

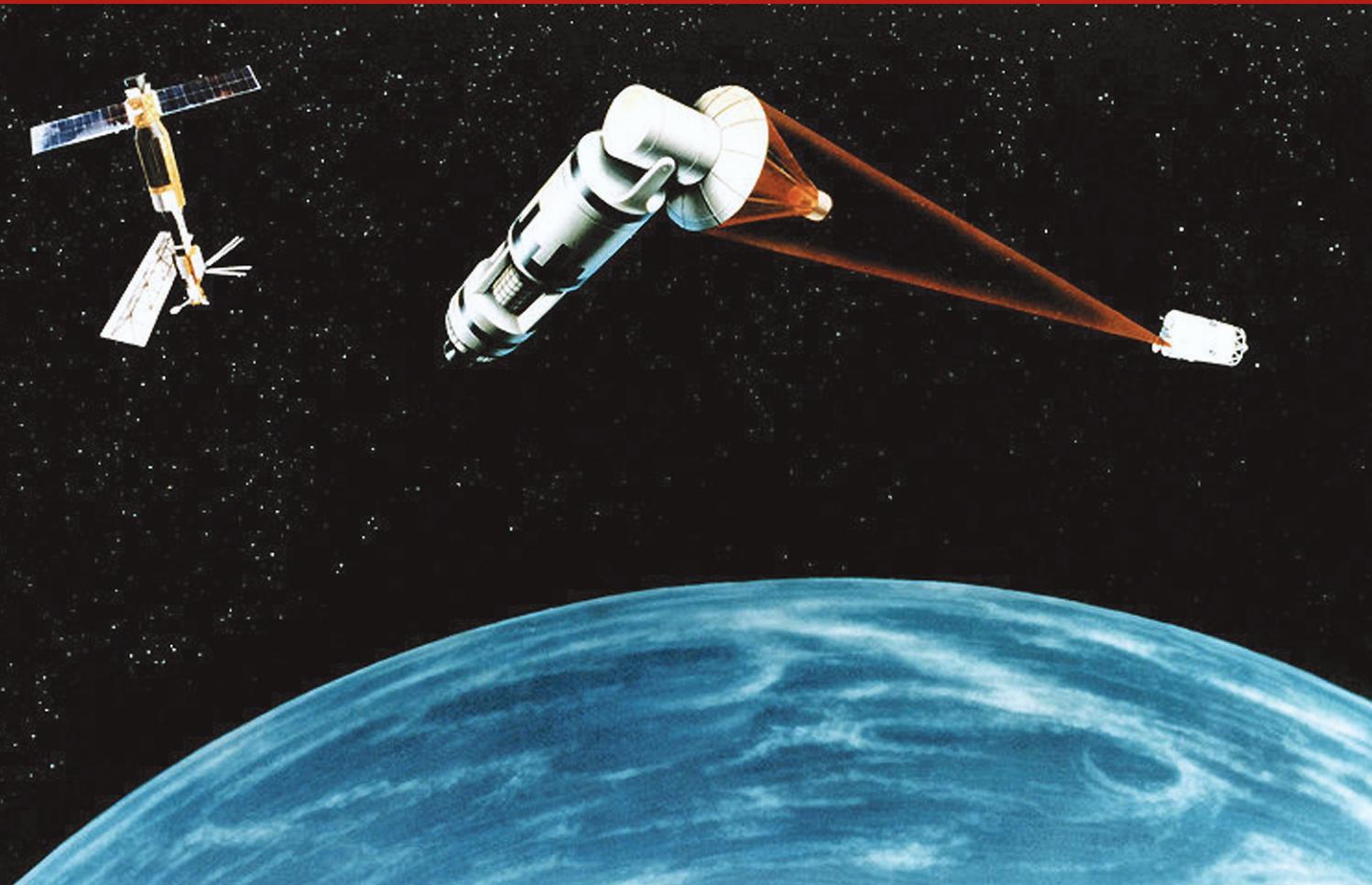
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Zepp-LaRouche: The Fuse for World War III Is Lit!
Russia's Victor Ivanov on the Right War To Fight
Basement Team: What Is the Universe, That You Exist?

**A World at Its Wits' End:
The End of the World's Wars!**



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EIR

From the Managing Editor

Our cover painting of a space-based laser defense system will seem to many to illustrate the *threat* of world war. But contrary to 28 years of propaganda to the effect that the U.S. Strategic Defense Initiative (SDI) was a “Star Wars” policy, it was in fact conceived by Lyndon LaRouche, and understood by the President Reagan who announced it, as a *peace* doctrine. The idea was for the Soviet Union and the United States to cooperate, scientifically and economically, in research on the most advanced technologies, to safeguard both nations, while providing a “science driver” for both staggering economies. Moscow’s rejection of the plan meant that the Soviet economy was the first to collapse. And the SDI’s capture in the U.S. by the lunatic opponents of LaRouche’s conception meant that we continued the free trade and globalization policies that have now brought on the greatest financial crisis in history.

LaRouche’s *Strategic Overview* this week develops both his original role in the SDI, and the war-avoidance policies required today, even as we are at the brink of possible thermonuclear war.

Helga Zepp-LaRouche reports the Russians’ response to the British/Obama war policies, with documentation including the full text of Russian President Dmitri Medvedev’s Nov. 23 Address to the Nation. It is significant that this time around, the Russians are *supporting* cooperation with the U.S. for mutual anti-ballistic missile defense; but Obama wants none of it. Medvedev and other Russian spokesmen are bluntly enunciating the high stakes involved.

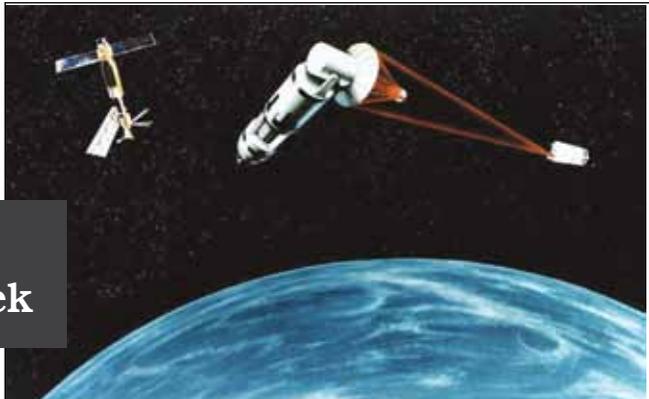
LaRouche’s long efforts to effect U.S.-Russian cooperation have borne fruit in many ways, as shown elsewhere in this issue. Don’t miss the extraordinary speech by Victor Ivanov, the head of Russia’s anti-drug office, in which he nails the role of drug-money laundering in propping up the global financial system. And in *International*, you will find a video interview with LaRouche by scientific “Basement Team” leader Sky Shields, produced for a conference at the university of the Russian Foreign Ministry.

That Basement Team has launched a new initiative, webcast Town Hall meetings on their breakthrough scientific work. We bring you the opening presentations of the first one, featuring Peter Martinson and Cody Jones.



Cover This Week

*An artist's
concept of a
Space Laser
Satellite Defense
System*



Wikimedia Commons

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“The operation which the British are setting into motion at this time, is not only ‘a new Seven Years War’!,” Lyndon LaRouche writes. “It is the intention to launch a virtually global thermonuclear war in the immediate time ahead. How many silly fools are going to fall for this criminal scheme of Britain and its puppet, President Barack Obama? It probably would be the immediate unleashing of a thermonuclear ‘Armageddon,’ a thermonuclear world war set off in what is called ‘The Holy Land.’” LaRouche’s late-1970s proposal for a joint U.S.-Soviet “beam weapon defense” based on new physical principles became President Reagan’s 1983 “Strategic Defense Initiative.” But the SDI was shot down by British agent Andropov, and the world has been paying the price ever since.

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LaRouchePAC-TV's first-ever webcast Town Hall event featuring "Basement Team" scientific researchers, Peter Martinson and Cody Jones.

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A WORLD AT ITS WITS' END:

The End of the World's Wars!

Lyndon H. LaRouche, Jr.

November 22, 2011

A crucial reflection:

The end of the nations' wars, or the end of man? "That," dear Shakespeare, "is the question!"

The operation which the British are setting into motion at this time, is not only "a new Seven Years War"! It is the intention to launch a virtually global thermonuclear war in the immediate time ahead. How many silly fools are going to fall for this criminal scheme of Britain and its puppet, President Barack Obama? It probably would be the immediate unleashing of a thermonuclear "Armageddon," a thermonuclear world war set off in what is called "The Holy Land."

In 1983, when the Soviet Union's Yuri Andropov had foolishly rejected U.S. President Ronald Reagan's proffer of a Strategic Defense Initiative (SDI), I warned, that if Moscow continued to reject the SDI proffer, the Soviet system would collapse in "about five years." It did, exactly as I had warned repeatedly in a message by me, as presented by U.S. President Ronald Reagan, and that not once, but twice.

So about five years after Andropov's rejection of the SDI, the Soviet system's East Germany partner, the German Democratic Republic (DDR), collapsed, and, immediately following that, the Soviet-linked eastern European partners, fell, too. Then, promptly, came the collapse of the Soviet Union itself.

On the record, in fact, since Summer 1956, I am not given to uttering forecasts which are not proven to be true, and that in a timely fashion.

Amid those current developments then in progress, there was a deadly threat against Germany's Chancellor Helmut Kohl, from an array led by British Prime Minister Margaret Thatcher's London, joined by France's President François Mitterrand, and U.S. President George H.W. Bush. The terms were, that all of the nations of western and central continental Europe must agree to give up their national sovereignties, to become colonies of London's hellish British Empire.

Those threats delivered against Germany's Chancellor Kohl succeeded. The nations of western and central Europe have now lost their former sovereignties (at least temporarily), and almost the entirety of the trans-Atlantic world, excepting a few nations there, are in a threatened state, and have been on the verge of toppling into the deepest and widest collapse since Europe's Fourteenth-century "New Dark Age."

Actually, that virtual threat of war against the Germany of Chancellor Helmut Kohl, was the threat which was attributed to the regime of Britain's "puppet on money strings," President François Mitterrand, a threat which misled Europe into the choice of either the end of Europe's "world wars," or, the end of Europe, or, as we should recognize today, a combination of both. The effects of what would be the only kind of general warfare which remained possible after the rejection of U.S.



Ronald Reagan Library

President Ronald Reagan announces the Strategic Defense Initiative, March 23, 1983. The program, as Lyndon LaRouche defined it, would have ushered in cooperation between Russia and the United States in their mutual defense, but Moscow foolishly rejected it. The Soviet Union's collapse came in "about five years," as LaRouche had warned it would.

President Ronald Reagan's proffer of a thermonuclear defense option, were to become the end of civilization. Should we call it "Armageddon"?

Think back! Had the proposed action by President Ronald Reagan not been blocked, as that was done through London's accomplices sitting in Moscow offices at that time, the problems which so much of the world has suffered for so long, since that time, would have been already buried in the past. Instead, certain ruinous developments have taken over the world's current affairs, especially so in the trans-Atlantic regions. So far, the U.S.A., in particular, has never recovered from the effects of the sudden and deep 1987 recession. At the same time, a virtually dying continental western and central Europe, have given up their sovereignties for the sake of becoming a set of puppet colonies of the British empire under a system of internal chaos called "governance."

So, ever since 1989-1991, the price of peace in continental western and central Europe, has remained submission to the imposition of a doomed arrangement which was to become known as the presently inherently bankrupt "Euro" scheme of what has been named "governance." That aspect of European developments, when combined with the blocking of my July-August 2007

launching of my proposed U.S. Homeowners and Bank Protection Act, had turned out, in the end, to have been the presently onrushing, hyperinflationary threat of the doom of nations on both sides of the Atlantic. The resulting, endlessly hyperinflationary pile-up of worthless, U.S. self-hyper-inflated debts, is one which neither would, nor could be paid for as long as the British empire's maddened, current puppet, President Barack Obama, remained in power.

A Threat of World War

These issues had already been the set of options which I had foreseen and forecast since Summer and Autumn 1977, onward, options which had been the basis for my personal role in initiating a design for "a strategic nuclear defense" option. From that time through 1983, and im-

PLICITLY beyond, any warfare involving the U.S.A. and Soviet Union, or Russia now, would be implicitly premised on a thermonuclear option. Such a war, if it came to that, would be the end of civilization as we had known it. That remains the essential background for the menacing state of world affairs presently.

The alternative to the policies of the British imperial puppet-President Barack Obama's remaining in power, is composed, largely, of the following two leading elements of an urgently needed, global strategic policy.

First, now that the British empire has brought the world as a whole onto the thermonuclear verge of World War III, the British empire, although not a sovereign United Kingdom, must be dissolved in fact, that for the benefit of all sane persons concerned. This health-giving benefit must be accomplished through an economic recovery effected through a general reorganization of what is presently, a hopeless, hyper-inflationary bankruptcy of the present configuration of most of the present trans-Atlantic region. The present, London-coordinated monetarist system must therefore be terminated, together with London's American puppet, the Wall Street merchant-banking elements. The present, London-centered submission of the United States, must be ended abruptly, now, by two combined measures, mea-

asures which provide the indispensable reform represented by a U.S.A.-initiated credit system. The new system must replace the present, London-coordinated, implicitly imperialist's, monetarist system.

The Remedies at Hand

There can be a prompt, relatively immediate measure for the successful attempt at a general economic recovery from the presently hopeless condition of the trans-Atlantic monetary system of collapse. The remedy for the present bankruptcy of that trans-Atlantic monetarist system, requires the establishment of a fixed-exchange-rate credit system, rather than a continuation of any kind of monetarist system. The bankruptcy of the trans-Atlantic monetarist system, is now virtually absolute; that present system can not be sustained in any fashion within its present forms.

At present, the trans-Atlantic monetarist system has reached a degree of absolutely hopeless bankruptcy, such that most of the financial debt of the trans-Atlantic system must be effectively cancelled as a matter of essential, emergency pre-conditions for the possible survival of the indicated nations of the trans-Atlantic system. This corrective measure requires the following sequence of remedial actions. Those actions, if taken as prescribed here now, will be the indispensable immediate reforms without which no physical-economic recovery of those regions of the planet could survive.

FIRST: The Glass-Steagall Law introduced by former U.S. President Franklin D. Roosevelt in 1933, must be reawakened throughout the relevant nations of the trans-Atlantic region, and beyond. The total segregation of merchant banking accounts from commercial banking and kindred accounts, must eliminate the merchant banking and equivalent accounts. This measure will summarily eliminate the great mass of speculative financial "paper" from the actual obligations of the nation and its commercial banking accounts.

Unfortunately, however, the financial means left over from the purge of gambling debts from the system, will not be sufficient to maintain a recovery of the U.S. economy (for example) from its presently ruined condition. The Glass-Steagall remedy is nonetheless indispensable; but it is not sufficient.

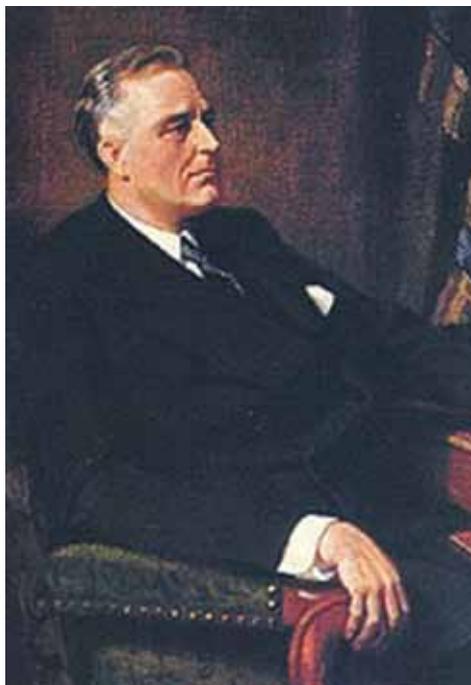
Therefore, there must be a second measure, a measure which must be instituted promptly after the Glass-Steagall measure has been installed.

SECOND: The United States must immediately act to return the nation to the original, Federal constitutional mode of a credit system, in place of a monetarist system.

The restoration of a credit system for the U.S. dollar, comes at a time, *now*, that the Federal Reserve System has been bankrupted beyond hope, by the measures fostered by Alan Greenspan since the early 1980s. For this urgently needed measure to occur, the United States must return to the original intention of our Federal Constitution, by reversing the improper actions of President Jackson, by establishing the U.S. Treasury Secretary's rescue of our young republic from an impossible condition of seemingly permanent bankruptcy, through the appropriate, actually constitutional provision, of what should be named presently as the Third National Bank of the United States.

The Third National Bank will return Federal practices to the principled, successful rules which had been established in constitutionally based practice for the First and Second National Banks. This Third National Bank will provide the mustering of Federal credit, that uttered in predetermined authorized amounts of credit provided by adopted acts of the U.S. Federal Government, a reform done according to the authorized amounts, terms, and intended use, whether as direct financing of government investment activities through the Third National Bank, or, for authorized loans to approved private enterprises.

The principles employed on behalf of that return to the original intention of the Federal Constitution, will enable us to launch a massive program of an anti-inflationary combination of greatly expanded productive



President Franklin Roosevelt

employment from the start. These measures will also provide for the protection of the presently unemployed members of a standard labor-force, aided by such urgently needed environmental improvements as the indispensable launching of great projects such as the NAWAPA program, and the indispensable mass-development of efficient, very high-speed rail and magnetic-levitation states of mass transport of passengers and freight.

The present, trans-Atlantic system of “bail-outs” must be simply obliterated as worthless trash. The proper remedies would be, as I will indicate here, relatively simple, and potentially very effective.

In other words, any attempt to continue the present trans-Atlantic set of monetary systems, such as those of the present International Monetary Fund (IMF), would have entailed the doom of civilization among the nations of that trans-Atlantic region—and, probably, beyond. In fact, so far, it has.

One of the most urgent of the sundry questions which that historical record poses still today, is: “Why did that history, since that time, persist up through the present day?” Or, we might pose a slightly different, but yet to have been adequately stated question: Why and how did the Soviet Union collapse under, in particular, the leaderships of Yuri Andropov and Mikhail Gorbachov?

I. The Role of Empire

Partly as a fruit of known evidence, mostly out of respect for a reading of the footprints left in the sands of history: we are, if we wish, enabled to know that our planet has been dominated, since societies of ancient times, by a pathological form of organization of human society known as an “oligarchical system.” That oligarchical system has been a dominant expression of a tyranny over most of the past, and still present parts of the history of mankind, over mankind as a whole still today.

The evidence, as from various parts of the planet since ancient times, is as clear as if these cases were frozen footprints in the sands of time: exactly when, or how that came to be the case, is clouded over with mystery, at least in a large degree; however, the effect is absolutely demonstrated beyond doubt.

The following pages of this report should prove to present us sufficient evidence to make the point clear.

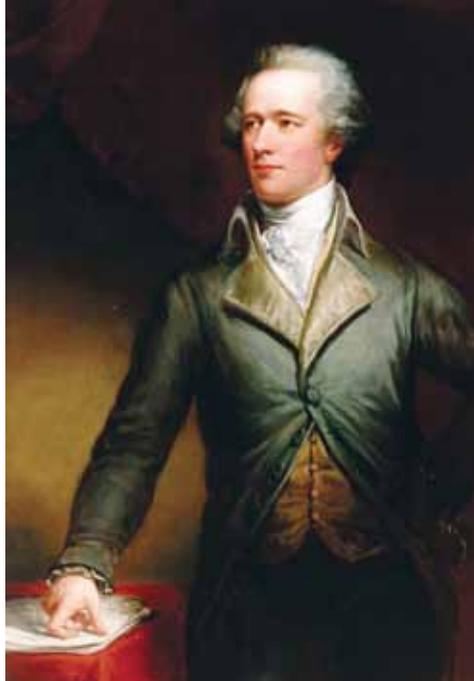
For us today, the most useful indications of the nature of the origins of this despicable arrangement, are presented in the ancient Grecian classic, most emphatically that of the histories presented to us as the legends of Homer and the insights of Aeschylus. The legends associated with the images of the evil Olympian Zeus and the heroic figure of the humanist Prometheus, are of special importance for historians, scientists and scholars of today.

Such subjects are not a matter of the mere facts of our past, as such. They provide us with the clues essential to our best attempts at a successful pre-determination of our future, and, at the least, insight into the possible pathways for discover-

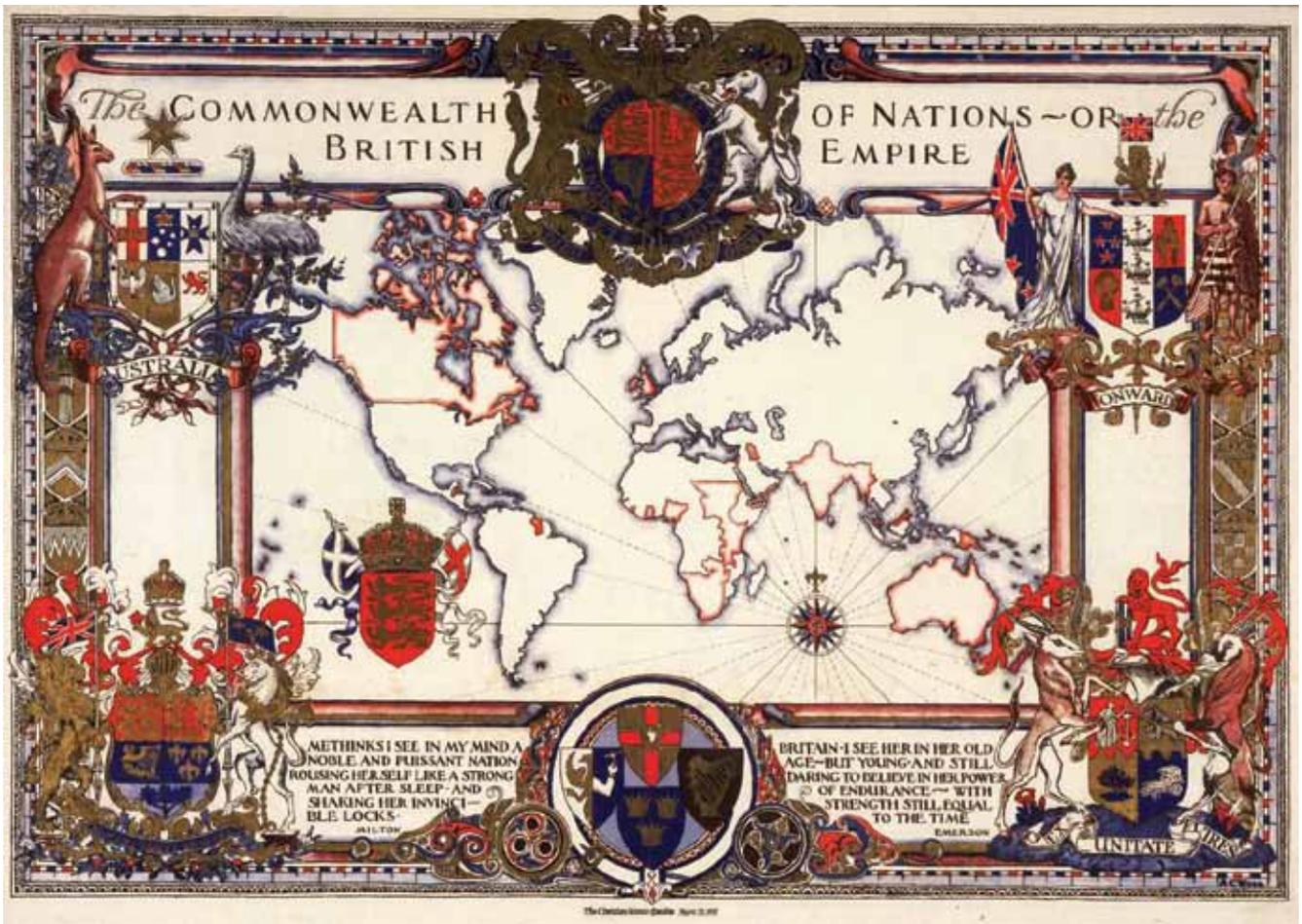
ing freedom from simple repetition of the sorrowful habits of our past.

Two contrasted subjects point us in a useful direction in our search for the actual causes of the contrasted failures and successes of sundry varieties of historically known cultures of human society thus far. To open such a discussion: for what reason did some human cultures appear to prosper, and others fail? Why did the same culture appear to advance in one stage of its existence, and fail, even catastrophically, in another, such as the greater part of the trans-Atlantic cultures presently? Any serious attempt to prove either case, rise or fall, usually leads the questioners to a hopeless state of confusion. In the end, it should have been made clear, that the fault of the questions lies in the designs of the questioners themselves.

