region is seasonally limited, because the dry season lasts about eight months. The flow of the Blue Nile fluctuates according to seasonal rainfall in the Ethiopian highlands, while the White Nile loses almost half of its water into the Sudd swamp.

Sudanese Media Center

Kamal Ali Mohammed, Minister of Irrigation and Water Resources, Republic of Sudan

All of this underlines the urgency of developing water infrastructure systems, which is what *EIR*'s Freeman discussed with Minister Kamal.

Freeman: "Could you tell us what kinds of infrastructure projects are now being planned, or are already in the works for Sudan in the areas of water, energy, transportation?"

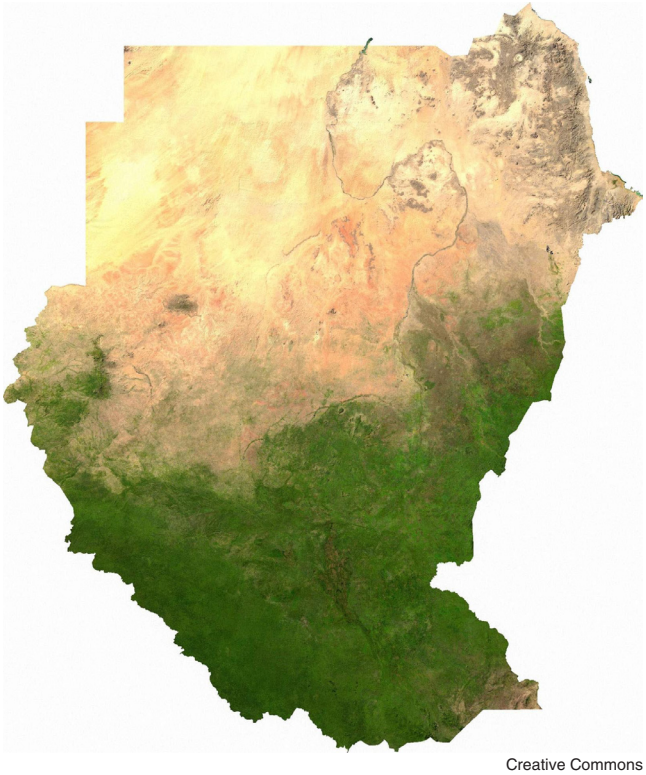
Kamal: "Our water resources in Sudan comprise our share of the Nile waters, which we share with Egypt; and also, we have groundwater, aquifers, and rainfall. The amount of rainfall on average is 1,100 billion cubic meters per year, and our share of the Nile River is 18.5 billion cubic meters. Egypt takes 55.5 billion cubic meters.... We have three big rivers—the Gash River and the Barka, flowing down from Eritrea, and the Kor Abu Hable in Kordofan."

The government has undertaken various projects to improve water management, including building dams and irrigation systems. One of the largest of the projects is the Gezira Scheme, at the place where the northward-flowing Blue Nile and the White Nile join, becoming the Nile (see Figure 15 p. 59, a map showing infrastructure

1. This discussion draws on two articles by Hussein Askary, which provide additional background and analysis: "Defying Britain's Genocide System: Sudan's Great Project in Agriculture," *EIR*, July 18, 2008, and "Sudan's Economic Accomplishments Become Casus Belli for British Empire," March 13, 2009.

FIGURE 1
Sudan

FIGURE 2
Sudan: Desert in the North, Rainforest in the South



Creative Commons

projects in Egypt and Sudan). The Gezira Scheme is the world's largest farming operation under a single management, and once provided a substantial foreign exchange and government revenue.

At the Gezira Scheme, Amal said, "the main crops are cotton, sorghum, wheat and vegetables. And in the late 1980s, we constructed the Rahad Scheme on the Blue Nile, an area of 300,000 acres, also for cotton, ground nuts, and sorghum."

A second major project has been the construction of the Merowe Dam, said Kamal, "for hydroelectric power, and for improving, vertically and horizontally, the irrigation projects along the main Nile, with an installed capacity of 1,250 megawatts per hour. It was inaugurated last year, and now it is operating, and providing us with hydropower, and we built interconnection lines to the national grid."

Freeman: "I was able to visit the Merowe Dam in April 2009, and I was quite impressed and excited, because I thought that was one of the best development projects I've seen in Africa in a while. Are there other projects being thought about on that level, or slightly less than that level, over the next five to ten years?"

In reply, Kamal pointed to a number of projects, including the expansion of the Roseires Dam, to increase its storage capacity from 3 billion cubic meters to 7.7 billion cubic meters; construction of a new dam and irrigation project, over 400,000 acres, along the Atbara River; the Sebaloka Dam along the main Nile; and the Dal project, about 80 km south of Lake Nubia.

Projects like these will double Sudan's total hydroelectric capacity, from less than 2,000 MW per hour to almost 5,000 MW, over the next ten years.

By contrast, Freeman noted, neighboring Ethiopia is going through a much larger hydropower expansion, 30-40,000 MW. Some of the relevant rivers feed into the Blue Nile.

Water in South Sudan

Asked whether the secession of South Sudan would cause a conflict over water between North and South Sudan, or with Egypt, given that the source of the Nile is in the South, Kamal said "definitely not." "The South had already started with us to utilize the Nile waters. There are 23 irrigation projects in the South, in Upper Nile State, an area of some 90,000 acres already. And after the first peace agreement in 1972, we sat down

together to draw up a list of priorities. We need about 40 million cubic meters for our arable land bordering the Nile, but we have a share of 18.5 billion.... We made studies on all the potential projects on the Nile in South and North Sudan."

