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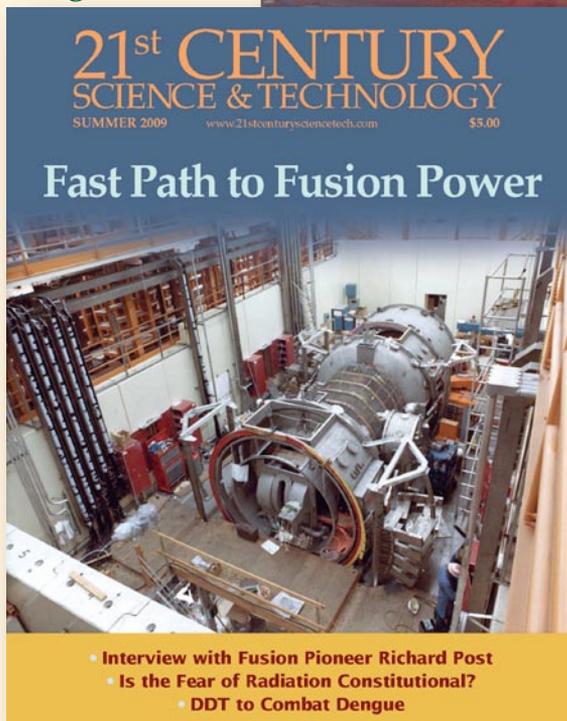
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EIR

From the Managing Editor

Lyndon LaRouche's March 13 webcast, which is being variously described as an "earthquake" or a "bombshell," developed three crucial strategic points: 1) the likely imminent and urgently necessary removal of President Obama, through a process of "impeachment in the streets"—not in the Congress; 2) the role of the British-run Inter-Alpha Group in bankrupting the global financial-monetary system; and 3) the penetration of British agents in the U.S.S.R. that blocked the adoption of LaRouche's programs in the 1980s, and the actions of the same gang in Russia now, acting to the same end.

See *International* for an overview report, and we'll feature the full transcript in our next issue.

Our news coverage highlights what's behind the drive to impeach Obama, and the forward-looking efforts toward Eurasian development (see our coverage of the advanced India-Russia negotiations, and of breakthrough developments regarding North Korea).

Just look at the frauds this administration has tried to put over in only one year: First, continuing the Bush-Cheney bailout of Wall Street, while doing nothing to protect citizens from home foreclosures and unemployment. Second, touting the "green jobs" that will supposedly put people to work. See *Economics* for the proof that these green jobs are *known to be* a fraud—they cost more money than they make, they take more power than they produce, and they line the pockets of individuals who are well connected to the White House. The related fraud of "global warming" was thoroughly discredited by the time of the December 2009 Copenhagen summit, but Obama is still pushing it. And third, the health-care "reform" fraud (see *Editorial*). The latest, unbelievable news is that House Speaker Nancy Pelosi "would prefer" to ram this genocidal legislation through *without a vote in the House*, by a wildly unconstitutional procedural maneuver.

Our *Feature* is an exciting dual presentation by LaRouche and Sky Shields, a leader of the LaRouche Youth Movement's "Basement Team." The subject is *cosmic radiation*, an issue that has been neglected by establishment science, because it can only be understood once the Euclidean/Newtonian paradigm of "particulate matter"—little marbles—racing through space, is abandoned. The scientific problems to be solved in this domain will be crucial for a Moon-Mars colonization program, since the human body cannot live for long in the harsh conditions of space, without solving them.



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Nebula NGC
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photographed by
the Hubble
telescope.*



NASA, ESA, and the Hubble Heritage Team (STScI/AURA)

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Lyndon H. LaRouche, Jr. attacks the problem of positivism from the clinical vantage-point of Bernhard Riemann. “The influence of the program of Hilbert and other modern positivists,” he writes, “has tended to encourage results which have often impaired, and even reversed mankind’s attempts at scientific progress. For precisely that reason, the time has now come for us, thus, to expose and to eliminate the pathological influence of positivist thinking from the economic and related policy-making of nations.

“On that account: the specific problem addressed here, is of the nature of a specific kind of barrier to progress in the domain of what is fairly identified here as ‘Cosmic Radiation.’”

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THE ESCAPE FROM HILBERT'S "ZETA" "X":

Mapping the Cosmos!

by Lyndon H. LaRouche, Jr.

March 4, 2010

There is a certain tendency which is, unfortunately, typical of modern classroom and related mathematics. This involves a trait which is likely to be noticed for its frequent occurrence among otherwise presumptively qualified secondary and university students and graduates. It is an acquired mental disorder known as "positivism," a type of disorder expressed as a viciously systemic form of reductionism, notoriously common to certain types of university professors and their students.

It is occasionally appropriate to attack the symptoms of that mental disorder simply because it is a mental disorder with relevant practical implications for an individual person, or society generally. It becomes necessary to do so when the effect of the subject's mental disorder is a policy which is a specific threat of some kind to the welfare of mankind, as in this present report, on the subject of what is fairly identified as "positivism."

Positivism as such, is a mental problem whose common habitat includes "science departments" of secondary and university classrooms. In globally extended European cultures, it is usually associated with the virtually hereditary influence, directly or indirectly, of Aristotle's role in promoting the diseased mental condition often known as Euclidean geometry, or, under

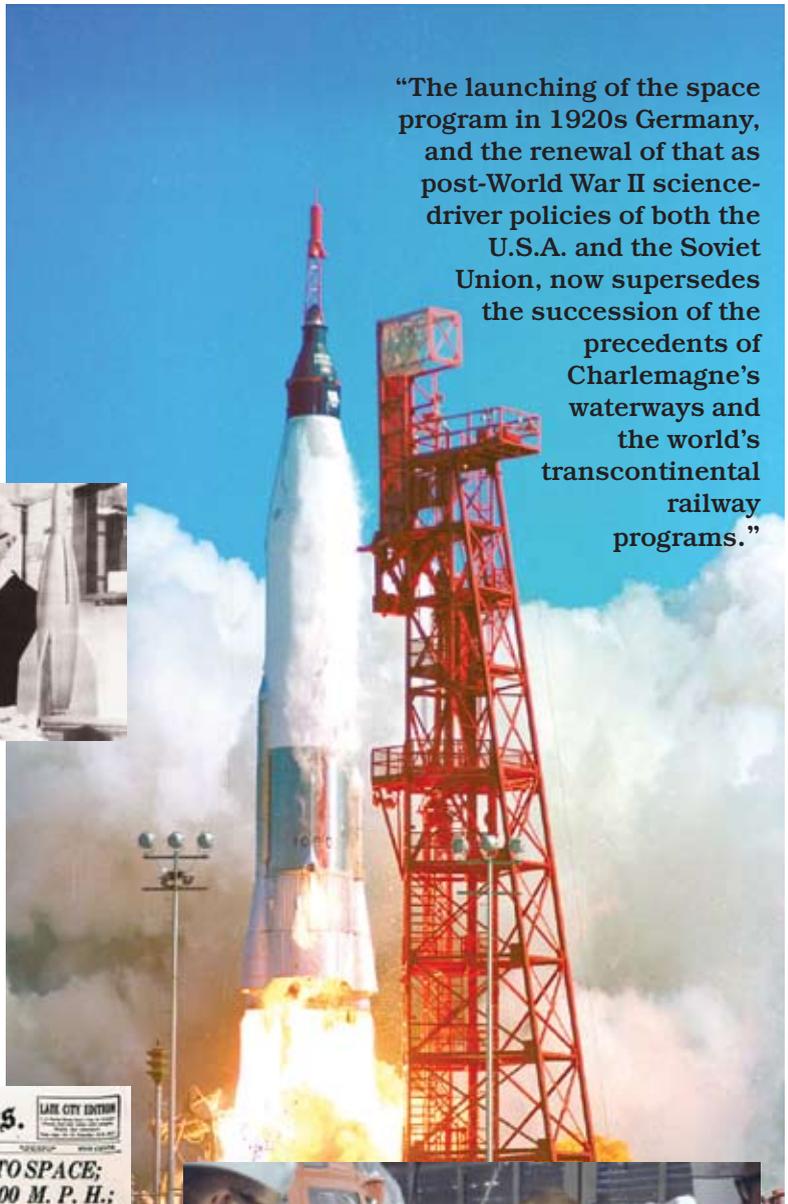
a broader label, the "positivist" dogma asserted by Paolo Sarpi and the modern representatives of his following. The latter phenomenon is most conveniently illustrated by the famous case of David Hilbert's celebrated package of twenty-three problems of mathematical formalism.

Here, I attack the problem of that clinical disorder from the clinical vantage-point of Bernhard Riemann's habilitation dissertation.¹

The influence of the program of Hilbert and other modern positivists, has tended to encourage results which have often impaired, and even reversed mankind's attempts at scientific progress. For precisely that reason, the time has now come for us, thus, to expose and to eliminate the pathological influence of positivist

1. Cf. Lyndon H. LaRouche, Jr., **Evil, Wicked & Stupid**, *EIR* March 6, 2010, *passim*. My systematic studies of this phenomenon included investigations into the matter from the standpoint of behavioral problems common to management consulting personnel, in an investigation conducted during the 1957-1962 interval. Cf. Lawrence S. Kubie **The Neurotic Distortion of the Creative Process** (Lawrence, 1958) and "The Fostering of Scientific Creative Productivity" (**Daedalus**, Spring, 1962). In an early 1970s exchange on my view of this matter between Dr. Kubie and an associate of mine, Kubie emphasized that he regarded human creativity as inherently a quality of good in its own right. Although my studies of creativity as such date from my adventures with formal geometry from the mid-1930s, my professional approach to the subject dates from the late 1950s, in the course of which I found Kubie's view on this matter to be significant.

German space pioneer Hermann Oberth (1894-1989) was the science advisor for Fritz Lang's 1929 film, "Frau im Mond" ("Woman in the Moon"), which introduced world audiences to concepts of space travel.



"The launching of the space program in 1920s Germany, and the renewal of that as post-World War II science-driver policies of both the U.S.A. and the Soviet Union, now supersedes the succession of the precedents of Charlemagne's waterways and the world's transcontinental railway programs."



American physicist Dr. Robert Goddard (1882-1945), with Germany's Oberth and the U.S.S.R.'s Konstantin Tsiolkovsky, are considered the three "fathers" of space travel.



Dr. Hermann Oberth at the museum in his honor in Feucht, Germany. After World War II, he joined the U.S. rocket team in Huntsville, Ala.



A Soviet technician fine-tunes the Sputnik satellite prior to liftoff.

The Soviet launch of Sputnik, mankind's first orbiting spacecraft, on Oct. 4, 1957, caused an uproar that extended throughout the Cold War.



Astronaut John Glenn, a few weeks before his liftoff (top, on Feb. 2, 1962). He was the first American to orbit the Earth.

thinking from the economic and related policy-making of nations.

On that account: the specific problem addressed here, is of the nature of a specific kind of barrier to progress in the domain of what is fairly identified here as “Cosmic Radiation.”

My subject here is the treatment of cosmic radiation as a matter of general economic policy.

FOREWORD:

On the Subject of “Cosmic Radiation”

Lately, the governments of the world on the whole, such as the present governments of western and central Europe, and the U.S.A., have been victims of a London-directed imperial reign of stupidity, or worse. Throughout European and extended history, reductionist cultural patterns in cultures, as in matters of physical science, have exerted a destructive form of long-term technological and comparable influences over the foreign and internal general policies of many nations, and of the day-to-day thinking of their populations.

For example, since the inauguration of the present reign of the British Empire’s Queen Elizabeth II and her consort, Prince Philip, and, also, the Netherlands monarchy’s associated, late Prince Bernhard, a certain strand of the long-term thinking of the trans-Atlantic nations, has been committed, as by those so-called “Bildbergers,” to carrying out a program of deep and global cuts in the ranks of the world’s population, an intention fairly labeled as “genocide.”

This promotion of royal genocide has been expressed in a program conceived in the image of the design of those policies by the late Bertrand Russell, and, then, led both by both Prince Philip and the now deceased Prince Bernhard. The pro-genocide policy of these and others has been presented as the World Wildlife Fund’s currently projected demand for a rapid collapse of the level of the world’s human population, from approximately 6.7 billions persons, to two, or less. That policy is typical of the same thinking as that of the evil Bertrand Russell on the same subject.

More or less global approaches to guided development, or destruction of the economic and related cultures of much of our planet, are not unusual in known world history. Contrary to such as Russell and Prince Philip, in a much earlier time in European history, the famous Charlemagne had crafted the foundations of

the notion of the modern sovereign nation-state. He expressed this in many ways, including the program of development of internal waterways of rivers and canals from the Pyrenees to the eastern borders of the realm. These measures under Charlemagne had had the included effect of increasing the potential population-density, and improvement of the standard of living in relevant parts of Europe. Some major features of Charlemagne’s program have survived in their role in Europe for more than a millennium, up to the present day.

Similarly, by the time of the role of our own John Quincy Adams as, first, Secretary of State, as, later, President, and, still later, until his death, a leading figure of the U.S. House of Representatives, Adams elaborated a policy of defining the United States as a republic whose borders are defined, fourfold, by the two great oceans, the border with Canada, and the border with Mexico. It was during that period, that the U.S. development of inland waterways provided the foundations for the development of a system of a national railway grid. This became the design for the transcontinental railway systems, whose design for rails echoed the principles of design of waterways systems built up under Charlemagne. This trend in the U.S.A. survived to become the model, about the time of the Philadelphia Centennial Exposition, for the development of both modern transcontinental and transnational railway systems within the continent of Europe, such as those of Germany and Russia.

In such fashions as that, the Eighteenth-century development of the steam-engine by the circles of Gottfried Leibniz, and also the activity in England, of Benjamin Franklin in guiding the launching of such industrial progress there, illustrates the same principle of policy-thinking trends often spanning a significant number of successive generations.

The case of the actual launching of the space program in 1920s Germany, and the renewal of that as post-World War II science-driver policies of both the U.S.A. and the Soviet Union, illustrate the same point. The space program first launched during the 1920s in Germany, now supersedes the succession of the precedents of Charlemagne’s waterways and transcontinental railway programs.

However, there have also been regional and global planning operations for the worse.

Illustrative of “worse,” is the case, that following the assassination of President William McKinley, with

the accession to reigning power by the rabidly anglophile U.S. President Theodore Roosevelt, the full development of the region between the fabled “twenty-inch rainfall line” and the western mountains was largely stopped, as British influences, including those operating from across the relevant Canadian border, exerted a significant degree of control over the policies of economic practice in the states in that region.

Now, my own association has developed a positive, implicitly global sort of long-range, science-driver outlook, an outlook rooted in earlier precedents, but with the qualitatively new features which inhere in the developments presented by what has come to be identified as our “basement team.”

Our own current outlook to that effect has been strongly affected by my own participation in what had become known as the Fusion Energy Foundation (FEF) of the 1970s and 1980s. This remained a source of inspiration within the precincts of public policies of a number of governments including that of the U.S.A., if only for a short time, prior to the installation of a person of a disposition starkly contrary to my own, Soviet President Yuri V. Andropov, and his notable successor, President Mikhail S. Gorbachov. Nonetheless, the fact remains, that the objectives for cooperation up until the suppression of that initiative, the efforts made on behalf of the ideas, embedded in the SDI program, for the cooperative development of science-driven conquest of the conditions of mankind generally, then, point the way still, to frontier technologies as the basis for peace across the borders of the former NATO divide, and have now set an example for a present effort to bring formerly estranged nations into a renewal of a space-based initiative as a step in that direction had already been accelerated by President John F. Kennedy’s combined opposition to entry into a Vietnam war and implicit in his Moon-landing perspective.²

Recently, the work of the “basement team” has brought us to the ante-room of a similar form of attempted cooperation, a general assault on the undevel-

2. It is true, that, up to the moment of the death of U.S. President Franklin D. Roosevelt, there was no prospect for a posture of warfare between the U.S.A. and the Soviet Union. That did not mean that diplomacy could get us out of the thermonuclear stand-off as easily as if the state of hostility had not been entered. Often the only road out of hostilities to peaceful collaboration, is through a difficult road to peaceful collaboration along a pathway of detente, as applies to the relations between Russia and China, on the one side, and the U.S.A. on the other, even presently.

oped borders of a subject bearing the name of “cosmic radiation.”

That new project has been prompted for our dedication today, in a significant degree, by the precedents of two among the greatest followers of the discoveries of Bernhard Riemann in science, Academician V.I. Vernadsky and Albert Einstein, all assisted by the collaborative outlooks among Einstein, Max Planck, and Wolfgang Köhler. It is also prompted by the urgency of this topical area of investigations for many reasons, not the least of which is the implications of the necessary consideration of such matters as relativistic modes of accelerated travel by human occupants of vehicles between Earth’s Moon and Mars. It is also a matter of many issues of the general notion of disease, the need for what might be termed neglected regions of the cosmos.

The key for the subject of a task-orientation for the mastery of the subject of “cosmic radiation,” is located within the definitions of Riemannian physics already tackled by Vernadsky and Einstein, most emphatically, as, similarly, by my established definition of the subject-matter of a science of physical economy. This is a subject-matter which reflects that same domain of Riemannian physics, that at a time when the presently on-rushing general economic breakdown-crisis of the planet, is already in progress. This scientific advance demands sweeping reforms in national economic policies, reforms which depend on following through on the pioneering by those scientific celebrities of the preceding century.

Riemann Against the Positivists

This proposition, being considered in the following pages, demands that we take action now, to assist in the success of such efforts to master the practical implications of cosmic radiation, both on Earth itself, and, more so across the reaches between Earth and Mars, and beyond that, now, by removing the obstacle to scientific progress represented, still today, by what errant mathematicians, such as by the late David Hilbert’s radically reductionist proposition presented to the problems of mathematics then, as still today.

The essential feature of Hilbert’s argument presents us with what should be considered as an artificial problem, much more than one inherent in competent scientific practice. Hilbert’s problem was, actually, one whose very existence can be demonstrated to be located as merely a product of an “ivory tower” variety of con-

ceit, a conceit whose subject lies in a fantasy-world outside the proper domain of physical science as such.³

To understand that “ivory tower” scheme presented by the arguments of Hilbert, et al., the apparent difficulty is to be recognized as being a kind of mental disorder specifically related to the domain of dogmatic, *a-priorist* arithmetization of **Euclid’s Elements**. The remedy for the delusion of Hilbert et al., is as Bernhard Riemann pointed to the nature of this systemic problem among mathematicians generally, as in his concluding sentence of his famous 1854 habilitation dissertation at Göttingen, and, as Riemann had already indicated thoughts in that direction in the two opening paragraphs of that same dissertation.

Out of care for precision, I present the literal German of Riemann’s own language in the relevant, deliciously precise, and yet also ironical concluding sentence of that habilitation paper, here, as follows:

“Es führt dies hinüber in das Gebiet einer andern Wissenschaft, in das Gebiet der Physik, welches wohl die Natur der heutigen Veranlassung nicht zu betreten erlaubt.”^{4,5}

The adducible implications of Riemann’s chuckle, as taken from any insightful reading of his 1854 *Habilitationschrift* as a whole, should be sufficient to make his point. His point must be considered in light of subsequent scientific discoveries since that date, especially in the field of physical-relativistic treatments of the subject-matter of physical chemistry since the close of the Nineteenth Century, which provide the relevant setting for the initiation of the needed approach to the subject of cosmic radiation today.

A catastrophe akin to that intellectual and political catastrophe which Riemann references in the opening two paragraphs and in the concluding sentence of his habilitation dissertation, has reigned in the relevant malpractice represented by what is termed, euphemistically,

3. For thoughtful scientists, my selection of the example of Hilbert for this purpose should be obvious.

4. I have enjoyed the long-standing, very strong, nagging suspicion that, in composing that sentence, Riemann was parodying a famous, witty poem from Goethe, on the subject of the three Magi, rather than, of course, what would be an untimely reference to the same poem set to relevant song among Hugo Wolf’s “Goethe Lieder.”

5. In rough English translation: “This leads into another scientific domain, that of physics, which the quality of the present occasion [the subject of mathematics as such] does not permit us to enter.”

a “science” of prevalent political-economics today.

The systemic pathology of the typical positivist of today, is that he or she is, usually, essentially a nominalist of the type associated with the following of the notorious Paolo Sarpi. The followers of that Sarpi joined him in denying the existence of any knowable universal principles most vehemently; they permit no actual principles, but, therefore, rather mistake the mere name assigned to an object (a merely statistical, behaviorist phenomenon) for the object itself. (*Such is the intrinsic lunacy of the behaviorist’s notion of monetary values.*) On this account, the typical follower of Sarpi, sometimes named, as for the case of Adam Smith, a “Behaviorist,” proceeds, so, to seek to locate the subject of his passion in the manner of the bridegroom who mistook the person of his impassioned love, for the name assigned to the objectification of the mere object of the former passion itself, to alleged personal passions he had attributed to her given name: *he now says “Oh, how I hate the sound of that name!”*⁶

Among the most directly relevant, and simplest of the competent statements warning against the systemic fallacy of positivist arguments, is to be found as implicit in Albert Einstein’s included summary statement on the subject of Johannes Kepler’s discovery, as Kepler’s work had been presented in his **The Harmony of the Worlds**, showing the derivation of his own uniquely competent formulation for the principle of general gravitation.⁷ As Einstein summed up the matter: the universe defined implicitly by Kepler is *finite, but not bounded: only efficient universal principles exist*. In other words, the universe is inherently creative, anti-entropic.

As I shall formulate the case, later, in this report, Einstein’s summary statement points, appropriately, to the fact already implicitly encompassed by Bernhard Riemann’s 1854 habilitation dissertation, that competence of physical science already contains many valid principles of the mathematics defined by the problems of physical chemistry, such as cosmic radiation, but that relationship is not to be read the other way around. Good mathematics as such is never more than the imperfect

6. The relevant effect is a change of the title of the Schubert song, to “*What is Sylvia...?*”

7. The so-called Titius-Bode “law” was crafted in an attempt to avoid the proof that Kepler’s original estimates for the planetary orbits had been correct, thus seeking to avoid the evidence that the claims for Newton had been intrinsically incompetent, whereas Kepler had been correct.

