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Helga Zepp-LaRouche Brings BRICS to U.S. Doorstep
New Paradigm Science: Time for a Solar Noösphere
Will the West Take the Damascus Road?

**Reversing America's 50-Year
Economic Nightmare Since JFK**



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EIR

From the Editors

Lyndon LaRouche has been emphatic: There has not been an ounce of growth in the real U.S. economy since the death of President John F. Kennedy. In our *Cover Feature*, Economics editor Paul Gallagher elaborates the basis for LaRouche's judgment, with a devastating review of exactly how we have been destroying ourselves by adopting British monetarist methods. If you can understand what went wrong with our economy, you will understand why Americans must not only appreciate what the BRICS nations are doing, but why it is urgent that we join them in realizing mankind's global mission, a mission JFK himself would have championed.

The live fight around the BRICS perspective is featured in our *Economics* section, with our report on "Silk Road Lady" Helga Zepp-LaRouche's address to a Mexican audience last week. This highly successful event brought the BRICS to the doorstep of the U.S., and drew significant participation from both a Chinese representative in Mexico, and a young LaRouche movement member in Spain, most of which we reproduce here.

The British Empire's war against the BRICS process, with threats of regime change and war, is the subject of our *International* lead, and includes an abundance of documentation the Establishment media doesn't want you to know about. That is followed by a fascinating report by a member of the LaRouche movement, on his trip to Syria, as part of a delegation assembled in Sweden.

Our *National* section serves as a complement to the *Feature*, in taking up the method for bringing Americans back to their historic mission. Lyndon LaRouche has identified the series of meetings, like the one we cover in-depth here, as a "Manhattan Project," capable of showing the way out of the current political crisis to the nation as a whole.

Under *Science*, we present a highly stimulating paper by LaRouchePAC Scientific Team member Ben Deniston, entitled "Time for a Solar Noösphere." Deniston's article is part of the Vernadsky project which LaRouche has defined, to pursue with scientific rigor the implications of the great Ukrainian-Russian scientist's contributions to defining the true nature of man, as distinct from the animals.

Finally, don't miss the Schiller Institute's international petition, on getting the U.S. and Europe to join the BRICS.

Cover This Week

President John F. Kennedy with Indian Prime Minister Jawaharlal Nehru in Washington, 1961.



U.S. Embassy, New Delhi

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The great projects of the BRICS countries today—girdling six continents with high-speed railroads, mining the Moon, and breaking through to thermonuclear fusion power by 2030—are precisely the kind of “missions” with which John F. Kennedy challenged and led Americans during his brief Presidency. Add the task of defending the Earth from asteroid and great meteorite strikes, and the combined mission would have been big enough for JFK. The downward spiral of the U.S. economy since then was accurately and publicly forecast by Lyndon LaRouche in the years following Kennedy's death. Since then, Lyndon and Helga LaRouche have promoted the emergence of the new development banks and “Eurasian Land-Bridge” development corridors of the BRICS countries, while London and Wall Street have taken the U.S. and Europe on a suicidal course.

Economics

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Helga Zepp-LaRouche addressed more than 100 people, most of them youth, gathered in Mexico City Jan. 20 for a seminar titled “A Life or Death Choice Between Two Systems: The BRICS and the Scientific-Economic Revolution that Will Change the World.” Zepp-LaRouche told the audience that the revolution centered on China's New Silk Road initiative and the BRICS nations' fight for development, is grounds for optimism for Mexico, and for humanity as a whole.

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Zepp-LaRouche's video-address to the conference, in which she presented an image of “a civilization at a crossroads, where the future fate of mankind is completely open.”

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Soto, of the Spanish LaRouche Movement, addressed the conference by video from Spain, drawing a sharp contrast between the murderous policies of the Troika, and those of the development-oriented BRICS.

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Intensifying provocations from the British Empire, and its de facto puppets in Brussels and Washington, against, especially Russia, are pushing the world toward what Lyndon LaRouche described as the very “edge of a general state of thermonuclear warfare.”

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An first-hand account by *EIR*’s Stockholm correspondent Ulf Sandmark of his visit to Damascus, as part of a delegation from the Syrian Support Committee for Democracy, based in Sweden.