But many of the projects could not be built, because of the war in the South, which is now over.

Freeman: "Do you foresee future increased cooperation between the two countries, if they do secede?"

Kamal: "As far as the Nile water is concerned, it is only the White Nile that goes through the South. They have nothing to do with the Blue Nile. They have nothing to do with the Atbara River.

"The White Nile, as you know, flows down from the equatorial lakes, from Lake Victoria, Lake Kyoga, and Lake Albert, in the East African countries—Kenya, Uganda, Tanzania, Rwanda, Burundi, and Congo—which contribute to the flow, flowing to South Sudan, and in southern Sudan, 50% of the water that comes from these countries is lost in the swamps.

"Also, we have the Sobat River, flowing from the Ethiopian plateau, and also there are 8 billion cubic meters lost in the swamps of Machar and Sobat: 8 billion in the Sobat, 14 billion from the Bahr al-Jebel/Bahr al-Ghazal, and another 14 billion from the Bahr al-Ghazal, which do not reach the White Nile. Out of 14 billion, only about half a billion flows down the White Nile.

"The amount of water arriving between Malakal and Aswan, is about 25 billion cubic meters—the Nile water agreement with Egypt is reckoned at Aswan—but about 21% of that is lost, by evaporation and seepage and so on. So the amount reaching Aswan is only about 19 billion.

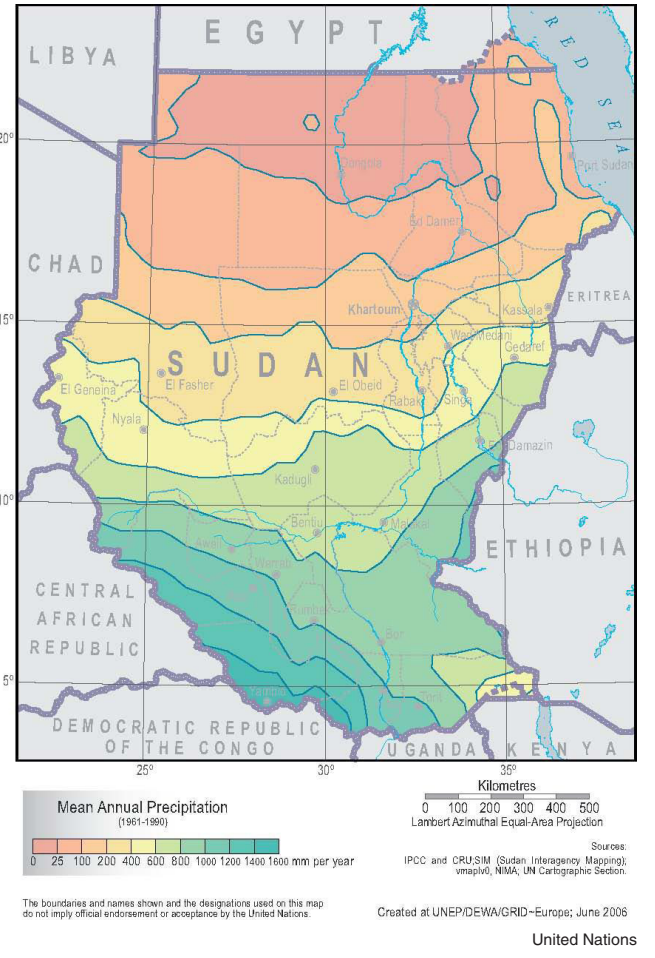
"Egypt, according to the 1959 Nile water agreement, gets three quarters, and Sudan one quarter. So out of this 19 billion [that comes from the White Nile], between us and the South there is only about 4.9 billion cubic meters....

"I am just telling you that the share between the South and the North is limited to the White Nile."

The Jonglei Canal

Freeman: "The Nile River in its totality, probably about 80 billion cubic feet, some of it's lost to evaporation, and then it's divided. Clearly, the Nile River is not big enough for the needs of the nine countries—I estimated 400 million people—that use the Nile River basin. One thing that could be done is the Jonglei Canal, which would increase that. But even that will not be enough. So how do we get more water into the entire region?

FIGURE 3
Sudan's Mean Annual Precipitation



"One proposal from Mr. LaRouche, from our organization, is that we create a new Nile River by desalinating an equivalent amount. That we have nuclear power desalination plants take out the saltwater from the Red Sea and the Mediterranean Sea."

Kamal replied that the Jonglei Canal had been two-thirds completed, before work was stopped in 1983 because of the war. The planned length is 360 km, and 265 km have been dug. "This phase of the canal would accrue about 4 billion cubic meters, to be shared equally between Sudan and Egypt. And if you go along with the other projects, you can also reclaim 4 billion cubic meters from the Sobat and Machar, and you can also reclaim about 7 billion from Bahr al-Ghazal."

He explained how John Garang, who became the leader of the Sudan People's Liberation Army (SPLA, 1983-2005) in the South, had wanted to write his PhD dissertation on the Jonglei Canal project. Kamal was

the director of the project at that time. "He came to me and was attacking the Jonglei Canal, on the basis that this project would have no benefit for the inhabitants of the area. When he said that, I told him that a development council had been established, headed by Abel Alier, who was head of the government of the South at that time, with six ministers from the South and four ministers from the North. They agreed to the construction of the Jonglei Canal, on the condition that it should have projects beneficial to the area.

"And so, projects were demarcated—community services, drinking water supplies, schools—and he learned that the canal would be navigable. When he had a look at the projects in the area, he changed his mind."