Kepler on Aristotle

Johannes Kepler refuted Aristotle's geocentric cosmology, and charged that Aristotle held science back for nearly two millennia, until the advent of Copernicus, by rejecting the Pythagorean idea that the Earth moves in an orbit around the Sun. Here is an excerpt. Kepler's full document was published in 21st Century Science & Technology, Winter 2001-02.

I am as little satisfied with Aristotle, when he thinks it is sufficient to have asked why the Earth remains at the center of the world, and to answer, that nature assigned this position to it. For it is entirely uncertain, and not conceded by me, that the Earth is in the middle of the world; and were it so, it would be so indeed on account of nature, but in the same way that all things are on account of nature. But one is not satisfied to know that things are according to nature, but one asks why they are that way and not some other way, and what means nature used to bring this about. . . .



Johannes Kepler (1571-1630)

shadow sometimes cast by an unseen universal reality.

Therefore, to sum up the issue of Hilbert's case, as if in a single sentence we may say, that: *In the departments of science itself, as in the wrong-headed assertion by Göttingen's late David Hilbert on the subject of physical science, Hilbert, while obsessive in his own fashion, has been among the relatively cleanest, since he abhorred that bad lot typified by the pair of Bertrand Russell-trained fanatics, Norbert Wiener and John von Neumann whom Hilbert kicked out of Göttingen, reportedly on grounds of insufferable scientific incompetence.*

Generally, the mathematics departments' positivists working, still today, can all be fairly identified as in the Delphic tradition of that infamous Macedonian maker of poisons of sundry kinds, the he (*I shall refrain from insisting on "it"*) known as the ancient Aristotle, whose influence probably begat the Euclid who based a system on asserting, *a priori*, what he could not prove, and was never true.

Back then, during the lifetimes of the ancient Socrates, Archytas, and Plato, and before the rise of the

Delphic Aristotle, or the evil high priest Plutarch, the notion of a competent body of scientific practice, had been based on the foundation of a notion of universal physical principles, a set of principles which had been derived from the work of ancient trans-oceanic navigators who thought very much as Johannes Kepler was to have done later.⁸ This was to be recognized by modern science, first, in Kepler's discovery of the planetary orbits of Earth and Mars, and, then, later in his life, Kepler's uniquely original discovery of the general principle of gravitation on which all competent teaching of modern physical science is premised today.

In Real Science Today

Several centuries later than Johannes Kepler, Albert Einstein had summarized the outcome of Kepler's discovery of the general principle of Solar gravitation: Kepler had defined a universe which is finite, but not bounded, an anti-reductionist universe based on a uni-

8. For example, the Platonic equinoctial cycle of 25,000 years.

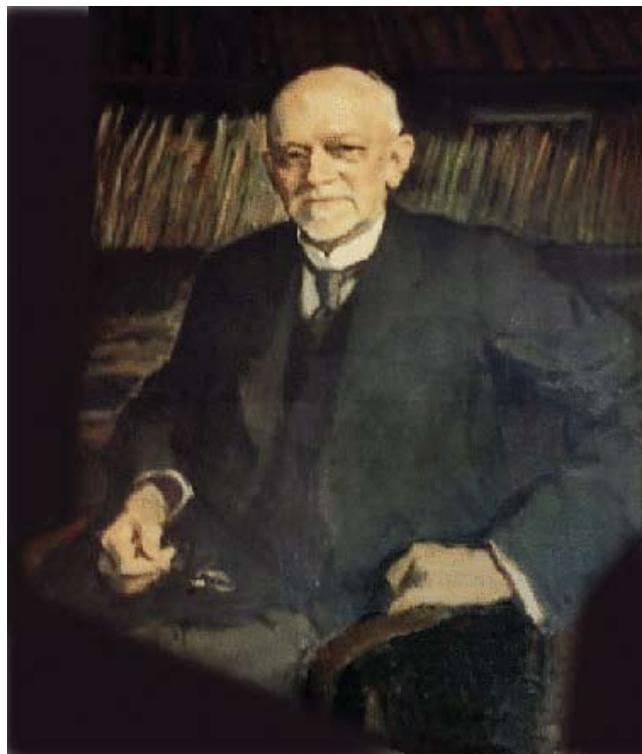
versal principle of anti-entropy.

Despite the celebrated Einstein's correct opposition to the pathological argument of the positivists, a quarrel which still resonates among relatively competent physicists to the present day, there is a contrary majority of opinion on this subject among relevant categories of academics, among those who reject, arbitrarily, both Kepler's uniquely proven discovery of the general principle of gravitation (and, such followers of Bernhard Riemann as Einstein and Vernadsky), as did reactionary reductionists of the type of the former Soviet figure A.I. Oparin in particular.

Where should we seek to find the absent proofs for the assertions allegedly supplied by those positivists, if, indeed, we could presume that such proofs ever existed at all? Speaking in terms of a competent physical science, rather than a mere mathematics, no competent sort of physical proof of the positivists' argument *has actually been, or should, or could have been* presented. The fallacy of their work is systemic. Their premise has been, essentially, the implied, *a-priorist* assertion: "This is what we (and perhaps, the high priests of a modern academic Babylon) have chosen to believe, today." On this point, fakers such as Paolo Sarpi and his followers, such as the hoaxster Abbé Antonio S. Conti and his virtual "Sancho Panza" Voltaire, have concurred.

Consequently, what David Hilbert had done from the closing moments of the Nineteenth Century onward, was to put forward a claim which was as much as just that, in his own fashion, in a 1900 Paris address to the Congress of Mathematicians. This was the occasion of the broad launching of his famous, but, later, essentially, systemically failed attempts to produce a defense of what was the intrinsically pathological, mathematical formalist's suppositions. The essential, subsuming supposition, was, that experimental physical science could be, *or even should be* superseded by what has been, implicitly, a merely neo-Euclidean form of mathematical "axiomatization" of physical science. The problem posed in this fashion, was not merely that his formulation was bad; the problem is, that his essential argument was intrinsically irrelevant, as being a proposition of a class of argument suited to a search for the correct choice of formula for breeding even Sun-spots from cucumbers.

The issue itself which Hilbert posed has little to do with his aptitudes as a formalist in mathematics as such; the real issue is one of physics, not mathematics. The



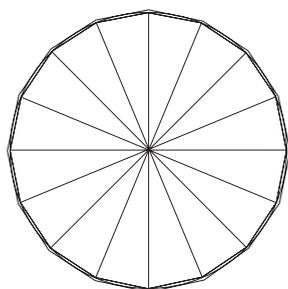
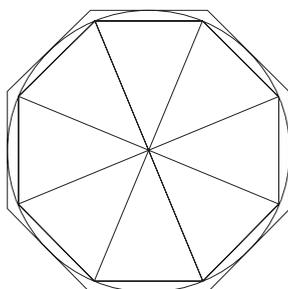
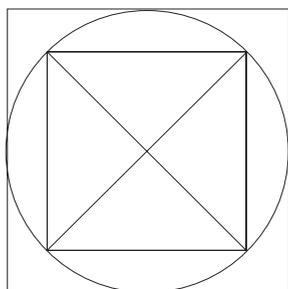
David Hilbert (1862-1943)

real problem does not lie within the abstractions of his formal mathematics as such, but in the incompetence of his choice of the subject, his adoption of a matter of mere mathematics used as a substitute for the practice of a competent physical chemistry. So, to the same effect, the real economic value, is not measured in money, but in the effect of production and consumption, combined, on the relative increase, or decrease of the physical productive powers of applied labor.

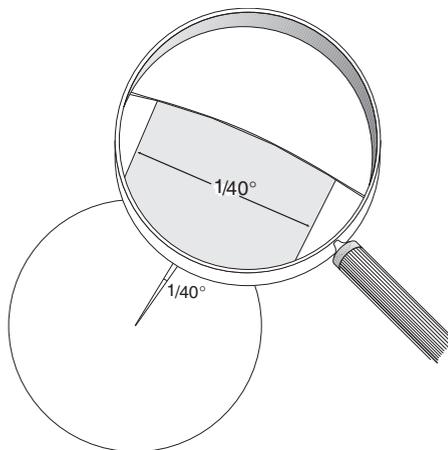
The essential form of the issue so posed, is the following.

The reductionist mathematician insists that a proposed universal principle must be qualified mathematically; the physicist, on the contrary, warns that no physical principle can be asserted as having been demonstrated by any other means than the equivalent of a collision among two or more principled types of crucial experiment, as this is typified by Johannes Kepler's generation of the notion of a universal principle of gravitation from a collision between two qualities of sense-perception: the evidence of sight versus the evidence of harmonics. Competent mathematics is created, and subsumed by physics, such as the physics of Twentieth-century physical chemistry of such followers of Bernhard Riemann as Dmitri Mendeleev, Max

FIGURE 1
Quadrature of the Circle



Nicholas of Cusa (right) showed that Archimedes' (left) attempt at "quadrature of the circle"—to approximate the value of pi—was ontologically incompetent. The first three drawings show the process of estimating the area of a square approximately equal to that of a given circle, as the average area of two regular polygons. In the last drawing, although the inscribed polygon may seem to closely approximate a circle in area, it actually contains a devastating paradox. The more the polygon "looks like" a circle, the larger is the number of its sides—i.e., the less it partakes of circularity



EIRNS

Planck, William Draper Harkins, Albert Einstein, and Academician V.I. Vernadsky. The mathematicians such as Hilbert have written science "bass backwards."

Therefore, it should be accessibly clear on this account, that it is not some calculation in Hilbert's formal mathematics itself which was the source of his error, but, rather, the misguided reliance on mere mathematics. To attack his mathematics as such, would be a rather silly mistake, since it was Hilbert's lack of regard for a competent physics, despite the warning delivered in both the opening two paragraphs, and concluding single sentence of Riemann's habilitation dissertation, in which Riemann located precisely the formal problem evaded by Hilbert and his positivist circles generally.

Additionally, Hilbert's particularly notable tactical misfortune, was to have presented his famous proposal on the virtual eve of the superseding of a mere mathematical physics, by the superseding developments in physical chemistry done in the course of the transition into the Twentieth Century by the work of physical chemists such as the U.S.A.'s William Draper Harkins and Russia's Academician V.I. Vernadsky.

To attack Hilbert for his formal mathematics as such, is, as Oscar Wilde had warned in a kindred matter, the form of Hilbert's error was in the tradition of a pursuit of the inedible by the unspeakable. Hilbert failed to respect the fact that mathematics must be regarded properly as the *sometimes* useful, but appropriately

modest slave of physics—Carl F. Gauss’ “Queen of science,” as Albert Einstein understood this, not the other way around. In short, Hilbert’s essential misfortune, lay, thus, in a manner of speaking, in his choice of what turned out to have been the non-existent universe for which his mathematical mapping had been designed.

So, the arrival of the achievements in physical chemistry in the aftermath of the work of Louis Pasteur and Dmitri Mendeleev, and on the eve of the rise of the part played by Max Planck, Albert Einstein, and Academician V.I. Vernadsky,⁹ had changed everything. Positivists in the genre of Ernst Mach’s Ludwig Boltzmann had passed out of fashion with the coming of the Twentieth Century;¹⁰ the way was cleared for the 1920s appearance of something more despicable among Mach’s successors, the devotees of Bertrand Russell.

The Systemic Error of the Modern Academics

The systemic quality of the categorical error intrinsic to the essential presumption of all reductionists, as for the case of the domain of a science of physical economy, is the error typified by the positivists in the train of such as Karl Weierstrass, Felix Klein, and David Hilbert. The type of error which those persons committed, is merely typified by the case of the Archimedes who presented the erroneous presumption, that the derivation of the circle can be left to the mercies of the reductionist’s errant notion of quadrature. The exposure of this systemic error by Archimedes was a crucial feature of the accomplishments of the founders of modern European science, such as, most notably, Filippo Brunelleschi and Cardinal Nicholas of Cusa’s founding of a competent founding of a modern physical science.

A more significant case than the already crucial issue of the ontologically physical principle of the circle, is the modern discovery of the function of the physical significance of the discovery, by Johannes Kepler, of the generation of the elliptical form of the physical orbits of the Earth and Mars. Still more significant is the discovery of an entire class of non-reductionist trajectories in mathematical physics, such as the

9. The hotly contested issues between Academician V.I. Vernadsky and the implicitly positivist, “materialist” circles of A.I. Oparin, within the Soviet Union are implied.

10. I have no indication that Boltzmann’s 1906 suicide, at Duino, at this juncture was relevant to these developments in physics, but his, and also Ernst Mach’s passing did affect the process of the shift which occurred over the transition from the pre-World War I to post-World War I shift in the dialogue at about that time.

catenary itself, by, successively, Filippo Brunelleschi and Nicholas of Cusa, and by Cusa’s follower Leonardo da Vinci’s discovery of the functional character of the relationship of the catenary and tractrix, and by the higher order of such functions expressed by the principle of least physical action by the collaboration of Leibniz and Bernoulli.

The generalization of that action, of superseding a formal, merely mathematical conception of geometry, by an ontologically physical geometry of contemporary universal physical chemistry, carries the progress of science today into the sometimes forbidden domain of cosmic radiation.

The fair summation of such a chain of evolutionary development of such subject-matters came with the opening two paragraphs and concluding single sentence of Bernhard Riemann’s 1854 habilitation dissertation.

Simply said: actual physical curves of least physical action, which are the foundation of a true physical science, do not exist in the axiomatics of that method of mathematics which maps consistently with the presumptions of all followers of either the Delphic school of Aristotle, or those of the school of Paolo Sarpi, including the modern positivists such as creditable follower of Euclid, David Hilbert. Such is precisely the issue posed to us by that fraudulent argument commonly displayed in attacks on the work of Kepler by the modern academic positivists. For them, almost anything can exist, statistically, in the universe, as long as the existence of actually universal physical principles is denied.

The Historic Origins of Aristotle

In brief: how it had happened, after the death of Plato.

The charlatan known as Aristotle, had served as a lackey of that King Philip of Macedon who, until his own assassination, had lorded it over what we describe as those unfortunate Hellenes who had ruined themselves in the great folly of the Peloponnesian War. This was, temporarily, to the advantage of that King Philip of Macedon who now allied himself in support of a scheme which was worked out, as based on what was termed “the oligarchical principle,” with the same (“Persian”) empire which the Hellenes had earlier defeated on the seas. Aristotle, otherwise known for his skills in poisoning, established a system which was deployed in the effort to destroy what had been Greek science since such as Thales and Heraclitus, as also Socrates, Archytas, and

FIGURE 2
Greece During the Peloponnesian War



Plato; Euclidean geometry was a result of this.

After the assassination of Prince Philip by a vengefully disposed and wronged member of the Macedonian court, there was a struggle for power over Philip's throne. Despite the mutual hatred between them, former student of Aristotle, Alexander, whose relevant ancestry was in Cyrenaica by way of Epirus, won the succession to his father's throne, and so the continued mortal conflict between Aristotle and Alexander continued to Alexander's death, allegedly by that method of poisoning for which Aristotle was notorious at that time.¹¹

11. Cyrenaica was a great maritime culture of the Mediterranean, closely associated with Egypt and what we call Greece today. Alexander's links to Cyrenaica proved to be a crucial strategic connection of Alexander's role in the revolt of Egypt against Persian imperial rule, thus creating the setting for the defeat of Tyre, and, thus, of the Persian Empire. The great Eratosthenes was a native of Cyrenaica, who came to serve the maritime power of Egypt in his time, and a leading figure of its famous great library of Alexandria.

*King Philip of Macedon
"lorded it over what we
describe as those
unfortunate Hellenes who
had ruined themselves in
the great folly of the
Peloponnesian War."
Aristotle was his lackey.*



Consider that Aristotle's contribution to the continued destruction of science, then, as such a practice as that has been continued, to the present time. Consider the corruption of what had been the earlier Greek mathematical science, by Aristotle's follower, Euclid, and through to the time of the reign of the Twentieth-century's nastiest ideological charlatan, Bertrand Russell.

Consider the historical quality of the developments in the succession of the Peloponnesian War, the judicial murder of Socrates, the death of Plato, the rise of Aristotle to power, Alexander's accession, the victory over the Persian empire, and the death of Alexander.

Following the disastrous Peloponnesian War, the po-

litical powers of Europe had come to reign, from that point into modern European times, within a domain which had been defined by the growth of the extent reached by ancient European maritime culture. That European maritime tradition has been maintained as the prevalent background of developments, still, to the present day, up through, and beyond the time of the rise of the Venetian faction around a revision of the Aristotle legacy by the Paolo Sarpi who is the putative father of the disease known as the modern European Liberalism.

The outcome of this process has been, and continues to be, the rise of the form of modern European Liberalism which has been associated, principally, with the influence of the British Empire since the news had been delivered to a certain Abbé Antonio S. Conti, that Gottfried Leibniz was now assuredly dead. This news, when received by that Conti, was taken as the signal for the opportunity for establishing the intellectual reign of the imperial system of both post-Aristotelean, and almost post-Sarpi British Liberalism, an ideology which has reigned in the British Empire and other places since the combined effects of the death of Leibniz, and of the British East India Company's emergence with the virtual status of a world empire achieved at the February 1763 Peace of Paris. It has been an ideology which was based on a notion of a reigning imperialist culture of the British Empire since Lord Shelburne's launching of the imperialist British Foreign Office in Spring 1782.

Those resulting, culturally disastrous, pro-imperialist developments which have been prevalent in academia since no later than the aftermath of the Peloponnesian War, have also shaped the practiced dogmas of the British empire through such developments as the rise of what is known today as the empyreal reach of the Inter-Alpha Group of predatory financier interests, which was established since 1971-1972 as the concomitant of the destruction of the U.S.-sponsored, fixed-exchange-rate system, as done under the nominal direction of U.S. President Richard Nixon, in August 1971.

However, the actual launching of what became the imperialist role of the usurious racketeering of the Inter-Alpha Group of British imperialist influences, during the lapse of time between developments of Summer 1971 and October 1987, had been prepared through actions taken at two earlier points in time: first, against the just-deceased U.S. President Franklin Roosevelt, by President Harry S Truman's collusion with British imperialist Winston Churchill, a procedure which began, immediately, on the occasion of President Roosevelt's

death, and, second, what has been shown to have been the historically crucial assassination of President John F. Kennedy.

The crucial blow to the independence of the nations of western and central continental Europe, in that series, to date, was delivered by the trio of Britain's Prime Minister Margaret Thatcher, France's President François Mitterrand, and a complicit U.S. President George H.W. Bush, against Germany and other continental European nations, in actions of 1990 and beyond. Those actions by that trio were already intended, then, to lead to the destruction of the sovereignties of the nations of continental Europe through the dictated plan for the establishment of the degradation of western and central Europe to a colony called the European system of the "Euro."

Approximately two and a half thousands years of European political culture is presently poised at the brink of threatened early extinction. While there is insurgent, science-driven physical-economic progress among the nations bordering the western side of the Pacific and Indian Oceans, the traditional homeland of European civilizations, the Mediterranean and trans-Atlantic regions, are poised at the brink of a prolonged new dark age. If the latter, trans-Atlantic regions go down, as they threaten to do so soon, the Pacific region's hopes will go down, too.

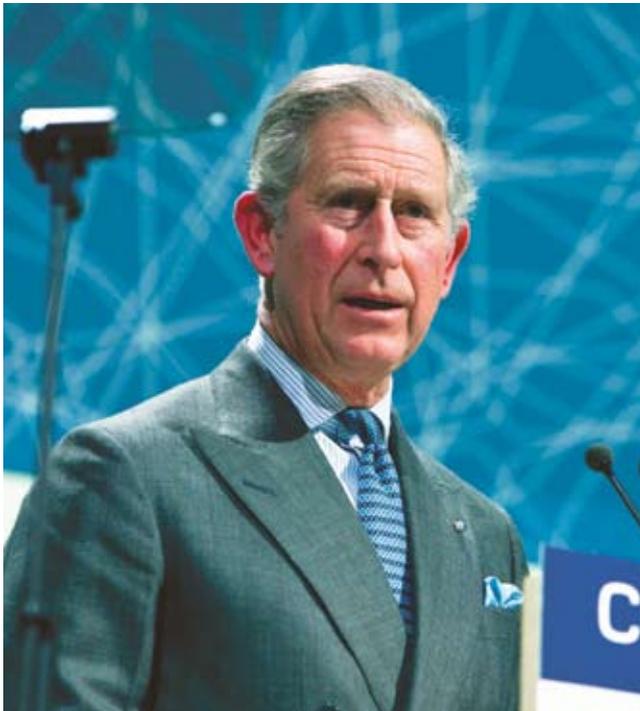
Without an upward, science-driven surge in the productive powers of labor, a dark age for all humanity were virtually inevitable. The option of survival and progress exists, on the condition that that course is chosen. Hence: Enter, the subject of "Cosmic Radiation."

Enter: "Cosmic Radiation"

The purpose of this present report, has been, not to introduce content of the subject of "cosmic radiation," which I have left to the "basement team," but to clear the ground for a properly focused attention on the historic implications of taking up that subject-matter for practice.

If mankind abandons a presently aggressive policy of plunging all humanity into a rather immediate collapse into a plunge into a general new dark age of all humanity, the challenges which will confront a society which has escaped that presently threatened catastrophe, will oblige us all, for several strong reasons, to return attention to the greatly neglected challenges of an applied science of cosmic radiation.

In part, the most dramatic implication of a turn to



Ministry of Foreign Affairs of Denmark

The British empire “has always remained passionately pro-Malthusian in spirit of policy of practice,” writes LaRouche, “whenever strategic circumstances permitted, as is the case for the U.S.A. under the British puppet known as President Barack Obama today.” Shown, Britain’s Prince Charles opens the Copenhagen Climate Change summit, Dec. 14, 2009.

cosmic radiation policies, is the challenge of entering near-by Solar space, and beyond. The still broader implications are not only vast, but presently unfathomable, especially when the conditions within and effects of fusion-powered, accelerated travel within and transport to temporary or other habitats in nearby space generally, are taken into account, and transport of persons within interplanetary space is taken into account. Also, there is an immediate question posed, the instant we recognize the implications of the subject of “cosmic radiation” are taken into account, even to the limited degree a meager definition of the subject has been presented: what is the proper definition of “disease” when relativistic and other transport is occurring in varying qualities of a condition called “space,” whether it be inter-planetary space, or different conditions of “environmental space” are considered within the scope of our habitable environment on Earth itself?