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38 **‘The Manhattan Project’: Lifting Up Americans to a National Vision Once Again**

The New York-New Jersey chapter of the Schiller Institute convened 175 people for a conference entitled “Seize the Opportunity—End America’s Blindness, Restore Its Vision,” on Nov. 22 at New York City’s All Souls Church. The conference was dedicated to President John F. Kennedy on the anniversary of his death, and to the victims and families of 9/11.

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43 **Science for a New Paradigm: Time for a Solar Noösphere**

Based on Vernadsky’s thesis concerning the variable space-time characteristics of living matter, the LaRouche Science Team formed an hypothesis about a relative space-time of living organisms, writes Benjamin Deniston. In this report, the relativistic domain of animal time with the qualitatively different, self-determined time created by mankind is compared. Mankind is not, and cannot be measured by, nor confined in, animal time, but increasingly occupies and creates new domains of time in the very short and the very long.

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WHY WE MUST ALLY WITH THE BRICS

America's 50-Year Economic Nightmare Since Kennedy

by Paul Gallagher

The great projects of the BRICS countries today—girdling six continents with high-speed railroads, mining the Moon, and breaking through to thermonuclear fusion power by 2030—are precisely the kind of “missions” with which John F. Kennedy challenged and led Americans during his brief Presidency. Add the task of defending the Earth from asteroid and great meteorite strikes, and the combined mission would have been big enough for JFK.

Lyndon LaRouche has long insisted that there has been no real growth in the United States economy, but rather an outright decline, since Kennedy was assassinated a half-century ago. Today LaRouche's point is frequently documented retrospectively from one standpoint: that of real wages, household incomes, living standards of most Americans; they are lower than they were in the early 1970s. From the World War II generation, the direction has been successively downward for the majorities of the three generations of Americans since.

While others have reported this, LaRouche *publicly forecast it in the years after Kennedy's death*. This was the first of the extraordinarily prescient long-term economic forecasts LaRouche has made, and which have made him so respected—and feared—by Wall Street and the City of London. In published writings in the late 1960s, LaRouche had forecast that the 1960s' successive crises of the British pound sterling were being steered toward the forced breakup of the Bretton

Woods fixed-exchange-rate system “at about the end of the 1960s decade.” Under then-current policy trends, LaRouche had written, Bretton Woods would be broken up and its destruction would be followed by a turn to deep (“fascist”) austerity against the United States economy.

His forecast was then confirmed with shocking impact on Aug. 15, 1971, when President Richard Nixon abandoned Franklin Roosevelt's Bretton Woods System. A new era began, in which the United States lost control of its currency to City of London financial forces, and slowly evolved into a relatively low-wage nation with a service economy.

A half-century later, Lyndon and Helga LaRouche have promoted and hailed the emergence of the new development banks and “Eurasian Land-Bridge” development corridors of the BRICS countries (Brazil, Russia, India, China, South Africa). Zepp-LaRouche is regularly interviewed in Chinese media as an early conceptualizer and expert on the “New Silk Road” policy.

At the joint press conference of Presidents Barack Obama and Xi Jinping on Nov. 12 following the Asia-Pacific Economic Cooperation (APEC) summit in Beijing, we witnessed the Chinese President inviting the United States to join the new Asian Infrastructure Investment Bank (AIIB) and “Silk Road Fund.” Among other effects of this positive development dynamic, the United



John F. Kennedy Library

President Kennedy inspects the Friendship 7 space capsule, Feb. 23, 1962. Behind him are astronaut John Glenn and other NASA figures. Kennedy's grand design for space exploration began to be axed within just a few years of his death.

States now has the prospect, after more than 40 years, of regaining control of its currency and credit issuance and using it for high-technology infrastructure development.

Instead, the Administration of Barack Obama, who was just “politically impeached” by an angry and economically depressed American electorate, is fighting to *suppress* the Chinese-initiated AIIB. The bank has been joined by more than 21 other nations, despite Obama’s armtwisting.

Obama’s conduct is suicidal for the United States. There is no greater contrast than that between China’s and America’s contributions to world economic growth, employment, productivity, and labor power during the 21st Century. The United States urgently needs a general agreement with China to cooperate on these goals.

Downhill Since the 1970s

There is broad public understanding that the “Obama recovery” has left most Americans worse off economically than before the 2008 financial crash. And many remember that household income had already declined (by almost 5%) in real terms during George W. Bush’s two terms as President, before that crash.