Garang "had a program for economic development, social development, how the foreign policy of the country is going to be, and so on. But he had to stop all the activities [because of the war]. The main activities were three: 1) work on the Juba Airport, to modernize it; 2) the Jonglei Canal; and 3) Chevron oil exploration."

Asked about claims that the Jonglei Canal would significantly change the weather pattern in Southern Sudan, and maybe Ethiopia as well, Kamal replied that he had made a thorough study of rainfall patterns in the area. Between 1961 and 1979, the flow of water from Lake Victoria to the South was doubled, thereby doubling the swampland. But average rainfall did not change, so the area of the swamp had nothing to do with the effect of rainfall.

This conclusion was endorsed by a Dutch consulting firm (financing for the project was supposed to come from the government of the Netherlands). Initially the Dutch Parliament said "No," saying there would be negative environmental impacts: Rainfall would be affected, etc. "So they formed a team of experts from Holland, who came and worked with us. The results were that there would be no negative environmental impact, nothing negative about the rainfall in the area, and so the Parliament approved the financing of the project."

Freeman: "Do you think it's going to be completed now, with Northern Sudan being separated, so it will be up to Southern Sudan at this point? Northern Sudan would then have an interest in helping Sudan develop the Jonglei Canal, no?"

Kamal: "The government of the South, established after the 1972 agreement, approved the project. Now, the new government—we don't know if they are going to approve the project or not."

The Importance of NAWAPA For Geophysical Research

by Peter Martinson

Bert punched out and headed home from work. These days, everybody had jobs. There weren't enough people to fill them! They had been watching the Copper Reservoir fill behind the colossal 1,753-foot-high Chitina Dam for the past several months, keeping an eye on the dam for structural problems. So far, so good, so Bert headed home.

As he walked to his car, he heard some rustling nearby him, like an animal in the bushes, or someone crumpling cellophane. But, upon looking around, he saw nothing in the bushes. Then, as he looked up, he saw the source of the sound: a magnificent display of the Northern Lights! He and many other people up here near the Arctic can hear them, and the Eskimos have many legends about the sound. Just then, a meteor streaked across the sky, which Bert also heard as a crackle.

Creative Commons/Jerry MagnuM Porsbjer

Is there a connection between such phenomena as the majestic Northern Lights (as seen here over Malmesjaur Lake in Lappland, Sweden, April 5, 2010) and earthquakes and volcanoes? Research is ongoing.

Bert got into his car and drove home. When he pulled up, he saw that his dog Katyusha was already waiting at the window for him, as she always does—even though Bert works odd hours. He walked in, greeted Katyusha and his two cats, Ivan and Sascha, and began fixing dinner. Just as he finished cooking, he heard some commotion in the living room, and went in to scold his pets. Katyusha was running in very tight circles, while the two cats bolted out of sight. Then the dog took off up the stairs. Bert had seen this behavior before, and immediately dove under his heavy oak desk, and held on tight. Within moments, the ground began to shake. Up and down, books flying off shelves, cookware hitting the

wall. As Bert would find out later, Chitina was now being hit by a magnitude 4.5 earthquake, whose epicenter was about 2 km beneath the huge Copper Reservoir. Within seconds, which seemed like minutes to Bert, the shaking stopped.

When he thought it was safe, Bert scrambled from under his desk, and dug out his phone to call the base. "Come on, Bert!" said the voice on the other end, "this dam has handled worse than that in the past few months! It was built to withstand an atomic bomb blast!" Bert hung up, let out his breath, and said to his cats, who had come out of hiding, "So, have you come back to your senses?"[1]

Creative Commons/AlexHe34

*The pseudo-scientists at the **Wall Street Journal** claim that a reservoir impounded by the Zipingpu Dam in Sichuan, China (shown here) caused a devastating M7.9 earthquake in 2008. But the engineering challenges are not beyond man's powers to overcome them.*

April 23—Accepted geology today is about as objective as modern climatology. All phenomena are assumed to be derivable from a few accepted doctrines, and all observations that cannot be explained with these doctrines as the primitive causes must be ruled out as "superstition." Several of the doctrines are attributed to valid, even perhaps heroic, hypotheses of past scientists, such as Alfred Wegener and Tuzo Wilson, but they have been turned into the chains that bind scientists to a limited universe. Real hypotheses are never the end points from which scientists are relegated to deriving implications; instead, they are always transition points to higher discoveries that improve Man's mastery over his universe, while posing more profound questions. The relationship between earthquakes and NAWAPA can help us break these chains (see http://www.larouchepac.com/infrastructure).

It has been known for some time that the impoundment of water into man-made reservoirs causes seismic activity. Tremors can occur immediately upon initiation of impoundment, or appear after several seasons of filling cycles, or both. The seismic activity is typically related not to the actual level of water, but appears to change of the water level. When the water level becomes stabilized, the tremors usually die down. The theory is that the added weight, and possibly the entrance of water into fault cracks, can cause an already stressed fault to snap. Scientists such as Pradeep Talwani,[2] director of the South Carolina Seismic Network, try to use these reservoir-induced-seismic (RIS) tremors as models to understand how natural earthquakes occur, but, as we will see, there is almost certainly a sharp distinction between the two phenomena.

The proposal for a North American Water and Power Alliance (NAWAPA) includes the impoundment of hundreds of millions of acre-feet (MAF) of water along areas that are quite close to the North American section of the Pacific Rim of Fire, from Alaska down through the Rocky Mountain Trench fault line, to the Rocky Mountains and Cascadia. The largest measured earthquake in American history occurred about 100 miles west of the proposed largest dam in the NAWAPA system, the 1,700-foot Chitina Dam in Alaska, which will hold back a reservoir of more than 1,000 MAF of water. The construction of such a dam, with the capability of withstanding an M10 or 11 earthquake, will present large engineering challenges, but nothing that is beyond the future ability of Man.