My own principal role in this matter is, and shall probably remain as the part to be contributed by my own already established skills as a physical economist. My presently adopted role lies, principally within the

definition of the implications of this subject for defining the physical-economic standards which this orientation toward cosmic radiation implies, including the implications for efforts to define the physical meaning of physical-economic space as such.

This latter chore requires, as a first step, the elimination of the influence of the modern cult of logical positivism, a chore suited both to my special skills, and a task to my liking.

I. The Fall of the British Empire

A few remarks to introduce some necessary points on strategic political matters of relevance.

With a few notable exceptions, what may be fairly distinguished as competent science within England since the death of Gottfried Leibniz and rise of Abbé Antonio S. Conti and his vulture-like familiar, Voltaire, is fairly indicated, or typified in elements from Charles Babbage’s autobiographical contributions to a work edited by Philip and Emily Morrison, including Babbage’s association with the international figure of Germany’s Alexander von Humboldt.¹²

The explanation is elementary. The United Kingdom became an Anglo-Dutch global empire in the Roman imperial tradition, by steps, beginning with the February 1763 Peace of Paris which established the British East India Company as an operating empire, a development later consolidated, with great assistance from Napoleon Bonaparte’s conduct of continental wars, by the political victors over Napoleon, at the Congress of Vienna. Britain has remained such an empire, with certain, relatively speaking, ups and downs, from that moment to the present day.

Only political incompetents fail to recognize the British system as a world empire according to the monetarist tradition, which has dominated Europe as a whole since the decisions of the 1812-1815 Congress of Vienna. Whereas strategic expediencies have often prompted the British empire to engage in a spate of scientific-technological progress, whenever circumstances permit Britain to have its preferred way of things, it has always remained passionately pro-Malthusian in spirit of policy of practice, whenever strategic circumstances permitted, as is the case for the U.S.A. under the British

12. **Charles Babbage and his Calculating Engines**, Philip and Emily Morrison, eds. (New York: Dover Publications, Inc., 1961).

puppet known as President Barack Obama today. All European empires have been vectors of suppression of the general progress of the peoples who have served them as victims within their reach, as Africans and others know the United Kingdom today.

That much said about ups and downs in turns of British policy since the advent of the so-called “Seven Years War” of 1756-63, turn briefly from the science of political and physical economy, directly to the matter of the actually wicked policy which was unleashed upon the United States by its own foolish choice to enter what has been described as “a prolonged land-war in Asia,” a war which President John F. Kennedy would have prevented, had he not been assassinated.

The complication is that the British empire, which had crafted that post-President Kennedy “long land-war in Asia” of 1964-1975, not only attempted the doom of a United States whose existence it had hated since 1763-1782; without that Indo-China war, the British Empire could not have trapped the U.S.A. into bringing its own ruin down upon itself. Now, what was done by London to wreck the post-President Kennedy U.S.A., has brought the imperial forces of that leading predator against the U.S.A., the British-directed Inter-Alpha Group, to the verge of its own self-destruction as an imperial power, and the threatened downfall of the BRIC (“Brazil, Russia, India, China” group) as well.

The characteristic economic feature of the entire reach of this span of modern history, since the death of President Franklin Roosevelt, on April 12, 1945, has been a persistent shutting down, phase by phase, and step by step, of that economic-science-driver policy and practice which had made possible the U.S.A.’s decisive role in the process leading into the defeat of the Nazi regime of Adolf Hitler. Where President Roosevelt had intended the conversion of the productive capacity represented by the economic-science-driver which had been built up to fight that war, for the post-war economic development of what had been intended to be the sudden end of the British and kindred empires, Truman was complicit in Churchill’s intention to destroy President Roosevelt’s intention, that for the sake of re-establishment of a global tyranny of the British Empire; so, the British Empire has, in the end, and with suitable irony, now doomed itself.

That was when, and how the steep decline of President Franklin Roosevelt’s and also John F. Kennedy’s once mighty U.S.A. began.

So, as I have said above, the subsequent assassina-

tion of President John F. Kennedy, like the repeated attempts to assassinate France’s President Charles de Gaulle, had the same quality of intended effect. The actual assassination of President Kennedy, which made possible the ruinous 1964-1975 U.S. war in Indo-China, set the stage for those radical changes in U.S. economic policy which had been made possible through that continued warfare.

With the phasing down of the development program of both the U.S. NASA development program, and shutting down all net development of the basic economic infrastructure of the U.S.A. since U.S. fiscal year 1967-68, the physical economies of the trans-Atlantic world have been in a process of being collapsed, since then, to the present day. What Aristotle did to science since the death of Plato, the anti-nuclear, “green” economic-policy plague has done to the trans-Atlantic world since the advent of the U.S. Nixon Administration.

We are no longer merely hovering on the brink of a global “new dark age;” we have already entered that global “new dark age;” most clearly since the actions in the U.S. Congress, and under the succession of Presidents George W. Bush, Jr. and Barack Obama since September 2007.

Our urgent mission is to contribute in a crucial way to launching an accelerating process of sharp reversal of those earlier downward trends in the trans-Atlantic world.

It is under those contemporary historical conditions, that I warn here, that, until the effects tending to ruin actual physical-scientific progress, including the relevant effects of the follies of such as Professor David Hilbert, are now removed from the political effects that error has had in shaping trans-Atlantic science policies of nations, the reverberating effects of Hilbert’s blunder would encourage a continuation of the presently virtually terminal state of onrushing general, physical collapse of the economies of the world as a whole.

The Wars Which Fools Declare

To understand the underlying issue which history has posed to the memory of the work of such as David Hilbert, we must, to parody Riemann, propose to depart the realm of futility in the department of mathematics, for the physical progress of mankind. Such is the significance of the difference between the realm of the economically fictitious, British Liberal system, and a strictly physical-economic notion of the U.S.A.’s constitutional American System of economy.

Take the case of unnecessary wars, for example.

The great tidal wave of continuing intellectual and moral decadence which has been the dominant trend in trans-Atlantic culture since the moment after the death of President Franklin Roosevelt, has been expressed, chiefly, in the currently continuing perpetuation of a state of combined actual and preparations for prolonged, economically and morally wasting practices of warfare, since the death of President Franklin Roosevelt, up to the present moment of great global folly in Afghanistan.

Such was the character of the Habsburg wars of 1492-1648, the epidemic trans-Atlantic and inner European warfare of the Eighteenth Century, and the British imperial warfare which has continued like a cancer of the planet since the carving up of the world by Prince Metternich and the British Empire since 1812-1815, to the present day. Admittedly there were some wars, which, when prepared and launched, had to be fought, once the British empire had brought them into action, as with the U.S.A. alliance with the British Empire against what the British Empire itself had spawned, from birth, as the Adolf Hitler regime.

However, had President Franklin Roosevelt not died when he did, there would have been no crucially significant conflict between Stalin and Roosevelt, and no continuation of that British empire which has been the ugly mother of nearly all evil on this planet since that time. Stalin's Russia had the good sense of knowing that it urgently needed us as protection against the evil which remains, today, against which all decent men and women of this planet must contend, even sometimes desperately, today.

Sometimes, wars have been actually forced upon us. We must always prepare ourselves to win wars, if necessary, but to be both sufficiently prepared and fueled with the cleverly crafted powers of constraint, like that of France's Louis XI, to avoid getting into any war which a prudent policy of practice might enable us to defeat: to proceed as did that Louis XI, by other means, as Cardinal Mazarin and Jean-Baptiste Colbert did, but silly King Louis XIV did not.

Peace lies in the power expressed by a science-driven commitment to the development of the mind and increase of the scientific productivity of a great people, with respect for the advantage of buying off adversaries who were prone to be silly, rather than wasting our power and progress by succumbing to the temptations of a war-like impulse.

So, Britain acquired an empire through the foolishness of intended victims who drained their strategic potential by engaging in long wars, such as those of 1964-1975 in Indo-China, which we could have won by peaceful cooperation with an old World War II ally, Ho Chi Minh. We were set up for the destruction of the moral fiber of our own republic, over the damned interval from the assassination of President John F. Kennedy through the election of the damnable Trilateral Commission regime of David Rockefeller's puppet-President Jimmy Carter.

The root of true power springs from Classical poetry and the inspired practice of assigning priorities to the progress of fundamental advances in the discoveries and economic practice of physical science. Such habits are the true nature of human beings who choose to avoid behaving like beasts.

II. The Crucial Battle in Science

Since the emergence of Hellenic civilization, we have three principal, but mutually contradictory, definitions of the foundations for modern science still afoot in the known history of European civilization to date.

The first two among these are systemically incompetent:

- 1.) The modern expression of the tradition associated with the names of Aristotle and Euclid, which is implicitly defined by the pathetic mentality expressed as the *a-priori* assumptions of Euclidean geometry.
- 2.) The modern empiricists, the tradition which is associated with Paolo Sarpi and his followers, denies the existence of actual human knowledge of the real world. It chooses to treat the kind of experience called "behaviorism" as a substitute for a real actual universe. There are, by definition, no actual physical principles which are permitted to be considered among the consenting devotees of that empiricist system.

The third, and last of the three typical alternatives, is:

- 3.) Classical European civilization, is the only competent one. It is typified by the Pythagoreans in ancient times, and, in modern times, expresses the tradition of the Golden Renaissance which has typified modern European progress in scientific competence up to the present day. Modern

progress in this domain is prompted and steered from among the modern followers of Cardinal Nicholas of Cusa, Luca Pacioli, and Leonardo da Vinci, such prominent scientists who followed them as Johannes Kepler, Gottfried Leibniz, Gaspard Monge and Lazare Carnot, Carl F. Gauss, and the followers of Bernhard Riemann, such as Max Planck, V.I. Vernadsky, and Albert Einstein.

My own uniquely specific contribution to the enrichment of the notion of the third category, is expressed in my specific contributions to the founding of a *political science of physical economy* which is premised on the crucial features of Bernhard Riemann's 1854 habilitation dissertation, and the relevant work of such among Riemann's specific followers as Max Planck, V.I. Vernadsky, and Albert Einstein. My own relatively unique achievements in the field of physical economy, have been rooted in the principles of Bernhard Riemann's habilitation dissertation; but, it is extremely important to recognize that this defines the real Riemannian universe as being located, entirely, in the domain of our accessible experience of the knowledge of a science of physical economy, which is our essential "window" into the universe we inhabit. I explain my point here, as follows:

It has been customary academic and related practice, to treat the role of mankind on our planet, and within our Solar system, as something externally introduced to the development of both Earth as such, and the Solar system and even the universe at large. Man is treated, thus, as virtually an intruder into a pre-established order, like an alien come as a colonizing invader who performs no necessary function for the perpetuation of the Earth or its primitive inhabitants. In other words, humanity as a whole is regarded as virtually a pack of "Pilgrim Fathers," who, implicitly, happened to arrive on the shores of Massachusetts in A.D. 1620.

My discoveries in the field of a science of physical economy, imply an opposite conclusion: man is an implicitly assigned natural caretaker of the Creator's universe, as if prudent scholars might have read the celebrated first chapter of the Mosaic **Genesis**.

In brief, the real world, can be defined in terms of a *science of physical economy*. It is the world we know through our ability, if we use it, to change that world for the better, as the world is defined for us by guidance supplied by the notions expressed in terms of a humanist science of physical economy, that according to a uni-

versal physical principle of *anti-entropy*. The key to that view of man within the Solar system, is to be found, most readily, as illustrated in the role of the contrast between the faculty of sight (e.g., as by telescopes), on the one hand, and by harmonics, on the other, in defining Johannes Kepler's uniquely original, paradigmatic discovery of the principle of the organization of our planetary system.

The real world, as it is to be identified by the third of the three listed cases, the science of the followers of Cardinal Nicholas of Cusa's **De Docta Ignorantia**, is usually known in its expression, as its kind of projection, in physical space-time, in the framework of the human senses.¹³

Most notably, this latter, Riemannian, outlook on the universe, is implicit in scientist Albert Einstein's definition of Johannes Kepler's universe as "finite, but unbounded." This means that the universe, in any stage of its existence, is defined by a set of currently relevant principles, as Kepler's principles define an immediate experience of a finite domain; but, as Einstein's reading of Kepler's great work of genius indicates, that the "finite but unbounded" universe, which that domain inhabits, is *anti-entropic*.

Thus, a Riemann universe according to the discoveries of Academician V.I. Vernadsky, is anti-entropic in all three of its typical phases (the Lithosphere, the Biosphere, and Noösphere), but only one phase, humanity, shapes our knowledge of the domain of mankind's immediate existence. It does this through self-reflexive comprehension of the creative actions of the conscious will upon our own and our present planet's future: but, whereas, on the one side, the Lithosphere and Biosphere are developing anti-entropically, but, on the other side, human creativity (anti-entropy) is the product of a human act of knowledgeably conscious intention respecting the future. Furthermore, human existence tends to gain, relative to the trends of the Lithosphere and Biosphere, as we witness this relationship through the willful effort of mankind (in an assigned role as the "assistant creator") to transform the characteristic of our planet Earth, and soon the Moon and Mars, into a future development of the domain of the Noösphere.

The expression of the willful character of human anti-entropy, is located in *the experience of anti-entropy in physical space-time*: e.g., not as a simple, ostensibly

Continued on page 20

13. I clarify this point, respecting "projection," below.

Sarpi: Disconnecting the Mind from the Universe

The following is excerpted and abridged from Michael Kirsch, "Venice and Leibniz: The Battle for a Science of Economy," where references are provided: <http://www.larouchepac.com/node/13834>.

Sarpi's program was to sever the mind from its compatibility with the universe entirely. This was accomplished in three steps:

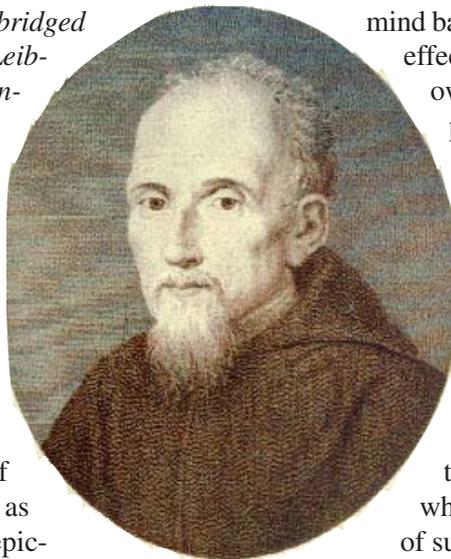
First, Sarpi defines the nature of the universe, and the nature of actions of bodies in the universe, as reduced merely to the sensual depiction of the bodies themselves, i.e., the fact that they can be described with length, depth, and breadth, and that they move around in certain ways.

Sarpi argues, according to a summary by Prof. Vittorio Frajese (1994):

"The matter of natural things is nothing else than extended body, understood as being what persists through transformations and never ceases to be. The body is indefinite extension, which, delimited by surface, line and point, assumes a shape. It constitutes, of itself, an infinite and unordered continuum upon which infinite orderings and infinite figures may impress themselves. . . . Universals have no existence whatsoever. What do exist are bodies, extended and shaped, which determine and cut into matter so as to make up individual objects which man may perceive through external, passive senses, and matched to one another depending upon how they resemble one another, thanks to an active and internal sense."

The next step, to define how man related to that infinitely boring and extended universe, was based on the "man" of Sarpi's nature.

Since the universe of the unseen doesn't exist, the man of Sarpi's mind has no ideas, but only considers



Paolo Sarpi (1552-1623)

sensations. Therefore, Sarpi claims that reason is non-existent: "We distinguish between our senses and our reason, only in order to be able to disclaim responsibility for our acts." [This and subsequent quotes are from Sarpi directly—ed.] In this way, all connection

between the sense perceptions observed by the mind back to the mind itself is removed, in effect, severing the senses from their own subjective origin, in which the power of hypothesis lies. The "scientist" is relegated to using descriptive formulas of Sarpi's so-called "laws," to mechanically extrapolate "future events based upon constant repetition of events past."

Third, since it is only these kinds of laws which mankind can hope for, in a universe which contains and consists of no universals whatsoever, Sarpi defines the Creator of such a universe as powerful, but not necessarily reasonable, and the created and creation itself, unknowable.

And since there was nothing man could seek to discover for himself or posterity, Sarpi explained that orientation to the future, a key to mankind's commitment to the continuity of discovery, was merely an irrational waste of time. Be degenerate he says: "Do not follow opinion that wears the title of truth, but rather opinion that wears the title of pleasure or usefulness."

The wise man, writes Sarpi, "recognizes that his efforts at obtaining knowledge always come up against the infinite, and, knowing this is beyond his grasp, he stops and comes to no final decision on any matter, deciding to live according to the day-to-day appearance of things and, in public, support those beliefs which are commonly held. . . ."

"The end of man, as of every other living creature, is to live . . . simply live in the here and now."

In other words, to free oneself from projecting the imagination into the past or future, and enjoy the present time, not for anticipation of the future, but for itself. Like a beast, forget the past and future, trust not in the mind, live for the present means, enjoy the present pleasures, and let the ends work out for themselves.

Continued from page 18

“instantaneous” image. On this account, competent science rejects both the Aristotelean and empiricist views as being intrinsically incompetent, because those views are characteristically entropic (e.g., “zero growth,” or shrinking rates of net growth: entropy). In fact, the survival of the human species depends upon that commitment to anti-entropy; without a human anti-entropy among the human species, mankind were as an ape, a lazy old gorilla waiting for his girl-friend to come pounding on his back, to keep the gorilla-species from dying out.

So, that universe is presented to us as Max Planck had intended, in his opposition to the reductionism of the positivists, and as being essentially harmonic. Hence, we mean the harmonics of “cosmic radiation,” as Kepler’s uniquely original discovery of universal gravitation, rather than a particularate universe, would imply.

Those general observations of relevance now stated, we turn our attention to the crucial points to be raised here. At a later point in this present report, we shall turn our attention to some details of the process which I have brushed over in presenting a broad image of the case here. Then, the reasons for this choice of procedure should be, in the main, readily obvious.

Physical Economy

The crucial point to be considered here and now, is the matter of the way in which the human mind performs the functions which define it as human, rather than as representing a special kind of higher ape. So, if mankind expresses a superior, dominating process within the universe, there must be an efficiently corresponding universal principle of action involved in this distinguishing feature of human existence.

This is more than merely strongly suggested by the fact that the power for increase of the potential relative population-density of the human species on Earth, is determined by the efficiently willful characteristics of human creativity’s power to effect now, willfully, the existence of a future higher order in the universe. Some essential aspects of the principle involved in producing such an effect, are now known with a large degree of specificity with reasonably fair approximation. My own contributions to the development of a science of physical economy, as, for example, through my unique successes as a forecaster, are, so far, unique in their role as a competent source of crucial clarification of this actu-

ality.¹⁴ *Attack our enemies from a special flank, that of the future.*

However, as long as we limit our view of the physical causes for the simple increase of human potential relative population-density, we are mired in a crucial intellectual failure to be able to account for the systemically singular quality of the achievements of our species. The essential gains are not simply quantitative, but non-linear and ontologically qualitative.

The efficient character of mankind’s willfully driven increase of human potential relative population-density, is dependent on knowledge of the efficiency of a discovered principle which supplies a foreseeable *quality* of transformation of the future. Whereas the anti-entropy of the abiotic domain and biosphere is not conscious, not scientific, the categorical successes of society in overcoming entropy and creating ontologically higher qualitative states of existence of the human species are an effect produced as if directed “top down,” rather than “bottom up.” Mankind is distinguished from the beasts and flora by *those creative powers of the human mind which define the efficient generation of the future, as if from the action of the future on the present.*

Hence, we have the reflection in living practice, of that Biblical notion, as in **Genesis** 1, of man and woman as made in the likeness of the Creator.

Or, so to speak, to reach a mental state of assured freedom from mere presumptions or superstitions, which is unique to mankind considered as in the likeness of a child of the Creator, we must recognize the expressed principles of progress, as expressing a principle embodied in the crucial notion of a future currently acting upon the present (i.e., anti-entropy), the notion of actually creative ideas as the force which drives the development of man’s efficient role in the shaping of the universe. In other words, an approach consistent with the denunciation, by Philo of Alexandria, of Aristotle’s implicit degradation of God to a creature which had been made itself impotent by imposing an unchangeable, fixed state of the universe, as if it were an already wound-up, wind-up toy, while degrading the Creator Himself to the bestialized likeness of the brutishness of tragedian Aeschylus’ image of a Delphic Olympian Zeus.

14. A competent forecaster, presents new forecasts only some of the time. These are times when a relevant crucial turn in the situation shows itself.

This conceptualization of a science- and Classical-art-driven progress of the human economy which I present here, describes the basis for any competent insight into the notion of economy.

Mind: The Crucial Principle

The commonplace error of presumption which is committed by most persons, even actual or merely alleged sorts of relevant professionals, today, is the habit of believing that there is something like a direct relationship of simple dependency, between the human mind and the processes of sense-perception as such. In one type of such cases, the believer simply takes that presumption for granted. Among the followers of Paolo Sarpi, the modern empiricists (aka “behaviorists”), the fallacy of that piece of foolish belief, assumes a viciously depraved character.

As in the case of Johannes Kepler’s uniquely original discovery of the principle of universal gravitation, the naive believer in sense-certainty is confronted by what is, for him, or her, an agonizing quandary of the following description.

Kepler’s discovery of universal gravitation was premised on a unique kind of evidence, two kinds of evidence respecting the same objective experience. On the one side, looking at the Solar system through actual or imaginary telescopes, we have one species of evidence, visual evidence. From the other side, for what are ostensibly the same targets, we are presented, not with hearing as such, but with phenomena which the mind interprets as tantamount to harmonics.

Therefore, by taking that contrast into consideration, Kepler locates the orbits, with some fair degree of estimation, as if this were a visual image of the planetary array. In his first reading of the Solar system’s planetary array, he had noted a visual approximation of a series of Platonic solids. In his subsequent **The Harmony of the Worlds** he reaches a similar image of the planetary array orbiting the Sun, but, this time, not only from the standpoint of a visual image of the organization of the Solar system, but also from the standpoint of the harmonics of the ordering of the visualized proceedings.