For that purpose, let us introduce the notion of God’s viewpoint in this matter, rather than the human population’s, especially that according to the viewpoint of a



Treasury Secretary Alexander Hamilton



The British Empire in 1937 (orange borders). “The oligarchical system,” writes LaRouche, “has been a dominant expression of a tyranny over most of the past, and still present parts of the history of mankind, over mankind as a whole still today.”

ruling social stratum. Take the case of the British oligarchy for example; reflect on the following evidence.

Since the immediate aftermath of what has been named “World War II,” the British monarchy has leaned toward a reduction of the human population as a measure of national, and even global progress. Yet, the oligarchs’ efforts to maintain control over the so-called “lower classes,” requires a tendency for both reduction of productivity per capita and of the population as a whole, tendencies which impose decadence upon the productivity of national populations, except during periods during which population-size is built up as a temporary objective promoted in the interest of expending that built-up population on behalf of the purposes of killing off large portions of the forces assembled for the practice of warfare intended to check the rates of increased productivity of that population per capita and per square kilometer.

The production of usable wealth, per capita and per square kilometer of territory must increase, yet the net intention of the oligarchical rule is to hold down the quality, and actual net productivity of the subject population. Where more advanced education would mean a higher rate of productivity, the reigning oligarchy often prefers a contrary trend.

A hint of the proper answers to such questions has lately confronted us with the effects of a shift of the position of the Solar system with respect to its position within the galaxy’s arms, or like types of considerations. What is the purpose of man in this Solar system or galaxy? What is the purpose of the existence of mankind? This is of special significance for us today, when we consider the evolutionary development of life on Earth. The situation is demonstrated with far greater force when we consider the role of mankind on Earth and, implicitly, within the Solar system: the uniquely

willful quality of mankind's characteristics as contrasted to that of qualitatively inferior qualities of life.

What is the adducible optimum, especially so when we note the willful creativity of the human mind, when compared with the lack of such willfully motivated forms of creativity encountered in the animal species?

The general conclusion which erupts in response to the set of questions whose components are typified uniquely by the human species, is that all questions listed above, appear to end up as absurdities. Yet, the included behavior by sections of the human species suggests most strongly, that the failures among human cultures have been, chiefly, willfully chosen causes for catastrophic failures within sections and periods of human cultures known from experience on Earth.

There is a known factor which fits the outlines of an answer to such questions respecting the role of humanity on Earth, and, implicitly, in light of today's knowledge of this matter, which is that mankind's characteristics point toward a growing tendency for successful survival of our species.

Now, since I have teased you this far into the discussion, let us probe for the hinted answers.

II. The Principle of Physical Time

On the surface of the evidence at hand, it would still appear to most persons, even most of those with advanced scientific training presently, that the lapse of time, is as simple as watching the ticking of the hands of a common clock. In fact, there is no actual basis for such beliefs today, other than the false belief in either the notion of "clock-time," or the like; Pierre-Simon Laplace's measure of time, has been a fraud from the start. Contrary to most popular opinion, even among otherwise qualified scientists today, the still popular notions of "space" and "time" are actually, scientifically, absurd.

Not only are notions of time such as that of Laplace, absurdities in fact; that absurdity has been the proverbial, cheap and lying fraud which has been an indispensable feature of the general incompetence of the customary practice of "economics" up to the present time. All of the most terrible failures among economists and the like, can be traced, in one way or another, to belief in the use of "clock time" as a measurement to be embedded in economic measurements.

It is fairly said, that the intrinsic form of scientific incompetence among economists and related kinds of

specialists, lies in the arbitrary presumption that the notions of "space" and of "clock time" are to be regarded as "self-evident" notions of basic physical measurements for their use in both political economy and physical science generally, contrary, for example, to Albert Einstein and those who fit the category of like-minded geniuses of Twentieth-century physical science. Only a swindler such as the dupes of Bertrand Russell could regard both "space" and "clock time" as admissible elements of an actually physical science. The relevant proofs of my argument on this account, are featured aspects of two of my most recent scientific publications: the **Principle or Party** and **Obama's Armageddon End-Game**.¹

Although I have referred to aspects of the same, needed correction of related popular errors in what had been often wrongly presumed to be a scientific doctrine, the awful error of prevailing, presumed scientific practice respecting physical time (and space), reigns still in leading, presumed scientific opinion today, despite the warnings delivered by such as Max Planck and Albert Einstein. While my own principles, such as those presented in my publications identified above, have been prompted, largely, by that pair and their predecessors back to such as Heraclitus and Plato, the crux of those subject-matters had not been presented in a suitable systemic expression by anyone known to me, until that series of those three publications of mine identified above.

Actually, the first published statement of this principle was uttered by me in replies to two of the questions posed to me coming at the close of my September 30th National Broadcast.² The support for my thesis

1. Dumb Democrats!: Principle or Party? EIR No. 44, Nov. 11, 2011; or LaRouche PAC (<http://www.larouhepac.com/node/20133>), The Fall of the British Empire: Obama's Armageddon End-Game, EIR No. 46, Nov. 25, 2011; or LaRouche PAC (<http://www.larouhepac.com/node/20429>). And, also, the prelude to those both, **Glass-Steagall & Beyond: Our Credit System**, EIR, No. 43, Nov. 4, 2011; or LaRouche PAC (<http://www.larouhepac.com/node/19981>).

2. Although, I had presented some preliminary, published elements of this work to Sky Shields, months earlier. My beliefs in this matter had been referenced in some of my published work years earlier in some comments of mine on the ontological implications of Academician V.I. Vernadsky's work on chemistry. Working through the anticipated defense of a discovered principle usually does take a significant number of years of playing with the implications of an hypothetical breakthrough. Indeed, my advantage in these aspects of physical science can be traced to the middle to late 1950s on the subject of a Riemannian approach met in his 1854 habilitation dissertation, the third and concluding section of that dissertation most emphatically.

presented in reply to those two questions, from valued leading colleagues in a science of economy had been the prompting of my authorship of the three published works to which this chapter of the present report refers.

The crucial feature of those three reports from the October-November interval, was presented there as a more fulsome expression of the fact that human sense-perception is, as I emphasized in those reports, not a direct reflection of anything of actually existing substance, but more in the character of a mere shadow. In fact, to date, mankind has never had a direct perception of what qualifies as physical reality. Indeed, the most convenient approach to the actuality of the import of sense-perception requires a carefully crafted insight into the implications of Abelian functions as that latter notion was introduced by Lejeune Dirichlet and Bernhard Riemann. The putative subject-matters of sense-perception are essentially merely shadows cast, as perceptions, by an unsensed reality, from which we are enabled, through relevant scientific method, to adduce the ironical approach to subject-matters of the concluding, third section of Riemann's 1854 habilitation dissertation.³

The fact that the intimations of merely presumed sense-perceptions provide no explicit evidence of that which has cast the shadow, is not a weakness of the powers of the human mind; but, quite the contrary, is an essential provision in service of a principle of truthful knowledge, rather than mere estimated approximations, which will be readily superseded by the next important round of progress in science.

On that specific account, consider such cases as the attempt to measure the principles of, respectively, life,

3. E.g., "This leads us into the domain of another science, into the domain of physics, which the nature of today's event (i.e., mathematics), forbids us to enter."



NASA/ESA

The Hubble Space Telescope shows a group of interacting galaxies called Arp 273. Such technology has vastly expanded the range of man's sense-perception; but, LaRouche stresses, such sense-perception conveys only the shadows of reality, enabling scientists to frame hypotheses, using the methods of Riemann and Dirichlet.

and human creativity as such, as V.I. Vernadsky treats the respectively distinct principles of the Biosphere and the Noösphere. How could such "magnitudes" as those be measured as inherently substances of direct sense-perception *per se*? They exist for sense-perception only as expressing something akin to a notion of "actions," but often rather potently expressed notions of actions, rather than even hypothetical objects as such.

We are therefore, properly obliged, to treat the experienced sense of something akin to an hypothesis of action as a shadow from which we might seek to adduce a notion of what might be assumed had been that which had cast the adduced shadow.

The additional complication to be considered on this account, is the adduced effect of action in modifying what our imagination suspects might be a changed

nature of the experienced universe. To state the point in another fashion: we do not rightly seek to adduce the universe in the large from an experiencing of imagined qualities of sense-perceptions in the “extremely small” or “extremely large,” as Riemann makes that point in the concluding portion of his 1854 dissertation; it is the change in the small, especially the very small, when considered as being predicated upon the very large.

To restate the point with suitable approximation, the proper task of the human mind is to adduce the changes in the indicated principles of working design of the universe, which determine the very small (and, hence, the principles of physical time as such), rather than the suggested experience of the very small, and hence the determination of the action introduced as an hypothesis from both that very small and also the very large.

The foregoing descriptions are necessary for acquisition of the ability to practice actual science, including the discovery of the changes in experienced, apparently “physical” principle which might be generated by a sense of action of change of the composition of order in the adduced notion of a “universe.” Here, my particular discovery, my notion of a universal principle of *physical time*, comes into play. That conclusory judgment was demonstrated in essence, in my replies to the two relevant questions presented in the September 30th National Broadcast. The actual implications of that conclusion are the crucial, added matter for consideration here.

All that which I have just presented within this present chapter thus far, has been necessary preparation for the more conclusive, practical considerations which were already embedded in my replies to the two concluding questions of that September 30th occasion.

The Principle of “Action”

Insofar as practice permits us to know, the distinction of what passes, plausibly, for the individual human mind, is the non-linear reality of the human individual’s experiencing of the discovery of a principle of action as shown in experience of the experienced universe. The crucial point to be emphasized on that account, is located most clearly for our purposes here, as what are, in effect of practice, changes in the physical-principle-determined willful action by the human individual which have the effect of a qualitative change in the principle of action expressed as a change induced will-

fully to the effect of increasing society’s power to act upon the human environment being experienced.

The simplest form of expression useful for outlining such an adduced-as-physical process, is a relative increase of the power of human action per capita, as this is typified by the effect of an increase (or reversal) of energy-flux-density of effective action per capita. This model of such an effect, entails the notion of a transformation in the effective power of action for change in quality of a standard unit of action, preferably upward, per capita and per cubic meter of action per capita. This action, when treated as a rate of increase of relative energy-flux-density, that per capita and per square meter of action, defines an implied notion of *physical time*.

It is convenient to treat such willful changes in human behavior of action in its anti-entropic modes. That provides us with a convenient “first approximation” of human anti-entropy.

Man or Beast

Therefore, the appropriate distinction to be applied to the subject of man versus beast, is the willful expression of creativity which is demonstrably known as the absolute physical-principled distinction of man from beast, and both from plant-life, or the latter equivalent. For convenience, let us define this distinction as lying within the notion of the inherent uniqueness of human qualities of willfully-driven creativity.

The aforesaid prescriptions presented here thus far, have now brought us to a crucial next step of our subject of further inquiry here. Here, at this point, it is both convenient and essentially truthful, to bring in the contrasted notions of *entropy* and *anti-entropy*, as measuring-rods for the opposing notions of anti-creative and creative human behavior. It is notable that no animal is capable of principled forms of anti-entropic inventions of behavior. To make the point with actual precision, the creative potentials of the human species are expressed as action on a future quality of higher-principled action, rather than a stagnant or entropic effect.

Once we have brought this view of entropy versus anti-entropy into consideration, we are obliged to recognize the nature of the effectively degenerate trends in modes of economic behavior in the United States since the effect of the assassinations of U.S. President John F. Kennedy, and Democratic pre-candidate for President, his brother, Robert Kennedy. In fact, there has been a generally entropic decay in the trans-Atlantic regions

of Europe and North America since the interval from the onset of the post-John F. Kennedy war in Indo-China, up to the rapidly accelerated collapse of the physical economies of western Europe and North America since the Indo-China War-driven assassinations of John F. and Robert Kennedy, which is to say: during that standard model of interval for measuring the effective change in relative energy-flux density of an economy.

All of those considerations which I have outlined within this chapter this far, when taken together, define the measure of relative productivity, or decline of an economy.

The essential action of any human being, or of his or her society in general, is to be located in the relative entropy or anti-entropy as I have summarized those needed definitions here. All different approaches to measuring human productivity and/or intellectual quality of performance, are not only errors, but characteristically decadent, both physically and morally.

III. The Moral Issue

The most useful among the relevant responses to the questions implied in the unfolding of this report thus far, is indicated by examining the principal varieties of opposing types within the category of “human.” The most significant factor in defining those varieties, is both the common feature of the two types, “ordinary” versus “oligarchical.” That common feature is the potential embodied in specifically human characteristics. The essential distinction is the oligarchy’s struggle to keep the under classes suppressed by the upper classes, especially by the highest classes. The complementary distinction, is the predominant disposition by the upper classes, to herd the lower social classes as more or less bestialized lower classes, a bestialization which is more often self-imposed by the lower classes, than the upper classes needing to be fearful that the underclasses might be disposed to seek a relative intellectual freedom for itself.

Our attention in such matters should be focussed on the fact that the oligarchical models most typical of our knowledge of relatively ancient cultures have gained access to their privileged status through trans-oceanic qualities of maritime cultures. The mortal conflict between the model of the Olympian Zeus and the loving, but perpetually tormented Prometheus, is a

model which appears rather consistently throughout the implicitly stellar system of trans-oceanic navigation. An interesting clue to all this comes from a study of the stellar and solar models of trans-oceanic navigation.

From that vantage-point, the voluntary creativity which is unique to the human species, defines what may be regarded as a “natural,” or should we say “native” potential of the human species as contrasted to all other known species. The net result of the implied contradictory features of human behavior, favors the notion of Prometheus as the natural form of human species behavior, and the oligarchical and relatively bestialized case of human-species types as defective, or, fairly said, depraved human-cultural types, such as a President Barack Obama or kindred varieties of depraved specimens.

On that level, the most interesting reading of such evidence has two most compelling features. There is, however, a qualitatively higher level, called “functional human immortality.” Consider the illustrative case of the Christian Apostle Paul’s **I Corinthians** 13. Consider the ostensibly enigmatical, twelfth verse:

“For now we see through a glass, darkly; but then face to face; now I know in part; but then I shall know even as also I am known.”⁴

There is nothing properly mysterious in that, if the obvious intention is taken into account. To that purpose, we must consider the special characteristics of the human personality, as follows.

In the crude, and mistaken view of the human personality, man is essentially a “talking beast,” who knows only what a beast might have known from the combined range of present and past experience. The natural distinction of the human species, is foreknowledge of what is to occur which is new to the relevant human experience. This distinction is typified by the discovery of an anticipated physical principle which had not yet been actually experienced as practically tested knowledge. That, for example, has been, long since, a familiar experience newly experienced by me before I had actually experienced the certainty of that discovery in action as a properly defined principle of human action. Such is the exact meaning of human creativity in the expressed form of “foreknowledge.”

4. From the King James version.



“St. Paul in Prison,” painting by Rembrandt, van Rijn, 1627. Paul’s first letter to the Corinthians expresses the notion of man’s immortality: “For now we see through a glass, darkly; but then face to face; now I know in part; but then I shall know even as also I am known.”

For a person who not only enjoys such an experience as just that, especially when that is not a rare experience of a discovery of a principle of such forecastable distinctions, this is the ruling distinction of that personality, as distinct from those whose beliefs of principle are all but most rarely post hoc.

That bare distinction does not yet reach the point corresponding to the Apostle Paul’s “now, I know in part.” The person who has discovered, then adds: “but then I shall know even as I am known.” This is not a matter of interpretation of the meanings of words; it is explicitly a definition of a transition from one state of existence to a superior state of existence.

I do not tease in writing the foregoing lines. To get

to the actual point, insert the apparently paradoxical notion of human personal creativity as a state of existence of the individual. In this view, the ontological essence of the human personality lies in the act of creation expressed as an ontologically efficient quality of a discovered universal principle as such. That which expresses this act of creation serves then as that which is distinct in the personality of the creative personality who has died. His, or her creativity is inherently immortal ontologically.

There is much more which could be spoken on this stated account. However, it were a more useful expression of the notion of the ontological implications of such immortality, to consider another aspect of the self-same conception. Call this, then, thus, the potential for the immortality of the deed, a notion which is in accord with the designated Gospel of the Apostle Paul’s “but then I shall know even as also I am known.”

In the act of discovery of a physically efficient principle, the notion of deduction is excluded from the intellectual vision of the relevant personality. Such a person as that is like an animal with pretensions of human qualities of foreknowledge. The person who actually generates a discovered principle, creates a state of being beyond what he, or she had known before that time. A newly created niche within the universe is a location of his or her developed identity; his creative action now exists for him, or her: a quality in absolute opposition to a depraved creature such as a frankly Satanic, late Bertrand Russell or his kind. It is the expression of love associated with the sharing of aspects of true discoveries of relevant principle which becomes the eternal tie between that true discoverer and those of his likeness in creative action who had preceded him. We are, thus, the true immortals, as Paul proposes. It is our action, while we have lived, which has become embedded in the society from which our mortal self has departed.

The Fuse Is Lit For World War III!

by Helga Zepp-LaRouche

Nov. 26—“Gentlemen, this may turn into a Seven Years, or even a Thirty Years War—and woe to him who would be the first to throw his spark into the powderkeg!” So warned the 90-year-old Chief of Staff General Count von Moltke the Elder in his last speech before the German Parliament, on May 14, 1890, shortly after the expulsion of Otto von Bismarck from the Chancellorship. And von Moltke was vindicated: A new World War broke out, like the Seven Years War: the so-called First World War. Were Von Moltke alive today, he would, in view of the build-up in Southwest Asia, probably issue a variant upon his earlier warning: “Woe to us all, if this powderkeg blows!”

The preparations for a military intervention against Syria and a preventive strike against Iran are at this point so far advanced, that they may already have happened before these words reach the reader. The U.S. Administration has called upon all U.S. citizens to leave Syria, has recalled its ambassador, and has re-positioned the aircraft carrier *USS George H.W. Bush* (CVN 77) from the Hormuz Strait, close to Syria in the Eastern Mediterranean. Officially, the U.S. Navy has said the carrier is merely “stopping for a break on its way back to the USA.”

The United States and Great Britain have officially declared that they will no longer adhere to the confidence-building measures that were part of the Treaty on Conventional Armed Forces in Europe (CFE), ar-

guing that Russia hasn't kept its part. This means that the U.S.A. and the U.K. will no longer inform Russia on their plans for troop deployments in Europe. After first signing the CFE in 1990, and renewing it in 1999, Russia had suspended the Treaty in 2007, when the U.S. announced that it was setting up a missile defense system in Eastern Europe, along the Russian border.

The director of the Center for Military Prognoses, Anatoly Zyganok, told Pravda.ru that this means that from now on, the U.S. could station troops wherever it wished, without ever notifying Russia—i.e., in the Baltic States, Poland, the Czech Republic, or Hungary. Already, a treaty dating back to the era of German reunification, stating that NATO forces would not cross the Oder River, has been totally ignored. According to Zyganok, the recent decision on the violation of the CFE Treaty is connected to the developments in the Mediterranean, as well as NATO's intention to build up a military capability south of the Russian border, with which to execute a military strike against Syria.

‘A New War Is Almost Inevitable’

What is really behind this dramatic escalation? Is it really only about the apparent repression of the “rebels” by “dictator” Bashir al-Assad?

The prominent Russian TV journalist Maxim

Shevchenko wrote an article Nov. 25 with the title, “A New War Is Almost Inevitable,” published by the news service Novy Region. Shevchenko belongs to the government-sponsored “Public Chamber.” In Shevchenko’s view, the announcement by President Dmitri Medvedev—that Russia will point its Iskander-Class ground-to-ground rockets stationed in Kaliningrad at the planned U.S. missile defense systems in Eastern Europe if no agreement is reached [see *Documentation*—as well as the ultimatum that the Arab League has given to Syria, are “the rumblings of the oncoming thunder of a Third World War.” The seriousness of the orders given by the commander-in-chief of the Russian Armed Forces, Shevchenko says, show without doubt, that a war is as good as inevitable, and we “have the duty to be prepared for it.”

Shevchenko continues that the deployment of three Russian warships to Syrian waters must be seen in this context, and, although it wouldn’t prevent a NATO strike against Syria, could make it less probable. It’s one thing to attack a defenseless Syria, he wrote, but it’s quite another, to deal with Russian ships equipped with radar systems, that can pass on data about incoming NATO jets and rockets. It has been realized, that the threat is directed towards the Russian Federation, and that this threat comes from NATO, and not from Iran or North Korea.

Anti-War Mobilization

Since the debate on an Israeli preventive strike against Iranian nuclear facilities and the controversial International Atomic Energy Agency (IAEA) report on an ostensible nuclear weapons program broke out into the public, and Lyndon LaRouche placed these developments in the context of a threatened World War III, strong reactions against this have erupted in many countries. Within the United States itself, active and retired military have made clear that such a war is seen as unwinnable and against the fundamental interests of the United States.

The military leaders of Russia and China, who reacted strongly against President Obama’s assertion of leadership in Asia, are determined to make clear to all that they will not sit idly by while Syria and Iran are attacked, but rather, have begun a very serious mobilization to block such attacks. Both Russia and China have realized that the real targets are not Syria and Iran, but they themselves. Therefore, any capitulation to American, British, or NATO attacks on these two states would



The Presidential Press and Information Office
Russian President Dmitri Medvedev’s Nov. 23 televised address to the nation, shown here, was also a solemn warning to the West that Russia will not accept the current drive for war in Southwest Asia.

lead to such an escalation of warfare, that nuclear weapons would be deployed and would lead to their own destruction.

It was exactly in the interest of blocking this insane dynamic that President Medvedev made his statement, and Russian Army Chief of Staff Nikolai Makarov warned that Russia could be pulled into regional wars, which could expand into a great war, and that the real threat is a global, thermonuclear war [see *Documentation*].

During his recent trip to Moldavia, Foreign Minister Sergei Lavrov said that Russian leaders see the escalation in Southwest Asia as an attempt on the part of certain circles in the West, to undermine the new centers of strong economic growth in the Asia-Pacific region, and to compensate for their own loss of influence by means of such “irresponsible and provocative” actions.

It could not be more clear: Russia, China and many others have come to the conclusion, that the failed system of globalization is reacting to its collapsing power just as empires have always reacted in the past: by starting wars.

The Seven Years War

The model for the Third World War that threatens us now, is the Seven Years War (1756-63), which was fought out in Europe, North America, India, the Carib-

bean, and all the oceans of the world, and was thus the first real World War. It ended with the consolidation of the British Empire as the largest colonial power in history.

The method by which the British Empire has maintained its position since then, has been its special repertoire: to create conflicts amongst nations to one's own advantage, to allow them to grind each other down; to rule by the maxim of "divide and conquer," by inciting potential enemies using irregular warfare, and by long-term placement of agents of influence to orchestrate seemingly objective events; to control the financial markets; and the financing of rebels, who must be saved from destruction by use of mercenary armies in "humanitarian interventions." Contrary to the views of the ignoramuses of current affairs, this British Empire actually never ceased to exist, but lives on in the guise of what is generally referred to as "globalization."

This is the context, which the prophetic General von Moltke recognized, when he spelled out the dynamic that came to be known as the pre-history of World War I, and which also led to World War II, as it was the mutual grinding-down of Germany and Russia that the financiers of Adolf Hitler intended. And it is the context for today, in which there apparently are forces that would rather risk extinguishing all human civilization, than to accept the dynamic development of powerful nations in Asia, while the trans-Atlantic region sinks into chaos.

The Last Option: Money-Printing?

The only thing left for the United States, within the currently collapsing system, is nothing but so-called "quantitative easing," that is, money-printing. And that is exactly the same recipe, literally in green, which the proponents of a supranational Europe, Barroso, van Rompuy, and Monti, as well as Schäuble and Fischer, want to put on the table as the last option. The European Central Bank is supposed to become the lender of last resort, therefore a "Bad Bank," and to print money; and Eurobonds should convert the EU completely into a transfer union, whereby the savings of the Germans will be liberally transferred to save the banks and speculators. If things proceed this way, hyperinflation and a collapse into chaos are pre-programmed. Therefore, the



The Presidential Press and Information Office

On Nov. 29, Medvedev visited Russia's Kaliningrad outpost, located between NATO members Poland and Lithuania. Here he is meeting with a military unit there, where the Voronezh-DM missile attack early warning radar station is deployed. He issued an order to assign the station to the Space Forces.

advocates of empire conclude, better to stage a war, bringing the coalition of the willing, and not so willing, under control.