Will the impounded water cause a huge earthquake? It is not clear. There are some who claim a causal relationship, such as the so-called scientists at the *Wall Street Journal*,[3] who claim that a reservoir im-

1. http://www.larouchepac.com/node/17172

2. http://www.geol.sc.edu/talwani.htm

3. http://online.wsj.com/article/SB123391567210056475.html

pounded by the Zipingpu Dam in Sichuan, China caused a devastating M7.9 earthquake in 2008. What is clear, is that there has been an ongoing effort by the British Empire to stop the advancement of Man's control over both the biosphere and the lithosphere, and also an effort to retard the understanding of how the Earth works.

In this short report, I will show that the tremors generated by human impoundment of water are a different species of phenomenon from real earthquakes.

Real Earthquakes

The field of geology is dominated by the theory of tectonic plates and subduction. In summary, underneath the crust of the Earth is a deposit of hot, plastic rock which undergoes convection. This rock emerges from the depths at mid-ocean ridges and forms new, basaltic plate material. The surface of the Earth is composed of several of these large basaltic plates, whose creation at mid-ocean ridges is compensated for by destruction at subduction zones, almost like a conveyor belt.

Earthquakes and volcanoes typically occur at areas designated as subduction zones, where the plates are bent dramatically downwards and pushed underneath, usually, granitic continental crust. That subducted plate sucks water down with it, melts when it reaches the asthenosphere, and the melted material rises and pops out at volcanoes. As the plate gets pushed downwards, the continental crust on top gets buckled back and upwards, the strain growing until the crust gives way and collapses back down in an earthquake.

Ignoring for now the fact that bending down at a sharp angle, a several-kilometer-thick section of very dense rock, and then pushing it down hundreds of kilometers, would require enormous stresses that are simply not observed, a large body of evidence is now piling up that indicates that these merely kinetic and thermodynamic mechanisms are not the real story. There is something else going on down there.

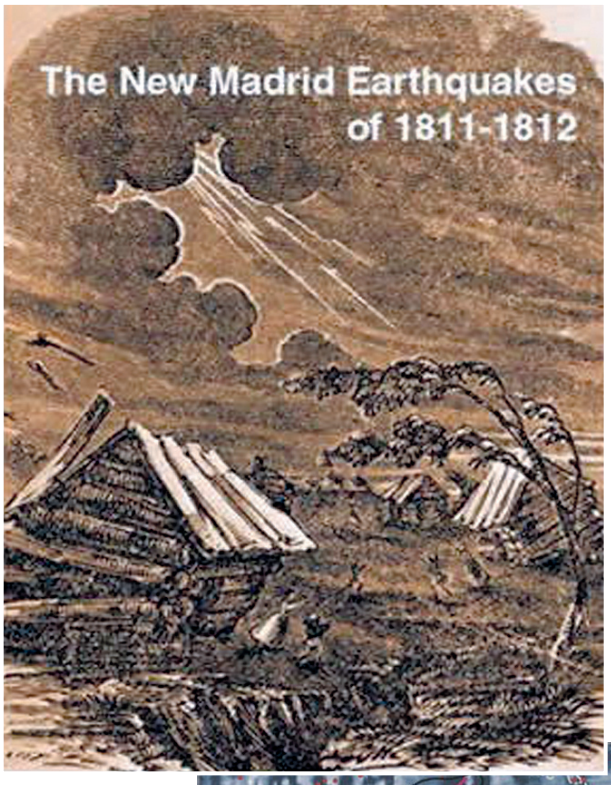
According to the kinetic model of seismic waves, the epicenters of large earthquakes are usually quite deep in the crust. For example, the seismic waves sent out by the main March 11, 2011 Japanese earthquake lead back to a spot about 32 km beneath the floor of the ocean. After this event, the many aftershocks, several of which were over M7, and continue to this day, have ranged from near the surface to about 200 km deep.

For comparison, the deepest hole ever dug by man, the Kola Superdeep Borehole project in Russia, is a little over 12 km deep. Based on seismic data, conjured by British statistician and opponent of Wegener's continental drift theory Harold Jeffreys, they expected to reach a boundary between 3 and 6 km down, where the granite continental rock would transition into basaltic basement rock, which carries seismic waves much faster. Instead, they ran into a quite different species of rock, gneiss (a metamorphosed granite), which was saturated with water that could not have trickled down from the surface. They never reached basalt. Eventually, they had to give up the project due to lack of funding, but also because the rock was much hotter (~200°F) than they had expected (~100°F), and had entered into a new, plastic phase that kept destroying drill bits and closing up.

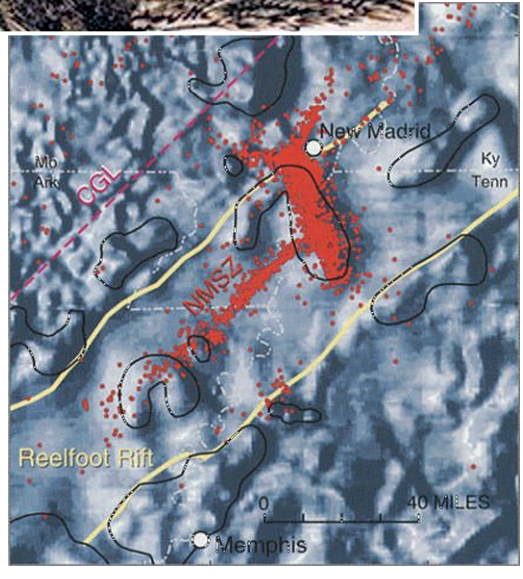
The foundations of geophysics had thus been demonstrated as wrong, a mere 3-6 km down, while most earthquakes originate at depths several times this. Can it really be assumed that we know what causes earthquakes?