The result of the comparison of the two readings of the organization of the Solar system, is a unique result which fearful physicists have sought to avoid, that they might evade the risk to their careers by substituting the dubious “Titius-Bode law” for the scientific basis of Kepler’s work. This was a choice which the authors of Titius-Bode made in seeking to avoid the painful risk to

academic careers incurred in offending the devotees of the intrinsically, and baldly fraudulent, but academically popular Isaac Newton cult.

It may appear to such evaders that since Titius-Bode appears to converge on the distances implicit in Kepler’s discovery, that the difference between the two presentations can be treated as moot in respect to their origins. That presumption by such spokesmen is false.

What is crucial in the discovery by Kepler, is that two qualitatively distinct identifications of attributed sense-perceptions, the mental function of sight contrasted to the mental function of musical hearing, must be jointly applied, in the fullness of that scientifically mandatory confrontation, to define the discovered universal physical principle of universal gravitation, by means of what might be termed “ontological triangulation”: all of which has nothing at all to do, systemically, with the argument of Titius-Bode. Science is the typical distinction of actual science from shrewd statistical guess-work; in Titius-Bode, no actually efficient, universal physical principle is indicated. Or, in other words, Titius-Bode does nothing offensive to the cult of the followers of Paolo Sarpi, or of Sarpi’s customarily lying lackey Galileo.¹⁵

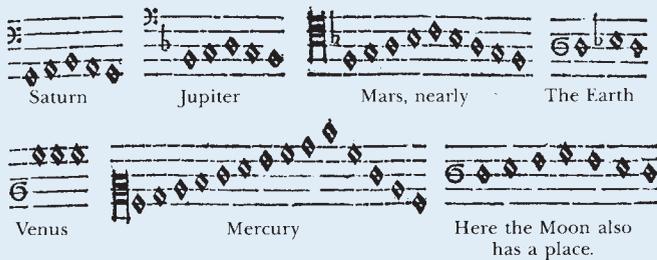
The Follies of Sense-Certainty

The attempt by some to treat the discoveries of Kepler’s **The Harmony of the Worlds**, as being approximated by Titius-Bode, confronts a truly profound issue of conflicting principles, respecting the most essential type of consideration for defining a competent practice of physical science. The essential distinction of a fraudulent, Aristotelean dogma expressed as the *a-priori* assumptions of **Euclid’s Elements**, from actually competent scientific methods, is the incompetence of the *a-prioristic* presumption of Euclid, as also Aristotle earlier.

There is no “algebraic” form of systemic coincidence among the specifically sensory functions of sight

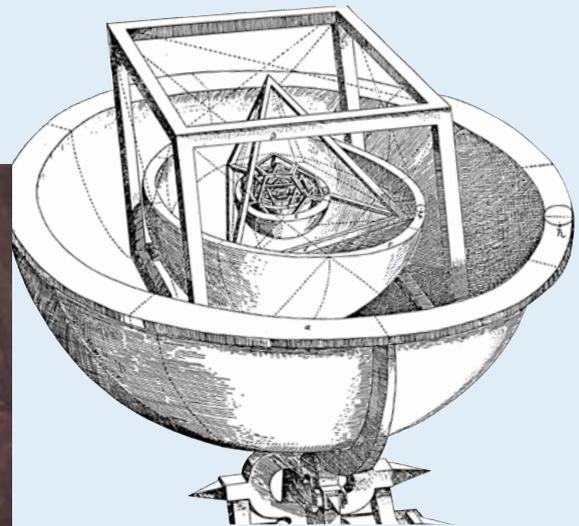
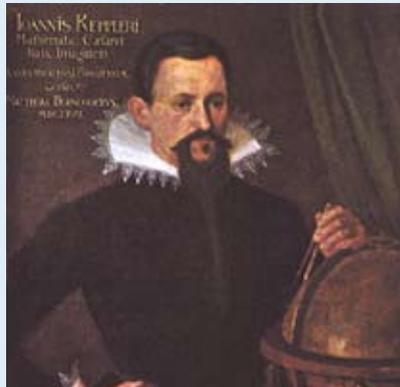
15. Galileo was a figure of the same Sarpi cult as the lying scoundrel Sir Francis Bacon who hated the William Shakespeare whose work Bacon’s circles and their followers suppressed to the extent they could. Notably, the revival of Shakespeare’s works from the influence of the heirs of Sarpi’s and Galileo’s followers such as Bacon, was accomplished by Germany’s leading influence in reviving the work of Johann Sebastian Bach and Gottfried Leibniz, Abraham Kästner. In competent science, there is no categorical separation of competent physical science from competent Classical artistic composition. As the case of Albert Einstein and his violin attests, or the earlier work of Bernhard Riemann’s Lejeune Dirichlet, the creative faculty in physical science is located within the specific mental powers associated with Classical art.

Kepler's discovery of universal gravitation, using principles of both visual and musical harmony, has nothing to do with the "Titius-Bode law."



Johannes Kepler.

Right: Geometrical model of the solar system as nested Platonic solids, from "Mysterium Cosmographicum."
Above: Harmonic relations of the planets expressed in musical notation, from "The Harmony of the World."



Fidelio

and hearing, on the one side, and the specifically creative qualities of the human mind, on the other. This is a point which I have emphasized repeatedly in my work as an economist. The function of the human *mind* is systemically set apart from the sense-perceptual functions of the human *brain*; that is to say this as a matter of empirical evidence on this point. To put the point fairly, the human mind passes judgment on the sense-related functions of the human brain, that in a manner comparable to the function of the mental activities of Classical artistic composition. Similarly, no lower form of life than man, either uses fire willingly, or makes the equivalent of a species-jump in the fashion unique to the specifically creative powers of the human mind.

In approaching the issue which I have just located, respecting the lack of any systemic relevance of Titius-Bode to Kepler's uniquely original discovery of a universal physical principle, we must pay attention to the fact that only the systemic contradiction between two leading qualities of human sense-perception, vision versus harmonics, permits us to adduce an actual universal physical principle, as neither vision nor harmonics, treated separately could do. Universal physical principles, when conceived *empirically* in a valid way, represent a function of the *mind*, not the stimulus of the

brain simply by sense-perception.¹⁶

Obviously, without the human brain, the human

16. It is not my intention to provide a thorough treatment of the qualitative difference of mind from brain here. Out of respect for the boundaries assigned to this present report, a few pedagogical approximations must be sufficient. The general, ontological-paradoxical problem which confronts us in the context of these remarks on mind versus brain, is to be approached as a problem presented to us currently, as the fruit of a reductionist view of the organization of the universe, as the a-priori presumptions of Euclidean geometry typify the relevant effects of "brain-washing" by Aristotle, et al. Once we are freed from the childish blind faith in a notion of particles roaming in empty space, to a harmonic outlook, instead, the matter of the imputable "location" of the human creative-mental powers does not require that the human mind exist within the brain as such, but only that the brain-function be controlled by a systemic factor within a universe which is organized harmonically, rather than a scheme of roaming "sovereign particles" in empty space. For example, human knowledge of a discovered universal physical principle, or the like, is implicitly eternal, whereas an individual sense-impression has an ephemeral, when not outrightly doubtful character in its presumed role as an independent event. The human individual, as a personality, partakes of immortality, in the sense that a discovery of a universal principle is immortal, and may exert a seemingly immortal power over chance events. Thus, the present actions on the future become, as expressions of universal principles, the future acting upon the present. This is to be adduced by the implications of Leibniz's (and Percy Bysshe Shelley's) notion of the efficiency of the *dynamic*, as Leibniz defines it, in the "will" of the particular persons of a social process, e.g., Rosa Luxemburg's notion of the principle of "the mass strike," or the concluding paragraph of Shelley's *A Defence of Poetry*.

mind lacks the means to “tune in” on the experienced universe, or to send timely messages through the faculties associated with the living human body. However, in all cases of what can be rightly identified as the discovery of a universal physical principle, for example, or the communication of the act of replication of the actual discovery of an original Classical composition in music, the idea of that specific quality is effectively immortal within society, because its authoritative identity has been created by the human mind, rather than the human brain, as in no other species of living creature.

The mind and the brain are interdependent, but perform functions as of differing organs of the living individual persons. The experience of the brain which we should recognize as sense-perceptions, has its basis in the physiology of the relevant experience; the notion of a principle lies in the immortal experience of the cognitive powers among the persons who share the experience of generating the experiencing of a notion of principle.

The Aristoteleans claim to command a principle, but have no proof that it exists as a dynamic (Classical Greek: *dynamis*) principle of the universe. The Liberals represent a system, that of such as Sarpi, Galileo, John Locke, and Adam Smith, whose notion of behaviorism is an explicit denial of the possibility of human knowledge of any naturally principled form of action.

So, the case of the unique originality of the discovery of gravitation by Johannes Kepler, typifies what may be rightly distinguished as the proper intention of the concept of the individual human “soul.” While the concept of “mind” is not excluded from lower forms of life,¹⁷ the *specifically creative* powers inherent to the human mind, such as the power of discovery of a universal physical principle, are of a specifically unique quality.

These considerations have profound implications for the progress of science today, as I shall now illustrate that point.

Hilbert’s Crucial Error

The more influential of the incompetent approaches to the teaching of either mathematics or physical science in European history, are of two superficially similar, but systemically distinct forms of teaching. The first, usually identified today as a product of the influence of Aristotle and his follower Euclid, is based on the notion of sense-certainty of particular objects of

17. Some might say, such as liberal followers of Sarpi, John Locke, Adam Smith, and Jeremy Bentham.

matter in otherwise empty, infinitely extended space. The second, which has been traced to the medieval irrationalist William of Ockham,¹⁸ by the inventor of the modern version of that doctrine, Paolo Sarpi, insists that man has no possibility of knowledge of the existence of natural principles in the universe, but only the person’s sensation. That doctrine of Sarpi, which is an utterly fraudulent concoction of such followers of Sarpi as Francis Bacon, Galileo Galilei, Rene Descartes, the circles of admirers of the Eighteenth-century Isaac Newton, Abraham de Moivre, Jean le Rond d’Alembert, Leonhard Euler, Joseph Lagrange, Pierre-Simon Laplace, Augustin Cauchy, and the parade of so-called empiricists up to the present date, and so on, has dominated the educational systems and opinion-making of the so-called educated classes of the trans-Atlantic world, and beyond up to the present instant.

That doctrine of what is often called “Liberalism,” is a dominant feature of all facets of trans-Atlantic culture for most of the leading political and related circles of that same part of the planet, and beyond.

The same empiricist belief dominates the understanding and use of currencies, and of credit based on the circulation of such currencies.

Physical Space-Time: The New Conception

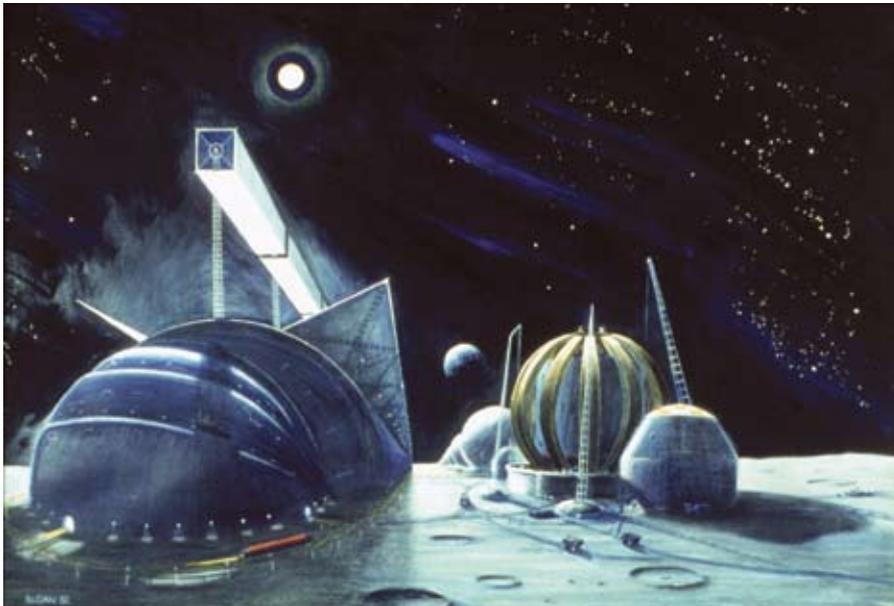
The transit from within the orbit of our Moon to Mars and beyond, will inevitably change the way Earth’s people will generate their working mental images of physical space-time. The inevitable shift will be in a direction away from the simplistic notion of objects moving in what is deemed to be more or less empty vast regions of inter-planetary and more distant space.

Furthermore, the action of human occupation of the nearest convenient planet, Mars, will be in the form of relativistic physical-space-time power by such suitable, required means as accelerating “thermonuclear impulse” (e.g., Helium-3) technologies. In such a universe, so experienced, there is no “empty space” as the popular idea of “empty space” is read presently.

The best way, and simplest way of describing as much as we presently know are probable challenges, is to shift from the idea of geometries which bear any resemblance to Euclid’s notion, to a densely active domain of physical space-time; there is nothing “empty” out there. Existence is never “empty.” *It is harmonic.*

That, precisely that, will be the way in which we

18. (Lat: Occam)



Christopher Sloan

Artist's rendering of a colony on the Moon. The Moon can be a plentiful source of the Helium-3 that we need on Earth to fuel thermonuclear fusion power.

must now proceed to think of our habitat in near-by solar space, even within the range of what we had been conditioned to identify as space and time in classrooms until now. Space-time will become clearly for us, then, what it is actually presently; it is tuned. It is the domain of the vast depth of cosmic radiation.

Otherwise, in the meantime, action now to change the future will be the domain of our fate, and is so already, now.

It can not be considered mere coincidence, that the new conception of space-time and matter which came into being in the same process and general time-frame as the discovery of atomic and thermonuclear power should have converged, globally, in the way they did. Consider a simpler sort of the challenge of the future.

Had the United States under President Abraham Lincoln, not mobilized the defeat of the British Empire in the U.S. Civil War, the explosion of the development of the U.S. transcontinental railway system would not have occurred, and the British Empire could have, rather confidently ruled the seas for centuries upon perhaps centuries yet to come. It was the effect of the U.S. victory which prompted the revolutionary changes in Germany and Russia, developments which, combined in effect with the explosion of progress inside the U. S.A., prompted the British empire to organize what became, in succession, two so-called "world wars" and the Soviet conflict of the period from the ouster of

Chancellor Bismarck in 1890 through the disintegration of the Soviet Union through, chiefly, the effects of the Andropov and Gorbachov administrations unleashed in 1990-1992. So, the present acts through the future, to deliver the effects of the present.

There are indeed conspiracies in history. Some are active as conscious conspiracies in the opinions of individuals; the most important are made of the same stuff (Leibnizian *dynamics*) which Shelley emphasized in the concluding paragraphs of his **A Defence of Poetry**. So, already during August 2009, a mass-strike effect arose inside the United States, a development set into motion then, which will shape the outcome of 2010.

History is sometimes like a man who takes off with a rocket, but without a parachute, who decides to go up, but thereby sets into motion that process which will bring him down; so the future acts on the present.

So far, U.S. President Barack Obama's tenure is written as if on Belshazzar's Wall, or in the expression on the face of Nero's doomed mother. He is a projectile whose character, which shapes his fate, is written on the skies of the weeks ahead. Morally, he did it to himself, but the defect has been in his character. The probable outcome of that defect, was written in the scheme of events within the future which his own faulty actions unleashed. How it will end up, is not yet determined, but the direction of developments no longer lies within his power to change the general nature of the outcome; the pack is doomed, and that soon. He were wise to go quietly, but with quick steps into the shadows whose embrace will protect him. The future now shapes the present, by limiting the range of actually available consequences which it is given to us to choose.

For him, the Ides of March are written on the clouds above. For us, our fate is mainly grim, but, fortunately, still uncertain. There is little time to choose something which is better than continuing like the fools which most in high places are playing still today.

We must now the choose the future we, and the nations of the world require.

Kesha Rogers' Victory Signals the Rebirth of a Mars Colonization Policy!

by Sky Shields

March 11—The recent election victory of Kesha Rogers in the Texas 22nd Congressional District represents a turning point in world history. The voters have demonstrated their refusal to accept the policy of physical-economic austerity which President Obama and his controllers have sought to impose through unconstitutional bank bailouts, a murderous health-care policy, and general inaction on the crucial issues of the existential crisis which now faces the American population and the world. Most notably, they have refused to accept Obama's recent, treasonous decision to scrap the last vestiges of our nation's manned presence in space. They have voted, instead, for a future—a future organized around the intensive physical economic progress that can only be brought about by the scientific advancements connected with an expansion of Man's presence in space.

Rogers' victory provides the opportunity to address the urgent question of accomplishing the economic development of the Solar System: the first steps of lunar industrialization, and the undertaking of a successful manned mission to Mars. Connected with this mission, is the task of finally establishing a very different conception of the organization of the Solar System and beyond. Specifically, the planned presence of human beings in locations very far from the surface of our Earth will require the development of a much more in-depth understanding of the action of cosmic and other forms of radiation on and within living systems. Not only will this expanded view of the role of energetic phenomena in living matter make extended stays off-planet possible, it also promises to revolutionize medical technology here on Earth, as well as provide a deeper understanding of the nature of living processes, evolution, and morphogenesis than would ever be possible under the existing policy of atomization and underfunding of such scientific investigations.

We will now have the opportunity to tackle the challenge of producing the types of artificial environment required for mankind to leave its "womb" here on Earth.

What, from the Biosphere, will we need to carry with us? What will be the role of electromagnetic phenomena and cosmic radiation in that environment? It will perhaps be advisable to simulate Earth's gravitational environment by accelerating ships through interplanetary space at one Earth gravity (1-G), but this will be the first time that such a willful act of constant acceleration has occurred anywhere in the universe. It will represent the first artificial creation of a sustained gravitational field which, if maintained for long periods, will quickly result in relativistic velocities. What will be the effect of this sort of travel on a crew? What will be its effect on the physical universe more generally? These questions lead us to further unexplored aspects of the Biosphere immediately surrounding us, before leading us deep into Man's future in interstellar space.

What Is Life?

Lyndon LaRouche recently posed a provocative question for our research team: How do you determine to which of V.I. Vernadsky's three phase spaces—the non-living, the living, or the cognitive—a given process belongs? The answer is: *resonance*. No object exists independently as an object. All objects are defined by dynamics—by the process in which they exist. Vernadsky states that therefore biology, qua biology, is an abstract science, like geometry, because it artificially seeks to separate the study of the individual organism from the study of the entire process in which it participates.¹ In reality, there are no distinct organisms; there is only the organism in its context in the entire Biosphere. This is evidenced by the pervasive role of symbiosis in every aspect of the function and evolutionary development of the Biosphere. The evolution of the Biosphere is an evolution of relationships, not of individual organisms. Therefore, it is more advantageous to consider the Biosphere and its evolution as a single system, in which the individual organism exists as a

1. Vladimir I. Vernadsky, *The Biosphere* (New York: Springer, 1998).

singularity. This nature of the individual organism as singularity and not as object is described in vivid terms by Vernadsky in his concept of the biogenic migration of atoms.²

Specifically, organisms do not have permanent structures, like machines. Every portion of a living organism is in a constant state of flux, which is expressed as a continuous exchange of matter and energy, such that the distinction between the organism and its outside environment is not a material one. The same material participates in both processes, much as the same water flows into and out of a whirlpool. The difference lies in the process, not in the material. The obvious difference in the two cases, the living organism and the whirlpool, is that, upon completing its migration through the processes defined as the organism, the processed matter produced in the form of fossil material exists at a higher state of physical organization than before its participation in the organism.

Thus, viewed as a whole, the envelope of life on Earth, the Biosphere, can be viewed as a process of constant organization of the formerly abiotic physical substrate to higher and higher states of organization. In this way, we see the steady development of concentrations of various types of ores and other mineral deposits on Earth. These represent a more concentrated form of organization than that which existed in the previously dispersed state of materials, as initially derived from stellar matter; a state which is still visible in the relatively homogenous distribution of elements as found in, say, lunar regolith.

This biogenic migration represents a continuous process extending well outside of the atmosphere of the Earth itself. For instance: The beginning of the most important material cycles within the Biosphere is marked by the action of photosynthesis. In this process, dispersed, low-energy-flux-density radiation from the Sun is captured across large land areas by the action of photosynthetic plants, and organized into the carbohydrate-dense structure of those plants. They literally compose themselves from the incident sunlight which reaches the Earth. These energy-dense carbohydrates are then consumed by more complex animal life and, via the process of digestion, are incorporated into the structure of these higher organisms, ultimately passing back out into the environment in the form of residual

2. Vernadsky, "Scientific Thought as a Planetary Phenomenon," Non-governmental Ecological V.I. Vernadsky Foundation, 1997.

FIGURE 1



Wikipedia Commons

An example of Vernadsky's concept of the biogenic migration of atoms: Bog iron is produced in several stages by the action of the Biosphere, culminating with the creation of iron oxides by the oxidizing action of iron bacteria.

biological fossil materials such as soils, mineral deposits, and even Earth's atmosphere.³ These fossil materials are then again processed by the geological force of human economic activity—becoming noetic fossils.⁴ Thus, the Biosphere and Noosphere can be viewed, in terms of both the scale of the space occupied and the nature of their activity, as a singularity in an otherwise continuous process, marking the shift of matter and energy to qualitatively higher states of organization and concentration.

This continuous process extends to the Sun, in the form of solar energy absorbed by plants (and animals, in the case of vitamin D synthesis), but also much farther, as is evidenced by the steady flow of *cosmic radiation* into and out of the Biosphere. This is a steady flux, much like the flow of solar energy into the Biosphere, though its role in biological processes is largely unexplored. Understanding the biological role of this steady flow of cosmic material has a crucial significance for an expanded Moon-Mars colonization project.

3. Vernadsky, *The Biosphere*, op. cit.

4. Lyndon H. LaRouche, Jr., "The Astrophysics of Gurwitsch Radiation," *21st Century Science & Technology* (Fall 1998); *The Economics of the Noosphere*, (Washington, D.C.: EIR News Service, 2001); "Vernadsky and Dirichlet's Principle," *EIR*, June, 3, 2005; and Vernadsky, "Some Words About the Noosphere," *21st Century Science & Technology*, Spring 2005).