The United States had better take care that the Nobel Peace Prize recipient who currently sits in the White House is removed from office by impeachment proceedings for his violations of the Constitution, before it is too late.

In Europe, it is high time to concede that the euro experiment has failed—because it had to fail. Certainly what is looming now—a strongly integrated core Europe with a loosely knit second-class Europe, altered EU treaties, which again will be fudged only through tricks behind the backs of the population—all that will not prevent the catastrophe.

There is only one straightforward and viable way out: to decisively eliminate the idea that an empire shall rule the world into the endless future, in the form of globalization, which only serves to maximize the profits and power of a small oligarchical elite, in the form of an EU dictatorship, which functions as sort of a regional branch of this empire.

Perhaps there is still a very small interval for realizing, in time, a global, two-tiered banking system [on the Glass-Steagall model], and achieving a real alliance of sovereign republics for a peaceful order in the 21st Century. We hope that this interval has not elapsed by the time you read these lines.

Medvedev Addresses Global War Threat

Nov. 28—Russian President Dmitri Medvedev gave a special televised address to his nation on Nov. 23, conveying the stark reality that the Russian leadership anticipates the outbreak of global nuclear war, and is determined both to defend Russia under those circumstances and, by warning of this, to try to deter it. Medvedev spoke standing, and with great solemnity, from his Presidential office, flanked by the Russian tricolor flag in its version for the Supreme Commander-in-Chief, with the Russian double-headed eagle crest.

Reported by wire services was Medvedev's threat to deploy the Iskander missile system in Russia's westernmost district of Kaliningrad, in response to the U.S./NATO emplacement of anti-ballistic missile systems in Europe. Such reportage amounts to disinformation. In fact, the address to the nation contained his announcement of other crucial actions already underway. The ten-minute address, available with English subtitles on the Kremlin site,¹ is extremely valuable to watch, for an appreciation of current strategic reality.

Medvedev underscored that Russia has continued to offer cooperation with the United States and NATO on anti-missile defense. "At the NATO-Russia Council summit in Lisbon a year ago," he said, "I proposed developing a joint sector-based missile defense system in Europe, where every country would be responsible for a particular sector. Furthermore, we were ready to discuss additional modifications to the system, taking into account our NATO partners' views. Our only goal was to preserve the basic principle that Europe does not need new dividing lines, but rather, a common security perimeter with Russia's equal and legally enshrined participation. It is my conviction that this approach would create unique opportunities for Russia and NATO to build a genuine strategic partnership. We are to replace the friction and confrontation in our relations with the principles of equality, indivisible security, mutual trust, and predictability."

1. <http://eng.news.kremlin.ru/video/1034>

Expressing regret over the lack of a positive response, Medvedev continued: "We will not agree to take part in a program that in a short while, in some five, six, or eight years' time, could weaken our nuclear deterrent capability. The European missile defense program is already underway, and work on it is, regrettably, moving rapidly in Poland, Turkey, Romania, and Spain. We find ourselves facing a *fait accompli*." He said that he had stated Russia's concerns to U.S. President Obama during their recent meeting, on the sidelines of the APEC (Asia-Pacific Economic Cooperation) summit in Hawaii.

Medvedev then announced the following orders, which he has already issued:

"First, I am instructing the Defense Ministry to immediately put the missile attack early warning radar station in Kaliningrad on combat alert.

"Second, protective coverage of Russia's strategic nuclear weapons will be reinforced as a priority measure under the program to develop our air and space defenses.

"Third, the new strategic ballistic missiles commissioned by the Strategic Missile Forces and the Navy will be equipped with advanced missile defense penetration systems and new highly-effective warheads.

"Fourth, I have instructed the Armed Forces to draw up measures for disabling missile defense system data and guidance systems if need be. These measures will be adequate, effective, and low-cost.

"Fifth, if the above measures prove insufficient, the Russian Federation will deploy modern offensive weapon systems in the west and south of the country, ensuring our ability to take out any part of the U.S. missile defense system in Europe. One step in this process will be to deploy Iskander missiles in Kaliningrad Region."

Medvedev went on to raise the prospect of Russia's withdrawing from the new START treaty and other disarmament agreements. He concluded: "But let me stress the point that we are not closing the door on continued dialogue with the U.S.A. and NATO on missile defense and on practical cooperation in this area. We are ready for that. However, this can be achieved only through establishing a clear legal base for cooperation that would guarantee that our legitimate interests and concerns are taken into account. We are open to a dialogue and we hope for a reasonable and constructive approach from our Western partners."

Russian Navy Deploys For War Avoidance

Nov. 27—Senior retired officers of the Russian Navy have confirmed that some of its ships have recently visited their repair and support facility at Tartus, Syria, while two battleships from Russia’s Northern Fleet are about to embark on a long-range cruise that will also take them to Tartus. The Russian naval moves are a phased and measured action, signalling Moscow’s determination not to stand idly by, in the face of attempts to overthrow the Syrian government.

The Tartus facility dates from an agreement between the Soviet Union and Syria in the 1970s, when the port served as a supply and maintenance base for the Soviet 5th Mediterranean Squadron, a special unit that established a permanent Soviet presence in the Mediterranean, staffed out of the Black Sea Fleet (Sevastopol) and the Northern Fleet (Murmansk) of the Soviet Navy. That unit went out of existence in 1991, but Tartus is still staffed by Russian naval personnel.

According to Adm. Valentin Selivanov (ret.), former commander of the Mediterranean Squadron and former Chief of Staff of the Russian Navy, who was interviewed by *Svobodnaya Pressa* Nov. 23, “the three Russian ships” reported to have been off the Syrian coast recently, were two warehouse and repair vessels, and the patrol ship *Smeliviy* (Russia’s only remaining Kashin-class destroyer), which made a call at Tartus en route to base in the Crimea after deploying with Italian naval forces in joint exercises this Summer.

Selivanov also confirmed widespread reports that two ships from Russia’s strategic Northern Fleet will soon leave Murmansk for the Mediterranean. The government daily *Rossiyskaya Gazeta* announced Nov. 24 that the *Admiral Kuznetsov* and the *Admiral Chabanenko* have just completed preparations in the Barents Sea for a long-distance cruise. They carried out firing practice, and Russian Navy Commander-in-Chief Adm. Vladimir Vysotsky

visited them Nov. 24-26 to check their readiness for the long-distance cruise. The *Kuznetsov*, an aircraft carrier, took on board an aircraft group consisting of Su-33 and Su-25 fighters (the Su-25UTG is a special carrier-compatible model of this versatile fighter aircraft), and Ka-27 ASW/anti-ship helicopters.

These ships belong to the “strategic” Northern Fleet, which periodically conducts exercises in the North Atlantic, coordinated with long-range bomber and strategic missile tests. The *Kuznetsov-Chabanenko* deployment will not be a sailing of the Northern Fleet as a whole, but the *Kuznetsov* is Russia’s only remaining aircraft carrier, formally classified as a “heavy, aircraft-carrying cruiser,” with anti-ship missile batteries. The *Chabanenko* is a destroyer, an Udaloy-II-class “large anti-ship (and anti-submarine) ship.”

Selivanov said of the vessels’ cruise into the Mediterranean: “If somebody’s ships are located somewhere, of course it’s not possible to simply fly over them and bomb someplace. Even the Americans will not be able to ignore the arrival of our ships off the coast of Syria. Although, probably, our only aircraft carrier plus the *Chabanenko* do not have the ability to stop an entire war. . . . But their appearance in the Eastern Mediterranean will be a signal to the whole world, that Russia has its interests here, and you can’t just crush, destroy, and kill everybody without taking them into account.”

Today’s *Izvestia* interviewed another former Russian Navy chief of staff, Adm. Victor Kravchenko (ret.), who said that, even if the *Kuznetsov* and the *Chabanenko* take some time to arrive in the Mediterranean, “The appearance there of any naval force besides NATO’s is very useful for the region, since it represents an obstacle to unleashing armed conflict.”



U.S. Navy

Two ships from Russia’s strategic Northern Fleet, the *Kuznetsov* (shown here) and the *Chabanenko* will soon leave Murmansk for the Mediterranean.

LaRouche and Colleagues Address Event At Russian Foreign Ministry University

Nov. 24—Lyndon LaRouche and members of the “Basement” scientific team of the LaRouche Political Action Committee LPAC were featured speakers, via prerecorded video presentations, at today’s opening sessions of a two-day conference held at the Moscow State Institute for International Relations (MGIMO), the university of the Russian Foreign Ministry. MGIMO is Moscow’s second-most prominent university. Over 100 MGIMO professors, students, and guests heard LaRouche’s remarks, an address recorded Nov. 14 (transcript below). LaRouche was introduced on the video by Basement leader Sky Shields, speaking in Russian, who also engaged in a discussion with LaRouche in English during the 12-minute video.

LaRouche’s stark presentation of the imminent danger of world war, the need for American patriots to get British puppet Barack Obama out of the Presidency, the systemic nature of the current breakdown crisis, and the happier prospects for American-Chinese-Russian cooperation in the trans-Pacific region, riveted the attention of the audience at the plenary session. The intervention was especially striking, by contrast with a French speaker, who asserted that the current crisis and the one in 2008 are completely separate events, and that Europe is not really in crisis, but is only experiencing a spillover effect from the United States crisis.

“The Scientific Conference on Applied Analysis of Problems in Post-Crisis Development of the World Economy” was the first such major event held by the Applied Economics and Business Faculty of MGIMO under its new head, the young economist Alexei Svishchov.

In the afternoon, the event continued with workshops, conducted by six MGIMO departments. In the Stock Markets Department workshop, chaired by instructor Sergei Dyshevsky, the featured presentation was a 40-minute video, narrated by the LPAC Basement team’s Michael Kirsch, titled “Economic Devel-

opment in Earth’s Next 50 Years: A Hamiltonian Credit Policy vs. the Current Policy of Monetarism, Genocide, and War.” Kirsch also greeted the audience in Russian, before guiding them through a briefing 1) on the single, systemic crisis-process since 1971, illustrated through quotations from LaRouche’s speeches given in Russia in 1995, 1996, and 2001; 2) on the nature of a credit system, incorporating excerpts from LaRouche’s Sept. 8, 2011 webcast, as well as the 2009 LPAC video “Hamilton’s Constitution”; 3) “Open a New World: Earth’s Next 50 Years,” including excerpts from several Basement videos on the proposed North American Water and Power Alliance (NAWAPA), the Arctic, and mankind’s extraterrestrial imperative. This idea-dense video prompted requests for a repeat showing for a larger MGIMO audience in the near future.

Both videos, in English with Russian subtitles, will be accessible on RuTube (www.larouche-tv.rutube.ru) and YouTube (www.youtube.com/larouche0na0russkom) in the next few days.

‘Scientific Analysis of Problems in the Post-Crisis Development of the World Economy’

The following is the transcript of the prerecorded video shown at the plenary session of the Nov. 24 conference at MGIMO.

Sky Shields: [In Russian.] Good day. My name is Sky Shields. I am a leader of the Basement scientific research group of the LaRouche Political Action Committee. Thank you for the invitation to address this conference at MGIMO. Allow me to introduce to you the American economist and political figure, Lyndon LaRouche.



LPAC-TV

Lyndon LaRouche and Sky Shields discuss the global financial crisis in a video recorded for the conference at the Moscow State Institute for International Relations (MGIMO).

[In English.] Lyn, we find ourselves in a very exciting, and dangerous, strategic situation right now. We're looking at a series of coups being launched across Europe, by bankers, in response to the meltdown of the entire trans-Atlantic financial system. On our end of it, we're seeing the incredibly bellicose response from the British, but then, the British-controlled puppet, U.S. President Barack Obama, making explicit threats against major nations, not only Syria and Iran, but also Russia and China. There's a lot of people right now, trying to come up with an analysis of the situation, but you've been unique in forecasting almost every element that we're now currently experiencing.

I'd like to ask you right now: It seems clear we are not at the end of this at all; in fact, the worst is yet to come. What is your assessment of where we stand right now, and what needs to be done?

Lyndon LaRouche: We face two dangers: One, is the economic danger, and the European side, especially, from the European-Atlantic side, is right at the end-point of a general breakdown crisis. This is especially strong in the Continental European sector; the British sector is a little less vulnerable. But you have to realize that the rest of Continental Western Europe has absolutely no security, whatsoever. It is simply going into a hyperinflationary breakdown process. So there, we could expect at the moment, nothing from Europe that's good, unless there's a fundamental change that proceeds before a general breakdown crisis.

We have a situation which is comparable to Ger-

many in 1923: It's a hyperinflationary process. Germany was isolated when it was victimized by hyperinflation. This time it's more balanced among a group of nations; therefore, it didn't come on quite as fast; but it's coming on now. We're at the end point.

The United States is under the influence of an insane President who is controlled essentially from London. He's a London puppet, and this is a disaster.

So therefore, you have two pictures of the world: One is the trans-Atlantic side, in which this is the side that's in general

breakdown. One of the exceptions is Argentina; Argentina's one of the few countries in the trans-Atlantic region which is still stable, for special reasons.

Then, you have on the other side, the Pacific side. Now, I would include Russia, essentially, in the Pacific side, because it's actually, the orientation of development of Russia is moving largely toward the Pacific Ocean, together with China, and together with Asia. So you have a trans-Pacific region of the world which is more hopeful than the trans-Atlantic region.

But the point is, we're now at a point where the whole thing can come down in a chain-reaction. That Eastern Europe and Asia has a much better resilience, right now, to the crisis, because of the terrible situation in Europe, in particular. But the whole world is ready to come down.

The Threat of World War

We're also threatened, as often happens, with a Third World War. The first one, of course, was actually started with the ouster of Bismarck in Germany, and that blew things open, and opened up for the British role in creating World War I. Then we had the Second World War, which was, again, much more destructive than the first one. And now, we're on the verge of a third one.

And it could happen. You have a concentration in the eastern part of the Mediterranean and in the Indian Ocean region, around a kind of a "New Balkans" area, which is the Middle East area. This area is ready to be

the cockpit, with the greatest concentration of thermonuclear weapons, in the Eastern Mediterranean and in this area in the Indian Ocean. So we could have—and there is a threat of this—a triggering, by Israel, and by other kinds of factors, a triggering of what becomes *a general Third World War*. But this time, as we have understood since World War II, we’ve understood that you can not have major wars any more, because the weapons of choice are thermonuclear weapons. You can not put a lid on this.

We’ve come to the point, as we understood with the SDI effort, which I was involved in, that you can no longer have major wars among nations. You have to find other means of resolving the problems. Now, we’re at a point, where, again, we’re faced with a potential of a third war, but this time, a *thermonuclear* war, because the only significant weaponry for this area of conflict, which goes into Asia, is in this area: The only possibility is thermonuclear warfare.

So therefore, the question is pre-empting the world situation strategically, and avoiding thermonuclear war—because it’s the U.S. thermonuclear arsenal, which is the key to a threat of a major war. And right now, around this issue, there in the Middle East, we actually do not have a local crisis situation: We have a threat of a worldwide, thermonuclear warfare situation.

There Are Solutions

So, against this, we have to define what the alternatives are, what the solutions are.

The problem right now, is the President of the United States. President Obama is the key to triggering thermonuclear war. The man is clinically insane. I can say it as an American; I’ve said it before; I’ve diagnosed him as this type before; and if he’s allowed to run loose, he can trigger a thermonuclear war.

The hope is, that in the United States, there will be action to remove him from office. That actually would secure peace. As long as he remains in office, the danger of triggering a war, with the consent of the



Michael Kirsch of the LaRouche PAC Basement team addresses the MGIMO conference on “*Economic Development in Earth’s Next 50 Years: A Hamiltonian Credit Policy vs. the Current Policy of Monetarism, Genocide, and War.*”

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British monarchy, is there.

Now, at the same time, we have a development among some of us in the United States, some leading people, or some influential people, who understand that the cooperation of the United States with Russia and China in particular, but also other countries, is the alternative to thermonuclear war. And therefore, it’s important, at this time, that those nations and people in nations who understand this, begin to cooperate more closely. I think the potential for cooperation is great now, but we have to get that cooperation, we have to establish it. And under those conditions, we can actually reverse this trend.

I think that, within a ten-year period, if you’re looking ten years ahead, we could actually reverse these effects. There’s a potential in China; there is a potential in Russia that is well known there—in particular, economic; India is a positive factor. If we can get peace in Africa, if we can get peace in Europe, some more stability in Europe, I think we’re looking at the possibility, out of the sheer horror of what has happened to nations—the destruction of the nations of Continental Europe, for example; the breakdown crisis which is going on in the United States right now; the *terrible* conditions in Africa, the conditions in Central America and in South America, at the same time; the conditions in Africa—so we have all the incentives to say, “Let’s become sensible.”

And we have now, the possibility, centered on the trans-Pacific region, the cooperation across the Pacific region, which involves Russia and China, in particular, but other nations which will cooperate with that, is our best hope.

So, we have the two options: On the one hand, we're threatened by the greatest menace, in terms of warfare, in modern times. On the other hand, we have opportunities which are being developed, and if they're allowed to develop, can mean the greatest advantage for mankind.

Great Projects

The projects we have, the projects we can launch now, are the greatest projects ever conceived by mankind. We have a revolution we're going to conduct in the United States, if we can. It will involve the water systems: We're going to change the nature of the water systems in the world. We have large engineering projects.

We must go into space. We must revive the space program; we must go ahead in that direction. People do not understand some of the reasons why we must go into space, why we must take this kind of risky venture

of human beings' going into space, but we must do it.

So, before us is, for the imagination, the greatest opportunity mankind has ever known, involving the space program among other things, and at the same thing, greatest danger to mankind ever known. And our problem is, to tilt the balance to make sure it comes out the right way!

Shields: And all of this of this hinges on achieving this trans-Pacific alliance, this trans-Pacific orientation of the world, dumping the British orientation we've got in the U.S. now with Obama, eliminating him, and eliminating that as a force here; but then shifting our policy, now, towards this kind of alliance—first, Russia and China.

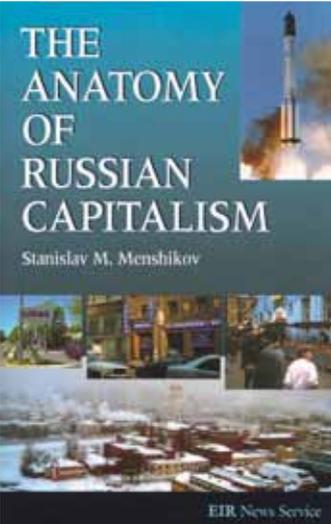
LaRouche: That's it. Actually, the keystone is Russia, because it's a transition nation-state, European and Asian. It has an Asian orientation right now. The Asian orientation makes a lot of sense: There are rich resources there which can be developed. China and Russia need each other in Asia, because they're complementary. China has the great population; Russia has the potential of developing the northern part. This can be the great stimulus.

Shields: And that goes along well, as you were describing, with what NAWAPA, as a development project, means for the U.S.; our Western-Northern development matches up perfectly with the kind of Far East development and Siberian development in Russia.

LaRouche: We're working, actually, with what we know are some of the greatest large-scale projects that mankind has ever conceived of, just on Earth itself. But, when we realize *why* we have to go into the area of the Solar System, develop there, which is a subject in itself, we realize that the whole future of mankind can potentially undergo the greatest, most impressive result we could imagine.

Shields: Okay! Well, thank you, Lyn. I think that gives some clear marching orders. And in later sessions of this conference, we'll put together in a more detailed way, some of these specific proposals. But I think from this, it's clear what the immediate response to the strategic threat needs to be.

LaRouche: Well, I think there's an opportunity of riches in this process. But there's much to be done. There's so much to be done, you can't encompass it all in a short discussion.



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‘Kar Inglise’: The Bloody, Invisible Hand of the British Empire

by Bijan Bahadorvand Shenhi

The following is a message from former Iranian diplomat Bijan Bahadorvand Shenhi, which was read on his behalf at a Schiller Institute conference in Berlin on Nov. 19. He worked in the diplomatic service of the Islamic Republic of Iran domestically and abroad for over ten years, and spent more than a decade studying and working in India. The message was translated from Farsi and subheads have been added.

There is a very popular saying among the Iranian people, that “the hand of England”—or, as we say in Persian, “*kar inglise*”—“is behind whatever happens in political and governmental affairs,” and further that the “divide and conquer policy” has always been the guiding light of the policy of the British Empire. Whenever and wherever you find irrational conflicts and bloody clashes, be they in religious, ethnic, or regional affairs, then and there you should expect to find the manipulating hand of the Great British Empire.

In the eyes of the general population, the corrupt control and determining influence of Great Britain knew no bounds, and except for the ordinary people, no strata of the population—not even the religious leaders—were considered to be immune to that corrupting influence. In fact, up to the triumph of the Islamic Revolution in February 1979, no other political motto could rival the pervasiveness of this maxim throughout Iran. During the whole span of the 19th Century, and in fact up to 1924, when the Quajar dynasty was in power, Iran was actually not an independent nation, but was totally controlled by Great Britain, serving as the first line of defense of India, that is, the “jewel in the crown of the British Empire.”

Lord Curzon, the famous secretary of the Foreign Office and viceroy of India, elaborated the point that Great Britain monitored and controlled Iranian affairs through its viceroy in India, and all British nationals and officials working in Iran reported first to the British

viceroy in India, rather than to the Colonial Office in London.

The Pahlavi Dynasty

The fall of the Quajar dynasty and the rise of Reza Shah Pahlavi in 1924 did not change the picture with respect to the British Empire. Reza Pahlavi (father of the last king, Mohammad Reza) first carried out a coup in 1929 which was wholly controlled and sponsored by the British agents, with Colonel Ironside from the British/Caucasus Front playing a central role in it. In 1924, the House of the Quajar kings fell, and Reza Pahlavi became the new king, establishing a new Pahlavi dynasty. This was done through the machination and manipulation of British and Anglophile circles in the so-called parliaments and cabinets, especially those of Foroughi, the prime minister of the time, who was an early exponent of British liberalism in Iran.

Reza Shah, under the guidance of the British, built up an extreme dictatorial regime, suppressing all opponents and destroying all remnants of the constitutional revolution of the early 20th Century, which had established a constitutional monarchy and awakened the hope of instituting the rule of law in place of the will of the king, who was traditionally known as the Shadow of God, or *selola* in Farsi.

The oil drilling in 1905 in Masjid-e-Soleyman, in the south of Iran (the first oil discovered in the Middle East), and the subsequent advent of the British Petroleum Company in Iranian affairs enhanced and deepened the controlling power of the Empire over the destiny of Iranians. BP became the virtual governing power, particularly in all the oil-producing regions of the south. The 1907 treaty between the British Empire and the Russian Tsar, dividing the territory into two zones of influence (the northern Russian and the southern British), further helped Britain to consolidate its hold over Iran.

The Historical Record

Recent research based mainly on non-British documents and sources—for example, the American National Archives and Records Administration, NARA—shows that even the influence of Russian Tsar in Iran during the last decades of the 19th Century and the first decade of the 20th Century was for all practical purposes overshadowed and exceeded by the more widespread and extended reach of the imperial claws. This was typified by the clothing industries owned by the Russian banking interests in the north of Iran, and the financial interests of the British Empire in the south of Iran.

Official British historiography is very loyal to the spirit of a British saying (which in English is somewhat “brutish”), that a thief never leaves his name and address. The official documents and papers left behind by previous colonial functionaries or the diplomatic corps typically tend either to confuse, to hide the important points, or to distort or manipulate the vision of the researcher.

For example, the picture drawn from the documents and papers produced by American diplomats in Tehran during the first decade of the 20th Century is significantly different from, and sometimes directly opposite to, the version produced by British diplomats in the same period.

The British version, for example, speaks of Reza Shah as founder of modern Iran who was trying to lay the groundwork for the advancement of the country, and not at all corrupt. But the American documents present a contrary image, of a man on the brink of insanity and very corrupt in financial matters. By 1914, after 16 years of his rule, he had amassed \$200 million in foreign banks and \$15 million in Iranian banks. In 1925 the whole national budget of Iran was \$20 million. [former Prime Minister] Dr. Mossadegh was right when he accused Reza Shah of having amassed almost all of the country’s income in his own bank account, from selling oil to BP.

Genocide

Another example of the British Empire’s coverup of the truth is a document in the American archive reporting the widespread famine and spread of epidemic disease in Iran, culminating in 9 million dead during 1917-19: the greatest genocide of the 20th Century!