But few understand what LaRouche foresaw. The

U.S. economy and living standards have deteriorated since the 1970s, and this was clearly set off after the killing of Kennedy, by the events leading into and surrounding Nixon’s fatal action in August 1971, which LaRouche had so precisely forecast along with all its consequences.

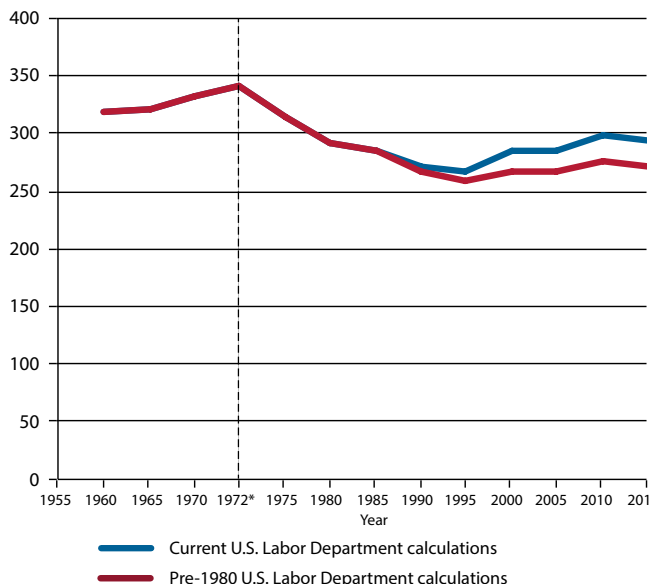
Figure 1 shows the course of the median¹ weekly (gross) income of an employed American since 1960, based on constant 1982 dollars. Not only has that real income dropped by 8.6% over 50 years, according to this calculation; but the drop is 13.7% in the 40 years since 1972. And, it was concentrated in a disas-

trous 20% fall from 1972 onwards into the early 1990s. Worse, if there had not been a series of deceptive changes since 1980 in how the U.S. Labor Department calculates inflation and the Consumer Price Index, the 40-year 1972-2013 fall in real median weekly income of an employed American would actually be more than a fifth, just under 21%: a 25% drop from 1972-93, followed by up-and-down stagnation since.

This has not been the result only of the drop in the workweek from 39 to 33 hours over those decades (more than half of American workers are now employed part-time, as temps through contractors, or as freelancers). Hourly pay has also fallen. Pew Research Center, in an analysis of Labor Department and Census data back to 1964, published Oct. 18, 2014, on its website, demonstrates this. Converting to 2014 dollars, Pew found that the *average* of real hourly wages was \$22.61 in 1972, when they reached their highest point. That average is now \$20.64, and thus 10% lower than 40 years ago. But with income inequality rapidly growing,

1. Median income: Half of the relevant population earned more than this amount, and half earned less. Not to be confused with “average” income.

FIGURE 1
Median Real Weekly Earnings
 (Private Sector, 1982 dollars)



Sources: Economic Report of the President, 2013; Shadowstats.com

the *median* real hourly wage is \$17.85/hour, or 18% lower today, than in 1972.

The median real *household* income in America appears to have grown by about 11% since 1970, using Labor Department data and 2012 dollars as the constant. This results from the number of people working per household having risen from 1.18 to 1.43, or about 25%. But again, if the Labor Department's pre-1980, relatively straightforward method of calculating inflation had continued to be used until today, real household income would be seen to have been flat for 40 years (from \$46,921 to \$46,936), despite the additional household members working.²

A tell-tale sign of the impoverishment over those decades is the long climb of the American public's need to use food stamps (**Figure 2**), which clearly has occurred not only during the Bush/Obama administra-

2. For calculations of the effects of bringing the pre-1980 measure of inflation forward to the present time, credit is due to John Williams' www.shadowstats.com. The government admits the bias; the 1999 "Economic Report to the President" stated the changes to the method of calculating inflation from 1980-2000 would lower the rate of inflation applied against wages and living standards, by 0.68% per year. Others, including State Street Bank Research, estimate this inflation fraud at 1.0-1.5% over the whole period; and additional changes have been made by the Labor Department since 2000.

FIGURE 2
Average Participation - Food Assistance
 (\$, Fiscal Year)



www.mylbudget360.com

tions, but also between the start of the 1970s and the early 1990s (the program dates to 1964).