The Biogenic Migration of Cosmic Rays

This is a complete cycle, like the other biogenic migratory cycles such as food consumption and photosynthesis. There is a steady flow of ionized particles in and out of Earth and its atmosphere. Those among them of the highest energy pass directly through all matter, biological and otherwise, seemingly unaffected by that passage. But it is also these particles, capable of bypassing all types of shielding, which are potentially implicated in regulating the circadian rhythms of various organisms maintained in otherwise shielded environments.⁵ Other, lower energy particles are involved in collisions at different levels of the Earth's atmosphere, producing cascades of secondary particles which are involved in changing isotope ratios at the Earth's surface, and likely effecting radical changes in Earth's climate. It is these particles, for instance, which likely play the dominant role in cycles of glaciation, global warming, and the cyclical passage through ice ages.⁶

This interaction of cosmic rays with the atmosphere, creating cloud cover and shifting Earth's climate in and out of ice ages, is to be considered a very specific type of interaction with the Earth's Biosphere, since, as Vernadsky points out,⁷ the Earth's atmosphere is entirely a creation of living matter on the planet. Thus, the cascades produced by cosmic radiation upon entering the atmosphere, as well as the highly energetic activity occurring in the ionosphere, interacting with the solar wind, and producing phenomena such as the aurora, are all properly recognized as products of the Biosphere. The role of cosmic rays on an abiotic environment, such as the Moon, is entirely different, as the peculiar composition of lunar soil attests.

Also, on the level of the individual organism: Shielding living creatures from radiation produces a change in metabolic rate similar to the changes in metabolism which result from removing nutrients, warmth, oxygen (in the case of organisms possessing mitochondria), or sunlight (in the case of organisms possessing chloroplasts). This is a further indication that cosmic rays play a crucial role in the biogenic migration of material through the Biosphere.

5. Frank Brown, "Living Clocks," *Science*, No. 130 (1959)

6. Nir Shaviv, "Cosmic ray diffusion from the galactic spiral arms, iron meteorites, and a possible climactic connection," *Phys. Rev. Lett.* 89 (2002); Henrik Svensmark, "Cosmoclimatology: A New Theory Emerges," *Astronomy and Geophysics*, No. 48 (2007).

7. Vernadsky, *The Biosphere*, op. cit.

FIGURE 2



NASA/Pierre Auger Observatory Team

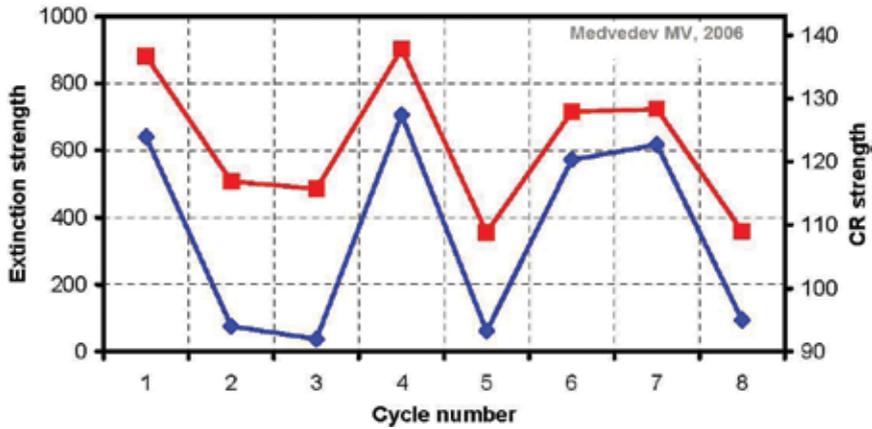
Artist's image of a cosmic ray striking the Earth's atmosphere, and generating a shower of secondary radiation. The atmosphere is a product of the Biosphere, which actively interacts with cosmic phenomena as well as the magnetic and gravitational fields of the Earth. This interaction generates a steady flux of energized particles, most visible in the form of the auroras, but whose invisible components likely play an important regulatory role in biological and evolutionary processes within the Biosphere.

The Role of Cosmic Radiation in Evolutionary Processes. What We Know from the Fossil Record

Nigel Calder describes a creative role for cosmic rays in the early development of the Solar System, fueling chemical reactions, and promoting the formation of complex molecules.⁸ Their role in the evolution of matter does not stop with development of the abiotic material in the Solar System, however. The most telling example of the role of cosmic radiation in biological processes is in long-term evolutionary cycles. The very fact of the role they play in global warming and glaciation is enough to have a significant effect on biological life on Earth, but there is much evidence for a much more direct role for cosmic ray radiation in evolutionary processes. Most of this connection is recognized only in the form of observed resonances between various cycles in the Biosphere, and related cycles elsewhere in interstellar space. Causal connections, and the processes of mediation have not yet been established, though potential candidates will be hypothesized below, starting from the work of Gurwitsch (Gurvich).

8. Henrik Svensmark and Nigel Calder, *The Chilling Stars: A New Theory of Climate Change*, (New York: Totem Books, 2008).

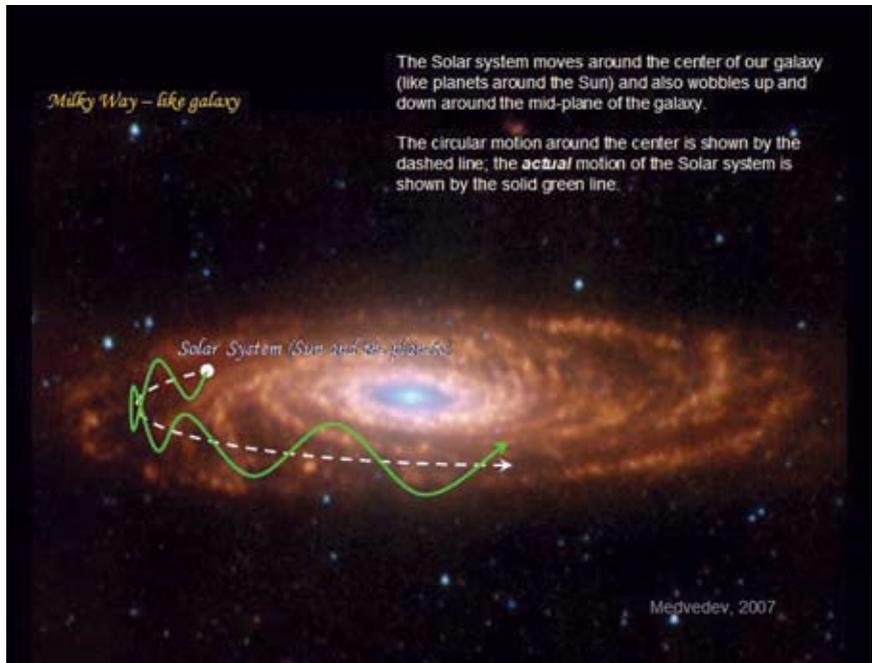
FIGURE 3



Medvedev, 2006

The agreement between so-called “extinction strength” (blue/lower line) and the intensity of cosmic rays (red/upper line) predicted from Medvedev’s model. “Extinction strength” here means the amount of change in fossil biodiversity during each 62-million-year cycle of the Solar System in and out of the galactic plane. The cosmic ray strength (CR strength) predicted by Medvedev’s model differs at each bob, due to the irregular distribution of matter throughout our galaxy. The two are a perfect fit.

FIGURE 4



Medvedev, 2007

An image of our Solar System’s motion around our galaxy. Cosmic radiation is more intense as we pass through the bright areas—the spiral arms, because the matter which produces them is denser there. This correlates to a 140-year cycle of “icehouse” events on Earth, as cosmic radiation interacts with the Earth’s atmosphere to increase cloud cover. As it orbits the galaxy’s center, however, the Solar System also bobs up and down on a cycle of about 60 million years (green/wavy line). By Medvedev’s model of shock-front cosmic-ray production, the intensity of cosmic-ray production is greater on one side of the galactic disk than on the other.

Outside of what we will discuss here, no attempt has yet been made to account for the anti-entropic, creative nature of this entire process, which links life on Earth to the broader cosmos. A comparison of the cycles, which indicates a clear resonance among astronomical, biological, and geological cycles, is, however, of great interest for beginning the correct investigation.

There have been discovered clear cycles of increase and decrease in fossil biodiversity (the number of distinct species living on the planet at any given moment) of 62 and 140 million years.⁹ The 140-million-year cycle corresponds to the variations in cosmic ray influx predicted to occur from the Earth’s passage through our galaxy’s spiral arms. This predicted, periodic change in incident cosmic radiation has also been verified in examining the changing Potassium 40/41 isotope ratios observed in iron meteorites, and thus, to the frosty “snowball Earth” periods, which correspond to the quantity of incident cosmic radiation.¹⁰

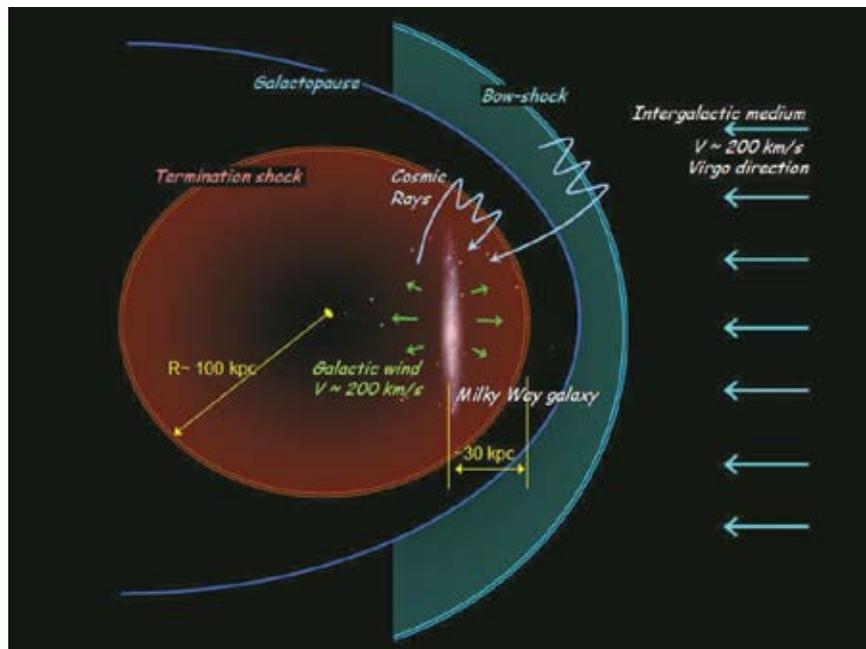
Examining the age of deposits of igneous rock shows that volcanic activity is on the same, roughly 60-million-year cycle, showing an as yet unexplained connection to geological/tectonic phenomena.¹¹ But, more to our point here, this cycle is also of the same period as that predicted for the regular passage of our Solar System in and out of the plane of the galaxy, if we take into account the likelihood that the density of cosmic radiation differs from one

9. Robert A. Rohde and Richard A. Muller, “Cycles in fossil diversity,” *Nature*, No. 434 (2005),

10. Shaviv, “Cosmic ray diffusion,” op cit.; Svensmark, “Cosmoclimatology,” op. cit.

11. Rohde, op. cit.

FIGURE 5



Medvedev, 2007

Medvedev's illustration of the shock front that ought to be produced, due to the face-on motion of our galaxy through the intergalactic medium in the direction of the Virgo cluster. High-energy cosmic rays are produced in this shock front, heavily irradiating one side of the galaxy.

side of the galactic plane to the other.¹² A component of the Exxon-measured sea-level fluctuation is consistent in period and phase with the shorter fossil biodiversity cycle. The ratio of the Strontium 87/86 isotopes, which is related to the amount of dry land left unexposed as water levels change, also matches the period and (inverted) phase of the 62-million-year period,¹³ which again points to a relation between tectonic changes and astronomical cycles (cf. the cycle in volcanic activity identified by Rohde, above).

Thus, in general, we see much evidence for a sort of astrobiogeochemical resonance, which leads us to begin to conceive of the idea of the Biosphere as a participant in an organized system whose scale extends to the farthest known sources of cosmic radiation. The impression that astronomical processes are separated by vast reaches of empty space is shown to be incorrect; the Biosphere is connected functionally to the farthest reaches of the physical universe by an incredibly active

12. Mikhail V. Medvedev and Adrian L. Melott, "Do Extragalactic Cosmic Rays Induce Cycles in Fossil Diversity?" *The Astrophysical Journal* (2007).

13. Ibid.

process, invisible to the naked eye. Space is far from empty, but rather full, dynamic, and complex—organizable, like Earth itself, into the interacting phase-spaces of the abiotic, the Biosphere, and the Noösphere, where the last indicates the potential for mankind's active economic development and reorganization of this complex system. This is the proper context in which to understand discussions of lunar industrialization, Solar System colonization, and the economic organization of interplanetary, interstellar, and intergalactic space.

This leads us to the major problem with all of these cyclical comparisons, but also potentially the source of the greatest possible number of new lines of research, which is the fact that the actual "chart" of evolutionary development, particularly after the emergence of Man and the Noösphere, is not cyclical. It is a continuous upward development to ever higher levels of organization and energy-flux-density, as measured and defined by the physical economist LaRouche.

So now we return to the question posed by LaRouche at the outset: To which of Vernadsky's three phase spaces does this flow of cosmic rays belong? If they and the cycles with which they resonate, are part of the development of the Biosphere, then, the Biosphere's anti-entropic development must be a character of the entire system of material-energetic flows which participate in the development of that Biosphere. Connected to this, is the necessity of developing means to recognize more qualitative, and not merely quantitative differences in cosmic ray interaction with the Biosphere. Life, as we will see below from the work of Gurwitsch, is sensitive to such qualitative differences in electromagnetic and other radiation, as the above-mentioned studies have not yet taken into account.

Possible Modes of Activity Within the Living Organism. What Are the Natural Processes of the Living Organism that Utilize These Types of Radiation?

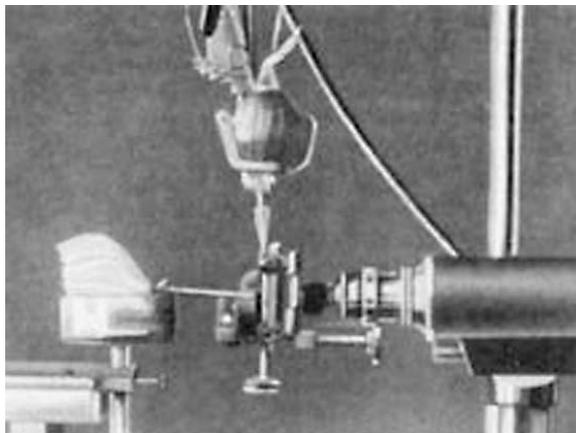
Regarding quantity versus quality of radiation, and the sensitivity of life to these qualitative differences

(where the current generation of measuring instruments lacks equal precision; cf. the work of Gurwitsch).¹⁴ Life's interaction with, and usage of, coherent electromagnetic radiation is far superior to the types of abiotic phenomena which are frequently attributed to it in theoretical, rather than experimental, considerations. Knowledge of the complexity of this normal functioning of different types of radiation within living organisms will shed light on what effects are to be expected from exposure to atypical forms of radiation.

Currently, lack of precision in our knowledge of the role of different types of radiation in living phenomena limits us to describing the destructive effects of large amounts of relatively disorganized radiation, such as that which is utilized with varied results in the treatment of various types of cancers. What sort of precise medical applications of radiation could we develop with a more detailed knowledge of the role of radiation in the normal functioning of living processes?

We know of photosynthesis as one clear interaction of living organisms with the electromagnetic spectrum. Likewise, in mammals, we have the sunlight-mediated synthesis of cholecalciferol. Also, however, Gurwitsch and his followers have demonstrated that coherent ultraviolet radiation plays a very important regulatory role in processes of cell mitosis, the most important function in the gestalt properties of the organism: morphogenesis and regulation.¹⁵ Incorrect functioning of this ultraviolet "mitogenic" radiation has been connected to the development of cancers. The radiation which occurs in these organic processes differs qualitatively from that produced by artificial sources. One notable factor in the biological case is its coherence.

FIGURE 6



Gurwitsch's famous onion stem experiment, where he demonstrated that processes of cell mitosis, which govern the growth and morphogenesis of the organism, depend on low-intensity ultraviolet radiation, which he termed mitogenetic radiation.

Frank Brown's work implies that cosmic rays may play an important role in the regulation of animal metabolisms: The metabolic functions of various organisms are related to various astronomical cycles which tend to be roughly on the order of a day or month. These cycles are reflected in the metabolism of the organism, even when the organism is removed from direct visual cues such as the Sun and Moon. Brown has shown that this regulation continues when the only influences that have not been isolated are cosmic rays, and the various penetrating electric, magnetic, and gravitational field effects produced by the Earth itself. Many animals are known to possess the ability to orient to the Earth's magnetic field. Birds have recently been demonstrated to navigate by actually visually perceiving the magnetic field of the Earth.

As a final point, connected to the work of Gurwitsch, we know that nucleic acids are extremely sensitive to (resonant with) ultraviolet radiation, to the extent that certain viruses are "turned on/off" (enter and exit their lytic or cancer-inducing phase), based on interaction with ultraviolet radiation in laboratory conditions.

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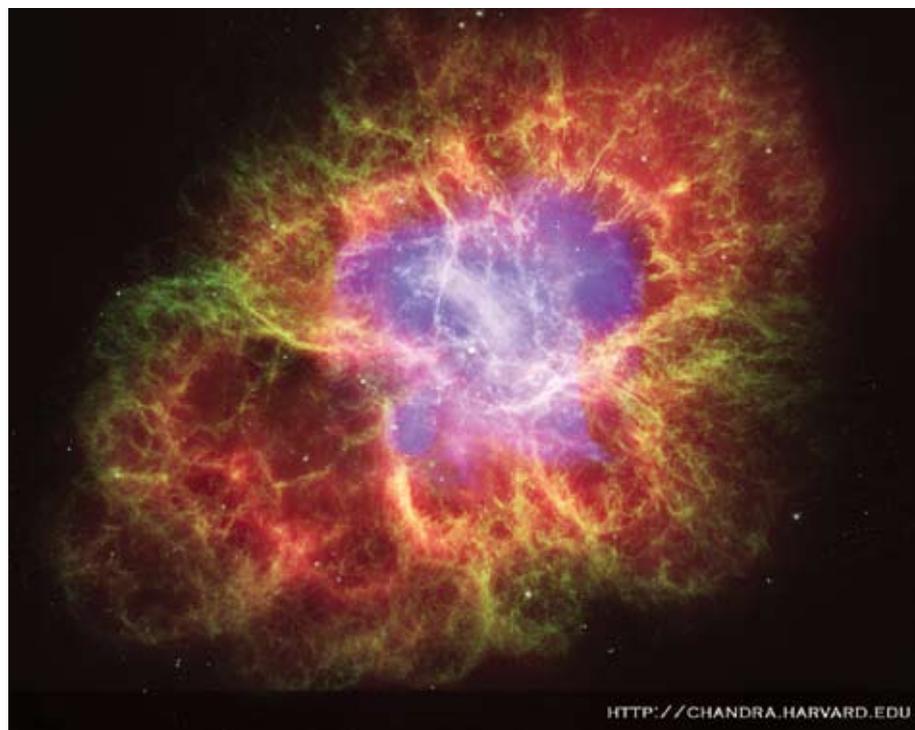
What We Know About the Sources of these Fluxes. Crab Nebula, Pulsars, Super/Hypernovae

Our first indication of the fundamentally creative nature of even the "abiotic" universe, is to be found in our recognition of its character as a dynamic, developing system, constantly coming into creation. Relevant to our topic of discussion here, is the constant creation of new sources of cosmic radiation in the form of supernovae, hypernovae, pulsar stars, and the like. While most of what is claimed about them at present is pure speculation, simply extrapolated from existing physical knowledge here on Earth, what is clear is that their constant rate of creation gives us a sense of a moving, directed, rather than cyclical, process which more closely resembles that which characterizes the

14. M. Lipkind, "Alexander Gurwitsch and the Concept of the Biological Field," Part 1; *21st Century Science & Technology* (Summer 1998); and Part 2, *21st Century Science & Technology* (Fall 1998).

15. *Ibid.*

FIGURE 7



A major source of cosmic radiation entering Earth's biosphere: The mysterious Crab Nebula, whose properties are still almost completely unexplained, despite the many attempts at physical theories. It has characteristics which challenge the existing understanding of the theory of relativity, and which reflect the gestalt qualities which Max Planck and his student Wolfgang Köhler recognized as demonstrating quantum phenomena. It is shown here as a false-color, composite image, utilizing data from the Hubble, Chandra, and Spitzer space telescopes, showing the different types of electromagnetic radiation produced.

development of the Biosphere and the Noösphere, each in their respective degree. Therefore, understanding their resonance with life on Earth will give us more insight into their as-yet-unexplored creative characteristics.

A 1-G trip to Mars will represent Man's creation of new relativistic phenomena. It is significant that the known, major sources of cosmic radiation here on Earth, such as the Crab Nebula, are all connected to phenomena which seem paradoxical from the standpoint of relativity theory. This points to a type of causality which lies outside of the simple, kinematic chains of cause and effect, and leads us towards a more gestalt-like, systems approach to causality: *dynamics*. A more certain assessment of the nature of these processes demands a closer inspection, and raises the question: What physical boundaries do we begin to push, at the moment we institute trips at an accelera-

tion of one Earth gravity over long distances?

Experimental Proposals

The first experimental investigations will obviously require a more detailed study of the environment to be faced by our interplanetary travelers. Probes carrying several different types of instrumentation will need to be accelerated at 1-G for an extended period of time, in order to gauge what unexpected physical effects might result from this process.

[...]

The economic questions connected to this expanded investigation is more than a question of "local jobs." What this type of political orientation means, and what Rogers and LaRouche represent, is an orientation towards the future of the human species as a whole. Ensuring mankind's future in this form is the only way to ensure the existence of health care, meaningful employment, and a cultural sense of mission for not only this nation, but the

world. Real patriots, policymakers, scientists, engineers, and average citizens will rally around the vision that this mission represents, defeat the financial controllers of the current Obama Administration, and help make this policy a reality. In a world desperate for real leadership, the future, and our survival, is in our hands.