It should be noted that at the time Iran was one of the main suppliers of food grains to the British forces sta-

tioned in the empire’s South Asian colonies. Prof. Gholi Majd of Princeton University writes in his book *The Great Famine and Genocide in Persia* that the American documents show that the British prevented imports of wheat and other food grains into Iran from Mesopotamia, Asia, and also the U.S.A., and that ships loaded with wheat were not allowed to unload at the port of Bushehr on the Persian Gulf. Professor Majd explicitly says that Great Britain used genocide to destroy Iran, and to effectively control the country for its own purposes.

One is reminded of the old and sad story of the Bengal famine in India in 1870.

When Mossadegh benefitted diplomatically from the temporarily favorable atmosphere inside and surrounding Iran, and nationalized the oil industries in 1951, he hoped that the republican currents in the West, particularly in the U.S.A. of Franklin Roosevelt, would contribute to the legitimate development and sovereignty of Iran; but unfortunately the Truman Administration, typified by the Dulles brothers and Averell Harriman and other interests, succumbed to the pressure of the Empire. Mossadegh was toppled in a coup engineered by the British intelligence service [MI6] and the CIA.

But not satisfied with the slow pace of progress, tormented by the Shah and his political tyranny, the Iranian people participated massively in the Islamic Revolution in the hope attaining progress and democracy by their sovereign will and effort, as had been done in India, China, and other countries that had been deeply harmed by the actions of the British Empire.

At this juncture, the British Empire has come forward and feels no shame in openly stating its real intention: genocide, or what is the same thing, reduction of the world population. It grabs up whatever instruments or pretext comes its way, but genocide is the main goal; everything else is a pretext or doublespeak.

Perhaps Iranians are traditionally and historically better positioned than many others to sense the impulses and read the thoughts of the British Empire. As long as this creature lives, any type of damage and destruction is possible. It knows no limits. Many Europeans and Americans may not immediately understand that Hitler too was “Made in England,” but the deeply wounded Indians, Chinese, Iranians, Africans, and many others know and believe that England was behind it all—or, as we say, “*kar kare inglise.*”

Let us step forward to stop this Golem from making one war after another, and making business out of wars.

Genocide in the Horn of Africa Is a Crime Against Civilization

by Lawrence K. Freeman

Nov. 23—There can no longer be any doubt that genocide is on going in the Horn of Africa. While Somalia is the epicenter of death and destruction, the entire Horn of Africa is moving towards a conflagration that potentially could lead to the death of millions of Africans, affecting many countries beyond the Horn. With Kenyan troops crossing the border in southern Somalia last month, a new level of war and chaos has been introduced, which benefits none of the countries involved.

The UN World Food Program estimates that one in two Somalians are at risk of starvation, even while there has been a lowering of the threat of famine in three regions of the country. Worsening conditions in Sudan and South Sudan potentially could add to the crisis in the Horn. As Lyndon LaRouche said last week to his associates: “African nations are out there to kill other African nations. Why? For them? No, for the British. For the British Empire!”

This new Hobbesian war of “all against all” in Africa has to be viewed from the global perspective of President Obama’s drive to force a confrontation with Russia and China, which could ultimately lead to World War III, resulting in a horrifying reduction of the world’s population.

Genocide in Africa is the intention of the financial empire presently headquartered in the City of London, along with its junior partner on Wall Street. Since the extension of the British East India Company through its various subsidiaries into Africa for more than two centuries, the Empire’s policy, right up to the present, has remained the same: Loot the resources and kill off the “excess” black population. For the last several decades, its control over the continent has been primarily through financial consortiums, commodities cartels, assassinations, and the almost “pre-determined” set-piece activation of ethnic-religious warfare.

While African countries take pride in the growth in

the numbers of their people, the sad reality is that each year millions of Africans needlessly die through war, famine, and disease, while hundreds of millions more live an existence that is not fit for human beings. Population reduction to maintain an uninterrupted flow of mineral and other resources, as called for in Henry Kissinger’s 1974 government report, “Implications of Worldwide Population Growth for U.S. Security and Overseas Interest”—National Security Study Memorandum 200 (NSSM-200)—remains the primary governing policy behind the deliberate lack of investment in transformative infrastructure projects for energy, water, and rail transportation to produce adequate amounts of food in the developing sector.

With the demise of the Trans-Atlantic financial system, the oligarchical financial empire is compelled to intensify its efforts to reduce the world’s population. There is no shortage of public statements to this effect from members of the British monarchy and its spawned racist, anti-scientific, and anti-human Worldwide Fund for Nature (WWF) up to the present.¹

A growing population requires scientific progress to generate new discoveries necessary to maintain a rising standard of living. Technological advancements in integrated “infrastructure platforms” are the human alternative to the British financial empire’s need to keep nations underdeveloped, and at war with each other. Financial predators, who are out to make quick money, will allow Africans to purchase all the cellphones they want, but nuclear energy and high-speed transcontinental trains are forbidden.

How Many African Deaths Will We Tolerate?

Contrary to widespread claims, the famine in Somalia is not directly due to the drought. Rather the mass

1. See, “Behind London’s War Drive: A Policy To Kill Billions” *EIR*, Nov. 18, 2011

starvation of 1991-92, and again today, is the direct consequence of the refusal to make the necessary investments in developing the land, and providing the energy and water, needed to produce food. After 250,000-300,000 Africans died in the last famine that devastated the region roughly 20 years ago, why is the exact same tragedy being played out again today, albeit with different actors? And why is nothing being done again now, that will prevent another similar disaster in the future?

The answer is obvious, if one has the guts to face the truth. This is the British policy of genocide: culling the herd; reducing the number of Africans on the continent.

Look at the horror of what has been done to the Somali people over the last 20 years—one generation. Conservative estimates are that from 450,000-1.5 million have died, and more than 2.3 million are still refugees or displaced, which is more than 25% of its population. In 2010, almost half of the country's 8 million people—3.2 million—required humanitarian assistance just to stay alive. Every day 3,500 Somalis flee the country, mainly to Kenya and Ethiopia. During these two decades, there have been an average of 581,000 refugees, and 720,000 displaced persons, yearly. Somalia has an unbelievable rate of childhood mortality of 225 of every 1,000 born dying during their first five years. During this same period, \$13 billion was spent on humanitarian aid, with another \$11.2 billion on peacekeeping, and other military and diplomatic activity.²

It is easily admitted today that Somalia is a failed state. After the fall of the U.S.-backed government of Siad Barre in 1991, civil war erupted among clan militias, exacerbating the famine that led to one-quarter of a million deaths. In 2005 the Transitional Federal Government (TFG) was imposed on Somalia, which has been propped up by the West despite that fact that it is dysfunctional. Since 2007, over 9,000 African Union peacekeeping troops (AMISOM) from Uganda and Burundi have been deployed in Somalia to prevent the al-Qaeda-linked rebel group al-Shabaab from driving the TFG out of its enclave in Mogadishu.

Beginning in the late 1990s, Somalia was infiltrated by a Salifist movement supported by Wahhabi-related charities from Saudi Arabia that led to creation of the

Islamic Courts and then al-Shabaab, which is carrying out asymmetric warfare in the region today. While events on the ground have shifted recently, most experts believe that military operations alone will not defeat al-Shabaab.

What has been accomplished by the billions of dollars spent in Somalia, and the billions more spent in Sudan, on humanitarian aid, peacekeeping efforts, and counter-terrorist deployments? Of course lives have to be saved now, and every life is precious, but has any substantive change occurred? It is reported that already tens of thousands have died in this famine, primarily children. What will happen when the next drought hits the region? How many generations of Africans must die because of our failure to develop the agricultural potential of the region? How many more children?

A New Thirty Years War?

On Oct. 16, Kenya launched its invasion into Somalia, called Operation Linda Nchi (Protect the Nation), deploying thousands of troops, backed up by tanks, artillery, helicopters, and aircraft, for its first military intervention in almost half a century, thus becoming the fourth African country to march its army into Somalia since 2006.

While the U.S. government has insisted that it had no advance knowledge of Kenya's plans to send its military convoy across the border, no thoughtful analyst from the region believes a word of it, particularly because Kenya is the U.S.'s closet ally in East Africa. Knowledgeable Americans and Africans alike, insist that it would be impossible for Kenya to launch and sustain such a large deployment without at least a wink and a nod from the U.S., if not a lot more than that, including some major financial help.

The London *Economist* wrote that American claims "that the offensive took them by surprise" are hard to believe, "especially since several of the missiles fired at the jihadist fighters inside the mangrove swamps on the Somali side of the border seem to have been fired from American drones or submarines." Despite U.S. denials, Washington's Ambassador to Kenya, Scott Gration, has publicly pledged to help the Kenyans in this operation, saying: "We are talking with the Kenyans right now to figure how we can help."

While American officials deny any U.S. involvement in the air strikes, the *New York Times* reported a headline in the Kenyan newspaper *The Sunday Nation*:

2. These figures are taken from "Twenty Years of Collapse and Counting: The Cost of Failure in Somalia," Center for American Progress and One Earth Foundation, September 2011.



AU-UN IST/Stuart Price

The British Empire's policy for Africa is genocide, as can be seen in the drought and famine which once again have overtaken the Horn of Africa. Here, Somali women rush into a feeding center in Mogadishu, in July 2011.

“U.S. planes join assault.” The U.S. military has struck Somalia in the past in what it calls surgical strikes, and has admitted to previous drone missile attacks in Somalia, ordered by Obama.

It is also no secret that the U.S. provided assistance to Ethiopia when it sent troops into Somalia in December 2006. The Kenyans themselves announced that the French Navy shelled the Somali coastline to complement their invasion, which the French too have denied, although there are reports that the French military has launched covert military strikes into Somalia in the past.

Earlier this year, British commandos from the 539 Assault Squadron launched an amphibious landing in Somalia to snatch up a tribal leader and whisk him away to a meeting with MI6 and the Foreign Office aboard a Royal Navy support ship, according to an article in the Mail Online, complete with pictures. Somalia was a former British colony, giving London an intimate knowledge of the political and geographical terrain.

A week after Kenya's invasion, two grenade blasts went off in an ethnic Somali district of Nairobi, Kenya's capital, thought to be a response from al-Shabaab. Already the Kenyan Air Force has been accused of killing

5 civilians, including 3 children, and wounding 45 others, of which 31 were children from the bombing of a humanitarian camp for displaced persons, according to Doctors without Borders, contrary to claims by the Kenyan government that they attacked an al-Shabaab training camp.

Kenya has now stuck itself into Somalia, but how will it get out? There is no clarity on its mission or what its exit strategy is; only that Kenya has now become yet another military actor in this continuously unfolding tragedy of genocide. Even the government of Somalia has issued conflicting statements on whether or not it welcomed the military in-

cursion by Kenya. Kenya's military strategy is to take control over Kisumu, the second-largest port in southern Somalia—but then what will they do? They can't hold it indefinitely, unless they have a healthy outside source of funds to maintain logistics. That leaves them the alternative of handing the port over to one of the non-al-Shabaab militias.

In fact, one of the real dangers of pushing al-Shabaab out, is that the return of the “liberated” areas back to the warlords, who, having no respect for the government, will choose to carve up Somalia into their own fiefdoms, taking the country back to conditions that look similar to the anarchy of the post-1991 toppling of the Barre government.

Kenya has opened itself up to further internal strife with a Muslim population that already feels persecuted; there are also 2 million ethnic Somalis who are Kenyan citizens, who fear they will be subjected to government harassment. Kenya also risks causing more hardship for the starving Somalis, who may be unable to reach food-aid camps, due to Kenya's military campaign against al-Shabaab, according to J. Peter Pham at the Atlantic Council.

Kenya's accusations that Eritrea is sending arms to al-Shabaab may draw yet another country in the region

directly into the conflict. Also, an extended stay by Kenya's military in Somalia will be used by al-Shabaab as a recruitment tool, denouncing them as foreign occupiers.

News reports of eye-witness sightings of Ethiopian troops crossing their border into Somalia, to open a third front against al-Shabaab, have been denied by the Ethiopian government, but are ominous.

Already, after five weeks, Kenyan troops seem to be bogged down and moving very slowly up the Indian Ocean coastline. Kenya is already asking for additional help from the Obama Administration for "surveillance and reconnaissance intelligence" to advance its military campaign. Sophisticated imagery from drone aircraft for targeting would expand U.S. involvement in Somalia. Kenya also announced a new agreement for Israel to supply experts in counter-terrorism, which will surely be used by al-Shabaab to strengthen its ability to recruit.

With no indications of a quick success by the Kenyan military, whose deployment has widened the conflict, and no reasonable immediate expectation of defeating al-Shabaab, or creating a viable sovereign government in Somalia, the question must be asked: *Cui bono?* Certainly not the Africans, who will continue to die like "slaughtered beasts" from the effects of war, hunger, and disease.

Sudan Is the Linchpin in the Horn

A representative from a nation in the Horn of Africa recently told me that, if Sudan devolves towards regime change, and returns to war, it will make the crisis in Somalia look like a picnic. Look at a map (Figure 1): In addition to sharing borders with Eritrea, Ethiopia, and Kenya, Sudan borders Chad, the Democratic Republic of the Congo, Libya, and Egypt, the latter two of which remain dangerously unstable.

FIGURE 1
The Horn of Africa



Therefore, the continued campaign for the overthrow of the government of Khartoum, by UN Ambassador Susan Rice, a member of Obama's shrinking inner circle, and his chief advisor on Africa, threatens all of Africa.

Rice and her co-thinkers make no effort to hide their decades-old zealous desire to remove President Omar al-Bashir from office, and dismantle the ruling National Congress Party (NCP), without even a scintilla of concern for the welfare of the Sudanese people. Rice is not just the biggest damn fool in the government, she is highly dangerous, as she demonstrated recently, in her undiplomatic, bellicose dressing down of Russia and China in the UN Security Council.

Almost five months after the division of Sudan into two separate nations, conditions between North and

South Sudan have significantly worsened. South Sudan is suffering from an dearth of the most minimal infrastructure, which is preventing the development of its economy, and making it a victim to all sorts of outside financial predators. There is also a growing food shortage in the South, which could explode against the government.

North Sudan is struggling to compensate for the loss of its oil revenue, and is experiencing the effects of years of neglect in realizing the huge potential of its agricultural sector, resulting in inflation, and reduction in subsidies for essential commodities. The failure of West to assist Sudan to develop, and its obsession with breaking the country in two, has left both nations underdeveloped.

The July 9, 2011 forced division of Sudan along old British colonial borders, has predictably created new military conflicts in the states of Blue Nile and South Kordofan, *as intended*. Dialogue between North and South has deteriorated, with many substantial pre-separation issues still unresolved. The creation of the Sudan Revolutionary Front made up of rebel forces from these two states plus Darfur, which plans on marching against Khartoum, clearly indicates the intention to topple the government.

Support from circles in the U.S. for such a provocatively dangerous campaign, with some predicting that the Darfur-based Justice and Equality Movement (JEM), having acquired anti-aircraft missiles from Libya, will bring about the fall of Khartoum within a year, is evidence of real criminal insanity. The degree of backing from the Sudan People's Liberation Army (SPLA), and the South Sudan government in Juba, for this blatant regime-change effort, remains unclear.

We should have, and could have eliminated hunger from the Horn of Africa decades ago, which would have also obviated the growth of asymmetric warfare against nations in the region. The central economic concept to be understood is this: that nations, in opposition to the dictates of free trade and the almighty market forces, should act *willfully*, together, to provide for the general welfare of their citizens, by directing investment to the creation of real wealth.

Most urgently, above all other considerations, is the necessity to produce food to immediately alleviate the suffering. The bestial living conditions that lead people to acts of desperation and despair, are the swamp that provides the fertile recruitment for al-Shabaab and sim-

ilar movements. A sound approach for effective counter-terrorism, and a sensible U.S. diplomacy, would be to dry out the swamp, by providing a standard of living commensurate with human dignity, and some hope for a better future;

It has been known for decades that Sudan has the potential to become the breadbasket of Africa, with studies showing that the 80 million hectares (200 million acres) of fertile arable land, if properly managed, could feed 700 million to 1 billion people. There are several rivers in Sudan, dominated by the Nile River system, and there are many river systems in neighboring Ethiopia. These could provide ample water for irrigation and supply the hydro-electric power to transport the water to where it needs to be, to grow food. This would also require a regional rail transportation network to export food from Sudan to Somalia, Ethiopia, and Kenya.

The next-higher-level infrastructure platform should include nuclear power, and nuclear-powered desalination plants to create and deliver the equivalent of new "Nile Rivers" of potable water for agricultural growth to feed future generations.

There are just under 200 million living in Sudan, South Sudan, Kenya, Ethiopia, Eritrea, Somalia, and Somaliland, not counting the people of Chad and Egypt, who will also need food and water from the Horn. Think about the millions of children who will be born in these countries. What is being done today to provide food, water, and other necessities of life, for a rising material standard of living for those alive today and their posterity?

A complete shift in Horn of Africa (along with the entire continent), away from the horrors of famine and war, to real economic growth and the reinforcement of national sovereignty is essential. But that change will not happen as long as Obama and Rice are determining U.S. policy towards Africa. It is ironic that this Administration, with its two high-ranking "African-Americans," is doing more harm to the people of Africa than any previous U.S. administration. Its militarily enforced regime-change in Libya and elsewhere, the growing numbers of private contractors operating inside targeted countries, and the increased use of drone assassinations, are waking people up to the real true intentions of Rice and Obama. Their policy towards Africa is *not* an American one—it does not represent the true interest of the United States of America. It is British to its core.

In Memoriam

Dr. Zbigniew Jaworowski: Fighting for the Truth

Reprinted from 21st Century Science & Technology.

Dr. Zbigniew Jaworowski died on Nov. 12, while undergoing surgery in Warsaw. He was 84. An atmospheric chemist, radiation specialist, and medical doctor, Professor Jaworowski was a frequent contributor to *21st Century Science & Technology* and *EIR*. He fought fearlessly for the truth, with major original contributions on subjects including the Chernobyl radiation hysteria, the Linear No-Threshold theory, and global warming, and he weathered every attack on him for his views with courage and equanimity.

As the head of radiation protection for Poland at the time of the Chernobyl accident, he pushed the then-Communist regime (in the middle of the night) to act quickly to provide all Polish children with potassium iodide to protect their thyroids against the radioactive iodine released in the accident. Reflecting later on his action, he realized that the radiation levels were elevated, but too low to cause the reaction he was worried about at the time. Later he wrote several scientific analyses of Chernobyl, debunking the exaggerated claims of radiation damage stemming from the nuclear accident, which were published in technical journals and in *21st Century*. His most recent expose of the wild lies and radiophobia can be found at www.21stcenturysciencetech.com. He also fought against the Linear No-Threshold theory of radiation, which falsely holds that *any* amount of radiation, down to zero, is bad.

An avid explorer and mountain climber, Dr. Jaworowski made scientific observations on mountain glaciers on five continents. He first measured the carbon dioxide content of atmospheric air at Spitzbergen in 1957-58. His knowledge of the complex processes of ice formation led him to question the validity of historical CO₂ records that are based on analysis of absorbed gas in ice cores. In a 1992 article with Norwegian geologist Tom Victor Segelstad, he challenged the CO₂ historical record by showing that the melting and re-



Kamil Wróblewski

Dr. Zbigniew Jaworowski

freezing of ice layers, under actual, continuously varying conditions of wind and temperature, eliminated any record of the original atmospheric content of the gas.

Dr. Jaworowski became an outspoken opponent of the global warming fraud, and came to recognize the Malthusian genocidal aims of its proponents. (See the January 2010 interview in *21st Century*, “Global Warming: A Lie Aimed at Destroying Civilization”).

From 1972 to 1991, he investigated the history of pollution of the global atmosphere, measuring the dust preserved in 17 glaciers: in the Tatra Mountains in Poland, in the Arctic, Antarctic, Alaska, Norway, the Alps, the Himalayas, the Ruwenzori Mountains in Uganda, and the Peruvian Andes. Dr. Jaworowski was a member of the UN Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) from 1973 to 2010, and served as its chairman from 1980-82. He held three advanced degrees, Doctor of Medicine, a Ph.D., and Doctor of Science in the natural sciences.

Born in Krakow in 1927, he was 12 years old when World War II began. After the Germans closed all the secondary schools and universities in Poland, he studied clandestinely, learning several modern languages as well as Greek, Latin, and some Sanskrit. He read widely during those years—literary Classics, science, history, and poetry, and often cited Shakespeare and other Classical history in his writings. Dr. Jaworowski published more than 300 scientific papers and four books, and he wrote and edited many scientific documents for UNSCEAR, the International Atomic Energy Agency (IAEA), and the U.S. Environmental Protection Agency.

Russia's Victor Ivanov: The Right War To Fight

We are pleased to publish a complete English version of the presentation “Worldwide Drug Trafficking as the Key Factor of the Escalating Global Financial and Economic Crisis,” given by Victor P. Ivanov, head of Russia’s Federal Drug Control Service, in Washington on Nov. 18, 2011. Ivanov’s briefing is extraordinary and historic, well worth careful study by anybody concerned with war-avoidance and the economic breakdown that is driving the threat of war.

A somber address to the nation by President Dmitri Medvedev on Nov. 23, detailing military countermeasures to the U.S./NATO anti-ballistic missile system plans for Europe, and the deployment of Russian naval forces to the coast of Syria, provide the setting of Ivanov’s speech. He himself has often characterized the flood of Afghanistan heroin into Russia as a “war” assault that is taking the lives of up to 100,000 young Russians each year.

Almost no other prominent figure on the international scene has dared to state the relationship between narcotics trafficking and the global financial bubble in the way that Lyndon LaRouche has done for 35 years. In Ivanov’s briefing, the link was demonstrated before an audience that included representatives from a dozen U.S. government institutions, by the head of a major Russian government agency, who is a close associate of Prime Minister and Presidential candidate Vladimir Putin, and was deputy chief of staff and assistant to Putin as President, in 2000-08. Ivanov makes the case unequivocally: “What is behind this phenomenon? The

very nature of the current global financial system.”

Ivanov crossed the line that all too often keeps officials responsible for security issues out of what Russians call “macroeconomic policy.” He asserts that “the logic of the Glass-Steagall Act,” of cleaning speculation and related criminal activity out of the banking system, is the right idea, but that “liquidation of the financial bubble alone will not be enough.” Rather, “the key way to liquidate global drug trafficking is to reformat the existing economy and shift to one that excludes criminal money, and guarantees the continuing generation of clean liquid assets, i.e., to an economy of development, in which decisions are based on development projects and long-term targeted credits.”

In January 2009, Ivanov proposed close Russian-American cooperation to end the drug business in Afghanistan (*EIR*, Feb. 6, 2009¹). Those offers are still on the table, and Ivanov upgraded them with his June 2010 call for an international coalition against Afghan drugs (*EIR*, June 18, 2010²). In the meantime, he has repeatedly lamented the lack of “serious measures” against dope, from the countries with forces in Afghanistan.

1. http://www.larouchepub.com/eiw/public/2009/2009_1-9/2009-5/pdf/72_3605.pdf

2. http://www.larouchepub.com/eiw/public/2010/2010_20-29/2010-24/pdf/18-20_3724.pdf

Drug Trafficking and The Financial Crisis

by Victor Ivanov

Director of the Federal Drug Control Service (FDCS) of the Russian Federation Victor Ivanov gave this speech, titled “Worldwide Drug Trafficking as the Key Factor of the Escalating Global Financial and Economic Crisis,” at the Center for Strategic and International Studies, in Washington, D.C., on Nov. 18, 2011. The speech has been translated from Russian and sub-heads added.

Mr. Chairman, dear colleagues,

Thank you for your invitation to deliver a speech at your think tank, a well-known worldwide leader.

Yesterday I came from Chicago, where a regular round of consultations and talks of the [counter-narcotics] working group took place within the Obama-Medvedev Russian-American Bilateral Presidential Commission. Gil Kerlikowske, Director of the Office of National Drug Control Policy in the Executive Office of the U.S. President, and your humble servant are co-chairmen of this group.

For two years we have been engaged in close cooperation on specific projects, planning and implementing joint operations and, certainly, discussing the most burning issues: primarily the need to eradicate opium poppy crops in Afghanistan, whose heroin is actually flooding both Russia and the European Union.

To give you an idea of the scope of this phenomenon, I'll cite only one estimate: just one year's output of Afghan heroin is sufficient to kill 10 million drug addicts.

Taking an opportunity to speak today to a well-prepared audience here, at this think tank, I'd like to draw your attention to my view of one of the most intricate and, probably, key challenges in drug policy.

Analysis has shown that about 10-15% of drugs are intercepted, while the share of drug money confiscated is less than 0.5%. This means that the entire revenue from the global drug economy freely enters into circulation and becomes part of global money flows, taking advantage of the capabilities of the legal financial system.