Collapse of Productivity

The U.S. economy is no longer productive. Its productivity can only really be measured in comparison to its own past performance, by which measure it has fallen dramatically through an uninterrupted period of 50 years since of JFK's assassination.

Strangely, the central banks of Europe and the United States today, while flooding securities markets with vast oceans of printed and electronic liquidity since 2008, are proclaiming the urgent need for giving their real economies a "total factor productivity shock."

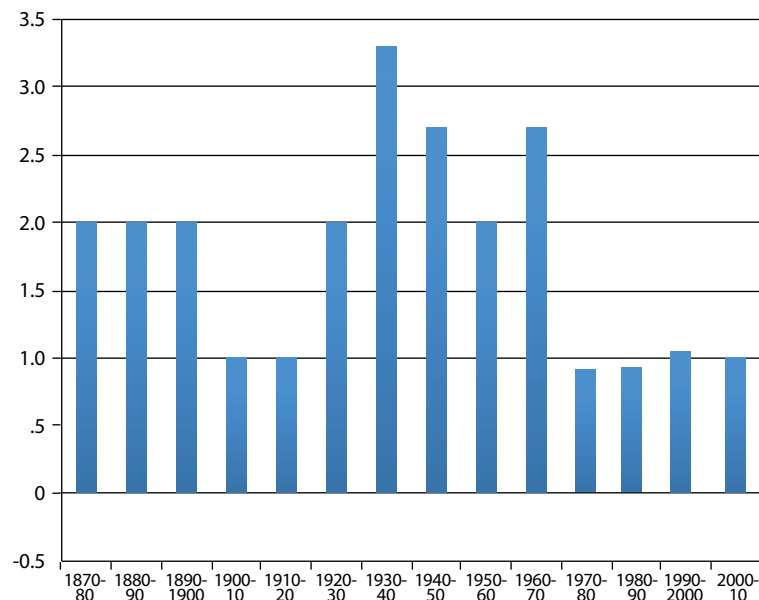
That would certainly be needed. But at the same time, U.S. and European government and "institutional" economists make the incredible claim that China, since the early 1990s, has "sacrificed productivity" by pursuing investments in new economic infrastructure at 8-9% of GDP every year.

Where, then, do these economists believe productivity comes from? Their money-colored view is that productivity is connected to labor intensity—less capital expenditures mobilizing more labor at lower labor costs per unit of "production"; more and more, this means "production" of non-productive services! These services are labor-intensive. Compare three

FIGURE 3

Total Factor Productivity in the U.S. Economy

(Annual Growth by Decade)



Source: NBER, Congressional Research Paper "Total Factor Productivity Growth in Historical Perspective", 2013

economies now roughly equal in size: China's fixed capital investment is growing at 16% annually; in the United States, by less than 4%; in Europe, by 1%.

The central bank economists associate productivity with "structural reform," or austerity programs: removing trade union protections and getting more workers to produce more work in the same time and/or for less compensation. This was stated bluntly by European Central Bank board member Benoit Coeure at a Johns Hopkins University event during the Oct. 14-15 IMF/World Bank meetings in Washington.

Even by this degraded measure, productivity has not grown in the U.S. economy, for example, for the last 14 quarters.

But this measure itself is criminally incompetent, as shown by actual historical studies of the "total factor productivity" growth they aim to achieve. This parameter attempts to measure that rate of growth of an economy that is due to technological advance, rather than the simple application of more labor and/or more capital to economic sectors.

The highest annual rate of growth of productivity thus measured, in America's history, was clearly not associated with austerity programs. It was instead the

3.30% rate of the 1930s, under President Franklin Roosevelt's New Deal re-employment and massive "Four Corners" infrastructure programs. This was due to the very strong growth in electric power generation and distribution, transportation, communications, civil and structural engineering for bridges, tunnels, dams, highways, railroads, and transmission systems; and private research and development.³

Studies of U.S. economic history call 1940-70 the "golden age of productivity" because of sustained growth in total factor productivity which built on FDR's New Deal and Four Corners. Next best after the 1930s was the 2.70% annual rate of productivity growth for the 1940s, reached again during President Kennedy's 1960s. Today, U.S. total factor productivity growth is estimated at "1% annually," where it has been for most of the period since 1972 (**Figure 3**).

And the major cause for this? U.S. investment in new infrastructure as a percentage of GDP, which again reached and exceeded 3% during Kennedy's 1960s, now scrapes the bottom among industrial countries at 1.4% of GDP (**Figure 4**)—compared to China's 8.8% average over the past 22 years (1992-2014).