Let's look at an example of a real earthquake, here in the United States. Quakes are generally relegated to the so-called plate boundaries—until one occurs in the middle of a plate. For example, take northern Arkansas, in the New Madrid Seismic Zone, where, between 1811 and 1812, three or four quakes, estimated to be larger than M8, took place within about three months. Descriptions of this event are rife with imagery that is absolutely inconsistent with simple, or even complex, rock kinetics. The series of quakes tore open huge chasms that belched forth noxious fumes, created round mounds that apparently burnt trees to cinders, and shook the land like waves on the ocean. Parts of the Mississippi River reversed direction for a while, lakes disappeared, new lakes emerged and filled up with hot, stinky water. This area then suffered "aftershocks" for the next 200 years.

There is no observed plate boundary or fault line around the New Madrid Seismic Zone, although seismologists have mapped out where one could be, based on the seismic data. They call this the "Reelfoot Rift," which was created when the North American continent threatened to break into two parts, but then stopped. There is now a developing situation in Nevada, far from any known fault line, where there have been well over 1,000 earthquakes, reaching up to



Between 1811 and 1812, several M8-plus quakes took place in the New Madrid Seismic Zone, tearing open huge chasms, burning trees to cinders, and shaking the land. Parts of the Mississippi River reversed direction for a while; lakes disappeared; new lakes emerged and filled up with hot, stinky water. The "aftershocks" continued for 200 years. ***Yet, there is no observed plate boundary or fault line around the New Madrid Zone!*** *Shown: a poster of the time; a satellite image of the Reelfoot Rift, within the New Madrid Seismic Zone.*



M4, just in the past two weeks. Seismologists are now scrambling to describe the existence of a "previously unknown fault" underneath this area. Perhaps earthquakes actually create the faults, rather than vice versa!

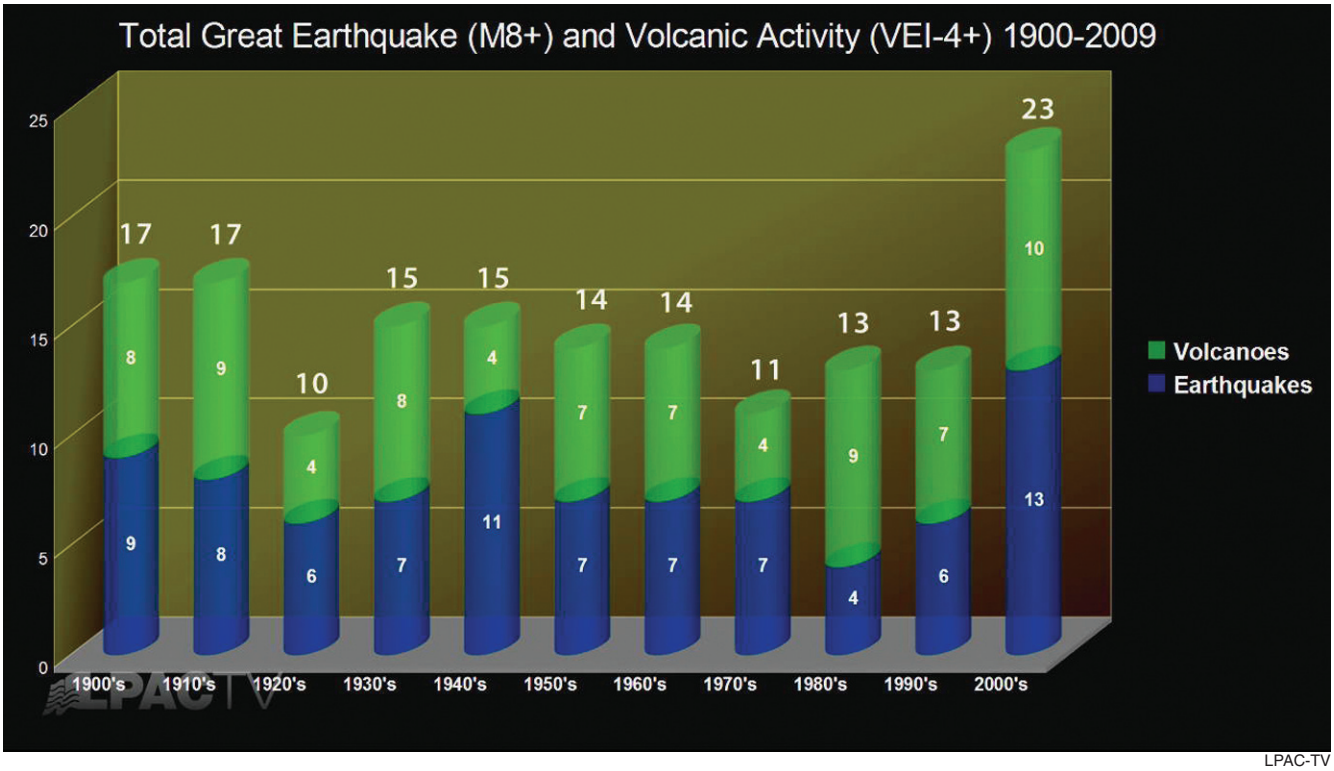
Now, look at the observations and measurements both leading up to earthquakes and during them. Since antiquity, people have described various precursor phenomena, such as anomalous animal activity, the smell of "noxious gases," and strange weather before an earthquake strikes. Recently, with the advent of satellite technology, other phenomena have been observed days to weeks before an earthquake, such as changes in the ionosphere, ultra-low-frequency magnetic variations, infrared anomalies, increased air conductivity, and other electromagnetic and chemical phenomena. During the earthquake, people have described seeing strange lights and fires near rifting areas.