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LaRouche: Remove Obama, and Free Russia from the Brits

by Nancy Spannaus

March 15—Radical changes are imminent, argued Lyndon LaRouche in his March 13 international webcast, entitled “The Ides of March 2010.” Within the very short term, we can expect President Obama to leave office, most likely as a result of a visit from leading institutional figures who will deliver a message very much like that delivered to Richard Nixon in 1974: It’s time to go, or else. That change will facilitate the other major shift that must occur in the immediate period ahead—the freeing of the Russian government from its virtual imprisonment by the British financier oligarchy, epitomized by the Rothschild Inter-Alpha Group and its agents in Russia, including, most emphatically, Mikhail Gorbachov.

LaRouche’s 90-minute opening presentation, began with a dramatic prologue, in which he likened the immediate changes ahead to the shift which occurred in the wake of the bombing of Pearl Harbor on Dec. 7, 1941. Contributing to those changes, he said, will be the revelations which he would make during the webcast itself, revelations of events in which LaRouche himself participated, which shaped world history, and the situation we face today. Those revelations centered on the warfare between LaRouche and other patriotic Americans, on the one side, and the British Inter-Alpha Group on the other, around the Strategic Defense Initiative, the idea created by LaRouche, which provided the potential to break the world out of British geopolitical controls, in the 1980s.

The British won that round, and still largely control

the Russian state, LaRouche argued. This control must be broken, because Russia, with the United States, represents a crucial part of the Four Power combination that must lead the world out of its current devolution into a New Dark Age.

At the conclusion of his opening remarks, LaRouche outlined the remedies at hand, stressing the necessity for a global Glass-Steagall wipeout of fictitious debt, and the establishment of a new fixed-exchange-rate treaty agreement, which would permit the launching of vast new infrastructure projects in the areas of power, transportation, and water development. Under such a system, a cultural shift will also follow, with an emphasis once more on the unity of science, creativity, production, and progress.

But none of it will happen without getting rid of Obama, he concluded. And that must happen *now!*

Replace this President!

“Nothing will save this Presidency, in this present form: And the sooner he’s gone, the better,” LaRouche said at the outset. “The mere fact that he’s still President on any given day, is a catastrophe, which will mean catastrophes that people will suffer.”

Harkening back to the Nixon resignation in August 1974, LaRouche noted that what Nixon, the President who presided over the burial of the Bretton Woods System, represented then, was the same thing that Obama represents today—the British imperial system. That’s the problem with Obama. “He’s controlled by foreign influ-



EIRNS/Will Mederski

aware of Zbigniew Brzezinski's strategy, during the Carter Administration, for a nuclear attack on the Soviet Union, LaRouche both exposed it, in his 1976 Presidential campaign, and then devised a policy to prevent it, the policy of ballistic missile defense, which became known as the Strategic Defense Initiative (SDI). LaRouche collaborated with a section of the U.S. intelligence community, while also organizing leading forces in France, Germany, Italy, and South America to support his policy.

But, while Reagan adopted LaRouche's policy on March 23, 1983, the Soviets eventually rejected it. The primary reason? The British.

The mass-strike mood of the American people has already dictated that Obama must go, LaRouche declared. Kesha Rogers' victory in Texas is, so far, the most dramatic evidence of that mass strike. Rogers is pictured here with LaRouche, at the webcast.

ences which are our enemy. . . . Therefore, his presence in the White House is destroying the United States!"

The mass-strike mood of the American people has already dictated that this President must go, LaRouche said. Sixty to seventy percent of the American people have contempt for him, and hatred of the Congress. And the way that Obama can be removed, is the way Nixon was convinced to resign—by a group of grim, determined people convincing him that he has to go. The President is only a symptom of the disease, but if we don't get rid of him, that disease, the British disease, will kill us.

The British Gameplan

The British illness goes all the way back to the founding of the Empire, in 1763. "It's a system of financial usury, which controls the nations of the world, and that's what it is today. The British Empire is runing the world . . . through international financial power; imperial financial power, the control of the system, through the breaking of our system—and also through wars, as they did with the Kennedy case, with 1968 events, and so forth."

LaRouche then honed in on the period of 1976 to 1986, a period of hand-to-hand conflict between him, and the British imperial strategy. Having been made

British-Controlled Soviet Traitors

LaRouche then dropped his bombshell: Yuri Andropov, who rejected the SDI, and Mikhail Gorbachov, who confirmed that rejection, were *British agents!* They were controlled by powerful British forces, centered in the Inter-Alpha Group of banks, which was established by Lord Jacob Rothschild in 1971, and which is the center of the financial bubble today. And those traitorous forces still are "controlling key positions in Russia today, and are the key impediment to saving Russia, from the destruction which threatens to hit Russia today. . . ."

In a nutshell, the United States, currently controlled by a British puppet, and Russia, are being destroyed by a common adversary—the British Empire's frontman, the Inter-Alpha Group.

As LaRouche put it:

"Remember, the United States economic system was crashed in August of 1971. In August of 1971, the British Empire, operating through a group headed by Jacob Rothschild, and others, created what is called [the Inter-Alpha Group], today. They are the controlling force, today; they are actually rotten, and they're about to crash. This is the center of the bubble, which is about to pop! And when this bubble pops, unless we have an alternative policy in place, the whole world's

going to go down with it, like the New Dark Age. That's where the problem lies.

"Russia, China, and India, have a vital common interests, in fact, with the United States, with nations in continental Europe, and others, in revising a new system of cooperation, to get the world economy out of this crisis, largely a nuclear-power driven, transportation-driven, infrastructure program. Which can be done, it can be financed, and it can work, and it can end this depression. *This* is the impediment! And the influence of *this* element, like a pack of traitors, inside the Russian system, is the secret to the problem. That is the technical point, that's the point of attack: That's what you must destroy! That's the enemy. Don't pick on everybody you don't like: Pick on an enemy to destroy. Pick on the right enemy, and don't attack anybody else. Destroy that enemy. That's the enemy!"

Now, to the Remedy

In the final section of his opening remarks, LaRouche outlined the remedies—especially in terms of the major infrastructure programs which must begin immediately. He took as a case study, the case of rebuilding Haiti.

Haiti is about to be devastated with a wave of disease, more deadly than the earthquake itself, he said. What the U.S. has to do is restore the use of the military Corps of Engineers, to initiate a comprehensive reconstruction program in Haiti. Take youth from the United States, and from Haiti, and employ them as an engineering force, which will give them a mission orientation, and a future.

LaRouche then touched on other crucial aspects of the program. Bankrupt the British system, by implementing the Glass-Steagall system. "Glass-Steagall is the soul of the U.S. Constitution," he said, "an expression of the soul. Without a fixed-exchange-rate system, internationally, you can not develop cheap credit that you require internationally, for building up this planet, and rebuilding the United States."

Then you create an international system, using a Glass-Steagall standard, "and just wiping off the books, *all the fake money, all the speculative money!*"

Face the Truth

The following summary encapsulates LaRouche's core argument:

"But we have to understand the truth: Where did we go wrong? It should be shocking to anyone who thinks

about it. Here we are, all this time, all this talk about 'Soviet' this, and so forth, which is what we were sort of raised in, since about the time I was born! I was born in 1922! Guess what the Soviet issue has been, since 1922?

"We lived in a world in which that was the big issue. And now we turn around, and find that the key powers inside the Soviet Union itself, working for the British Empire, as traitors to Russia, were actually running many of these operations which we thought were the Soviet operations: *The British were running them!* We were allied with the British, who were running the Soviets! As today. Our old enemy, the British. That's our problem.

"That's why we got Obama.

"We have to understand that we as a nation, were created as a unique phenomenon on this planet, at a time when Europe had failed to realize what had been made possible, by the great accomplishments of the 15th Century: the discovery of science, the launching of science in the 15th Century; the launching of Classical art in the 15th Century; and then, again, the progress which was made by the Peace of Westphalia—again, betrayed.

"We, in the United States, from Europe, came to this territory, to build up a nation, based on the objectives of these great reforms in Europe, but which Europeans had been incapable to defend and maintain. So what we brought here, was the contribution of the best of European civilization. It started effectively in Massachusetts and activated, seeding things in this, and other parts of the country, as in Virginia and Pennsylvania and so forth. We created the United States, as a unique expression of a distillation of what had been good in European civilization! And adapt it to other parts of the world, with the same view, of a cultural revolution of that type.

"We destroyed that, then, largely through Wall Street and British influence. And today, we're about to lose everything, to lose civilization, to lose the human race. And the problem of the Obama Administration, is that it is the embodiment of the corruption by which we are destroying ourselves. Let Obama go where he wishes to. Let him live in peace.

"But don't have him in the White House! Get him out of there...."

The complete video, to be followed by a full transcript, can be found at www.larouchepac.com. And, the next issue of EIR will feature the transcript.

Russia Views with Alarm the Taliban Return to Power in Afghanistan

by Ramtanu Maitra

March 11—It is a certainty that one of the key subjects of discussion March 11-12, between Indian Prime Minister Manmohan Singh and Russian Prime Minister Vladimir Putin, when Putin visits India, will be the changing situation in Afghanistan. There is little doubt that the mooted return of the Taliban to share power with a weakened President Hamid Karzai has set off alarm bells, in the capitals of both these nations.

To counter the jihadi terrorism menace, India and Russia will have to recognize two realities. First, the Islamic jihadis are trained and instigated by the British, and financed by the Saudis and Afghan opium. Unless London and Riyadh are told, in no uncertain terms, that both Russia and India are ready to expose the mentors and backers of the jihadis, terrorism will not come to an end.

The second reality that these two countries must grasp, is that joint efforts, using their security apparatus, scientific and technological abilities, and economic might will be necessary to counter the foreign-bred and -trained terrorists. The stronger Russia and India become through bilateral cooperation, the weaker the jihadis will be.

Meanwhile, the Indian media reports that discussions have begun at a high level in New Delhi about whether to open talks with Pakistan's intelligence agency, the ISI, and the Afghan Taliban, in light of the increasing evidence that the U.S.-NATO troops are losing ground rapidly, and that the only option the Obama Administration is now looking at, is bringing in the Taliban to share power in Kabul. India's National Security Advisor Shivshankar Menon has already visited Kabul, ostensibly to investigate the latest attack on Indian citizens there; and it can be fairly assumed that his view of the unraveling Afghan situation is no different.

It is likely that the re-think on New Delhi's part is based on a number of factors. There is a realization

that with the deterioration of the Afghan security situation, and the further weakening of Karzai by the U.S. and NATO, the control of Afghanistan is steadily slipping into the hands of the Pakistani Army and ISI, and the battling Taliban. Having invested about \$1.7 billion in various infrastructure projects in Afghanistan, India is now fearful that if political bridges are not built with the ISI and the Afghan Taliban quickly, India may become irrelevant in Afghanistan. At the same time, India is also considering paring down its involvement in reconstruction projects in Afghanistan. Projects under way may be wrapped up quickly and there may even be a freeze on undertaking new projects. Islamabad has made clear that it views a strong Indian presence in Afghanistan as a security threat to Pakistan.

Media reports indicate that the advice to engage with sections of the Taliban and to start a limited dialogue with the ISI came from the Prime Minister's office. Although controversial, the advice stems from India's need to ensure that Afghanistan is not handed over on a platter to Pakistan. In line with that thinking, India is also considering helping prop up a friendly political alliance in Afghanistan, and intensively engaging with Russia and Iran.

As yet, no such re-think has been reported to be taking place in Russia. While India's concern over the Taliban coming back to power centers on how to protect the good work that New Delhi has done during the U.S. and NATO occupation of Afghanistan, as well as India's strategic interest in that country, Russia's worries are different. Moscow, and the nations that Moscow considers should be in its sphere of influence in Central Asia, are already under attack from the forces that are operating inside Afghanistan. Moscow fears that the U.S. and NATO decision to endorse an Afghan Taliban takeover of Kabul would further embolden the anti-Russia forces in and around Afghanistan. It is expected



Press Information Bureau of India

The meeting March 12 in New Delhi, of Russian Premier Vladimir Putin and his Indian counterpart Manmohan Singh, took place as alarm bells went off in both nations, over the return of the Taliban to share power in Afghanistan.

that Russia will plan some contingency measures to strengthen its security in light of that threat.

Use of Opium To Weaken Russia's Southern Flank

It is now well established that the Central Asian states, north of Afghanistan, have been devastated by drug-money-financed terrorist movements, dressed in the garb of orthodox Wahhabi Islam. Located south and west of Afghanistan, Iran has been inundated by opium and heroin, which are destroying a generation of Iranians. This region has been systematically handed over to the terrorists, since the United States and its NATO allies launched their War on Terror, ostensibly

to eliminate violence and terrorism in Afghanistan.

In 2001, when the U.S. invaded Afghanistan to oust the Taliban, which harbored the infamous al-Qaeda, Afghanistan produced less than 100 tons of opium per year. In 2007, according to the United Nations Office on Drugs and Crime (UNODC), Afghanistan's opium production was 8,240 tons—twice as much as was ever produced during the Taliban's five-year reign, and at least eight times the quantity Afghanistan produced before the Soviet Army invaded in 1979. In 2008, production dropped, through a successful eradication campaign, to 7,700 tons. In 2009, according to the U.S. State Department's International Narcotics Control Strategy Report (INCSR), released this month, citing UNODC, opium poppy cultivation in Afghanistan decreased from 160,000 hectares to 120,000 hectares. However, because of improved weather and enhanced productivity, yields increased. The UNODC estimates that production of opium gum will be 6,900 tons in 2009.

The reduction in cultivation has been attributed to a combination of factors, including decreased opium prices relative to abnormally high wheat prices, and improved governance and security in key provinces. This amount of opium, converted into heroin, would still generate about \$4 billion for those Afghans who control the business, while the street value in Europe of that heroin could be anywhere between \$130 and \$140 billion.

Moreover, the data presented by the UNODC shows that the opium poppy fields were larger in 2009 than in 2006, when British troops were deployed into Helmand Province. Although the country's opium poppy areas decreased by 22%, the production of raw opium fell by only 10%, at most. British experts have established that Afghan farmers have learned to produce more opium juice per poppy than a year ago: 56 kilograms of opium per hectare (2.47 acres), and 15% more.

According to British sources, the overwhelming majority of captured Taliban admit that they receive the bulk of their funds for food, fuel, and weapons from the drug business. The price of raw opium has fallen to \$48 per kilo, as the supply has dramatically increased—yet further proof of the failure of U.S. and British anti-drug policies.

In September 2005, in testimony prepared for the U.S. House Committee on Armed Services Threat Panel hearing on threats in Eurasia, U.S. Central Asia security expert Martha Brill Olcott said: “One of the as yet unwritten stories associated with the ouster of [Kyrgyz] President Askar Akayev last March was the role drug money played in mobilizing support both for and against the now-deposed president. As with so many interesting stories in Central Asia, what everyone knows and what everyone says are usually two different things.”

Olcott also said: “The role that drug money plays in making and breaking governments in this region is certain to increase, as long as the drug trade from Afghanistan continues almost uncurbed. And, drug money is already so important for most of the countries of the region, that should narcotics production be sharply curtailed in Afghanistan, it might reappear in Tajikistan, Uzbekistan, or Kyrgyzstan—all weak states, with the right climate-soil conditions for cultivation [as is the case for parts of Kazakstan and Turkmenistan]. . . .”

The Jihadi Terrorist Threat

In recent years, the North Caucasus region of Russia has been ravaged by Wahhabi-indoctrinated jihadis, who are now stronger than ever in Chechnya and in two flanking provinces, Dagestan and Ingushetia. In an interview with *Moskovsky Komsomolets*, Boris Karnaukhov, deputy head of the Russian government’s criminal investigation arm for the North Caucasus, points to the very different trends observed over the past year in Chechnya and Dagestan. In the former, the number of crimes against government officials has fallen, but, in the latter, there has been a sharp increase.

Jihadis in the Russian provinces and in the five “stan” countries (Tajikistan, Uzbekistan, Turkmenistan, Kyrgyzstan, and Kazakstan) are intertwined, but their mode of operation is different. In the Russian provinces such as Chechnya, Dagestan, and Ingushetia, the jihadis combine their separatist flag with their demands for a supranational Islamic Caliphate. In the “stan” countries, the objective of the jihadis is to remove the moderate Muslims and take control. The jihadis have also become prominent in Azerbaijan and Abkazia, among other areas.

The intertwining among the jihadis operating in



Captured Taliban reportedly admit that the majority of their funding for food, fuel, and weapons is provided by the Afghan opium traffic, which has exploded under the watchful eyes of the British forces in Helmand province. Shown: Taliban in Herat, Afghanistan.

Russia and Central Asia has been made possible by the opium/heroin money used to finance insurgency operations, and by the jihadis’ demand for a Caliphate to secure support in the Muslim world. The demand for a Caliphate is also a convenient tool to give terrorism a religious “color,” telling Muslims that they are fighting a religious war against the infidels.

At the core of the jihadi operation sits the London-headquartered Hizb ut-Tahrir (HuT), a Wahhabi Sunni-dominated pan-Islamic movement. This supranational outfit wants to unseat governments of all sovereign Islamic nation-states, and establish a Caliphate in their

place, that will govern by the laws established by the Ummah (community of the Muslim world). Although HuT is recognized as a terrorist organization, and hence, is banned in many countries, it is fully functional in, and protected by, Britain. Besides the opium/heroin money, the HuT is financed by the Saudis and Kuwaitis.

The HuT officially opposes violence. According to published reports by experts, it is predominantly active in Central Asia and parts of Europe—notably Britain. It claims to be active in over 40 countries with 5,000 to 10,000 core members. The group has been known to have strongholds in the mixed border region of the Fergana Valley of Central Asia, especially in Uzbekistan, where most of their activity is carried out.

While official HuT members preach the peaceful establishment of the Caliphate, the group interacts closely with many terrorist jihadi groups, such as the Lashkar-e-Taiba (LeT) and Islamic Movement of Uzbekistan (IMU), among others. The IMU provides the main impetus, keeping the insurgency going in Russia and Central Asia. However, there is also evidence of some LeT activity in this area. The interplay between the HuT and the IMU is interesting: While the HuT members carry the Holy Quran, the IMU carry assault rifles. Central Asian intelligence officials point out that most, if not all, members of the IMU are former peace-loving, Caliphate-seeking HuT.

Russia's Federal Security Service (FSB) has long accused Hizb ut-Tahrir of links with separatist fighters and alleged Arab mercenaries combatting Russian troops in the breakaway republic of Chechnya. The FSB claims the group has been officially joined by members of the IMU. Observers note that the IMU is, in turn, linked to the Afghan Taliban. Routed and pushed out of Afghanistan during the early U.S.-led military campaign in Afghanistan, they have found a home in the tribal areas of Pakistan. At least until recently, the IMU were protected by Pakistani intelligence. Under American pressure, the Pakistani military has pushed them northward into the "stan" countries.

Moscow has reason to worry that when the Afghan Taliban re-acquires power in Kabul, these terrorist groups will have their shelter in Afghanistan. There, they will recruit, arm, and train the terrorists, probably with the help of professional soldiers from the Pakistani military. A safehouse as large as the nation of Afghanistan will provide the IMU, HuT, and other terrorist groups an ever-expanding base from which to launch deadly at-

tacks into Central Asia and the North Caucasus.

Russia, a victim of the Afghan opium/heroin influx that has created almost 2.5 million addicts, has raised the security threat that the Afghan opium traffic poses in the region, in international fora over the years. Following the attack on Mumbai in November 2008, Viktor Ivanov, the director of Russia's federal anti-narcotics service, in an interview with the Russian daily *Rossiskaya Gazeta*, said: "The gathered inputs testify that regional drug baron Dawood Ibrahim had provided his logistics network for preparing and carrying out the Mumbai terror attacks." The daily continued, "Ivanov said the Mumbai attacks were a burning example of how the illegal drug-trafficking network was used for carrying out terrorism."

In February, Ivanov told the press: "Whereas drug production in Afghanistan has increased 40 times during the last 10 years in the presence of international troops, the previous year saw only a dramatic decline in the volume of confiscated Drugs. The number of arrests of drug dealers has likewise dwindled 13 times, and the number of drug laboratories increased 10 times in the last three years." Ivanov added that this may have serious ramifications for the West's peace efforts in Afghanistan. He also expressed deep concern over the alarming rise in the flow of drugs from Afghanistan into Daghestan in Russia's volatile North Caucasus region, leading to an increase in crime and terrorist activity.

He noted that the United Nations had shirked its responsibilities in implementing an anti-drug program in Afghanistan, leaving it to NATO, which, in turn, had passed the issue on to local authorities. "The main emphasis should therefore be laid on improving mechanisms of international cooperation, because without cooperation it will be virtually impossible to effectively tackle . . . the drug situation within the country," Ivanov said.

On March 3, Ivanov told RIA Novosti that the international forces in Afghanistan have failed to tackle drug trafficking during their nine-year military presence. Afghan opium production increased dramatically after the U.S.-led invasion that toppled the Taliban in 2001; and Russia has been one of the most affected countries, with heroin consumption rising steeply, he pointed out. Dmitri Rogozin, Russia's envoy to NATO, described "heroin aggression" as "the main threat to Russia." Last month, Moscow urged NATO to prioritize the fight against drug trafficking in Afghanistan.

London Frantic Over Clinton Intervention

by Cynthia R. Rush

March 13—Since the beginning of March, City of London media outlets have violently attacked Secretary of State Hillary Clinton, after she accepted an invitation from Argentine President Cristina Fernández de Kirchner to mediate in the dispute between the British and Argentine governments over the Malvinas Islands. Clinton accepted the offer during her March 1, 90-minute meeting with the Argentine President in Buenos Aires, which was not originally scheduled on her four-country tour of Central and South America.

The Malvinas—or Falklands as they are called in the United Kingdom—belonged to Argentina until 1833, when Britain illegally seized them. Since then, London has proclaimed itself the colonial master of the islands, and refused to have any discussion with Argentina on their sovereignty. When Argentina retook the islands by force on April 2, 1982, the British, backed by NATO, launched a brutal war against the South American country, to punish it for defying London’s imperial dictates.