And perhaps the most important "infrastructure project"—NASA's space exploration, key to the productivity gains in aerospace which outpaced every other economic sector—was cut down perhaps in the most dramatic fashion in American economic history. **Figure 5** shows that U.S. investment in the exploration of the Moon and Solar System was cut by 90%, as a share of GDP, in just a few years after John F. Kennedy was killed. It has remained an order of magnitude less than what Kennedy launched, ever since.

The United States was the model for development, into the post-World War II years. In this period came the Atoms for Peace program, for advanced power and large-scale infrastructure projects internationally. American teams collaborated on building dams for hydro-power and irrigation, from Haiti to Afghanistan. Plans for nuclear power in Egypt, Iran, and throughout Southwest Asia were initiated by Detroit Edison, Westinghouse,

3. "Sources of TFP Growth in the Golden Age," National Bureau of Economics Research, 2005.

FIGURE 4

The 50-Year Disappearance of U.S. Infrastructure

(Annual Investment as % of GDP)

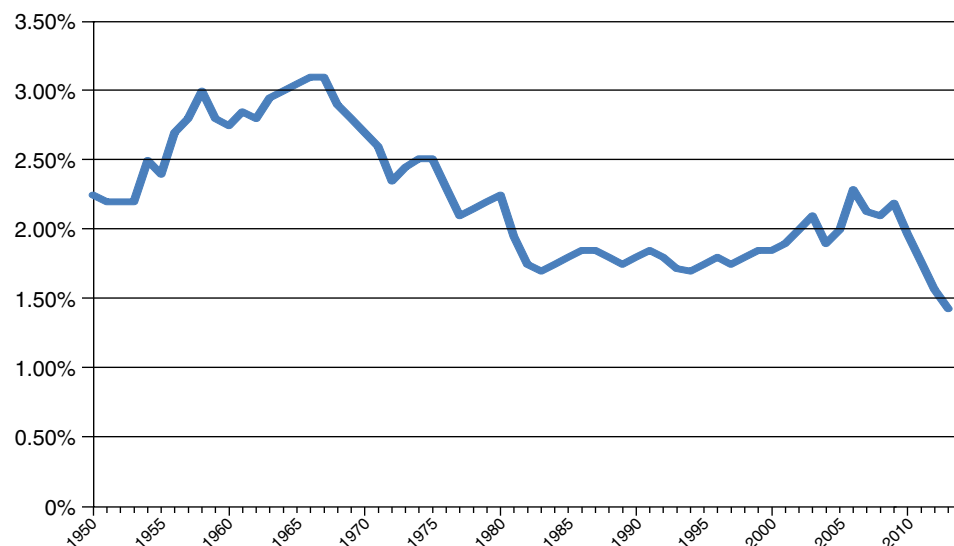
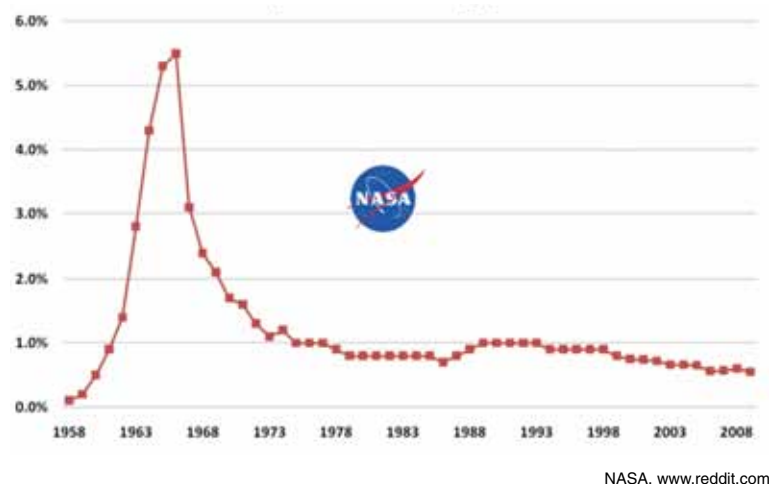


FIGURE 5

NASA Budget History

(% of Total Federal Budget)



NASA, www.reddit.com

and other private firms, working with the U.S. diplomatic corps. In North America, the Tennessee Valley Authority (TVA) model continued in the great California Water Project (1960-73), the upper Missouri River Basin project (Pick-Sloan Plan, 1944). In 1959, the St. Lawrence Seaway was completed, a transportation corridor to mutually serve Canada and the United States.