The processes deep in the Earth's crust responsible for building up this potential are currently unknown. Thomas Gold[4] has proposed, based on these and other anomalies, that earthquakes and other tectonic events are caused in large part by the exhalation of gases from deep below the Earth's crust. This gaseous discharge then results in many of the precursors seen by people (and animals). Russian Academician Sergey Pulinets[5] suggests that radon from radioactive decay of uranium is released near the time and location of earthquakes, which then causes a cascade of events generating the various precursors. NASA scientist Friedemann Freund[6] has demonstrated that compression of rock will generate various electric currents that could cause several of the observed phenomena. All of these hypotheses are testable, and may play a role, but everything adds up to a picture that leaves the usual geophysics dogmas in the dust.

Although the result of the earthquake is the movement of a large mass of rock, the movement of rock cannot be held to be the cause of the earthquake. Whatever moves the rock, must be built up as potential, which then begins to "burn" for some time leading up to the actual explosion. It appears that some change in the environment around the quake zone

4. http://books.google.com/books?id=PEyYSUO6hgYC&printsec=frontcover&dq=intitle:deepintitle:hotintitle:biosphere&hl=en&ei= qAezTdyTIcTqgQf368zGCw&sa=X&oi=book_result& ct=result&resnum=1&ved=0CDYQ6AEwAA
5. http://www.larouchepac.com/node/17944
6. http://earthquake.usgs.gov/regional/nca/seminars/2009-02-04/

FIGURE 1



LPAC-TV

causes the fuse to be lit, which will then be followed some time soon by the actual quake. It is likely, since large quakes also coincide closely with solar flare events, that there is an interaction with the environment far off the surface of the Earth, that forms the trigger.

The moral of this story is that this immense transformation of energy is not caused by the weight on top of the rock, and certainly not by man-made reservoirs. The shakes created by these reservoirs are surface shakes. The idea that the pressure of the water will generate large earthquakes is rooted in the typical geophysics dogma, that rubbing rocks together will give you a quake. It is reminiscent of the old trick of squeezing water out of a buffalo nickel. Constructing reservoirs along NAWAPA may help us sound out existing stresses built up in the crust, and may indeed be useful in relieving some of those stresses, but, as we will see in the next section of this report, there is another factor involved with large quakes that that cannot, at this moment, be touched by Man.

LPAC-TV

These two images are from the LPAC-TV video, "The Shocking Rise in Great Quakes" (www.larouchepac.com/node/17916), which indicates that there is a correspondence between the increase in solar activity and that of great quakes and volcanoes.

Paleotectonics

Scientists from all over the world (such as Gerald Duma and Laurence Hecht) have demonstrated that there is a close correspondence between large earthquakes and solar cycles. For example, Duma[7] has taken the catalog of all earthquakes, in four parts of the planet, over the course of the entire 20th Century, and categorized them, based on time of occurrence. In all four places, he found a clear increase of quake activity during the local night, versus the local day. He also found that increases in seismic energy release tend to follow increases of solar activity, in an 11-year cycle. A similar correspondence was found by Hecht, who showed that if you take all the earthquakes of M7.9 or higher over the past century, and combine them with volcanic eruptions, there is a clear correspondence with solar activity. (See the video report by Natalie Lovegren summarizing this.[8])

Our planet is an integral part of the Solar System. As such, it shows clear resonances with processes in the Sun, and with other planets. The whole system is also part of a galactic system, along with the Crab Nebula, which itself is part of a greater local group of intergalactic space-time, which includes over 30 galaxies, and beyond that, supergroups and superclusters. What is emerging from the research into earthquake precursors, and correspondences with other phenomena of our galaxy, is a scientific revolution.

Study of the last 550 million years of our planet's fossil record reveals a cyclic change over a period of about 62 million years, give or take a few million. This cycle appears as a growing and shrinking of the number of distinct types of organisms, which grows and shrinks in an apparently regular tempo. Some of the most severe dips in the numbers are what we call "mass extinctions," but those statistical variations ignore the overall anti-entropic development of the biosphere. After each so-called dip, there is a resurgence of life on the planet, always including advances that can be measured in energy-flux density. Hence, there is an overall growth of both number, and intensity, of life in the biosphere, which is punctuated by something that reduces, sometimes catastrophically, the number, in a rather regular rhythm.

According to best current estimates and models, Medvedev and Melott (2007)[9] have noted that the 62-million-year cycle of biodiversity coincides with the path of our Solar System up and down through the plane of the Milky Way galaxy. Later, Melott and Bambach (2009)[10] also note another cycle, which is more intriguing, and bears on our study of earthquakes and other Earth-shaking processes. The picture that emerges, is that our planet pulses, in continental uplift and collapse. This pulse produces massive volcanic outflows and earthquakes, and coincides with the periodic wipeouts of living species on the planet. There are several pieces of this puzzle, which assembles into a strange new phenomenon touching upon our discussion of earthquakes.