Meanwhile unscrupulous banks, which practice large-scale financial operations beyond their ability to answer for the liabilities they assume, seek to secure the liquidity they need by resorting to the criminal attraction, or, to be more precise, the absorption of huge amounts of criminal money, the greater part of which is drug money.

Here (**Figure 1**) we have revealing official estimates made by Antonio Costa, former Under-Secretary-General of the UNO and Executive Director of the ODC, that during the global crisis in 2008-2009 about 352 billion narcodollars were injected into major world banks to avoid critical shortages of liquidity; later this money was used for interbank loans. This is not surprising, since, according to the IMF, major American and European banks lost over \$1 trillion due to “toxic” assets from January 2007 to September 2009, and over 200 major mortgage companies, and plenty of other financial institutions, have gone bankrupt.

The Problem? The Financial System

It is quite symbolic that this high-ranking international official emphasized that it is not a problem with individual banks, but with the general setup of the whole financial system. Mr. Costa knows what he is talking about: he is an experienced international banker who, among other things, for ten years prior to his work at the UNO was Secretary General of the European Bank for Reconstruction and Development.

Assertions about the leading role of criminal “dirty” drug money in the global crisis are also confirmed by abundant other evidence, including data at the disposal of our service.

FIGURE 1



FDCS

No wonder more and more experts as well as participants in the “Occupy Wall Street” movement, are beginning to talk about the emergence of so-called “financial terrorism.”

At the same time it should be emphasized that periods of crisis merely aggravate and expose the liquidity problem, making it more evident.

It is also obvious, and analytically confirmed, that the existing financial system, which operates using a great and growing number of financial instruments such as options, futures, swaps, and other derivatives that inflate the so-called “financial soap bubble,” can no longer exist without injections of “dirty” money.

This analysis is fully confirmed by the expert appraisals presented in the research report published one month ago by the UN Office of Drug Control and Crime Prevention, “Estimating Illicit Financial Flows Resulting from Drug Trafficking and Other Transnational Organized Crimes.”

The report states outright that nowadays dirty money can very easily enter into legal financial flows; at the same time “investment” of such money gravely disrupts the real economy and substantially impedes economic growth.

The report estimates the total flows of dirty money of transnational organized crime at over a trillion dollars, or 1.5% of the global GDP, and no less than 70% of this money is laundered through financial institutions. The most profitable sector of this “black” economy, according to the report, is the illicit drug trade that accounts for a minimum of half of all global criminal flows (“accounting for half of all proceeds of transnational organized crime”).

The economic toll of drug circulation on society is truly enormous.

The report’s estimations document that the economic damage from drug trafficking is double or triple the value of the drugs. Thus, while the U.S. cocaine market is estimated at \$35 billion and the market of heroin and other drugs at \$15 billion, direct damage to the U.S. economy from drug trafficking is \$150 billion in monetary terms!

Taking into account the fact that similar drug markets are active in the European Union and China, the major trading and economic partners of the United States, this large-scale adverse effect is reproduced in the form of a negative synergy.

And since Europe is the largest market for Afghan heroin, as well as representing half the market for Latin

American cocaine, the result is that the real sector of the economies of the world’s leading countries is collapsing faster and faster. Dirty drug money, in combination with a speculative “bubble,” are simply exhausting the economy of creation and development.

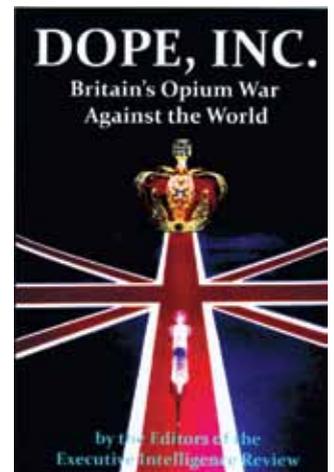
The Case of Wachovia Bank

Here it would be appropriate to mention investigations into the financial operations of Wachovia Bank in 2004-2007, which have been widely discussed in the world mass media. According to the *Observer*, in early 2010 the bank signed an out-of-court settlement with American regulators, and paid about \$150 million in exchange for the dropping of charges that it had assisted in money-laundering. This resulted from a 22-month investigation by U.S. Drug Enforcement Agency officers who established that in 2004-2007, Mexican drug cartels made transactions through the bank using electronic transfers, traveler’s checks, and cash. According to federal prosecutor Jeffrey Sloman, “Wachovia’s blatant disregard for our banking laws gave international cocaine cartels a virtual carte blanche to

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*This edition, published by Progressive Independent Media, is currently available in limited numbers, so there is no time to waste in buying yours today. The cost is \$25 per book, with \$4 for shipping and handling. It is available through www.larouchepub.com, and *EIR*, at 1-800-278-3135.*

FIGURE 2



finance their operations by laundering drug proceeds.” The most disgusting and essential thing was that the bank was found guilty of transferring \$378.4 billion (the amount is equal to one-third of the Mexican GDP) to dollar accounts at so-called currency exchange offices in Mexico.

There are other, similar cases in which banks did not inform the financial authorities about such operations. Besides the Wachovia case, the U.S. drug police also reported about criminal transactions through another major bank, Bank of America. In one case they tracked transactions related to sales of 22 tons of cocaine, and in a second case, of 10 tons of this drug.

Other banks also came under suspicion and were fined, including the American Express Bank and HSBC.

What is behind this phenomenon? The very nature of the current global financial system.

Today the role of the different types of ersatz money, various derivatives, securitized bonds, futures, etc. that constitute the so-called financial speculative “soap bubble” is already quite obvious.

Figure 2 clearly shows cumulative registered financial liabilities in the amount of \$600 trillion. Since secured liabilities account for just \$10 trillion of the total amount, it is quite obvious that unsecured liabilities, or the “financial bubble,” are 10 times greater than secured ones. Indeed, these facts have been thoroughly investigated and described many times; unfortunately, they have become commonplace.

It is the increasing volume of unsecured liabilities that underlies the surging crisis we face.

FIGURE 3



FIGURE 4

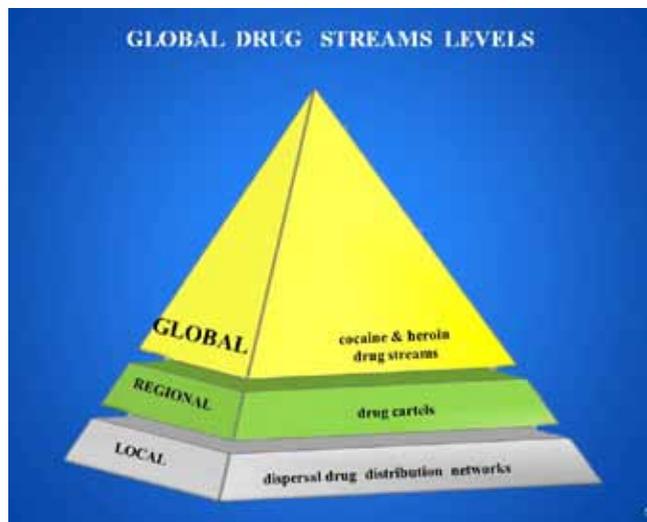


Naturally in this situation the real economy is extremely weak, since it is affected by the “soap bubble” swelling on top of it. **Figure 3** shows it in the immensely overblown upper part, on top of the rather narrow sector of the real economy.

Almost nobody, however, pays attention to a kind of a paradox: how, under conditions where the economy is slackening and essentially crisis-ridden, banks manage to procure liquidity and service their liabilities.

The problem is even greater, in that the “bubble” is compounded by a heavy encumbrance in the form of unrecoverable military expenses (see **Figure 4**). Studies have shown that the persistent lack of liquidity and attempts to stay afloat during a crisis promote not only tolerance toward criminal money, but also an attitude of

FIGURE 5



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encouraging the availability of such money.

Furthermore, this circumstance, i.e., the possibility of continuously replenishing greatly needed liquidity, is what, in many respects, functions as the moving spring of the ongoing financial and economic, and social, demand for drug production.

Figure 4 is a kind of an X-ray of the mechanics of the current financial crisis. Drug money and the global drug traffic are actually not just valuable elements, but, as donors of liquidity which is so scarce, they are a vital and indispensable segment of the whole monetary system.

The Overlooked 6% of World Trade

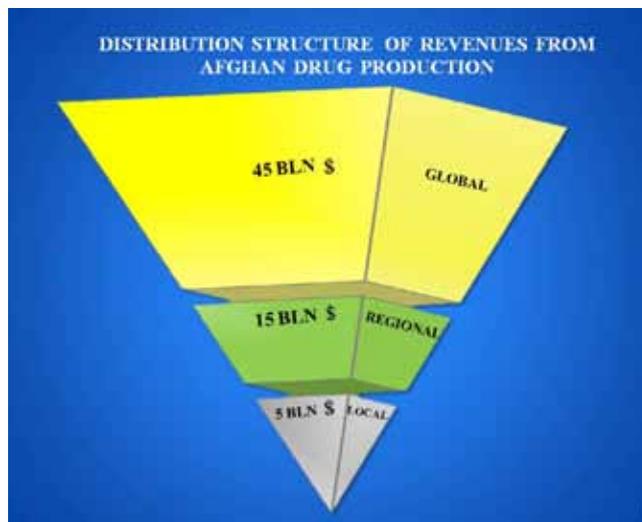
It should be emphasized that the degree of impact of hydrocarbons (oil and gas) on the global economy is common knowledge: They account for about 6% of total world trade. The impact of the narcotics market, which is estimated at approximately the same size, is not looked at by economists and politicians. Yet the development of adequate solutions should be based on a deep understanding of the specifics of global drug trafficking.

So far, unfortunately, anti-drug policies have been dominated by local or, at best, regional or interregional efforts.

To elaborate adequate solutions and understand what is going on, one should have a better idea of global drug streams. Yet the primary capacity of a drug stream is beyond the local and regional levels: It is at the top, global level of drug crime, as shown in **Figure 5**.

This is also confirmed by analysis of the distribution

FIGURE 6



FDCS

of the drug mafia's financial proceeds from sales of Afghan drug products, corresponding to these same levels.

This slide of an example, the structure of Afghan drug trafficking proceeds (**Figure 6**), shows that the distribution pyramid for its proceeds by level is inverted, compared with the pyramid for the distribution, by level, of offenders and their criminal transactions.

The structure of distribution of profits from global cocaine production, with total proceeds in 2009 of around \$84 billion, shows the same pattern. While Andean coca farmers earned about \$1 billion, the bulk of the income of \$35 billion was concentrated in North America, with another \$26 billion in Central Europe.

That [North America and Europe] is where, naturally, almost 80% of the illicit proceeds of the cocaine trade are laundered, while just one tenth of the income, a portion of the funds obtained in other regions, are laundered in the Caribbean.

At the present time there are two obvious components of global drug trafficking, or drug streams, as shown in **Figure 7**: Latin American cocaine and Afghanistan heroin.

The direction, intensity, and extraordinary capacity of these two components of the traffic require that they be specified more precisely as "streams."

The impressive, devastating capacity of these drug streams is particularly visible from the situation in the drug transit countries, which, falling under their influence, enter into endless social and political turbulence, since their budgets are smaller than the value of the

FIGURE 7



FDCS

drug streams crossing their territories by a factor of two or three, and sometimes by orders of magnitude.

I don't think it is appropriate here to go into the details of the current semi-civil war in Mexico, which is being literally ripped apart by avalanching drug streams.

Let us have a look at Central Asia. The budgets of the nations of Tajikistan and Kyrgyzstan, located on the Northern Route of Afghan heroin, are several times less than the financial capacity of the Afghan drug trafficking that passes through their territories.

Unfortunately, the globalization of drug crime and the emergence of global drug streams that sweep away everything in their path have also become commonplace for the countries of the Balkan peninsula. Suffice it to point out that, as a result of the well-known events, the geographic region of Kosovo has turned into the main drug transit cluster in Europe, an epicenter where, on the one hand, two global drug streams intersect—cocaine coming via Africa and heroin via Turkey; while, on the other hand, there is targeted transshipment of narcotics into the EU countries.

According to UN estimates, about 50 tons of heroin annually comes through this European center of cocaine and heroin distribution, with the annual transit profits amounting to EUR3 billion, i.e., twice the size of the total budget of Kosovo.

The same trends are seen in global cocaine trafficking through the territories of Niger, Guinea Bissau, and other African countries.

Furthermore, analysis of the global cocaine trafficking shows that, in the past decade, it has drastically shifted towards Europe, while establishing hundreds of new transit routes from Latin America to Europe via West Africa.

Meanwhile there is an absolutely evident process, which is typical of such situations, and is especially clear in the example of the western Sahel countries, whereby drug trafficking is rapidly becoming a dominant, criminal geopolitical factor, one possessing huge financial, technological, and human resources, which have been mobilized to reformat the global political and economic space.

Destabilizing Region After Region

The most conspicuous examples are the upheavals in Guinea Bissau, Mauritania, and Niger, as well as current riots in the Ivory Coast. Drug trafficking has also contributed a lot to the destabilization of the situation in the Arab countries.

These examples of destabilization in transit countries is another revealing characteristic of the global scale of drug trafficking. Only a comprehensive and integrated understanding of the nature and dynamics of these global drug streams will allow us to grasp the essence of the threat posed by drug crime.

It is encouraging that the G-8 Summit in Deauville gave consideration to the problem, thus making it quite a promising area for cooperation aimed at strengthening international security.

But that is definitely not enough.

There must be a resolute consolidation of the governments of leading countries to set up a global anti-drug coalition, which would combat drug trafficking at the global level, in close cooperation with politicians, economists, and financiers.

Transforming the Financial System

Drastic transformation of the international financial system will be obviously required to liquidate global drug trafficking.

Initial steps are already being taken in that direction.

Thus, precisely two weeks ago the Big 20 adopted a resolution on mandatory monitoring of financial flows.

To a certain extent we are observing a revival of the logic of the Glass-Steagall Act, adopted in the U.S. in 1933 at the height of the Great Depression, which sepa-

rated the deposit and investment functions of banks.

But tough restrictions to prevent the attraction of criminal money are required even more.

In other words, liquidation of the financial bubble alone will not be enough.

I kindly ask you to focus your attention on the basic outline once again (Figure 4).

It is quite obvious that liquidation of the “bubble” must be backed up by the elimination of the ability to sustain drug production, which is based on renewable bioresources: coca bushes and opium poppy as the primary source of the basic drug money supply.

Repressive measures alone, however, are insufficient.

The key way to liquidate global drug trafficking is to reformat the existing economy and shift to an economy that excludes criminal money and guarantees the continuing generation of clean liquid assets, i.e., to an economy of development, in which decisions are based on development projects and long-term targeted credits.

A sample of such an approach could be Russia’s “Rainbow 2” Plan for the Liquidation of Afghan Drug Production, presented last March to the Russia-NATO Council.

Its Paragraph 2 was titled, “Elaboration and Implementation of a Program for Afghan Economic Revival and Development through Infrastructure Development.”

The case of Afghanistan is the most visible and demonstrative in terms of the problem.

The more this long-suffering country is destroyed, the more hostilities take place there, and the more that utmost geopolitical tension persists, the longer Afghanistan will be the global center and monopolist of opiate production and, since 2010, also of cannaboids and hashish.

In this respect I find promising the statement made by Mr. Rasmussen, the Secretary General of NATO, on Nov. 3, where he fairly pointed out that “mere eradication” of poppy fields in Afghanistan is insufficient; it is necessary to provide Afghan peasants with alternative crops to grow, i.e., to provide them with means of existence.

The Secretary General emphasized that he counts here on the “expansion of cooperation between Russia and NATO.”

These are inspiring words. And I believe that this position could be among the key ones at the jubilee summit of the Russia-NATO Council next May in Chicago.

Thank you for your attention.

Lyndon LaRouche on Glass-Steagall and NAWAPA:

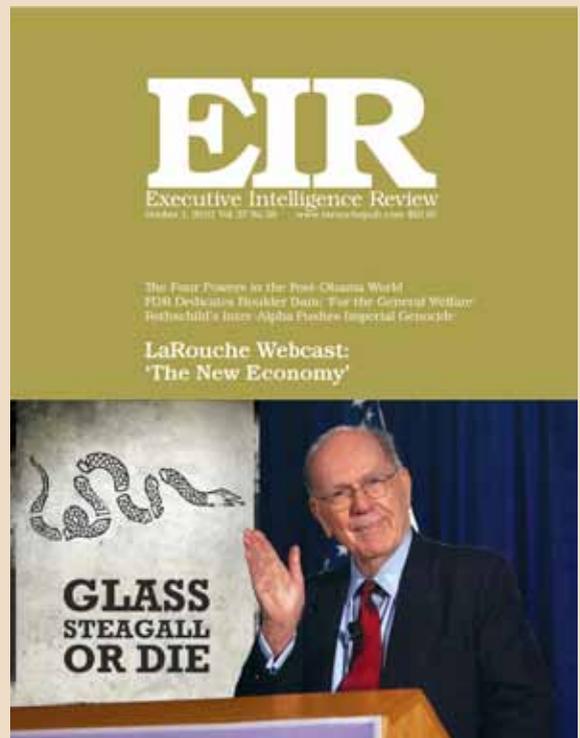
“The greatest project that mankind has ever undertaken on this planet, as an economic project, now stands before us, as the opportunity which can be set into motion by the United States now launching the NAWAPA* project, with the preliminary step of reorganizing the banking system through Glass-Steagall, and then moving on from there.”

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Iran Has a Nuclear Power, Not a Weapons Program

Clinton Bastin, a nuclear scientist, chemical engineer, and former Department of Energy official, was interviewed on the recent IAEA report on Iran's nuclear program.

Clinton Bastin was responsible for the U.S. Atomic Energy Commission (AEC)'s reprocessing of plutonium, and plutonium scrap operations, plutonium-238 production, transuranic materials processing, tritium and deuterium production for weapons programs, radioactive waste management, and related activities at the Department of Energy's Savannah River Plant in South Carolina. He was also involved in the diplomatic side of U.S. international nuclear efforts, and he was president of the Federal Employees Union at the Department of Energy headquarters.



Courtesy of Clinton Bastin

Upon his retirement, Bastin was recognized by the DOE in a Distinguished Career Service Award, as the U.S. authority on reprocessing and initiator of total quality management and partnering agreements. Bastin served as a Marine in World War II and was an instructor in chemistry for the Marine Corps Institute.

He was interviewed on Nov. 18, 2011, by Marjorie Mazel Hecht, Managing Editor of 21st Century Science & Technology magazine. Here is an edited transcript.

21st Century: As a nuclear scientist and chemical engineer, who for decades directed U.S. programs for production and processing of nuclear materials and

components for weapons, you have asserted that there is no weapons threat from Iran. What is your assessment of Iran's nuclear program?

Bastin: It's a nuclear power program. Iran made a commitment to full use of nuclear power in 1970, ordered five nuclear plants from the United States, which promised, but later denied, reprocessing technology. This resulted in Iran's cancelling the U.S. plants and ordering them from others, which were cancelled during the revolution. But Iran has stayed committed to nuclear power. Russia is building Iran's nuclear plant, which is ready to

start operation.

Because of the denial of reprocessing, Iran is reluctant to rely on others, so they wanted to enrich their own uranium, which is essential for nuclear power. That's what they're doing. Their reactor is a U.S.-type light water reactor. The Russians started building them successfully, and I think it's fine.

I believe Pakistan provided the gas centrifuges, which have had problems. I was a member of the Atomic Energy Commission's steering committee for gas centrifuge development, and I know that they are very sensitive, run at high power, and often crash. I suspect problems are related to that, and not computer

hacking. Iran also has a research reactor, Osiris, which was built by the French and uses 20% enriched uranium, which they've been getting from others and would like to make themselves. Twenty percent is not weapons material. Weapons material is about 90%. David Albright has been claiming that you can make a weapon with it, but it would be incredibly difficult, and it's not a rational thing to try.

Iran Cannot Make a Nuclear Weapon

21st Century: You mean he's claiming that you can make a weapon with 20% enriched uranium?

Bastin: He said theoretically you could—but you could not. A gun-type weapon would require several tons of highly enriched uranium, and wouldn't make sense. Anyway, that's not a real concern under these circumstances. To make a bomb, Iran would not only have to further enrich the uranium in its existing facilities—which would be difficult to do—but after they complete further enrichment, they would have to convert the gas to metal. Iran doesn't have the facilities or experience to do that. It would take years. The most important thing to realize is that any diversion of uranium for further enrichment or anything else would be immediately detected. It's very easy to detect diversion from a gas centrifuge facility.

21st Century: Do you mean detection by the IAEA inspectors?

Bastin: Yes, they are good at it, and it's appropriate for them to do it. That's the only thing that you can count on to make sure that nobody's building weapons. The nonsense of drawings of this, or drawings of that—it's really just nonsense. ElBaradei, the former IAEA director general, recognized this and he said, during our conversation, that no, there was no threat from Iran's nuclear power program.

21st Century: You've criticized the IAEA report's claim on Iran's nuclear program as incompetent. Can you give some examples of this?

Bastin: Yes, that's what's going on right now. The IAEA director general now—I guess he's a political person, I don't really know. I've looked at some things about him, and it sounds like he's been more like a political person. I think some people come in, as in the Department of Energy, and they accept everything that people tell them. And I think he's come in, and believes all those inspectors that have seen things, have found

things, that they shouldn't really—they have long trigger lists of things to look for, and it misleads them. The inspectors don't really know anything about nuclear weapons production, but they have this long list of items that are mostly normal chemical engineering-type processes, used in operations, or similar things that they'll run into.

Now, on the drawings: I'm sure in Iran that there are people who are upset about everything—you know, they have lots of problems as a country. The drawings, I'm sure, are made by people that are sort of ticked off, here, there, and yonder. Drawings for a weapons program: I had all the drawings in the Atomic Energy Commission for all weapons. Nobody ever sees those except people I want to see them. The drawings the inspectors have seen are something that somebody has played with.

21st Century: So you think that inside Iran, some people have produced drawings that these inspectors find, and the drawings are just manufactured.

Bastin: Yes. I think some scientists might have played around, but in a realistic manner. Drawings of assembling a hypothetical nuclear weapon with a missile are particularly unrealistic. I've watched U.S. nuclear warheads being attached on missiles for the U.S. weapons. You have to know what the weapon looks like. You can't build a hypothetical weapon in a meaningful way, and put it on a hypothetical missile, or even a real missile, if you don't know what everything looks like. The whole thing is stupid. It's sort of stupid, and when I say they're ignorant, it's really worse than that.

'Nobody Knew Anything'

21st Century: Is it different now in the IAEA than it used to be? Are inspectors less trained now than they used to be?

Bastin: They are trained to detect the diversion of nuclear material, and that's what they do. But they're also given a list of things to look for, that suggest weapons activities. *But the IAEA doesn't have people who know about nuclear weapons. They don't build nuclear weapons. I've never met anybody—and I've been to the IAEA many, many times—and I've never met anybody who knows anything about nuclear weapons.*

That's also the problem in Washington, D.C. For the 25 years I was there, when involved with nuclear weap-

ons business, with inter-agency and other committees, nobody knew anything about what I was telling them. It was interesting at times. Once I met at the Department of State with a group involved with concerns about nuclear programs in India. I was asked to go to India and take a look and made a report. The representative from the Arms Control and Disarmament Agency said, “We’ve been looking at this problem for four years, and it looks like we now finally know what we’re talking about.”

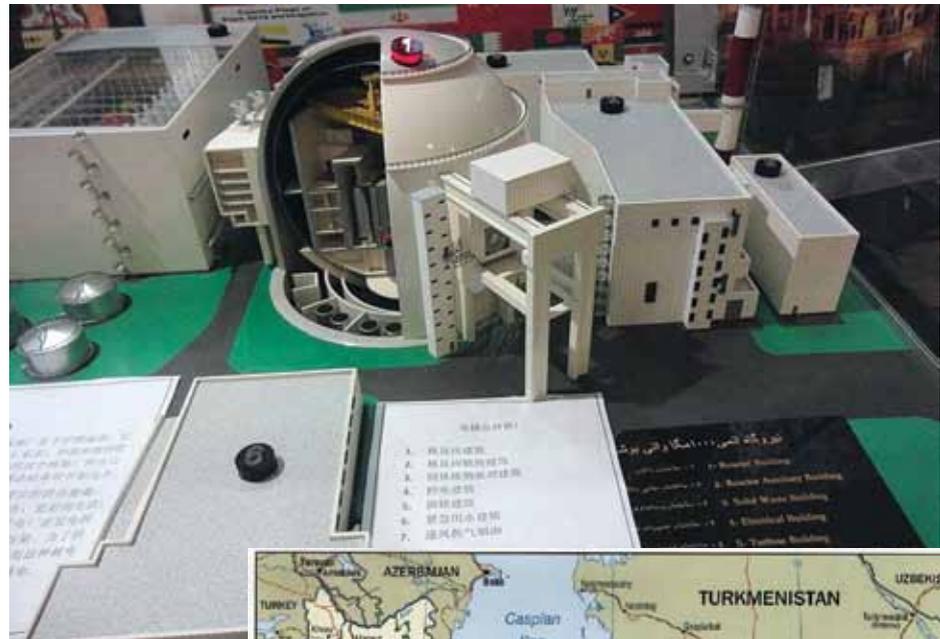
That’s the reality in the U.S., the reality in the UN, and the reality almost everywhere—except perhaps Russia and China. I spent a week with the Minister of Nuclear Energy in Russia and a lot of other leaders, and I think they know more about what they’re dealing with. And I imagine that China does too. But our system is dysfunctional. You know, the Department of Energy has lost the ability to produce nuclear materials, because they didn’t really know about things. It’s really awful.