President Dwight Eisenhower's national interstate highway building program, with its dedicated capital source, was continued and expanded in the Kennedy years. The Apollo space program led the world to the Moon. The North American Water and Power Alliance (NAWAPA) was put forward as history's greatest water-management works, to benefit the entire continent (it was never built). Kennedy's call was that "no drop of water in the West [of North America] should go to the ocean unmanaged." Nuclear isotope production for medicine and biology, and nuclear power

production took off, and nuclear desalination projects were launched. The U.S. public health system, centered on hospitals, was built up nationwide; TB, polio, and other diseases were conquered. Crop genetics advances in the Green Revolution foretold a future without famine.

The Nature of Employment

But also by the measure of employment, the U.S. economy has become unproductive since 1970. The shares of its workforce involved in broadly productive employment on the one hand, and in broadly non-productive employment on the other, have "flipped." The U.S. economy has more than twice as many retail trade employees today as in 1970; more than twice as many working in the financial, insurance, and real estate sectors; more than three times as many "leisure and hospitality" workers; and more than four times as many employees in "professional and business services." The share of the American workforce employed in these areas—the furthest removed from goods production and construction—rose by just 5% from 1940-70 (from 19% to 24%), but by another 13% since then (from 24% to 37%). The total number of Americans employed in these four sectors grew from 21 million in 1970 to 57 million today.



The St. Lawrence Seaway, completed in 1959, formed a transportation corridor to benefit both Canada and the United States.

But in the broadest definition of productive employment—goods production, construction, mining, transportation, power utilities, and engineering—there are fewer Americans working today (25.1 million) than in 1970 (26.8 million). And as a share of the workforce they have fallen in half, from 32.5% to 16.1%, while clearly non-productive employment has doubled from 18% to 37%.

If one considers manufacturing, mining, and construction workers alone—the common economic definition of “goods-producing” workers—the decline is absolute. Their numbers nearly doubled from 1940 to 1970, but have dropped since then from 22 million to 18.7 million.

Why was the plunge in incomes so sharp in the 1970s through the early 1990s, and the loss of economic productivity so dramatic since the Kennedy Presidency?

London’s Dollar

One key parameter is that the dollar became decoupled from its sovereign function as credit for production, and was made the instrument for simply “making money.”

The United States maintained essential control of its own issuance of currency and national credit, from the time President Franklin Roosevelt replaced the British gold standard with a gold-reserve system in 1933, through the strong capital and exchange controls of the postwar Bretton Woods System initiated by Roosevelt’s Administration.

The idea of Roosevelt’s Bretton Woods was that national capital and currency stayed at home for investment—the “non-exportable currency” explained in detail 70 years earlier by President Abraham Lincoln’s economist Henry C. Carey. International credit was to enable underdeveloped nations to purchase goods, machinery, and technology from developed ones. Governments restricted cross-border flows of financial capital to payments for trade; banks in member countries were not usually allowed to take deposits in foreign currencies unless the depositor proved that the deposits served for payment of trade. Economic growth was high and broad-based under this system.

The government of China exercises such currency, capital, and credit policies today.

LaRouche explained already in his 1967 pamphlet *The Third Stage of Imperialism* that when Eisenhower’s United States failed to follow through on the actual needs for extending development credit internationally, Wall Street and London started the unregulated export of capital, and the “export of production,” from the United States instead.

The City of London banks, beginning with the one now called HSBC (formerly the Hongkong and Shanghai Banking Corp.), set up British offshore centers of the so-called “eurodollar” market from just prior to 1960, directly violating the rules of the Bretton Woods System. British banks opened offshore dollar accounts which paid significantly higher interest rates than did accounts in U.S. banks, and which made speculative loans and securities investments initially in Europe, particularly for corporate takeovers.

The London banks did this initially, starting in 1955, in collaboration with banks in the Soviet Union, which wanted to move dollar accounts belonging to Soviet citizens or Soviet agencies out of the United States. But soon after this ironic beginning, Wall Street banks jumped in. Before long, both City of London and Wall Street banks were directing the oil revenues of Middle Eastern countries and the Soviet Union into these “eurodollar-petrodollar” accounts as well. Already in 1958, \$1 billion flowed from U.S. bank deposits into the euro-

dollar market. By the mid-1960s, the flow had reached \$60 billion, equal to almost 10% of U.S. GDP.