The record of life on the Earth is preserved in sedimentary rocks. It is well known that sedimentary rock rarely forms on continents, but rather underwater. The vast majority of animal fossils are thus of ocean creatures. The rock layers which contain dinosaur or other land-animal bones typically represent an area that used to be downriver, or some kind of sinkhole that the animals fell into as they were dying, or perhaps an area that was catastrophically flooded at some point. In fact, much of the vast sedimentary rock beds found in the central United States were laid down during several episodes of "epeiric" seas, which divided North America into two separate continents, East and West.

Imagine an area of land that is under a few hundred feet of water. This area will be undergoing sedimentation, and thus will be represented some day as sedimentary rock. Now, imagine that some unknown process makes the ocean depth shrink to nothing. This could happen either by lowering the ocean levels as a whole (as when water gets locked up in polar icecaps), or by raising the level of the land, so-called continental uplift. If this area remains dry for a few million years, and then gets resubmerged, sediments will resume piling up on the floor, and there will thus be a gap in the sedimentary record, called a discontinuity.

The problem for us is that, as one follows the layers of rock upwards in a rock face, there may be a point where one layer of sedimentary rock is followed immediately by another layer of sedimentary rock that was put down millions of years later. In other words, there may have been a gap of several million years in which

7. http://meetingorganizer.copernicus.org/EGU2011/ EGU2011-5987.pdf
8. http://www.larouchepac.com/node/17916
9. http://arxiv.org/PS_cache/astro-ph/pdf/0602/0602092v3.pdf
10. http://arxiv.org/ftp/arxiv/papers/1011/1011.4496.pdf

no sediments were laid down, followed by a period of renewed sedimentation. Some scientists, such as Shanan Peters,[11] have found that it is possible to recognize when sedimentation rates are slowing down, as a gap is approached, and that these periods of slowing sedimentation recur on an approximately 60-million-year cycle. Indeed, Melott and Bambach note that it is during these periods, when rates of sedimentation begin to slow, that low points of biodiversity are reached (including the mass extinctions).

Another piece of the puzzle is shown by ancient ocean composition. Aspects of this record are preserved in the sedimentary rocks. Geochemists can look at the weights of various elements in the rock, and based on how these weights vary, can get some sense of what must have been in the ocean water. One particular element observed to vary is strontium, element 38. Strontium found in ocean sediment is typically lighter than that found in continental rock. If ocean sediments are found to contain somewhat heavier strontium than usual, it is a sign that either the production of ocean water at hydrothermal vents went down at that time, or that heavier strontium was being delivered to those sediments by increased erosion of continental rock by rivers. More rapid delivery of heavier strontium would then mean that the river water was more rapidly eroding the continental rock, either because there were just more rivers, or because the rivers were originating at higher altitudes, and thus the water moved much faster.

Melott and Bambach show that strontium in the sedimentary record changes weight with a roughly 60-million-year period, such that the weight goes down as sediment deposition goes up, and the weight goes up as deposition goes down. In other words, more continental erosion took place as sedimentation rates went down, and as biodiversity plummeted, but the erosion slowed while sedimentation rates went up and the biosphere recovered.

The last piece of Melott and Bambach's puzzle is volcanic. At several places on the surface of the Earth, we find what are called Large Igneous Provinces (LIPs). A LIP is a typically massive structure of mafic igneous rock (usually basalts) that was created when loads of lava poured out onto the surface of the Earth over a period as long as several million years. One of the most interesting LIPs is known as the Siberian Traps, a set of four distinct structures in Siberia which collectively contain well over 2 million cubic km of basalt. The outflow of lava began around 251 million years ago, and lasted about 2 million years. This event is widely believed to be at least part of the reason that about 98% of all types of creatures disappeared in the so-called Permian-Triassic (PT) extinction, about four 62-million-year cycles before the dinosaurs went extinct.

LIPs represent the building up of pressure under the crust, and the bursting forth of enormous quantities of liquid rock. The earliest strata of rock contain evidence of LIP events, and several scientists, such as Prokoph et al. (2004),[12] have noted that there are several frequencies of occurrence through time. If one only looks at LIPs that occurred on continental crust, one will get a clear signal of increasing and decreasing amounts of such liquid rock floods over a period of about 60 million years, which tend to coincide with increasing strontium weights and decreasing sedimentation rates.

What does all this mean? Each of these points of evidence—sedimentation rates, strontium weight, and LIP occurrence—points to the fact that the crust of the Earth, particularly that covered by continental rock, pulses in uplift and collapse, with a period of about 60 million years, and that each of those uplifts is accompanied by a corresponding decrease in the number of types of organisms on the planet. As uplift transitions into collapse, the organisms quickly rebound to higher-than-previous diversities, and higher states of organization.

Revolution in Science

Currently, there is no adequate explanation of this apparent "Heartbeat of the Earth." Most of the attempts at finding a cause revert back to the usual mechanism of mantle convection, which supposedly drives the tectonic plate conveyor belt. As we have seen, this model is not very interesting, or truthful. By combining the cycles with the earthquake precursors, we begin to see that a scientific revolution is afoot.

Perhaps changes within the Earth will find their cause in cosmic radiation. It is well known that our cli-

11. http://strata.geology.wisc.edu/vita/reprints/Peters2008.pdf

12. http://www.geofys.dk/waveletcourse/articles/8%20-%20Time-Series%20Analysis%20of%20Large%20Igneous%20Provinces.pdf

"Understanding how the insides of the Earth function must thus be viewed as a branch of true astrophysics, and as a laboratory that we have access to, if we build the technology needed in order to plumb the depths. Hence, NAWAPA."

mate is almost completely driven by the dynamic between the Sun and galactic cosmic rays (see Svensmark 2007[13]).