Since the U.S. allied with Britain in that colonial war, turning its back on both the Monroe Doctrine and the 1947 Rio Treaty, which provides for a collective defense of all signator nations, of which the U.S. was one, London assumed it needn’t worry about Washington’s support for its sovereignty claim. The only prominent American voice that, at the time, backed the historical U.S. position that the Malvinas belong to Argentina, and that the British should stop meddling in the Americas, was that of Lyndon LaRouche.

Hence, the fireworks when Clinton stated in Buenos Aires that the U.S. maintained *neutrality* on the sovereignty issue, and stood ready to facilitate Great Britain and Argentina “talking to each other”—something London refuses to do. The *Times* of London, the *Daily Telegraph*, and London *Economist*, among others, went ballistic, not only over what Clinton said in Buenos Aires, but also over remarks by Assistant Secretary of Public Affairs Phillip J. Crowley, who twice, during a

Feb. 25 State Department briefing, used the dreaded word “Malvinas” to refer to the islands, in replying to hostile questioning from a British journalist.

The U.S. ignored British “sensibilities” on this issue, fumed the London press, claiming that the U.S. was trampling on the U.S.-U.K. “special relationship.”

A Community of Principle

While the British Empire never tolerates displays of sovereignty or independence from nations it considers its inferiors, the hysterical screams coming from London reflect more than just imperial displeasure.

Why? The global financial system is in the terminal phase of collapse, and anything less than the global Glass-Steagall plan proposed by Lyndon LaRouche will doom the planet to a hellish existence for generations to come.

London knows this. It also knows that the early demise of its puppet, the wildly unpopular President “Nero” Obama, is very likely.

As LaRouche explained in his March 11 interview with Argentina’s Radio Splendid (see below), the minute Obama were to disappear from the scene, and the world set on a path of real economic development, the dynamics in the Americas would change dramatically. More favorable conditions would free the United States to move toward creating the community of principle that John Quincy Adams envisioned for the hemisphere, instead of acting like “a cock boat in the wake of a British man-of-war,” which has largely characterized the U.S. approach to the region, since the demise of Franklin Roosevelt’s Good Neighbor Policy.

An “easy solidarity” would develop between the United States and Argentina,” LaRouche said, because “we, in the Americas, have essentially an historic interest in the independence of the Americas as a continental matter. And we have to work to associate ourselves together, as a unit, to defend ourselves against this problem that’s coming from Britain.”

Clinton was “representing the traditional, official understanding of the international law,” LaRouche stated. At the time of the 1982 war, “the Malvinas was recognized by the United States as being legally the territory of what is called today Argentina.”

A Presidential System

But it isn’t just Clinton’s recent actions that have provoked London’s rage and fear. Just two days after her meeting with the Secretary, in a March 3 speech



President of Argentina website

Secretary of State Hillary Clinton's (right) meeting with Argentine President Cristina Fernández sent tremors through the City of London.

before a group of agricultural producers and businessmen, President Fernández pointedly reminded her political enemies that Argentina is based on the U.S. Presidential system, *not* British parliamentarianism. This is one of the reasons the British want to dump Fernández, *before* next year's Presidential elections.

"I know," she said, "that the Argentine Republic has a Presidential system . . . that we have copied exactly from the Constitution of the United States." Those who wish for a parliamentary system in which a prime minister or other leaders can be easily removed, should remember that, in Argentina, "there is no co-government with the opposition. This is not a parliamentary system."

In this same speech, the President, who has also come under attack by London-centered financier interests and their local hangers-on, charged that there are "obvious attempts" to overthrow the government "by certain national sectors." While failing to note that these sectors are steered *internationally* by the British Empire, she charged that the opposition has apparently been able to "rent" judges to issue court orders to block her attempt to put Central Bank reserves under government control, and to use them to meet foreign debt obligations.

Fernández warned that it is those who advocate a parliamentary system who are trying to force her government to either default on its debt obligations, or savagely slash productive government spending, in order to make those debt payments. These, she said, are the very same

factions that indebted the country in the 1980s and 1990s, and who now turn around to try to stop her from paying those debts using Central Bank reserves.

"I want them to tell me how," she said, "paying the way *they* propose, we are going to be able to keep paying retirees their two increases per year, how we will be able to keep paying family benefits, how we will be able to continue with an infrastructure plan like the one we are announcing today."

What About the Debt?

According to the March 10 *London Times*, the British Foreign Office has already issued three complaints, in phone calls and e-mails to the State Department—tantamount to a formal protest—to "restate Britain's position on sovereignty over the islands, and seek clarification of the U.S. position," after Crowley referred to the islands as the "Malvinas."

Crowley's use of the unmentionable "M" word caused "consternation" among British officials, sputtered the *Telegraph's* blogger Nile Gardiner on March 2, adding, on March 10, that Clinton's acceptance of Fernández's invitation to serve as mediator was a "strategic error in judgement by Washington, and yet another demonstration of a poorly conceived foreign policy doctrine that attaches little importance to preserving friendships and alliances, while currying favor with anti-American regimes."

But, it's instructive that, in all its ravings, London made no mention of what Clinton said on March 1, about Argentina's foreign debt. London-centered financier interests have hammered away at Fernández for months, deploying their predatory vulture funds to seize Argentine assets in the U.S., to satisfy their fraudulent claims stemming from the 2001 debt default, while shrieking that Fernández has no right to pay debt using reserves at the "autonomous" Central Bank.

Asked by a reporter to comment on the President's plan to use the reserves to pay foreign debt, Clinton replied, "I think that Argentina has made a tremendous amount of progress in paying down its debt. And the President and I were talking about the progress, which is very dramatic, just in the last several years. And I confessed to her that so far as I know, based on the figures, Argentina's debt-to-GDP ratio is a lower percentage now than the United States debt-to-GDP ratio. So however Argentina is doing it, it's working."

This provoked peals of laughter from the press corps that no doubt could be heard all the way to London.

A U.S.-Argentina Pact Against the British

Miguel De Renzis of Radio Splendid of Buenos Aires, Argentina, recorded the following interview with Lyndon LaRouche on March 11; it was broadcast (with consecutive Spanish translation) on March 12, during the regular 6-9 a.m. news program, "De Renzis Yesterday and Today." De Renzis has interviewed LaRouche, and members of the LaRouche movement, numerous times over the years.

Miguel de Renzia: We are going to talk with Lyndon LaRouche, who has not only been a [U.S.] Democratic Presidential pre-candidate, but who is also a constant observer of the economy. Mr. LaRouche, good morning.

Lyndon LaRouche: Good morning to you!

De Renzis: The first question which concerns us in Buenos Aires, and all of Argentina, is that the Malvinas conflict with Great Britain has been reactivated. What is your view, Mr. LaRouche?

LaRouche: Well, it's obvious in one sense; and the position of the Secretary of State is also very interesting. Because it's not just something that happened, that Mrs. Clinton, the Secretary of State, was representing the traditional, official understanding of the international law. Because at the time of the warfare between the United States and the United Kingdom, the Malvinas was recognized by the United States as being legally the territory of what is called today Argentina.

It also represents the fact that the United States knows, that historically and morally, Argentina and the U.S. are allied as sovereign nation-states, whereas the British Empire was the enemy of the United States, and of what's called Argentina today, at the time of the Malvinas conflict.

De Renzis: The next question, which is almost linked to this, is an announcement made a few days ago about the Greek crisis, and of the need for the European Common Market to set up something similar to the In-

ternational Monetary Fund. What is your view of that?

LaRouche: That is the devil himself, and ought to be treated as such.

And also, the point is, that the Greek crisis is irrelevant. Because the Greek crisis was caused by the creation of the European Union. The problem is inside the European Union, not inside Greece, as such. And the problem is in South America, because of Brazil: Because Brazil is practically controlled by the Rothschild-centered Inter-Alpha Group—

De Renzis: Excuse me. This is very important, what you just said, because what you're saying is that the House of Rothschild is controlling the Brazilian economy. Is that what you said?

LaRouche: Something more than that: It's the British Empire. The House of Jacob Rothschild and his family, is actually the leading institution of the British Empire. And the bankruptcy, the virtual bankruptcy of Brazil, because of Banco Santander and similar kinds of institutions, is the foundation on which the British Empire depends for existence today.

Britain Throws a BRIC at Brazil

De Renzis: Lyndon LaRouche announced that the financial bubble was going to explode, and it ended up exploding. Do you believe that in Brazil, there is also a financial bubble, like in Indonesia, like possibly in China, or in India, according to recent reports?

LaRouche: Not really as much. The Brazilian case is unique. Because, some years ago, there was an agreement reached, called the BRIC [Brazil, Russia, India, and China]. This was an effort, initiated by London, to try to control Europe, in general, [plus] Russia, China, and India. And because Brazil was able to carry a rotten debt, as by the Banco Santander, Brazil was used as a foundation for creating the BRIC. And the whole thing in Brazil is totally bankrupt! The collapse of the Brazilian interest, like Santander, would bring down the whole world system, tomorrow. And at the present time, it can collapse at any time.

So, the Greek issue is really not important. The Greek issue is raised by the British, to distract attention from the Spanish problem and the Brazilian problem.

De Renzis: What we just heard is very important, because we are referring to a situation which can also be called a bubble. Because, for many years, Spain has regularly been used as an English curtain and excuse.

We Argentines are very concerned, because behind the agreement between [the Argentine oil company] YPF and Spanish companies, stands British Petroleum. What information do you have about the oil issue, and the role that Spain would be playing as a front for all this?

LaRouche: Well, it's beyond that. It's beyond that kind of issue.

We're now on the edge of a general collapse of the entire world system. Every part of Europe, every part of the Americas, virtually, including the United States, is on the verge of a general breakdown crisis, like a dark age. At this point, there is only one action which can prevent this from happening: If the United States proposes a policy of returning to the standard of President Franklin Roosevelt, the Glass-Steagall standard, and if all of Europe joins us, we can create a Glass-Steagall reform of the world monetary-financial system. This will wipe out most of this purely inflated waste-paper money.

Under those circumstances, we can have an international treaty organization, under a fixed-exchange-rate system, to issue credit to revive the world economy.

De Renzis: At this point in the discussion, the almost obligatory question is about your view of Barack Obama, given that, I understand, you are heading up a kind of call, within the Democratic Party itself, for the impeachment of the current President of the United States. Do you think he is able to solve the crisis?

LaRouche: Absolutely not! We either get rid of Obama, or we lose the United States. He's the kind of mental case that can not be handled. We have to get rid of him. And there are more and more forces inside the United States discussing how to remove him from office. He is now an existential threat to the continued existence of the United States. He has to be treated like a madman, and put into retirement.

Shut Down the Drug Traffic

De Renzis: Well, that's a very hard answer that LaRouche has given about the President of the United States himself. What is your evaluation, at this time, of what is happening in Venezuela with Hugo Chávez; of what is happening with Evo Morales in Bolivia; about what is happening with Raúl Castro himself?

LaRouche: Well, the whole area there is a problem of British control. That's the whole problem. And it goes together with the drug problem. For example, go back to the period of 1982: In the Summer of 1982, I

was involved in an agreement, among Mexico, [Mexican President José] López Portillo, the President of Brazil, and the head of the government of Argentina. We had friends in the government of Peru, and others.

Well, we were defeated on that policy. Since that time, every part of Central and South America has undergone a systemic degradation under British influence. We have a situation, in which the interests of these countries are not represented by their own governments. The principal factor in this, is the drug-trafficking. The control of the national governments by drug-trafficking interests, is the key problem of Central and South America. I don't think that any of the governments themselves are responsible for this: I think they are the victims of influences which are associated with the drug-traffickers.

De Renzis: What role do you believe Argentina could play in the coming or approaching time?

LaRouche: Well, it depends upon our ability to do what I think we have to do internationally. What would happen, the minute that Obama were to leave the Presidency, which could be very soon? As the example of Secretary of State Clinton represents, in terms of the discussion of the Malvinas, there would always be easy solidarity between, say, Argentina and the United States. Because, we, in the Americas, have essentially an historic interest in the independence of the Americas as a continental matter. And we have to work to associate ourselves together, as a unit, to defend ourselves against this problem that's coming from Britain.

De Renzis: There is a question related to this, because there are groups financed by George Soros that operate inside Argentina. What is your view of George Soros?

LaRouche: Soros is a total British agent, and he's also what he was when he worked for his father, killing Jews for the benefit of the Nazis.

De Renzis: Is there any observation you would like to make to conclude this conversation?

LaRouche: Sure: We have a world crisis, now, for which there are possible solutions, and there's an increasing sense that there's a need for these solutions. These solutions depend upon a sharing of interests, among patriotic forces of sovereign nations. And we have to fight for that unity of patriotic forces. That's the only thing that will save civilization.

International Intelligence

Shanghai-Hangzhou Maglev Project Okayed

March 15—The Chinese Ministry of Railways gave the go-ahead on March 13 for a high-speed magnetic levitation railway project of nearly 200 kilometers, between Shanghai and Hangzhou, including a branch line already in existence in Shanghai. Detailed research on the project is underway, said Zheng Jian, chief designer of the Ministry of Railways. As of now, this is the only new maglev line in China's medium- and long-term railway development plan.

"As the extension of the maglev line connecting Pudong Airport with Shanghai's downtown area, the Shanghai-Hangzhou maglev line will promote the integration of Shanghai and Hangzhou and create a one-hour economic circle. After it is put into operation, the line will help tap idle assets and improve resource allocation between Shanghai and Hangzhou," said Sun Zhang, of the Institute of Railway & Urban Rail Transit at Tongji University.

The Shanghai-Hangzhou maglev line will allow trains to run at speeds of 400 kilometers per hour.

The project mainly adopts technologies imported from Germany, while some of the related technologies are now being developed by China. So far, a maglev train model completely designed and manufactured by China has made its debut in Beijing, and trial railways have been built in Changsha and Tangshan, with 30,000 km of safe operation.

Bangladesh, China To Strengthen Ties

March 15—Bangladesh Prime Minister Sheikh Hasina will embark on a landmark visit to China this week to boost bilateral ties, notably economic and technical cooperation. Coming soon after her successful visit to India in January, she leaves for her five-day tour on March 18. The

two countries are expected to sign at least three economic treaties.

On top of the agenda when Hasina meets Prime Minister Wen Jiabao on March 18 will be securing Chinese assistance to develop the \$8.7 billion port in Chittagong. "It will be a great achievement if China agrees to use our Chittagong port, which we want to develop into a regional commercial hub by building a deep-sea port in the Bay of Bengal," said Bangladesh Foreign Minister Dipu Moni, in Dhaka on March 14.

The two countries are also expected to step up plans to build road and railway links from Kunming, in China's southwestern Yunnan province, to Chittagong, which will give China greater access to the Bay of Bengal port. The two countries are expected to sign at least three deals this week, including for a fertilizer factory in Bangladesh, and the seventh Chinese-assisted bridge construction in the country. Chinese companies are expected to clinch deals on oil exploration access off the coast of Bangladesh.

Russia Considers Nuclear Fuel Production in India

March 15—Sergei Kiriyyenko, the head of Russia's Rosatom nuclear power agency, said that "a project to build a factory in India for the production of nuclear fuel is under consideration." This follows Russian Prime Minister Vladimir Putin's March 11-12 visit to India. The possibility of setting up a nuclear fuel facility in India is envisaged in the Inter-Government Agreement on Cooperation in the use of Atomic Energy for Peaceful Purpose, signed on March 12 in New Delhi. The accord is also understood to provide for the reprocessing of spent nuclear fuel in India, under international safeguards.

India may also take up the Russian offer to participate in an international nuclear fuel enrichment center at Angarsk, Siberia, RIA Novosti reported. The Angarsk reactor will be used for developing thorium-bred U-233 fuel for the next gen-

eration of India's reactors. India has abundant thorium.

India's nuclear fuel manufacturing unit, the Nuclear Fuel Complex, was established in 1971, for the supply of nuclear fuel bundles and reactor core components.

Since India does not have sufficient natural uranium (only 0.7% fissile U-235, and the rest is U-238 and other minerals), Russia will be supplying natural uranium for India's pressurized heavy water reactors, which use natural uranium as fuel.

Korean Study Shows Green Energy Harms Environment

March 15—A new report by the Korea Environment Institute says that projects to develop renewable energy sources, including solar and wind power, are damaging the environment, despite their intent to cut CO2 emissions, a state-run think tank said yesterday, according to the daily Dong-A Ilbo.

The study reported, "A solar power plant built in Bonghwa County, North Gyeongsang Province, that will cut carbon dioxide volume [by using solar power rather than coal] will produce a smaller value [of carbon reduction] than the environmental value lost due to environmental degradation stemming from the project. Hence, 15 years of plant operation will cause \$34 million in net value losses," as measured by "cap and trade" carbon market values.

According to the report, the Bonghwa plant, which was built over thick forest measuring 1.43 million square meters (354 acres), generates 140 megawatts of electricity daily at the height of Summer. The effect of the power generated at the plant to replace that produced by fossil fuel, when calculated in the volume of carbon dioxide, is 21,728 tons. The institute then converted that volume into the cumulative gains expected from the trading of carbon emission rights, and compared the figure to the value of damaged forests due to the construction of the plant.

The Greedy, Genocidal Mafia Behind the Green Jobs Fraud

by Nancy Spannaus and Mark Bender

March 13—Almost one year after its highly useful exposé of the fascist “behaviorist” cabal playing a decisive role within the Obama Administration, *Time* magazine has released a new bombshell. This time they point the finger directly at the green genocidal mafia (as in Al Gore), which, having poured massive funding into putting Barack Obama in the White House, is reaping billions out of the Green agenda, which that mafia has convinced the Administration to put into law.

The leading figure in the *Time* story (March 15), by Michael Scherer, is one John Doerr, a Silicon Valley billionaire and business partner of Gore’s, who has given hundreds of thousands of dollars to the Democratic Party, and sits on the President’s Economic Recovery Advisory Board (that’s PERAB, nominally presided over by Paul Volcker). According to *Time*, at a November meeting of the PERAB, President Obama essentially turned the meeting over to Doerr, who is heavily invested in green technology, so that he could present his so-called “Cash for Caulkers” program, Home Star, in December—allegedly in the interest of providing jobs.

Does the Obama Administration not know that the whole idea of “green jobs” is a total fraud? That it has been documented, without doubt, that the creation of such jobs—especially in solar and wind power—costs more money, and jobs, than it produces?

Of course, it does. The “green jobs” program is simply a populist way of trying to sell a global *depopulation* program, the same agenda promoted by the now-discredited Global Warming mafia. What “entrepre-

neurs” like Doerr are doing, is profiteering off a program of genocide, which is the only possible result of their so-called energy plan.

The Fraud Exposed

A Freedom of Information Act (FOIA) request filed by the libertarian Competitive Enterprise Institute (CEI) has forced the Environmental Protection Agency to release hundreds of pages of documents, proving that they engaged in a coverup to protect the hoax they call “green jobs.” According to a CEI report by senior fellow Christopher Horner:

In March 2009, King Juan Carlos University in Madrid conducted a study of the Spanish “green jobs” scene, and concluded it was nothing more than a bubble, sucking in government subsidies, and returning virtually nothing. Specifically, the Spanish report said that Obama could expect a loss of nine jobs for every four created, a ratio of 2.2:1 in the loss column. This hit Obama hard, since he often referred to “what’s happening in Spain, Germany,” during his campaign, and afterward.

Right away, the bloggers at George Soros’s Center for American Progress went to work attacking the report, and by August 2009, the Department of Energy had produced a five-page “talking points” workaround of the Spanish report, through the National Renewable Energy Lab in Boulder, Colo. The NREL is an extension of the Energy Efficiency Renewable Energy Office, run by former Al Gore associate and CEO of the Climate Action Project, Cathy Zoi.

Then, in September 2009, the Danish think tank Cepos (Center for Political Studies) has produced a report on wind power, coming to similar conclusions: that subsidies accounted for 175-250% of the worker's average pay, and that the sector as a whole *underperformed*, in terms of "value added per employee," by about 36%, compared to the industrial average.

What upset the Obama Administration most, however, was not the truth of the charges, but that the reports might threaten the involvement of the U.S. in the scheme, which would cause the bubble to burst. The 900-page FOIA release reveals late-night phone calls, meetings, and e-mails, during September, on the issue. Rep. James Sensenbrenner (R-Wisc.) asked Zoi for clarification of several points in late September; she sent him a one-paragraph reply.

The Spanish wind market is controlled by Iberdrola Renovables (the world's largest wind power producer), which has a U.S. component, as well as a presence in 32 other countries. The head of the U.S. branch is Don Furman, who doubles as head of the "Big Wind" American Wind Energy Association.

Big Money...

Back to the *Time* exposé.

What Scherer asserts, is that the Obama Administration's green programs are basically the same phenomenon as that which came out of Vice President Dick Cheney's Energy Task Force of 2001. But, whereas Cheney's task force produced \$14 billion for "drillers and miners in 2005," "Obama's greener advisers have helped produce six times that amount, much of it for the comparatively smaller reusable energy industry."

Scherer attributes Obama's green agenda to insiders like Doerr, who sit on the PERAB board. He details the huge contributions to the Democratic Party, or to Obama's activities by these insiders, among them, Chicago billionaire Penny Pritzker, who chaired Obama's 2009 campaign finance committee; UBS's Robert Wolf; and private-equity investor Mark Gallogly. Many of those on the PERAB, he says, benefit mightily from the green job



EIRNS/Stuart Lewis

Al Gore (above) and his unsavory partner John Doerr have gotten fat off their green-energy schemes, by promoting green investments as "the biggest economic opportunity of the 21st Century."

policy they pushed. Now, Doerr and his allies are trying to push it through Congress, complete with its subsidies for green-energy providers such as Silver Spring Networks, and iControl, both Doerr interests.

...And Genocide

But, let's look at the larger picture, the one that *Time* does not touch.

Billionaire Doerr, who made his fortune in the Silicon Valley dot-coms, is in a close partnership with Al Gore. They agree on blood-sucking for profit, defining green investments as the "biggest economic opportunity of the 21st Century." While their alliance began in the political arena, it became a business interest by no later than 2007, when they began to serve on

each others' boards.