21st Century: That’s not comforting—

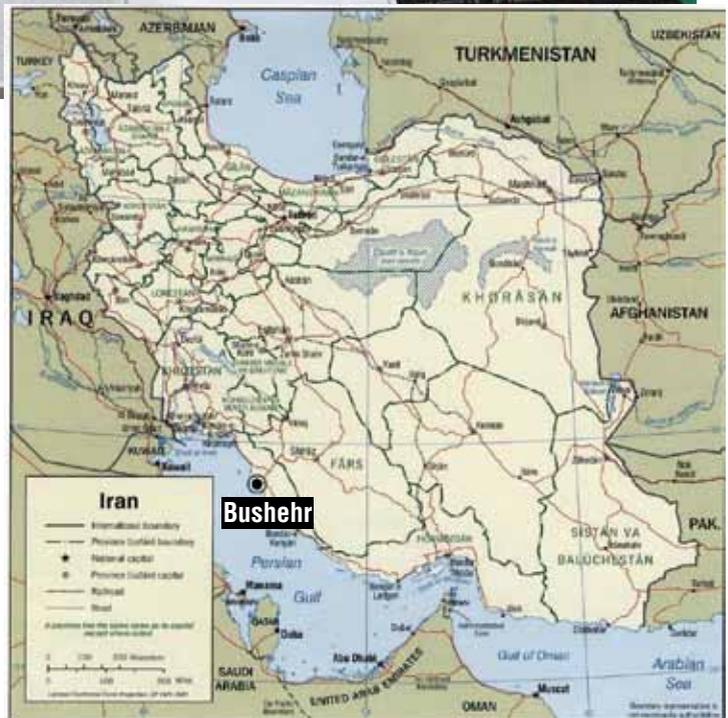
Bastin: Yes! Iran is just one of many that I’ve focussed on, and I’m very much interested in it because it has awful potential consequences if somebody attacks them.

21st Century: Absolutely. I know that you wrote a detailed letter to the Israeli Prime Minister, Netanyahu, about Iran’s nuclear weapons, or lack of such. Have you had a response?

FIGURE 1



Iran made a commitment to full use of nuclear power in 1970, Bastin stated. He refutes reports, including those of the IAEA, that Tehran is building nuclear weapons. Shown: a model of the Bushehr Nuclear Power Plant, exhibited in the Iranian pavilion of EXPO 2010 in Shanghai. The map shows the location of Bushehr.



Wikimedia Commons

Bastin: Yes, let me elaborate on this: I started three years ago with the Consul-General of Israel in Atlanta. I sent e-mail messages, and in March 2009, we had detailed discussions. I’m sure everything I said was sent to Tel Aviv, and I feel 100% certain that he knew I knew what I was talking about.

I sent some of the information to President Obama, and I got a call from the FBI office in Atlanta saying that they wanted to meet with me. The White House

referred me to the FBI weapons of mass destruction unit, and they asked to meet with me to verify that this information was valuable. After my meeting with the Consul-General, there was an article about a statement made by Netanyahu to Ahmadinejad of Iran that Iran's nuclear programs for weapons are meant to kill Jews, just like Hitler's in World War II.

I sent an e-mail message to Netanyahu that Germany didn't have a nuclear weapons program in World War II; they had a nuclear program, but their scientists never focussed on the idea of a nuclear explosion. That's from the book *Alsos* by Samuel Goudsmit, who was the principal scientist for the Alsos (Greek word for Groves), the project that looked into nuclear work that Germany was doing. When German scientists found out about the U.S. nuclear weapons, they went into shock because they couldn't believe that the U.S. scientists could do something that they had never been able to figure out at all. Fascinating book!

"We acknowledge receipt of your e-mail to Prime Minister Benjamin Netanyahu, the contents of which have been duly noted"—was the response to my information to Prime Minister Netanyahu. They didn't say they were going to do anything, but I remember, after one particular message, the next thing I heard from the White House, was that Israel had stopped making threats. The White House information said that it was because of trouble with the gas centrifuges, but my feeling is that they knew that the information that I was providing is sound. And so did the FBI.

I've written to the Senators from Georgia, and all I get is the rhetoric and folderol and so forth, which doesn't have a damn thing to do with whether Iran can make a nuclear weapon. They cite all the things the inspectors say. The IAEA inspectors were saying the same things that they were saying when ElBaradei was there, but ElBaradei recognized that they were not valid concerns. They were not then, and they are not now.

Don't Listen to Know-Nothings

21st Century: So you think ElBaradei had more sense about the situation?

Bastin: He had more sense about the reality of things in this situation. I enjoyed him and liked his approach. He got the Nobel Peace Prize. I was union president at Department of Energy headquarters, and had interaction with secretaries of energy. Most of them would get information from the know-nothings and go

with the flow. But I could sense with a few that they were interested in getting really good information. And I think ElBaradei was one of those.

21st Century: Well, it's a good quality not to listen to the know-nothings. One of the things you noted in the various things you've written is that most of the so-called scientific experts quoted by the press are not nuclear weapons experts at all, but ideologues with an agenda, like David Albright whose scare statements—

Bastin: David Albright and his Institute for Science and International Security. I know him and I know he has an agenda. I'm interested in taking care of this business, and it's got to be done by people who know what they are doing. Dave does not. I met Dave for the first time after I had testified and shot down something that Representative Markey of Massachusetts was trying to do. But then when I was active in the nuclear weapons freeze campaign, I commended Markey for his support for this campaign.

21st Century: This must have been in the '80s.

Bastin: Yes, '87, '88—I'm not sure exactly. The session was about a GAO review of a report that I had determined was non-valuable to the Japanese for reprocessing. The GAO review and testimony to Markey was by a nuclear engineer who said that it was valuable for reprocessing.

I was in Japan a couple of months after it was provided to the Japanese, who said it was worthless. It was done by Bechtel, and right after the testimony, I was on an elevator with a vice president of Bechtel and apologized for assaulting the quality of Bechtel work. He said: "Apologize nothing. You did a great thing. You got us off a real nasty hook." And they offered me a job after that. I didn't take it.

21st Century: What are some of the specific technical areas that you think people are being misled on by the so-called experts?

Bastin: The one I most emphasize is the failure to recognize that a nuclear weapon cannot be made of gas. The gas must be converted to metal, a difficult and very dangerous process because of the high potential for a critical accident (like a nuclear reactor without shielding) that would kill anyone in the room or nearby.

Iran has no experience with this process, and no fa-

cilities to carry it out. Assembly of metal components with high explosives is even more dangerous, because a nuclear explosion would kill those within half a mile. Because of the difficulties, Iran would need 10 to 15 years to make a weapon, after diversion of low-enriched uranium, which would be immediately detected by IAEA inspectors. Iran's leaders know that their facilities would be attacked following a diversion. So they not only wouldn't be able to build a weapon—

21st Century: They'd lose a lot of their country.

Bastin: Okay, so if nobody bombs, and 15 years later, Iran has a nuclear weapon. Israel has 400 nuclear weapons, tested and deliverable. What kind of idiots would make weapons under those circumstances? It is absolute stupidity to believe that they are that idiotic. They are not.

Iran is interested in nuclear power, and nobody seems to appreciate that, because Iran has oil. Iran knows its oil is not going to last forever.

21st Century: And that decision was made way back in 1970, with the U.S. support at that time.

Bastin: That's right. The U.S. State Department promised Iran all the technology needed. But the reprocessing technology promised to Iran had failed in U.S. programs. I'd been transferred to Atomic Energy Commission headquarters to deal with those failures, and was given the staff paper to review for the transfer of technology that would be provided to Iran. I recommended that the reprocessing technology not be provided, and the AEC denied the transfer. That led, partially, to an early breakdown of relations between the U.S. and Iran, and—in my opinion—the oil embargo of 1973. I remember reading about Iranian oil ships that were at sea during long periods of time during that embargo.

An End to Foolish Rhetoric and Hostile Actions

21st Century: You've mentioned in your writings that similar unfounded claims about Iraq led to the U.S. decision to invade Iraq, which cost hundreds of thousands of lives and a trillion dollars plus, and now, instead of us repeating that situation, you've called for negotiations based on mutual interest and an end to foolish rhetoric and hostile actions. What are the prospects for this, and what kind of support have

you gotten from the nuclear community for your campaign?

Bastin: Good question. After U.S. officials determined there was a weapon threat in Iran, *Nuclear News*, the monthly magazine of the American Nuclear Society, published my letter that the idea that Iran was a nuclear weapon threat belongs on the same shelf as the notion that 1 rad of radiation to 1,000 people would mean the death of one of those people—the linear no-threshold hypothesis.

The *New York Times* published two of my letters, and the *American Legion Magazine* published my letter, but I really have not had much support from the nuclear community, nor from U.S. officials. I've given talks to community groups in this area, and I've sent the text out, but once things start going out of control, it's hard to get them back.

21st Century: It's true, but you have to keep it up.

Bastin: Yes, I'm going to keep working on it. I do what I can, I hope. And I was really overjoyed with my efforts with Israel, which, in my opinion, resulted in Israel ending their threats to Iran's nuclear facility. But that's picked back up again. People in Israel don't understand the situation. And there are few people who understand it here, or anywhere.

21st Century: Let's try and get your interview out to more people on the LPAC-TV.

Bastin: That would be great. I appreciate your doing this, and I hope it is of value.

21st Century: I think so, and for the reason that all of the so-called experts in the press, as you have pointed out, are really not experts in this technical area.

Bastin: I mentioned to David Albright that Pakistan's gun-type weapons require about 50 kilograms of highly enriched uranium, and that the numbers that appear in the newspaper are probably high. He said Pakistan's weapons are implosion-type, not gun-type, and have solid metal components. I said, "Wait a minute, David, you know better than that." I laughed. He got mad and cut me off, and we are no longer colleagues.

An implosion-type weapon is a hollow sphere of plutonium or uranium metal, surrounded by high explosives with detonators on the outside. The explosion squeezes the nuclear material into a tiny ball, which be-

comes supercritical and explodes with great force. But explosives will not squeeze solid metal. David's comment wasn't just technically invalid, it was stupid.

A gun-type weapon consists of two solid chunks of metal, one a cylinder, the other with a hole the size of the cylinder. The cylinder is driven into the other chunk, and boom!

21st Century: But it takes a lot more of the enriched uranium.

Bastin: The implosion weapon is a hollow sphere or spheroid, surrounded by explosives, with detonators on the outside, all contained within a strong structure. So all the force squeezes the hollow sphere into a tiny ball, a very small and very highly critical mass, and it makes a big explosion. And you can't do it with solid metal, because it won't squeeze.

21st Century: Was your point with Albright that Pakistan did not have the technology to do an implosion-type weapon?

Bastin: Yes. They are much more difficult to make,

have to be tested prior to use. The Manhattan Project had to test the implosion weapon at Alamogordo, before it could be declared usable, whereas the gun-type weapon was used at Hiroshima without any testing. The implosion-type is a much more sophisticated, complex weapon.

The Israeli weapons are the implosion type, but are of French design. The French helped the Israelis with their weapons program. India's is also an implosion type, but it took them a long time, and they've got an awful lot of very, very smart physicists and others in India. It took a long time, and I understand that they had some failed tests before they were successful.

Now, North Korea—I'm not sure what they have. Because they have a plutonium system. The first test was a dud, the second test apparently was successful. Whether they actually had a plutonium implosion weapon, I don't really know. Maybe Pakistan loaned them something. It's hard to know.

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The Solar Storm Threat To America's Power Grid
Laurence Hecht
Warnings have gone unheeded; we need to begin mitigation remedies now.

The Importance of NAWAPA for Geophysical Research

Peter Martinson

The North American Water and Power Alliance will make the deserts bloom and provide ample fresh water for thirst Western states, at the same time that it revolutionizes our understanding of terrestrial geology.

Nuclear Power and NAWAPA Nuclear Power and NAWAPA: What Will It Take?

DeWitt Moss

A nuclear engineer reviews the monumental challenge of NAWAPA and the nuclear options available to power its pumps, lifts, railways, and new communities.

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Dale E. Klein, Ph.D.

The former chairman of the Nuclear Regulatory Commission makes a forceful case for using reprocessing to close the U.S. nuclear fuel cycle.

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A NATIONAL POLICY DISCUSSION

Basement Team: What Is the Universe, That You Exist?

On Nov. 19, LaRouchePAC-TV hosted its first-ever webcast Town Hall event featuring “Basement Team” scientific researchers, Peter Martinson and Cody Jones, who gave presentations on the subject of “What is the real universe, such that you exist?” and then fielded questions from gatherings of viewers throughout the nation.

The event was convened during what may be one of the most definitive moments in the history of our species. Historically, it has been only the significant, fundamental scientific breakthroughs, specifically in economics and the role of mankind in the universe, that have ever effectively outflanked the historic and destructive commitment of the oligarchical principle to keep the population of man limited to a negligible number manageable by imperial means.

Today it is the British Empire that wields the oligarchical principle, employing the President of the United States as its crown puppet. If we as a species wish to survive, and further our understanding of what this universe has in store for us, this is the immediate political reality that we must address.

The webcast was hosted by LPAC

editor Matthew Ogden. The video is available at <http://larouchepac.com/national-policy-discussion>.

Peter Martinson: Defeating the Oligarchical Principle

The current British Empire, which is the current representation of an old system called the oligarchical principle, one way or another, very soon, this British



EIRNS/Stuart Lewis

The LPAC Basement’s Scientific Team’s first webcast featured Basement researchers Peter Martinson (left) and Creighton (Cody) Jones (speaking) in a discussion of the principles of the developing universe.

Empire is going to cease to exist. Now there are various ways that this is going to come about, but the entire system is collapsing right now. People have seen—it's pretty obvious—the global economic system is finished. You look at what's happening in the United States, and you look at what's happening in Europe: This system is gone. Now, that represents the end of the British monetary system, which is why they're going for thermonuclear war. Their system is finished. The attempt to get a thermonuclear war going, by getting the United States under Obama to uncork the nuclear bottle into not just Southeast Asia, but over Russia and over China—this is a death-spasm of the British Empire. This system is finished. The only question is: Are they going to take the rest of civilization down with them?

That's the issue I'm going to address right now, because we're faced with two options: thermonuclear war and the collapse of the world economy, which means the reduction of the world's population to less than 2, possibly 1 billion people. The British Empire is calling for less than 1 billion people publicly now. Either the reduction of the world's population rapidly to those levels, or the elimination of the British Empire (we can put them in a museum somewhere, so that we can learn from our younger-age mistakes). And the expansion of man's conquest into space: We are destined to become a space-faring creature, *if* we can put down the British Empire without them taking us out.

The Oligarchical Principle

What I'm going to go through is how the British Empire, as an ancient oligarchical system, works, how it's worked up to now; what we're actually up against. Now, the system is very, very old. The British Empire is just a modern representation of this old system, called the oligarchical system, which has its roots in the story of Prometheus vs. Zeus.

What's the issue? Prometheus was not a god. Prometheus was one of the Titans, one of the forebears of the so-called Olympian gods—Zeus and the rest of the gaggle. Prometheus created man; the gods came in and took power, and treated man as their plaything. Zeus is the most famous example of this. The people, the human beings, were always the chess pieces that were moved around, the toys that were played with, that were messed around with. If you wiped out civilization here or there, it didn't matter, because they're just animals, they're playthings.

Now Prometheus, who is known for his abilities of

forecasting and foresight, saw this as a great wrong. And there's good evidence that this story is based in truth, but it was turned into an actual legend. Prometheus thought that this was terrible that the gods were treating man like this. So, Prometheus came down and gave man, among other things, the power of wielding fire, which is a higher technology than hunting down roots and berries, and throwing rocks at animals to get them and eat them.

Fire is a higher development of technology, and requires an insight into universal principles. From our standpoint today, it would be possibly a primitive universal principle, but it requires an insight into processes of the universe. So, Prometheus gave man fire, among other things, like medicine, the powers of astronomy, the powers of understanding the nature of the “wanderers” [Plato's term for planets—ed.] in the sky, to look at how that impacts lives, your life on the Earth. Prometheus gave man the ability to do science.

The result of that was that Zeus got extremely angry, and stuck Prometheus on a rock, and had his liver eaten out every day for 10,000 years. Prometheus didn't care about that. What he cared about was man getting its power back over these gods.

Now, the system is an old system. It's called our oligarchical system, and it's totally in play today. The system is, you have oligarchy, a small group of people, who consider themselves a higher species of organism than the rest of the population. They believe that all creatures on the planet are animals, including humans, and that they are a higher order of species, and therefore they have the right to enslave and keep men as cattle, the rest of the population. So, the game is, how do you keep your power?

Man has the ability to be creative, and make discoveries, and increase his power over the universe. That creative power is the number one threat to the existence of an oligarchy. So, this is where the nature of oligarchical strategy comes in, if you can call it strategy. The method is to get people to forget that they're creative, believe that they're animals, and stop acting like humans. That's the game.

How do you repress scientific and technological progress? How do you repress creative activity among humans? And as a corollary, how do you keep the population of human beings down, so that you can manage them, as a manageable group of cattle? The oligarchy, going all the way back to Zeus, and then all the way up to today, instinctively acts against, represses creativity,

vival in the universe depends on scientific and creative breakthroughs in understanding the processes that create and drive our universe. The only way we make those breakthroughs, which we've seen through the history of science on the Earth, is by pushing the boundaries of knowledge, and pushing the boundaries of human capabilities. Right now, those boundaries lie in space.

So, the Obama Administration and the Bush Administration, but the Obama Administration particularly, is acting as the worst battering ram against the forefront of human science; the worst battering ram that we've ever seen in the history of man, from what I can tell.

This is a British operation. Anybody who thinks that you can negotiate with Obama on this—! You know, Congress has just passed the continuing resolution budget in order to fund certain things in NASA. If you think that you can make negotiations with Obama and save any aspect of the space program, you're wrong, because Obama is not a human being. He's human in biology, but Obama is a creation of the British Empire. He's not just a British agent; he's a British operation. Obama's mission is to destroy the United States and destroy the human population, human civilization around the world. That's why he's going after NASA, that's why he's going after the space program, that's why he's going after every aspect of science. As long as he's in there, if he remains until 2013—if we perchance survive a thermonuclear war, which is what they're gunning for now, earlier than expected—we'll have no space program. And therefore, we'll have no avenue for making new discoveries in space.

This is a British operation, and it's typically British. This is just an example of how the British operate, as an extension, as the modern representation, of the oligarchical principle, going all the way back to Prometheus. This is an example of the oligarchical instinct.

Real Science vs. Sense Perception

Now, what does the oligarchy do? In order to suppress science, besides just rampant ham-fisted bashing like the Obama Administration is doing, the oligarchy, the British as the prime example, produce what can be called "synthetic religions" to replace real science.

There's a real scientific current among the human race. For example, if you look at the discoveries starting with Plato, there's a current of scientific work, Plato through Cusa, through Johannes Kepler's work on astrophysics, through Leibniz, through Carl Gauss, through his student Bernhard Riemann, through one of

the followers of Riemann, Albert Einstein, through Russian biogeochemist Vladimir Vernadsky, up through Lyndon LaRouche today: We have a current of science, of real scientific discovery, which has as its core the idea that man has the ability to recognize that the universe that's presented to your senses is not the real universe.

The universe that's presented to your senses is a universe of shadows. Man has established that he can recognize that those shadows are being generated by principles that can be modeled, but they're not sense-perceptible entities. The principles that create sense perceptions are not themselves able to be sensed by any type of sense perception.

For example: Kepler showed, what man can do is, he can take an individual sense and exhaust the possibilities of that sense; exhaust all the measurement abilities of that sense. Kepler concentrated on vision, visual geometry, and audible geometry, sound; developing the musical scale, how the human sense of sound works. He exhausted the possibilities at his time, and then applied that to the discovery of universal gravitation, by showing that you have the same principle expressing itself in two different sense-perceptual realms, two different frequencies, you could say, and it presents itself differently in those two frequencies.

The task is to understand that you're dealing with a principle that's representing itself differently, and then to adduce, through the power of the creative mind, what is the principle that's generating those sense perceptions. Through that process, Kepler made his discovery of universal gravitation.

And to give a sense of what type of world we're living in such that that's possible, we have a universe which is composed such that the human mind has the ability to discover such principles. It's composed such that it will present us with senses which have within them gaps, because the principles are not reflected accurately through the senses. But it's through the human mind that you can recognize the gaps in any of those sense perceptions, and then adduce what the principle is. The universe is constructed like that. The universe is constructed according to *mind*. The universe expresses, in itself, creativity. And we see this. And I'm going to show a couple of examples of this in just a minute.

What we have is a universe which is an anti-entropic, developing universe, which is developing towards higher and higher energy-flux densities. This is reflected in the ability of man to make those discoveries,



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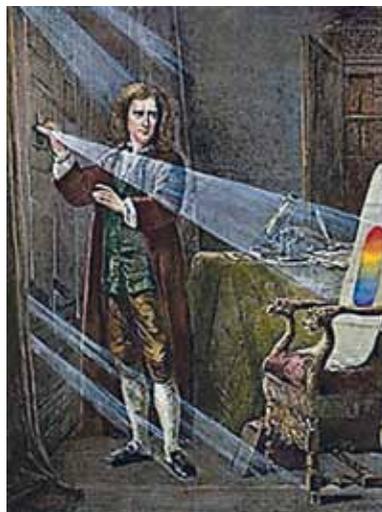
Environmentalism is one of the key forms of synthetic religions created by the British Empire to destroy science. Here, a demonstration by some of the converts at the Asian Development Bank headquarters in Manila in June 2009.

and increase his own power over those principles, and thus control, run, and develop more and more, the universe around him. That's how the universe is constructed.

Synthetic Religions

Now, the way the oligarchy works is, it creates synthetic religions to replace this divine view of man. Not all synthetic religions are created by the oligarchy; for example, you look back at Emperor Nero, who was the head of the Roman Empire for a time. Some might say he was the ass of the Roman Empire for a time, but Nero did not burn Druids in his backyard at night for light to compose his poetry by. He burned Christians at the stake in his backyard to provide light for his writing bad poetry.

So not all religions are created by an oligarchy, but the religions that are created by an oligarchy are the ones that are accepted. And there are some characteristics of these religions that come up over and over, and you'll recognize some of these. The two most important are: 1) that man is not



The so-called science of cultist Isaac Newton, depicted here, is also fundamentally a synthetic religion, as it preaches the existence of a universe without the principle of creative development.

another person who maybe had something going for him when he was really young, but he turned into a total operation, which was an operation out of his own hands. It's not even clear that he wrote the books that are attributed to him. He was a result of a British committee to create a synthetic religion.

What is a religion? [Newton's] universe is composed of an empty box. We have a universe that's empty, and within that empty box there are objects floating around. Particles, little tiny particles; really, really tiny particles. Everything is made up of these particles, and they interact by ricocheting off each other, collisions.

So therefore, an accurate representation of the universe has to be one that's built up from that as its fundamental axiom. The universe is empty, and you have little balls ricocheting off each other. And this leads into every other aspect of the religions that were created since Isaac Newton. Everything has to be explained in terms of a universe that's composed of little, tiny hard balls that build up into all the phenomena that we see.

For example, the Second Law of

divine, but merely one type of animal, one type of living creature on the Earth. We also have cows; we also have mice; we also have grasshoppers. Man is just maybe a little bit more complex than one of those. Man is an animal; there is no divine spark in man. That's number one.

Number two is that your senses are giving you an accurate view of the universe, or if your senses are not giving you an accurate view of the universe, at the very least, the universe operates on principles of sense perception. Therefore, everything that happens in the universe has to be explained in terms of sense perception. That's number two.