It has also been recently shown that the eruptions of volcanoes could be triggered by increasing cosmic ray storms (Ebisuzaki et al., 2010[14]). We also know that the highest-energy cosmic rays, those produced in locations such as the Crab Nebula and emitted from other galaxies, are capable of passing through the core of the Earth. Perhaps the very deepest reaches of our planet are in intimate discussion with the rest of the galaxy, in real time.

What is clear, is that this picture is of an Earth which does not generate its internal activity all by its lonesome. Thus, it cannot be studied as an object unto itself, a closed system, but instead as an integral manifestation of processes of the galaxy as a whole. Understanding how the insides of the Earth function must thus be viewed as a branch of true astrophysics, and as a laboratory that we have access to, if we build the technology needed in order to plumb the depths. Hence, NAWAPA.

The reservoirs we construct with NAWAPA are really a method of tuning the region where the galaxy meets the Earth. By adjusting water levels, we may learn more about how and why the crust shakes, but we will also provide the water to agriculture, which will increase the moisture content in the air, and provide a more dynamic electric circuit between the ground and atmosphere. At the same time, the transport routes of water, through deep tunnels, indicate the advances in drilling technology that will have to be made, which might allow us to actually dream of drilling down to several hundred km, to see what is really down there. NAWAPA will not only be a boon to geophysics, but will be a laboratory for developing an experimental understanding of how the Creator's universe works.

13. http://www.space.dtu.dk/upload/institutter/space/forskning/05_afdelinger/sun-climate/full_text_publications/ svensmark_2007cosmo-climatology.pdf
14. http://tiny.cc/f1is0

LaRouche's Plan To End the Depression And Create 3-4 Million New Jobs

NAWAPA

We are now on the edge of the post-Obama era, in which it becomes possible for mankind to orchestrate an upshift in Biospheric development, starting with the NAWAPA program to re-engineer the entire Northwest water system, from Alaska down to Mexico.

LYNDON LAROUCHE— LEARN FROM NAWAPA: MIND OR BODY?

Man's power to exist lies not in the things which exist, but in the process through which things, and mortal human lives, come and go, in the domain of the immortality of each soul of a very special species, mankind. . . .

NAWAPA could not be killed, because it was the immortal feat on which man's future presently depends.

- **NAWAPA: "The Next Evolutionary Step for the Human Species,"** a Basement Team Roundtable, EIR, Aug. 27, 2010 (http://tiny.cc/f14hd).
- **"Learn from NAWAPA: Mind or Body?"** by Lyndon H. LaRouche, Jr., EIR, Aug. 20, 2010 (http://tiny.cc/iovad)
- **"NAWAPA, from the Standpoint of Biospheric Development,"** by Sky Shields et al., EIR, Aug. 13, 2010 (http://tiny.cc/ai2gm)

Editorial

Crisis in the British Monarchy

Like the JFK assassination in the United States, there are some crises in Great Britain which will just not "go away." They both erupted this week: first, the fact that the Queen's pet, Tony Blair, lied through his teeth and doctored intelligence reports in order to justify the launching of a disastrous, illegal war against Iraq in 2003; and second, the unresolved question of the 1997 death of Princess Diana.

We will have more to say about these developments in our next issue, but the fact of their surfacing signals some truths about the current strategic situation which should not be ignored.

Succinctly put, the British Monarchy is, like the rest of the world, in an existential crisis. Its dominance in the current global monetarist system could be appropriately compared to the royals holding the premier quarters on the Titanic: It may feel luxurious for the time, but they are headed in the same direction as those stuffed in the lower quarters. As Lyndon LaRouche is fond of putting it: They are *going down.*

This reality has not been lost on leading circles in Britain, whose elites are deeply divided over how to deal with the accelerating disintegration of the entire Inter-Alpha system; a relatively saner faction is searching for alternatives to what appears to be their inevitable fate. This is the context for the spirited debate which has occurred in that country on subjects which the powers-that-be in the United States will still barely touch, at least in the media: Glass-Steagall, and official criminal behavior, like that of Blair's machinations to launch the Anglo-American invasion of Iraq—not to mention the death under the most suspicious of circumstances of one of Blair's most prominent British critics of those lies, Dr. David Kelly.

The British monarchy's position in this vicious factional battle continues the most bloody, genocidal tradition of that post-1688 institution. As expressed by Prince Philip and his World Wildlife Fund, and echoed by his lunatic son Prince Charles, the monarchy's program echoes the spirit of the Habsburg emperor on the cusp of the Thirty Years War: "Better a wasteland than a land full of heretics." The key difference is that Philip and his coterie of global advocates for deindustrialization, "climate change," and so-called sustainability, consider the vast majority of mankind to be the "heretics," simply because they will challenge the oligarchy's claim to control resources and power to the end of time.

Tellingly, some of the most vocal opponents of Philip's genocidal lunacy also come from Britain, as can be seen in the devastatingly effective attacks waged by the likes of Lord Christopher Monckton, against the climate change hoax. And, of course, the vast majority of working people there find themselves in strong, although largely impotent, opposition to the monarchy's genocide policy.

The United States has not only the most vital interest in how this war is resolved, but also has the ability to positively determine the outcome. The key lies with the immediate implementation of the Glass-Steagall principle, which will cut loose these predator bankers, whose home is in London with the monarchy faction. That act alone will tilt the balance globally—and not a moment too soon.

Meanwhile, our so-called President plans another pilgrimage to the Queen next week—to pay homage as owed by such a British puppet. What better occasion to kick him out of office—and give a shove to the hated monarchy as well.