In November 2007, Gore joined the board of Doerr's California company, Kleiner Perkins Caulfield & Byers (KPCB); and Doerr joined the International Advisory Board of Gore's London company, Generation Investment Management. KPCB and Generation are partners in numerous investment initiatives, and Doerr co-sponsors Gore's Alliance for Climate Protection.

Neither Gore nor Doerr are important as individuals: They are simply tools for the Genocide Lobby which has been created by the British oligarchy over centuries. Today's leading spokesman for this anti-human bunch—which claims that it is *people* who must be eliminated in order to aid the environment—is Royal Consort Prince Philip, the cofounder of the World Wildlife Fund, who personally patronized Gore from the 1980s on. Other financial interests around the royal family, including the Rothschilds, have also provided significant funding for the promotion of the anti-human green ideology.

Take the World Resources Institute, a leading purveyor of the "scarce natural resources" line, which is used to suppress living standards and human life itself. Today the chairman is James A. Harmon, an American who is a senior advisor to the Rothschild Group in London. Doerr's partner Gore is also on the board of World Resources Institute, which pushes his Global Warming hoax, among other projects.

Rogue State, or Hub for Asian Development?

by Mike Billington

March 13—North Korea has taken steps over the past months to fully open up its northeastern port city of Rajin, about 50 km from both the Russian and Chinese borders, to international investment and trade, extending potentially to Japan, the United States, and the world at large. North Korea has been the single gap in the expansive regional development perspective initiated by Russia and China during their historic October 2009 agreement to utilize Chinese dollar reserves and rail technology, together with Russian scientific capacities, in the development of the resource-rich Russian Far East. South Korea, which has recently emerged as a significant nuclear power exporter, has also approached Russia with proposals for using Korean technology and engineering capacities in opening up Russia's Far East. Now, North Korea is moving to integrate itself into this world-historic transformation of the world's greatest "new frontier" for global development.

North Korea recently granted Russia a 50-year contract to utilize the northeastern port city of Rajin (**Figure 1**), and agreed with China to extend for a second ten years, a lease for a pier in Rajin, granted in 2008. China's northeastern provinces of Jilin and Heilongjiang have been blocked from the Sea of Japan by this short Korea/Russia border area since the 1895 Sino-Japanese war, in which Japan expelled China from the Korean Peninsula.

The new China is anxious to move its industrial and raw material exports from the northeast, through the nearest available port—Rajin—while Russia wants to extend the Trans-Siberian Railway down into the Korean peninsula. Both countries are developing their leased port facilities in Rajin, while upgrading the long-decayed transport connections from their own territory into the North Korean port. Russia is upgrading the rail connections between Vladivostok and Rajin, while China is building a modern road from

Rajin to Hunchun in the Korean Autonomous region of China's Jilin Province.

The "Four Power Agreement" among Russia, China, India, and the United States, proposed by Lyndon LaRouche as the necessary power bloc to create a new global credit system to replace the crumbling monetary system, could have access to virtually all of Asia as a development frontier, if the North Korean crisis, and related problems in Myanmar, were solved on the basis of such infrastructural development projects for the entire region.

Twice before, in 1991 and 1996, the nations of the region attempted to initiate development cooperation in this area, known as the Tumen River Area Development Project. The project also included Japan, which sees the region as a gateway to the huge development potential in the Russian Far East, and a transport link to the Trans-Siberian Railroad connection to Europe. These previous efforts failed, as China had not yet emerged as a major productive power in the world economy, and Russia had neglected the development of its own Far East. With the focus of world development now shifting to the Pacific, as the Atlantic powers engage in a paroxysm of self-destruction, the Tumen River region has taken on a dramatic new potential.

Korean Unification

South Korea is also directly involved in these new developments, signing an agreement in January to invest in a food-processing joint venture in Rajin with a North Korean company, employing 200 North Koreans. This is the first joint venture investment in the North by a South Korean company, and the first South Korean business venture of any kind outside of the Kaesong Industrial Park and the Kumgang Mountain tourist site, both on the North Korean side of the demilitarized zone separating the North and South.

Before the Bush-Cheney Administration sabotaged the significant moves towards peace and development on the Korean Peninsula, initiated by the Clinton Administration, the divided Korean nation was moving rapidly toward integrating the vastly divergent economies of North and South, primarily by rebuilding the rail connections which had been cut since the Korean War in the 1950s. While that process is now on hold, South Korea is interested in finding a way to ship goods by sea to the North Korean Rajin port, and from there, link to the Trans-Siberian Railway to reach markets in

FIGURE 1

Tumen River Development Region

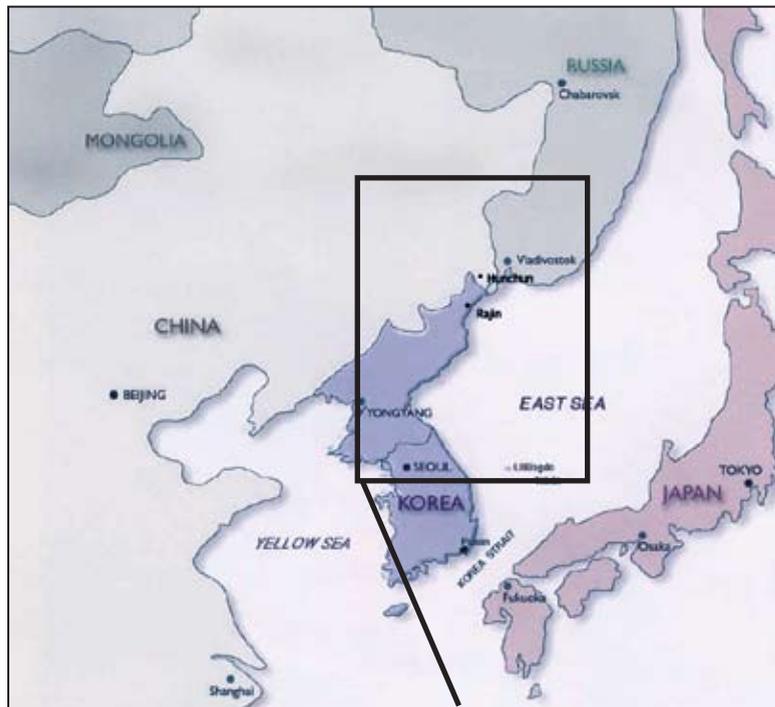


FIGURE 1a
Tumen River



Europe, as well as to facilitate South Korean cooperation in the development of the Russian Far East.

South Korean President Lee Myung-bak visited Moscow in September 2008, laying the basis for utilizing South Korean expertise in transportation and energy to develop the Russian Far East, and for building pipelines and rail connections between Russia and South Korea—which, of course, means building them through North Korea, requiring an end to the hermetically sealed division of Korea, a legacy of the British-instigated Cold War.

U.S. Involvement?

The United States, meanwhile, is engaging North Korea through diplomatic means, trying to re-start the Six Party talks, aimed at getting Pyongyang to give up its nuclear weapons program in exchange for economic aid and investment, and a peace treaty to officially end the Korean War, which concluded with an armistice in 1953. But, until then, the U.S. is standing behind the foolish UN sanctions against new investments in North Korea. Asked about these sanctions, a Chinese Foreign Ministry spokesman said, on Feb. 25, that its business investments in North Korea are “normal business deals,” and therefore do not run counter to the UN sanctions.

Speaking of the North Korean situation at the Summit of Honor on Atoms for Peace and Environment (SHAPE) in Seoul, on March 12, Mohamed ElBaradei, the retired head of the International Atomic Energy Agency, said, “The issue involves North Korea’s insecurity and need for economic development, and in order for headway to be made, the world should address both these issues.” He said that only by alleviating concerns that Pyongyang will not be attacked or be subject to regime change can there be progress.

Scott Snyder, head of the Center for U.S.-Korea Policy at the Asia Foundation, and Jack Pritchard, president of the Korea Economic Institute and former U.S. special representative to North Korea, visited North Korea in November. While still cautious about improving Washington-Pyongyang relations, Snyder noted that following North Korean leader Kim Jong-il’s visit to Rajin in January, the local leadership has been replaced by people with experience in international relations, headed by the former minister of trade, and that a \$10 billion Taepung International Investment Group has been established to finance investments in food, rail, roads, ports, and power supply. Will the United States engage with its Eurasian allies, to develop the next great frontier on Earth?

mobeir@aol.com

Obama's March of Folly

In what Lyndon LaRouche characterized as another “signal piece” on the fall of President Obama, veteran Democratic pollsters Patrick Caddell and Douglas Schoen wrote an op-ed published in the March 12 *Washington Post*, which was entitled “Democrats’ Blind Ambition: Health-Reform Push Could Spell Doom for the Party Come November.” The President’s determination to push ahead on his wildly unpopular health bill, they say, is creating the risk of “unmitigated disaster.”

What Caddell and Schoen are saying out loud, is what numerous senior members of the Democratic Party, and the broader institution of the Presidency, are saying behind closed doors: This narcissistic President is not only destroying himself politically, but he’s destroying the country.

By doing so, the President is simply hastening the day when he will get a message from those very patriots: Either resign, or else.

Obama’s new health jihad is only further ripping apart the government, and the nation. First, the President is demanding that House Democrats roll over and pass the hated Senate health-care bill—on the basis of trusting that the Senate will amend their bill later, to the House’s liking. As numerous House members have said, such a procedure is not a leap of faith, but a leap into the abyss.

Second, the President is constantly lecturing the House Democrats that they have to do what he demands, no matter whether it means committing political suicide or not. This attitude, in addition to concrete measures being taken by the White House to get Congress in line, including encouraging the resignation or demotion of Members of Congress considered to be “problems,” is leading

to a virtual state of war between the Hill and the White House. The fact that New York Democratic Reps. Charles Rangel and Eric Massa, now hit with “ethics” problems, were both strong opponents of the President’s Hitlerian IMAC board to oversee rationing of health care, has not been lost on the Congress.

Lastly, the President’s renewed campaign to push through his health bill is further goading the American population, already in a mass-strike mode, into a state of fury, as they realize that he could not care less about the disastrous collapse in their standard of living, including job losses and home foreclosures—and about the fact that the majority of the American people outright reject his health reform scheme. Indeed, after Obama’s March 8 public appearance on health, his negative rating (the difference between strong disapproval and strong approval) fell to its lowest level, minus 21. The last time it hit such a low mark, was just after the Senate Democrats rammed through the health bill on Christmas Eve 2009.

The President’s every action is digging the political graves for himself and Democrats who spurn their constituencies to follow him. And if you doubt that London is egging him on, read the headline of the March 15 lead editorial in the *Financial Times*: “The Democrats’ healthcare choice; passing reform will cost some of them their seats. So be it.”

The British, as is their wont, are simply using their puppet Obama to get their fascist austerity plan through. They don’t care if Obama is destroyed in the process. In fact, Obama can’t win, but the American people can lose, if they don’t mobilize behind Lyndon LaRouche’s leadership for impeachment, in the immediate weeks ahead.

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- BCAT.TV/BCAT Click BCAT-2 4th Fri: 10 am (Eastern Time)
- LAROCHEPUB.COM Click *LaRouche's Writings*. (Avail. 24/7)
- LA36.ORG Click on The LaRouche Connection. Select desired show.
- MNN.ORG Click *Watch Ch.57* Fri: 2:30 a.m. (Eastern Time)
- QUOTE-UNQUOTE.COM Click on Ch.27. Tue. 6 pm (Mtn.)
- SCAN-TV.ORG Click *Scan on the Web (Pacific Time)*. Ch.23: Wed. 7 am Ch.77: Mon. 11 am
- WUWF.ORG Click *Watch WUWF-TV*. Last Mon 4:30-5 pm (Eastern)

INTERNATIONAL

THE PHILIPPINES

- MANILA Ch.3: Tue 9:30 pm

ALABAMA

- UNIONTOWN GY Ch.2: Wed, Thu, Fri: 6 am

ALASKA

- ANCHORAGE GCI Ch.12: Thu 10 pm

CALIFORNIA

- CONTRA COSTA CC Ch.26: 2nd Tue 7 pm
- COSTA MESA TW Ch.35: Thu 5:30 pm
- LANCASTER/PALMDALE TW Ch.36: Sun 1 pm
- ORANGE COUNTY TW Ch.95/97/98: Mon 3 pm
- SAN FRANCISCO CC Ch.29: 2nd & 4th Sat 9 pm

COLORADO

- DENVER CC Ch.56 Sun 10 am

CONNECTICUT

- GROTON CC Ch.12: Mon 5 pm
- NEW HAVEN CC Ch.27: Mon & Wed: 6 am; Sat: 6 pm
- NEWTOWN CH Ch.21: Mon 12:30 pm; Tue: 6 pm
- NORWICH CC Ch.14: Tue 8 pm
- SEYMOUR CC Ch.10: Tue 10 pm

DISTRICT OF COLUMBIA

- WASHINGTON CC Ch.95 & RCN Ch.10: Irregular

FLORIDA

- ESCAMBIA COUNTY CX Ch.4: Last Sat 4:30 pm

ILLINOIS

- CHICAGO CC./RCN/WOW Ch.21: Irregular
- PEORIA COUNTY IN Ch.22: Sun 7:30 pm
- QUAD CITIES MC Ch.19: Thu 11 pm
- ROCKFORD CC Ch.17 Wed 9 pm

IOWA

- QUAD CITIES MC Ch.19: Thu 11 pm

KENTUCKY

- BOONE/KENTON COUNTIES IN Ch.21: Sun & Tue: Midnight
- JEFFERSON COUNTY IN Ch.98: Fri 2-2:30 pm

LOUISIANA

- ORLEANS PARISH CX Ch.78: Sun 11 pm; Mon 5 pm; Tue 4 pm; Thu 12:30 pm; Fri 12:30 am

MAINE

- PORTLAND TW Ch.2: Tue 10 pm; Thu 1 am; Sat Noon

MARYLAND

- ANNE ARUNDEL CC Ch.99; FIOS Ch.42: Tue & Thu: 10 am; Fri & Sat: midnight
- P.G. COUNTY CC Ch.76 & FIOS Ch.42: Mon 10:30 pm, Thu 11:30 am

MASSACHUSETTS

- CAMBRIDGE CC Ch.10: Tue 2:30 pm; Fri 10:30 am
- FRANKLIN COUNTY (NE) CC Ch.17: Sun 8 pm; Wed 9 pm; Sat 4 pm
- GREAT FALLS CC Ch.17: Irregular
- QUINCY CC Ch.8: Pop-ins.
- WALPOLE CC Ch.8: Tue 1 pm

MICHIGAN

- BYRON CENTER CC Ch.25: Mon 1 & 6 pm
- KENT COUNTY CC Ch.25: Mon 6:30 am
- KENT COUNTY (South) CC Ch.25: Wed 9:30 am
- LAKE ORION CC Ch.10: Irregular
- LANSING CC Ch.16: Fri Noon
- LIVONIA BH Ch.12: Thu 3 pm
- MT. PLEASANT CH Ch.3: Tue 7 am
- SHELBY TWP CC Ch.20, WOW Ch.18, UV Ch.99: Mon 11 pm
- WAYNE COUNTY CC Ch.16/18: Mon 6-8 pm

MINNESOTA

- ALBANY AMTC Ch.13: Tue & Thu: 7:30 pm
- CAMBRIDGE US Ch.10: Wed 6 pm
- COLD SPRING US Ch. 10: Wed 6 pm
- COLUMBIA HEIGHTS CC Ch.15: Tue 9 pm
- DULUTH CH Ch.16: Irregular. Ch.29: Wed Midnight; Fri 1 pm
- MARSHALL Knology Ch.67: & CH Ch.35/8: Sat. 8:30 am
- MINNEAPOLIS CC Ch.16: Tue 11 pm
- MINNEAPOLIS (N. Burbs) CC Ch.15: Thu 11 am & 6 pm
- NEW ULM CC Ch.14 & NUT Ch.3: Sun 6 am, Tue 9 pm
- PROCTOR MC Ch.7: Tue after 5 pm.
- ST. CLOUD CH Ch.12: Mon 5 pm
- ST. CROIX VALLEY CC Ch.14: Thu 1 & 7 pm; Fri 9 am
- ST. PAUL CC Ch.15: Wed 9:30 pm
- ST. PUAL (N.Burbs) CC Ch.21: Mon 7 pm, Tue 3 am & 11 am.

- ST. PAUL (S&W Burbs) CC Ch.15: Mon, Wed, Fri 9 am
- SAULK CENTRE SCTV Ch.19: Sat 5 pm
- WASHINGTON COUNTY (South) CC Ch.14: Thu 8 pm

NEVADA

- BOULDER CITY CH Ch.2: 2x/day: am & pm
- WASHOE COUNTY CH Ch.16: Thu 9 pm

NEW HAMPSHIRE

- CHESTERFIELD CC Ch.8: Wed 8 pm
- MANCHESTER CC Ch.23: Thu 4:30 pm

NEW JERSEY

- BERGEN CTY TW Ch.572: Mon & Thu 11 am; Wed & Fri 10:30 pm
- MERCER COUNTY CC Trenton Ch.26: Irregular
- WINDSOR Ch.27: Irregular
- MONTVALE/MAHWAH CV Ch.76: Mon 5 pm
- PISCATAWAY FIOS TV Ch.40, CV Ch.15: Thu 11:30 pm
- UNION CC Ch.26: Irregular

NEW MEXICO

- BERNALILLO COUNTY CC Ch.27: Tue 2 pm
- LOS ALAMOS CC Ch.8: Wed 10 pm
- SANTA FE CC Ch.16: Thu 9 pm; Sat 6:30 pm
- SILVER CITY CC Ch.17: Daily 8-10 pm
- TAOS CC Ch.2: Sat: 10 pm

NEW YORK

- ALBANY TW Ch.18: Wed 5 pm.
- BETHLEHEM TW Ch.18: Tue 6 am
- BRONX CV Ch.70: Wed 7:30 am
- BROOKLYN 4th Friday: CV Ch.67: 10-10:30 am TW Ch.34: 10-10:30 am RCN Ch.82:10-10:30 am FIOS Ch.42:10-10:30 am
- BUFFALO TW Ch.20: Wed & Fri 10:30-11pm
- CHEMUNG/STEUEN TW Ch.1/99: Tue 7:30 pm
- ERIE COUNTY TW Ch.20: Thu 10:35 pm
- IRONDEQUOIT TW Ch.15: Sun 10 am
- JEFFERSON/LEWIS COUNTIES TW Ch.99: Irregular
- MANHATTAN TW, RCN Ch.57/85, Verizon FIOS-TV Ch.35: Fri 2:30 am
- ONEIDA COUNTY TW Ch.99: Thu 8 or 9 pm
- PENFIELD TW Ch.15: Sun & Tue
- QUEENS: 4th Sat monthly 2 pm TW Ch.56, RCN Ch.85, Verizon FIOS-TV Ch.36
- QUEENSBURY TW Ch.18: Mon 7 pm
- ROCHESTER TW Ch.15: Irregular
- ROCKLAND CV Ch.76: Mon 6 pm

- SCHENECTADY TW Ch.16: Fri 1 pm; Sat 1:30 am
- STATEN ISLAND TW Ch.35: Tue 8:30 am & Midnight
- TRI-LAKES TW Ch.2: Sun 7 am, 1 pm, 8 pm
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- WEST SENECA TW Ch.20: Thu 10:30 pm

NORTH CAROLINA

- HICKORY CH Ch.6: Tue 10 pm
- MECKLENBURG COUNTY TW Ch.22: Fri 12:30 am

OHIO

- AMHERST TW Ch.95: Daily Noon & 2 pm
- OBERLIN Cable Co-Op Ch.9: Thu 8 pm

PENNSYLVANIA

- PITTSBURGH CC Ch.21: Irregular

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- BRISTOL, BARRINGTON, WARREN Full Channel Ch.49: Tue: 10 am
- EAST PROVIDENCE CX Ch.18; FIOS Ch.24: Tue: 6 pm
- STATEWIDE RI INTERCONNECT CX Ch.13; FIOS Ch.32 Tue 10 am

TEXAS

- HOUSTON CC Ch.17 & TV Max Ch.95: Wed 5:30 pm; Sat 9 am
- KINGWOOD CB Ch.98: Wed 5:30 pm; Sat 9 am

VERMONT

- BRATTLEBORO CC & SVC Ch.8: Mon 6 pm, Tue 4:30 pm, Wed 8 pm
- GREATER FALLS CC Ch.10: Mon/Wed/Fri 1 pm

VIRGINIA

- ALBEMARLE COUNTY CC Ch.13: Sun 4 am; Fri 3 pm
- ARLINGTON CC Ch.69 & FIOS Ch.38: Tue 9 am
- CHESTERFIELD COUNTY CC Ch.17; FIOS Ch.27: Mon 1 pm
- FAIRFAX CX & FIOS Ch.10: 1st & 2nd Wed 1 pm; Fri 10 am; Sun 4 am. FIOS Ch.41: Wed 6 pm
- LOUDOUN COUNTY CC Ch.98 & FIOS Ch.41: Wed 6 pm
- ROANOKE COUNTY CX Ch.78: Tue 7 pm; Thu 2 pm

WASHINGTON

- KING COUNTY CC Ch.77: Mon Noon BS Ch.23: Mon Noon
- TRI CITIES CH Ch.13/99: Mon 7 pm; Thu 9 pm

WISCONSIN

- MARATHON COUNTY CH Ch.98: Thu 9:30 pm; Fri Noon
- MUSKEGO TW Ch.14: Sun 7 am, Mon & Thu: 5:30 pm
- SUPERIOR CH & MC Ch.7: Tue after 5 pm.

WYOMING

- GILLETTE BR Ch.31: Tue 7

MSO Codes: AS=Astound; BD=Beld; BR=Bresnan; BH=BrightHouse; BS = Broadstripe; CV=Cablevision; CB=Cebridge; CH=Charter; CC=Comcast; CX=Cox; GY=Galaxy; IN=Insight; MC=MediaCom; NUT=New Ulm Telecom; SVC=Southern Vermont Cable; TW=TimeWarner; US=US Cable; UV=AT&T U-Verse; FIOS=Verizon FIOS-TV.

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