Now, as an example of this, you look at the prototypical British operation named Isaac Newton—here's

Thermodynamics is built up from this concept. The concept is that gases, which you can't see, are made up of little tiny particles that are ricocheting off each other. There are so many of them that you need to have statistics to explain what these little, tiny balls are going to do. But a result of it is that over time, they kind of even out, and the ricochets kind of slow down after a while, and you reach what's called a heat death. It's called the increase of entropy.

One of the formulations of the Second Law of Thermodynamics is that the universe is becoming, over time, essentially more and more dead, more and more dull, more and more boring, towards a heat death. The end of heat. Which is ridiculous: that the universe is running down. I'm going to show in a moment that this is a completely ridiculous idea, which is based on this religion created by the British.

For example, where does it come in today? Pagan environmentalism, right? Environmentalism is a pagan religion; it's a religion of death. It's a religion that says that man is a creature worse than monkeys. Man is worse than cattle; man is worse than bugs; worse than bats, if you listen to the British Queen's consort [Prince Philip]. Man is an animal, and he's using up the resources. We only have a finite amount of resources, and man's using them up. He's increasing the rate of entropy, when what you have to do is, you have to sustain entropy; we have to slow down entropy, and keep things stable. But man accelerates things; man creates disequilibrium, which is leading toward the death of the planet. The death of all the other animals, which are more important than man.

It's a pagan religion; it's a pagan belief!

For example, yesterday a report came out. It's obviously a pagan belief. Yesterday, the Intergovernmental Panel on Climate Change came out with its interim report on climate change, which claims that all of the extreme weather events that we've been having, are due to global warming.

If you read the report though, it's very wishy-washy. They say it's very difficult to prove that global warming is causing these extreme weather events. They say that they think that temperatures are going to go up, but we can't quite prove it. We think that droughts are going to become more and more important, more and more prevalent, because of global warming, but we can't prove it. We think that hurricanes are going to become more terrible, but we can't prove it on the basis of global warming.

That's because it's a religion. But the way it's being reported is that global warming is destroying the Earth through horrible weather events, and that man is to blame, because man is the disequilibrium animal. So, it's a religion; this is just typical British crap. It's typical crap of the oligarchical system.

Mass Extinctions

Now, I'm going to go a little bit deeper into this, but just to reiterate: We're dealing with a dying empire. This is the end of the oligarchical system. Regardless of what happens, this system is finished. If the system doesn't finish itself, the galaxy is going to finish this system, and this is a system that's been around for well over 2,000 years. We're at the end of an arc of history that's at least 2,000 years old, which was marked by the domination of an oligarchy, with opposition that popped up periodically. The most important opposition was the American Republic, the Revolutionary War in the United States. But this system is finished. The question is, what's going to come out of it? A dead planet, or a space-faring culture, which was the original intent of the Americas?

Now, let's look at the weather for a moment. We have been having a lot of wild weather recently. If you look, since 2007, the number of billion-dollar disasters that have struck the United States has gone steadily up. This year, it's been 14 disasters in the United States that have amounted to \$1 billion or more. The latest one was this freak snowstorm that nailed the Northeast, which right now is being clocked at about \$3.5 billion worth of damage. It is becoming more and more damaging.

Not just in the United States. Look at the floods in Thailand. This is probably going to affect very poorly the price of rice on the global market. Look at the disasters that have befallen Russia, the droughts; the floods in Pakistan; the monsoons that hit China. Look at the intense cold that hit Europe last year. Things are getting more and more extreme on our planet in terms of weather. Is this due to global warming? No.

Throughout the history of our planet, we have faced extinctions of life. Life has existed on the Earth for as long as we know, going all the way back. To quote Vernadsky, no one has ever discovered the beginning of life. In the oldest rocks that we have on the Earth, we have evidence of life. For 500 million years, half a billion years, which is only a tenth of our history, we've had multi-celled life on the planet. The history of that multi-celled life has displayed periodic extinctions,



We are faced today with the question of whether mankind will go extinct like the dinosaurs, which were wiped out approximately 68 million years ago, leaving only some bones. Here, the skeleton of a Tyrannosaurus rex.

where the diversity of organisms on the planet suddenly drops.

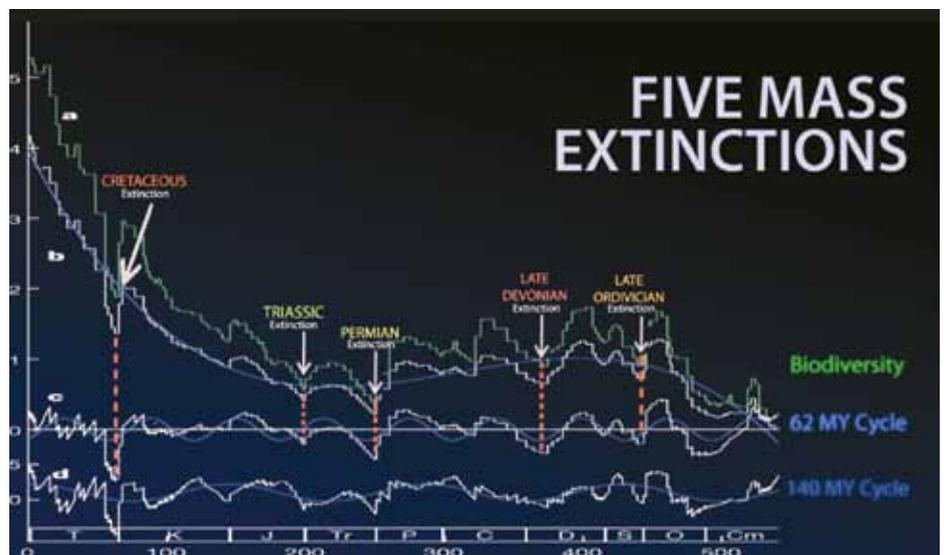
For example, the dinosaurs. Obviously, we don't have dinosaurs running around on the Earth. Contrary to what some may believe, there are no dinosaurs on the Earth right now. Maybe birds, but dinosaurs like the gigantic creatures walking around on the surface of the Earth? They're gone; they were wiped out 65 million years ago. And 250 million years ago, there was another very large extinction, where 98% of all creatures in the oceans, 96% of all creatures on the land were just eliminated. Nobody knows why. This has happened over and over and over in the recorded history of multi-celled life on the Earth.

Now, there are characteristics which have to be looked at, which are coming out in recent research, just over the past several days. Each of these extinction events, which should be

looked at more as transformation events was marked by specific occurrences. One is the impact of meteorites and large bolides, like the famous dinosaur killer (which probably wasn't the dinosaur killer). Back at the Permian/Triassic extinction, 250 million years ago, there is very good evidence that there were several meteorite impacts at that time.

Now, a new one is being investigated in France; an impact that wiped out the creatures at the end of the Triassic. Every one of these extinctions has meteorite impacts; every one of these extinctions also includes massive volcanic activity. For example, it appears that the volcanic activity 65 million years ago around India, the Deccan Traps, was a very short-lived but intense period of volcanism. The Siberian Traps 250 million years ago, same thing. Every one of these extinctions has volcanism; every one of these extinctions has apparent shifts in the motions of the continents, the creation of super-continents; the elevation of the land level to wipe out any internal seas and oceans. Each one of these extinctions is marked by massive changes on the Earth. Also, just to be complete, changes in the type of organism. They are very rapid and they are periodic. Each extinction event would select out whole categories of creatures to die and to live.

So, the point is, our planet suffers extinctions, and each of these extinctions displays the fact that it's not something that happens peculiar to the Earth, but that it's a change in the whole Solar System environment that we're going through, which potentially causes the changes on the surface of the Earth.



LPACTV

We don't know what increases or decreases volcanism on the Earth. We don't know what increases or decreases the likelihood of earthquakes and other tectonic motions of continents, like we've been seeing recently with these gigantic earthquakes we've been having.

In fact, if you look at the number of large earthquakes we've been having over the last decade, it's been increasing rapidly, culminating with the last very large earthquakes you had this year and last year in Japan, Haiti, Chile, etc. Look at the rate of volcanism as it's going up. Look at the near-Earth asteroids that are now passing our planet. Our system is changing, and it's very apparent that we're due for another one of these massive extinction events.

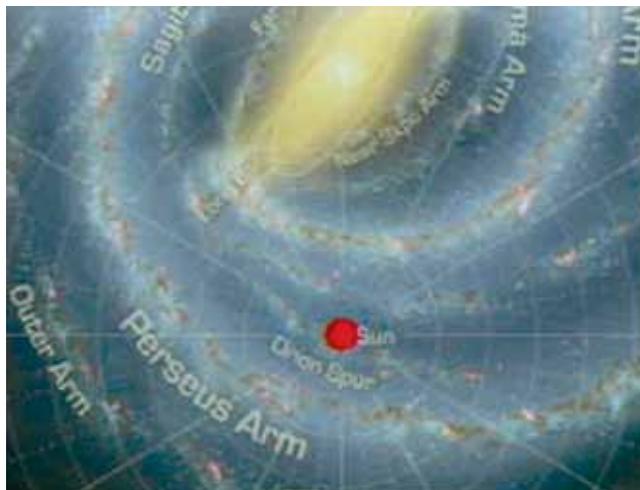
So, the whole system is changing. You look at what's happening on the Earth with the weather. As I've been going through in several of my weather reports (<http://www.larouchepac.com/mastering-nature>), and it's been known since the mid-1970s, since the manned space program, most of the effects of weather we have on the Earth—cyclones, tornadoes, hurricanes, simple rain, increases and decreases of surface temperature, changes of temperature in the oceans—are primarily due to changes in what happens located at the Sun.

If you look at our Solar System from the outside, what you see is that the Solar System *is* the Sun, plus a little tiny speck called Jupiter, and then some dust floating around in the Solar System. That's the Solar System. The Sun is the dominant creature in our Solar System. You'd think that that would impact the changes on the Earth, which is where cosmic radiation from the Sun is being transformed into activity, on the surface of the Earth.

Now, what do we know about the Sun? According to recent observations, the magnetic field of the Sun is right now dropping precariously low, going into the end of this solar cycle, and the magnetic field is one of the most important things for the interaction of the Earth and the Sun, because it mediates the impact of cosmic rays. It mediates the solar wind that's coming into our system. It mediates everything; it interacts with our own magnetic field. It directs charged matter and plasma into or away from our planet. The magnetic field is dropping rapidly, so that by 2020, 2023, the magnetic field may be so weak that we might not be able to measure it.

This is coming on, and some people are forecasting that it will be a so-called Maunder minimum, which is

FIGURE 1



NASA

the last time we saw anything like this. But nobody knows what generates the magnetic field on the Sun. Nobody knows what generates sunspots. This is the big debate right now. Nobody knows what generates the processes on the Sun. It might not be fusion at the center of the Sun. It might be something that's extrasolar.

Now, if you look at where we are in the galaxy right now (**Figure 1**). Right now, our Solar System, which is represented here in this image from NASA, an artist's representation of our galaxy, according to the best estimates, our galaxy has right now, four spiral-arm density waves, and then several small pieces of arms which are scattered throughout. Our Sun right now, and our Solar System right now is passing into the Orion spur—call it an armlet, piece of an arm—which is typically the area where an arm sweeps past our Sun, that's typically the time that you start to see mass extinctions on the Earth.

Perhaps the sweeping of this system by the galaxy, sweeping it across the Sun, is what's generating the changes in the solar activity, and thus the weather activity and the tectonic and the volcanic activity on the Earth.

So, this is where we are right now. We're passing into a mass extinction period, because of the changes in what's happening around us in our galaxy. What we're dealing with is a galaxy that is acting as one organism, and we see various changes around the galaxy that are indicating this. For example, the Crab Nebula, one of the earliest astronomical phenomena that was observed, besides planets and stars, in 1054 when the Chinese documented the observation of this supernova, what we think

was a supernova, the creation of what now we recognize as the Crab Nebula.

What is the Crab Nebula? We have no idea. What we do know is that it's a very strong source of cosmic rays. We also know that it's a very strong source of gamma radiation. This is just from recent studies—it's not only a strong source of very high-energy gamma radiation, but it periodically flares up in these large, short-lived flares of gamma radiation activity.

We know now, based on recent investigations at CERN [the European Organization for Nuclear Research] and other particle accelerators, that gamma rays and cosmic rays have the ability to be, and are possibly, the main source of generation of weather systems on the Earth.

For example, the generation of clouds through cosmic rays is now a well-established fact, after the work of Svensmark and others. The generation of clouds by gamma rays could very well occur through the same processes. We know gamma rays are involved very closely with the production of lightning systems, which are very closely associated with thunderstorms. So we need to be watching as the whole galaxy is acting up right now, and sweeping this area over our Sun. We need to be watching what's happening in the rest of the galaxy, in order to forecast what's happening here on the Earth.

So, the point is this: If the British Empire wins, which means launching thermonuclear war, it will be very terrible, and you'll probably see the drop in our population to less than a billion people through the warfare, through the nuclear weapons, through disease, through hunger, and so forth. But what we have in store for us is even more devastating: extinction of the species.

Strategic Defense of Earth

Now, if we get rid of Obama, which is the prerequisite, we can dump the British Empire and launch the real American System worldwide, which is what we're intending, in collaboration with the other key nations on the planet, such as Russia and China. Then it's a different story.

Can we avoid the extinction? Yes. Man is a cosmic being. The universe is designed around the concept of



Chris Sloan

This graphic was widely used by Lyndon LaRouche in the 1980s, as illustrating the way directed beam weapons could kill incoming missiles. The same idea could be used for killing other threats from space.

man. The universe is designed for man. The universe expresses creativity. After every single one of these extinction events, you did not see just the complexity of the biological system, the biosphere, but an increase in energy-flux density expressed by the biosphere. The biosphere got better and better and better.

It wasn't because of the extinctions; it was in spite of the extinctions. The extinctions allowed the increase of energy-flux density to be very obvious to our scientists. But the anti-entropic development of life on the Earth is an inherent principle. We might not survive the extinction, but we can.

Now, I'll end with this: Matt mentioned this proposal of the Russians to relaunch LaRouche's Strategic Defense Initiative in the form of this Strategic Defense of the Earth. Now this is very interesting. First of all, yes, it would defend humanity from a nuclear war, because you could take out nuclear weapons with the space-based weaponry. It would mean collaboration between Russia and the United States, and probably China also. If you look, the Chinese and the Russians are very close, in terms of their science activity right now. Represented, for one, by this unfortunate Phobos-Grunt satellite, which was a Russian satellite carrying a Chinese probe to orbit Mars, including a tiny capsule of living organisms designed in the United States. [Although it failed,] it's a symbol of the potential collaboration that could exist under this SDE, the Strategic Defense of the Earth.

But what that really represents, is a mission for our military. The tradition of the United States military, which was copied around the world after the early history of the United States—originally our military was based on Lazare Carnot's and Gaspard Monge's Ecole Polytechnique in France. We modeled our West Point system on that. Our military is not primarily a military that shoots and kills people. That's not the mission of our military. Our military is trained to do that, but in order to further goals that don't include death of people. Our military is designed as a scientific engineering capability.

If you look at the early history of NASA, who were the original astronauts? These were military officers. The military's mission should be directed to defending civilization in space. Space is the direction of the military; this is the future job of our military, not to have wars. It's too expensive to have wars now, because you have the threat of nuclear weapons all the time. We can't have wars. They're worthless anyhow, most of them are being driven by the British. If you look around the world now, all the major wars were started by the British, all the little revolutions and so forth. You can always find the British spoor in the background.

For example, it's kind of funny that Iran has this interesting term for the British Empire: They call it the Old Fox, because the fox is the image in Persia of deceit. But, one thing about the old fox is that the old fox gets cowardly when driven into a corner. If you're about to beat the pulp out of the British, they'll spasm, try to launch a nuclear war, and then get all cowardly. All the wars on the planet right now can be brought back to the British. If we end that, there's no reason for war.

We turn our military's engineering capability to space, and then we start doing real weather forecasting. Because yes, the extinction is on its way, but the way we defeat that is not by turning the Sun off, or turning off the galaxy or something like that. We do that through forecasting the future, and then acting based on those forecasts. We have the potential to become the uni-



NASA

Man's exploration of the "very large" is epitomized by his travel into space, where he has been exploring the environment now for decades. Here, the launch of the shuttle Discovery, February 2011. Here he finds the same principle as in the "very small," creative progress.

verse's first immortal species. And it may turn out to be that we're not the only immortal species, but I'm sure the other immortal species would benefit from meeting us at some point.

So, with that, I'll turn it over to Cody Jones.

Cody Jones: Scientific Paradox and the Human Mind

All right, I'm going to pull a couple of threads from the tapestry that Peter has just woven for you, and in doing so, really challenge a number of what I presume are conceptions that most people have, about space, about time, and about the nature of the very universe itself, including your idea about the nature of man.

Now, as was brought up by Peter earlier, the conception has been sort of forced upon the thinking of mankind, that, were you somehow to remove everything from the universe, what you would be left with is some sort of empty box, of space infinitely extended in three directions; and combined with that, would be this sort of other infinite expanse known as time. And that that is what is really *apriori* and ontological about our universe, and everything must take place and unfold rela-

tive to these infinitely extended conceptions of space and time.

That's what's in dispute now.

Now, when people think about, say, scale, about size, about space, you have this idea from our perspective, from our vantage point and our given scale, that you have two directions in which you can go: You can either go into the increasingly small in space, or, you can go out to the increasingly large in space. Both of those, though, have some sort of physical boundary to them, that is really an idea which, again, is foisted on people: that, if you were to go deep enough into space, and into the material of space, you would eventually reach the final building block of all substance, the very smallest element upon which everything is built up, some little, hard ball.

And that, if you were to then go and extend as far as you could physically, you would reach the end of space. And this all stems from the "Big Bang," some 15 billion years ago, this Big Bang event, which occurred in this box of space and time, and that the universe has been expanding ever since, and hypothetically, we can locate where that boundary is. And so, from our vantage point, you have two directions: You can go in, or you can go out.

What I would contend, and the history of mankind in this universe demonstrates this to be true, is that, in fact, there really is only *one* direction: that what we consider extending out, and going in, are actually bound by one single direction of creative progress. That is, through an increased density of creative progress, that we actually increase mankind's power to both go deeper into the substance of the universe, but then also extend man's reaches farther out towards the stars.

Reaching Out in the Universe

I'll get at that by looking at the history and also the future of what would be manned space flight, or something tantamount to manned space flight.

If you just look at the history of travel, one of the first things mastered was a very macroscopic type of process: wind. We developed sails, by which we captured wind that enabled man to master and transport himself across seas. At a certain point in that process, we went in a little deeper, and we gained control of minable substances, like coal. Coal, then, with a greater density of power and energy-release being burned, enabled us to power things like locomotives, trains. That gave us an ability to then go beyond and to start to con-

quer the continents.

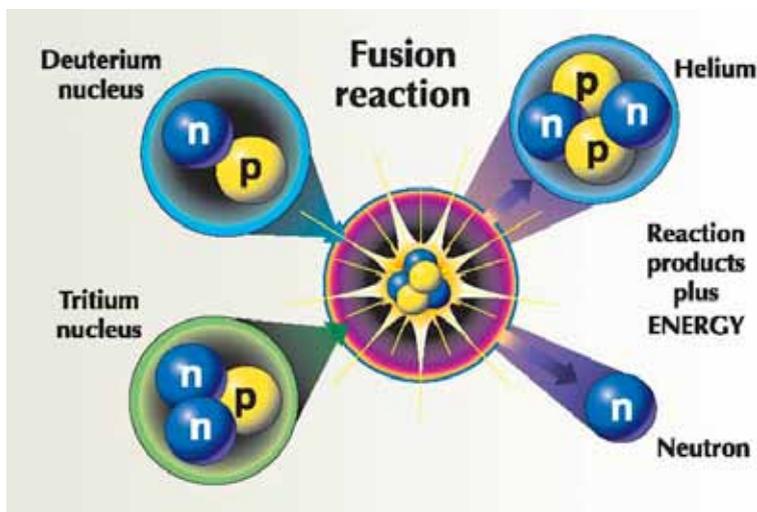
At a certain point, through the development of other types of chemicals, molecular processes, we were able to refine things like oil, and develop gases, fuels. These fuels allowed us to fly, to where we could get around the entire globe in a matter of a day or two. There was, again, a sort of going in, so to speak, beyond just the ore process, to now, when we're looking at the mastery of chemical processes.

At a certain point, that had a limit to it, and we see the outer limit with what we were able to accomplish with Apollo: that through the use of chemical rockets, we were then able to reach really what is the feasible boundary of what man can do using simple chemical reactions.

The next step is what we discovered and developed with nuclear processes. Now, people may or may not be aware of this, but in the original development of the Apollo project, the intention was actually to develop nuclear rockets; that the use of chemical rockets was just an immediate requirement, but that the idea was eventually to develop nuclear rockets, which would allow us not just to have a simple one-shot to the Moon, when we'd have to detach, lose most of what was the weight and substance of the spacecraft and float down to the Moon; but to where you could develop reusable and guidable large craft, utilizing nuclear power.

Now, in moving from chemical processes, such as what you have with combustion of gases and other fuels, to nuclear processes, we then made a transition. In a sense, we went further in, we went deeper into the substance of the universe. That largely came out of understanding the ability to control the splitting of the atom and the massive amounts of energy that were released, as forecast and hypothesized by Einstein.

Now, beyond that, and this is really now moving into the future, would be the development of fusion-powered rockets. With fusion, you're moving beyond a relatively simplistic understanding of what's happening at the atomic level, to where now you have to really understand, what is a higher level of understanding of the structure, the curvature of the atom; that in order to get a fusion process, which is the bringing together of nuclei to form new substances, which release orders of magnitude more energy than what you have with simple nuclear, you have to overcome things like what's known as the Coulomb barrier. In order to bring nuclei together, you have to overcome the natural repulsive force that you find between like-charged nuclei, to get



Lawrence Livermore National Lab

Exploration of the “very small” takes us to the atomic level, opening up other potentials, such as the generation of huge amounts of power through nuclear fusion, a process shown in this schematic of a fusion reaction, done for the National Ignition Facility at Lawrence Livermore National Lab.

beyond a certain critical curvature, to where now, what were repulsive forces, become binding forces.

And this is something which a former member of the Fusion Energy Foundation, someone who was at the core of the scientific movement that was behind the SDI project, Dr. [Robert] Moon, was investigating, in understanding the structure, the geometry, so to speak, of the nucleus, thinking: Is there a least-action way to get beyond what is now a very brute force method of trying to generate fusion? Is there a kind of least-action way that taps into an understanding of what we might call the “curvature of the physical space-time” at that level, to achieve fusion in a very producible and efficient way?

With fusion, and beyond fusion, we will have the ability to not just go to the Moon, but to have real human flight to Mars. With fusion, because of the energy-density created relative to the weight of the apparatus and the fuel, you now would have the ability to take man and material to Mars, and to do it in a relatively short order, utilizing something we’ve discussed, known as 1 gravity (g) acceleration, where you utilize the processes of fusion, and the control and direction of the products of fusion, to create the thrust, to move up to a constant acceleration equal to the acceleration we recognize here on Earth, of standard Earth gravity.

So, 1 Earth-gravity acceleration could, theoretically, get us to Mars in a matter of days. Now, they

might extend it a little bit, because you have to do a reverse maneuver as you decelerate in, and there are other things to consider, but that’s a very workable time frame to get to Mars in a matter of days, weeks, using a 1g acceleration through a breakthrough in fusion.

Beyond that, is the next higher step, where now we’re moving beyond just understanding processes that would allow fusion, to the domain of matter-antimatter reactions. A lot of this gets complicated by just the language that gets used in popular science now; but effectively you’re bringing together matter, which has opposite characteristics, opposite charges, what have you, and that through bringing them together, you get a perfect annihilation of matter, transformed into energy. Now, this represents several orders of magnitude of energy-density, power-density, beyond even what you have with fusion.

With matter-antimatter, not only does that now take us beyond the Mars limit—for fusion, Mars and slightly beyond Mars, is pretty much the outer limit of where mankind could go. With matter-antimatter, in what’s being initially discussed as the potential, you have the ability to accelerate a spacecraft up to the outer limit of about 0.58 the speed of light, which would put us at the nearest star, Alpha Centauri, in a matter of nine years.

Obviously, there are all kinds of other considerations that go into that, around the biological aspects of what that would require. It opens up a whole other domain, which hopefully, we will take up in some of the Q&A, but, theoretically, in nine years, through matter-antimatter reactions, we could be at not only a simple star, either: Alpha Centauri is a binary star. There are all kinds of other aspects of being able either to get there with human beings, whatever shielding would be required, but in any case to investigate it, to get something there, that could get into a new domain of our universe, to understand more fundamentally how these processes work.

Discovery of New Physical Principles

Now, I’ll go through a couple of statistics, to give you a sense of what we mean by this.

From a simplistic standpoint, it seems as though we’re going in deeper and deeper, in order to gain the

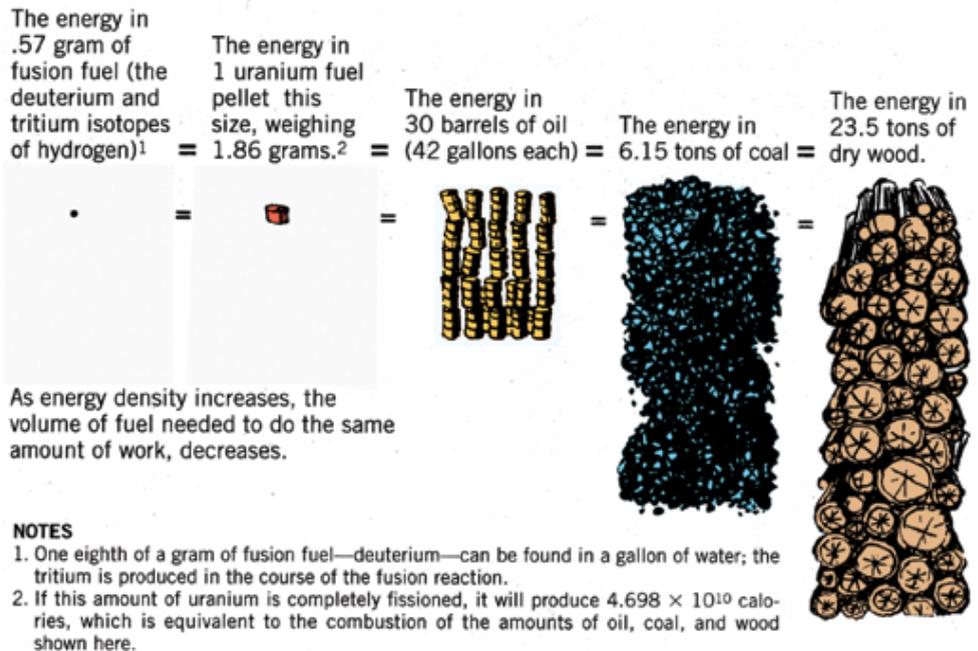
power to go out further and further. This is why I say that, in fact, these scales of extension out, and drawing in, are actually bound by one single idea, or one single concept, which is the concept of *the creative discovery of the human mind*. That, in fact, what's happening, as we probe deeper into the subatomic—it's not that we're going deeper into spatial relationships; what's actually happening, is that we're discovering greater degrees of freedom about the way that the universe is organized. We're discovering new principles that constitute the very structure of our universe.

And it's that, which then has the correlate that we discuss in economic terms as an increase in energy-flux-density: that each new discovery actually gives us an ability to bring more power to bear on a particular space-time location, which would otherwise not have been possible prior to the discovery of that new principle.

To give a sense of what this kind of increase in power means: A pound of coal, when burned, gives you about 1 kilowatt-hour of energy; a pound of gas when burned gives you 6 kWh of energy; deuterium, which would be at least the main fuel source for fusion, which we would use here on Earth, gives you 40 million kWh. And when we start to talk about matter-antimatter, this is sort of a rough estimate, but assuming you get some sort of perfect annihilation energy release, for 1 pound of matter-antimatter reaction, you'd get in the order of 1.1 billion kWh of energy release.

Now, there are some other complications that might reduce that in some ways, but I think you get the idea of what kind of scales we're talking about, and what kind of potentialities exist. One of the blocks to that now, is that 1 gram of matter-antimatter production theoretically would cost, at this point, about \$26 trillion.

Now, that is not to say that matter-antimatter reac-



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tions are outside our domain. That speaks to nothing about the problem of matter-antimatter. What it actually speaks to is the problem of our current economy; it speaks to the problem of the current thinking, of how we organize our economy, and really, the nature of the way the population itself thinks. That cost could be reduced, in terms of the same scale of increase of power we get from matter-antimatter; were we to move in that direction, you would actually have the same sort of inverse decline in the cost, because of the new breakthroughs, and organization of our physical economy that would ensue.

This brings up a bigger problem: If we're going to go into this domain, to get mastery at that level, at the subatomic level, it's going to require a fundamental revolution in science. We will not progress to this next level, unless we declare, once and for all, that empiricism is dead! Greenie-ism is dead! It's got to go away; it's got to be eliminated like a cancer from our species. And in fact, we must now launch a full-throttle revolution, to say that what must become primary in our understanding of science, in our investigation of the universe, must be an understanding and investigation of the powers of the free creative mind. That, in fact, mind, and our understanding of mind, must be that which takes precedence in our investigation of the physical universe.

Let me get at why I say that: Things become very paradoxical, whenever you get to the level of investigating the subatomic, and this is what comes up in what's now discussed as quantum physics. These paradoxes, unfortunately, have led those who have bastardized science, those who have acted on behalf of the British establishment, to declare that because of the paradoxes that come up, this domain is unknowable. We can't know what's happening at that level, because we can't explain what's happening at that level in terms of simple sense-perceptive notions of space and time!

And since man, being a beast, is limited only to his biology, and therefore limited only to his ability to interpret sense-impressions in a literal fashion, since the subatomic does not lend itself to a simple interpretation, in terms of sense-based space and time measurement, well, therefore, it's fundamentally unknowable. By doing that, they've declared science dead, and have rendered mankind a virtually extinct species. They've declared man as a future extinct species.

What I'd like to show is that, in fact, these very paradoxes that we find in the domain of the quantum *can* and *must* be resolved through an understanding of a characteristic of mind, a recognition that *the universe itself is characteristically creative*, and that the creative nature of this universe is in tune, in fact, with the willful creative nature of the human mind itself.

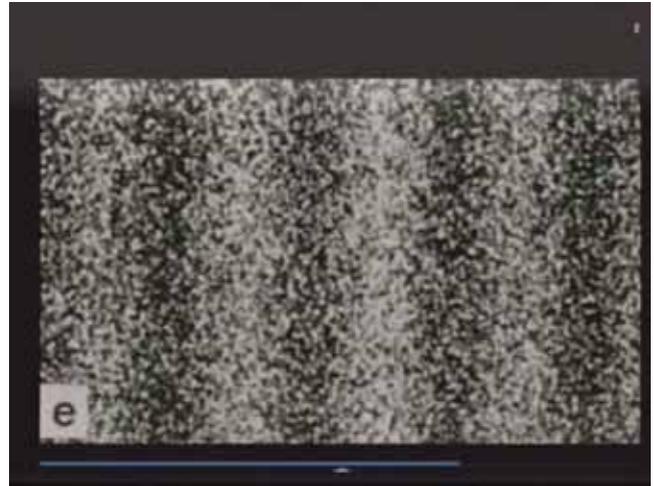
So, let's look at a couple of different experiments which show what some of these paradoxes are.

The Double-Slit Experiment

The first thing we're going to look at is what is known as the double-slit experiment, that was conducted a decade or so ago at Hitachi Laboratories in Japan, by a U.S. physicist. The experiment has been declared perhaps the most beautiful experiment of the 20th Century, though the reason they give for its beauty, is actually an evil one. But I think we can find real beauty in it.

So, what you're going to see here (**Figure 2**), is the effect of an experiment that was set up, where you have an apparatus created with two holes, and they're going to be shooting electrons in such a way that they're get deflected to either the left or the right slot, and then, as they pass through either the left or the right, somewhat randomly determined, they're going to impinge themselves on a screen behind that. Seems simple enough, and they're pretty certain that they were able

FIGURE 2



to capture one electron; however, you want to capture an electron, shoot it through, and the next one would not actually move through one of the two holes, until the previous one had hit the screen and been absorbed.

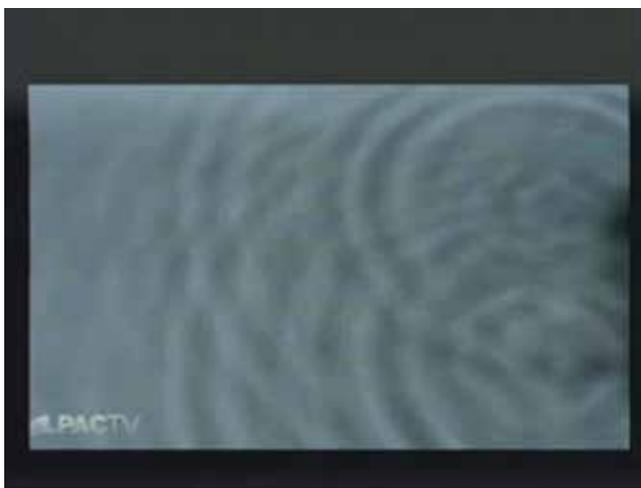
Well, what actually is the effect that was registered through this kind of experiment?

Let's take a look at the particle experiment. Here you have a registering of these different particles as they go through these two holes and start to build up on the screen. And you see, obviously, there's some sort of pattern emerging, which doesn't at all seem to correspond with what you would think would be the kind of emergent pattern if it were just simply particles shooting through one hole or the other.

Now, we've seen this kind of pattern elsewhere. And we will go to a depiction of where this comes up in a phenomenon which we would expect it to come up in, which is a simple wave-interference pattern. Here you're going to see a depiction of two wave sources, which is basically the equivalent of the two holes, using a wave tank, using waves in water, where two waves are simultaneously moving toward an end-point, an end-screen.

Here (**Figure 3**) you have a similar set as the one I discussed with the electrons, but here you have waves in water. You've got two sources producing waves, and you get the typical effect that you would surmise from simple geometry, or just an understanding of this: an interference pattern, where the two waves are interfering in such a way that they either have constructive interference, where they amplify each other, or they

FIGURE 3



cancel each other out, so that you get this alternation: light/dark, light/dark, light/dark.

A similar thing happens whenever you shine a light source as a wave source through two small holes: You get an interference pattern. It makes sense; you could deduce that this would be the effect from the relationship of waves. But, whenever you look at the particle buildup, you see that you get something very similar to that what you saw in this wave characteristic. That, in fact, whenever we're using what we're told are particles, we get a buildup of these kind of light and dark interference patterns.

Which seems to be very contradictory to what most people would think should occur. Typically, you would think, little bullets going through two different holes should just form two patches on the other end. But instead, you get particles, combining to produce a wave-interference pattern. How does this happen? Supposedly, these are only single particles being shot through. So it seems as if, as one particle hits the screen, it's somehow informing the next particle, "Hey, buddy, you need to take this path, in order to build up this particular pattern." There's no physical interference occurring, supposedly. The idea is that, only at the point that one of these electrons hits the screen, does one come about.

So, how, if you're just having a succession of events of this type, do you get this buildup of a kind of interference? How does one particle know what the previous one did? How does it communicate to the next one, what it must do?

It was out of these kinds of experiments that all

FIGURE 4



sorts of weird concoctions were cooked up. That what we're obviously seeing here, is what we've come to know as the duality characteristic of phenomena, of light, or of particles. That at the quantum level, things exist as both seemingly particle, under certain kinds of experiments, like some of the experiments conducted by Einstein with the photoelectric effect, or coming out of Planck's discovery of the quanta, which seems to demonstrate a kind of particle view; but then, other experiments, like this double-slit experiment, seem to say, actually it has a wave-like characteristic, because you're getting interferences which are typical of wave-type activity.

This sent the world spinning in a very bizarre way. Now, instead of saying, "We've got something paradoxical here," this was taken to say, "Well, in fact, this is demonstrative of the fact that you *really can't know* what's happening at that level."

Super-Fluidity and Super-Cooling

And actually, if we can go to the super-fluid video (**Figure 4**), we'll see another demonstration of a kind of process which demonstrates characteristics which have no representable notion in the simple ideas of space-time, as derived from our general understanding of sense-impressions of these things.

This is an old video that was done with liquid helium. You've got helium in a container, which has very fine capillaries at its bottom. These capillaries are so fine that the liquid can't pass through under normal circumstances, because of viscosity and friction

FIGURE 5



among the particles. But, when cooled down below a critical temperature, all of a sudden, this fluid takes on completely new characteristics, and it starts to flow readily through this very small, porous bottom, and it takes on what's known as this super-fluid characteristic.

Now, it's said that what's occurring is that the fluid is losing all of its viscosity, that there's no internal friction to hold it there, and it just passes right through. The same substance, but now at a critical temperature, passes through with zero viscosity. There are all kinds of discussions about what's behind that, and I'll get at some of the explanations of this very paradoxical characteristic.

Now, the next thing you're going to see here (**Figure 5**) is a demonstration of effectively the elimination of entropy on the part of this fluid. What you're seeing is that the very dark bulb at the bottom has a hole in its bottom, and it's filled with a very fine kind of powder. And this powder has very small spacing between it, it's super-packed, so the spacing between it is as fine as the previous example, with the holes at the bottom of the container.

They've now dipped this vessel, with this powder packed into the bottom, but with the hole underneath it, into supercool fluid. They're now heating the top; they're using a beam to heat the top of that black bulb, so it's actually warmer towards the top, than it is at the bottom.

Now, typically, as we understand the domain of thermodynamics, we're told nothing ever flows from a

colder to a warmer place; it always flows in one direction. Heat always flows from a warmer to a colder place. But here, what they demonstrate is that a very super-cold fluid is flowing through that black bulb which is being heated, and it's actually moving from a colder to a warmer spot, as you see demonstrated with the rising of the fluid in the flask here.

So you have something occurring which is overcoming our whole notion of entropy.

The way some of this is discussed is that what's occurring, to create this kind of superfluid condition, is a superposition: that these molecules, or these atoms are able to be in multiple states at the same time. The same thing can have two states of existence simultaneously, which seems to be impossible from the reductionist standpoint; or, you're getting two different types of atoms which are occupying the same space, which again, seems confounding. It's like saying these two objects could somehow occupy the same space at the same time. Again, it seems to violate our understanding of the way that space and time operate.

So a number of different ideas were spun out. They say: Okay, you've got things like superposition, things having more than one state of existence. Or, two different things occupying the same position in space-time, that's completely not understandable. Or, where something that is acting on something at one place in space-time, seems to instantaneously determine the action or effect at some other place in space-time. That, if by acting on this [righthand pen], it instantaneously determines what could happen over here [lefthand pen]. Again, it seems to completely violate our idea of the propagation of effects, action at a distance. This is what's discussed as "non-local effects," "non-locality."

So, the conclusion was made: Yes, we see experimentally that things do act in this very ambiguous and paradoxical way. But since we can't explain it from the standpoint of simple sense-based ideas of space, time, motion, propagation, etc., we must declare that, in fact, *these things are unknowable*; that really, all we're left with are probabilities. That the wave characteristic that we see, for instance, in the first experiment, is a probability wave, which isn't real, has no existence, but is a statistical probability that determines where the particle, the little hard ball, is going to hit.

And that's as good as we can get: All we can have is statistics and probabilities, about the likelihood that

something is going to happen one way, versus another way. And that because of these probabilities, whenever you act and determine one thing, it changes the probability of how something else is going to act, and that's how you're getting these non-local effects, because it's all tied into the probabilities—but these are unknowable. They're only fictions that we can use, with our limited minds and whatnot, to have some, at least, control over what's around us.

That thinking will never get us to Alpha Centauri! That thinking will never allow us to master the principles of matter-antimatter. And in fact, that kind of thinking will doom the human species!

The Domain of Metaphor

Is there another option? Well, in fact, there is. Where, and in what domain do these kinds of paradoxical qualities become commonplace, so to speak? Where do they become, in fact, characteristic of the domain? That is the domain of mind. And I'll give some examples, just to play around with this for a little bit.

If someone were to say to you, in Shakespearean fashion, that “the key to a happy marriage, is to lie with your wife,” you might think, “Hmm, what are different ways that we might think about what this word ‘lie’ means?” It might mean, you need to lie about where was the last place that you lied. It might mean that you need to tell a lie in order to get a lie. Or, it may mean both at the same time. Maybe the key to a happy marriage, is both to lie with your wife, and lie with your wife.

That, from the standpoint of irony, from the standpoint of metaphor, from the standpoint of the way that the mind communicates, all of these very funny characteristics that we find in the domain of the quantum, become very real—they actually become necessary to the development and communicative potentials of mind. That the key to marriage is to lie with your wife, can mean both things at the same time; or depending on how you understand it, that determines what it means.

To give another example of this, if I say: “What is left, when nothing goes right?” That can mean a couple of different things. It could come out of, say, an investigation of the ideas of space and time. If, as I said in the beginning, there is only one direction, there's only progress, then we say, “Okay, left and right, those are understood as opposite directions, to the left or to the



The irony expressed in the poetry and plays of great poets such as William Shakespeare (depicted here) lies at the heart of creative thinking, and thus of science.

right.” But now, if I'm investigating the idea that there's only one direction, let's say, we eliminate right, well, does left have any meaning? What is left, when nothing goes right? Okay.

Or, I might be in the midst of some existentialist reveling: I've just lost my job, lost my home, and Obama's still in the White House, and I say, “Oy! What is left, when nothing goes right?” Well, there again, left and right mean something very different: What remains when nothing seems to operate in the proper fashion.

So the same discussion—what is left when nothing goes right—depends on a couple of things: one, context. The context will give me an idea of which left and which right I mean. It also depends on directionality: If, in saying, “what is left when nothing goes right?,” once I determine in my mind, upon hearing that that left is directional, then the right that I speak, must also be directional.

If on the other hand, I say that for me left means “remaining,” well then, the thing that makes more sense is

that “right” is “proper.” What is left when nothing good remains? What is left, when nothing goes right?

It works in the opposite direction though, in time: There are two different ways it functions in time. If I say, what is “left,” I’m sort of astute, and I’m thinking, “left” could be directional, it could be “remain,” I’ll let both possibilities exist simultaneously in my mind. When I get to “right,” depending on what I determine as the notion of “right,” that’s going to determine retrospectively, which “left” it is. If I say, what is left, when nothing goes right, as soon as I say, “right” means direction, instantaneously, simultaneously with that determination, this one now becomes directional. If I think of “left” as what remains, then all of a sudden, retrospectively this one becomes determinational.

But it has this property which is discussed in quantum physics, that it’s non-commutative: It actually flows differently in one direction, than it flows in the other direction. Something which, again, contradicts some of the main problems you find in things like thermodynamics, which actually state that both possibilities, left and right, are actually indistinguishable.

So we see that, when we go into the domain of the way the mind works, the way that human communication works, many of these paradoxical characteristics that we find in the domain of the quantum, actually become readily accessible.

Now, lest you think that these are some parlor tricks, as Pete brought up, it was actually this quality of mind, this thinking in terms of irony, this thinking in terms of metaphor, which has been at the core of all advances in science.

The most typical one is what is brought up with Johannes Kepler, in looking at the Solar System, one object, having to counterpose both the notion of what seemed to be a harmonic ordering of the planets, ac-



The principle of metaphor is key to both Classical art and science, which was developed to its highest level in the Florentine Renaissance. Here, artist-scientist Leonardo da Vinci's Portrait of a Musician.

ording to a vision-based geometry, the nesting of the Platonic solids, versus another notion, which came to him as a harmonic ordering according to a sound-based harmonics, a time-based conception. So, you’ve got vision and hearing, space and time, being counterposed against each other, as a metaphorical counterpoint, to lead you to what must be really the higher idea which subsumes the entire thing, which is neither sight nor sound, space nor time, but which is something which is characteristically, of mind.

And in fact, it was this understanding, which led someone like Wolfgang Köhler, the founder of Gestalt psychology, to state something that he got from someone whom he studied under, Max Planck, who said to Köhler that he believed that many of the discoveries, and the resolution to many of

the paradoxes that Planck was encountering in the domain of quantum physics, would be resolved by the kind of method being employed by Köhler, into the investigation of mind. That among the greats, Einstein, Planck, they recognized that the domain of mind is the most ontologically superior and effective, efficient principle in the universe. That whether you’re looking at the very small, or the very large, whatever, it’s mind which is pervasive.

It’s the creative principle of mind, which characterizes and bounds the universe. And that the only way we’re going to be able to understand, and gain necessary and efficient mastery of this universe, is to the extent that we incorporate our investigation of mind, as what becomes the dominant principle by which we investigate the universe as a whole.

That becomes a problem right now, whenever we’re led by a President who, himself, has lost his mind. So if the universe is characteristically of mind, it doesn’t make a lot of sense to be led by someone who, himself, has lost his mind.

It's the British, Stupid!

Reports coming into the LaRouche movement make it perfectly clear that there is a concerted mobilization going on, worldwide and in the United States, to prevent the potentially imminent outbreak of World War III. The question is, will those attempting to stop the war hit the right target, and in time?

Most useful, of course, is the forthright approach of the Russian government, and associated, if retired, military officials. As you can read in this issue, President Medvedev and numerous high-ranking military men have minced no words in drawing the line against NATO/U.S. moves toward general war, whether they come in the form of attacks on Syria and/or Iran, or in response to the creation of ABM systems near Russia's borders, which threaten Russia's security.

The fact that you have read virtually nothing in the U.S. press, nor seen anything in the electronic media, about the Russian response to overt U.S./NATO provocations, should not reassure you. There are physical deployments going on, not just statements being made. The silence from the U.S. means that we are actually operating under the "fog of war."

Why, for example, has President Obama not provided any response to President Medvedev's special Nov. 23 address, in which he extended a hand for renewed dialogue on the question of strategic defense? Why has Obama continued on a course of provocative sanctions against Iran and Syria, when the Russians have put alternative proposals on the table, which would avoid the course toward conflict?

And what is happening in the U.S., in addition to the LaRouche movement's activities, to prevent war? A senior U.S. intelligence source on Nov. 28 stated that the Joint Chiefs of Staff are on an all-

out war-avoidance mobilization, fearing that President Obama is—to use a euphemism—"unpredictable." The source emphasized that, as long as the Iran situation remains in limbo, the military brass will oppose any other military operations, including against Syria.

What they fear the most, given the Obama wild card, is that they will be drawn into a war that they vehemently oppose, as the result of an Israeli attack against Iran, followed by Iranian retaliation against Israel and U.S. forces and allies in the Persian Gulf. The United States has bilateral treaty obligations with several of the Gulf Cooperation Council member countries, which would be activated in the event of any Iranian attack against them.

But, think it through. How *can* the insane Obama be stopped from going through with the provocations which could easily lead to thermo-nuclear World War III? Senior military sources have already reported to *EIR* that Obama has turned down their request that he "read the riot act" to Israel, to prevent it from carrying out an attack on Iran's nuclear facility. But indeed, even if Obama had agreed, there is absolutely no certainty that he would not "change his mind," should his British masters give the relevant orders.

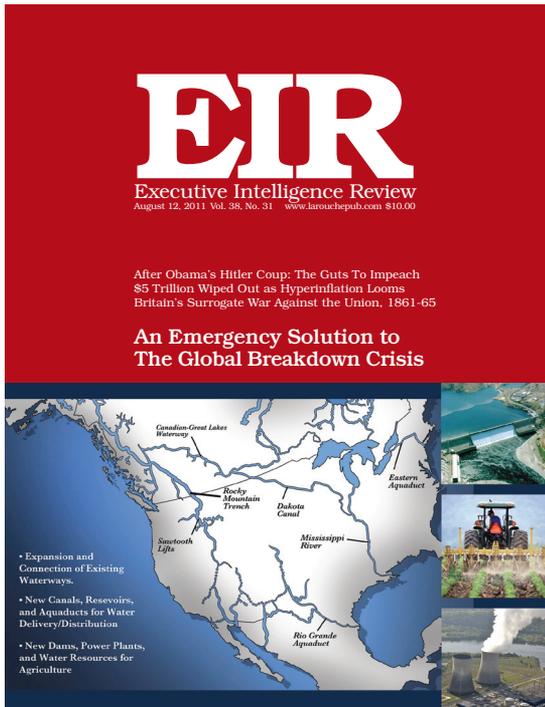
Why? Number one, because Obama is a lunatic, narcissistic personality who is not governed by reason, but by an insane desire to act like a modern-day Nero. And, number two, Obama is a British puppet. As Lyndon LaRouche has stressed, *the decision to go to war will not be made by Obama, but in London.*

So, it's time to take the Queen's finger off the nuclear button! And the only way that can be done is to remove Obama from office by the 25th Amendment, impeachment, or both.

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