This began London's "comeback" as what is today, again, the world's dominant and imperial financial center. It is the world leader in foreign exchange trading, cross-border bank lending, exchange listing of companies and, by far, in financial derivatives issuance.

The eurodollar accounts had the elevated interest rates and offshore speculative purposes of what has since been called a "carry trade." Especially as European countries all made their currencies freely convertible into dollars by 1960, the eurodollar market progressively drew the U.S. money supply offshore and robbed the Treasury of control of creation of its own currency. By 1980, approximately 80% of U.S. dollars were circulating, and effectively being created, outside the U.S. economy.

The petrodollar, or "London dollar," effectively replaced the U.S. dollar.

U.S. and other national "prime" interest rates were replaced in this process by the LIBOR—London Interbank Offered Rates—which became dominant, and are now known to have been systematically rigged by the British Banking Association, which set them daily.

U.S. banking regulations disappeared. A top Bank of England (BoE) official, James Keogh, said in 1963: "It doesn't matter to me whether Citibank is evading American regulations in London. I wouldn't particularly want to know." The BoE stated in a memo that year, as London offered unregulated and unnamed ("bearer") Eurobonds—perfect vehicles for tax evasion and financial crime—"However much we dislike hot money, we cannot be international bankers and refuse to accept money."⁴

And these offshore dollars, in the form of high-interest eurodollar loans syndicated by London and Wall Street banks, began to be used to replace American and European manufacturing and industrial production plants with substitutes in countries featuring lower, even much lower, wages.

Kennedy vs. London and Wall Street

As this process progressed during the later 1960s and 1970s, inflation was triggered in the United States, and domestic interest rates were pulled up at the same time. The dollar-gold reserve fixing, which was central to the Bretton Woods System, was threatened with the breakdown which LaRouche forecast.

The big Wall Street banks followed their accounts to the City of London, opening "offshore" arms there which evaded the Glass-Steagall Act's limits on securities speculation.

The last President who tried to stop this massive speculative export of U.S. currency was John Kennedy. Kennedy planned, with aides, to restore enforcement of the currency and capital controls of the Bretton Woods Agreement. Kennedy is quoted in Nomi Prins' *All the President's Bankers*: "It's an insane system to have all these dollars floating around [that] people can cash in for a very limited supply of gold."

Prins reports that on July 18, 1962, Kennedy "announced a program . . . that included a 15% tax on purchases by Americans of foreign securities and a tax on loans made by American banks to foreign borrowers." He wanted to go further and reimpose currency and capital controls.

Wall Street strongly opposed him, led by then-New York Governor Nelson Rockefeller. *Life* magazine on July 6, 1962 featured Rockefeller's open letter to Kennedy, opposing his proposed exchange controls and claiming that the entire financial and business community opposed him. Kennedy lost the battle. After JFK's death, Walter Wriston of Citibank wrote (again quoted by Prins): "In 1963, the United States began a futile bout with capital controls. . . . In this period, New York banks began to finance projects in America with dollars deposited in European [i.e., London—ed.] banks."⁵

President Nixon made the loss of U.S. management of the dollar into an uncontrollable flood. The turning point into this devolution was 1972, immediately after Nixon was bullied by the British and by his Office of Management and Budget Director/Treasury Secretary George P. Shultz into breaking Roosevelt's Bretton Woods System. The United States then let the dollar float speculatively against gold and other currencies. Nixon's and Shultz's actions triggered an explosion in the offshore markets for speculative U.S. dollar accounts: the eurodollar/petrodollar markets. They also triggered an explosion of unregulated foreign exchange ("forex") trading to now \$5 trillion daily, 98-99% of that trading independent of any trade in goods and services. Major London banks have recently acknowledged to regulators that forex values, too, have been unlawfully rigged.

Since 2011, British financial institutions have been working to establish the City of London as an offshore

4. Nomi Prins, *All the President's Bankers* (Nation Books, 2014), pp. 226-228, 245-247.

5. Nicholas Shaxson, "The Much Too Special Relationship," *The American Interest*, March 19, 2014.

Below: President Nixon meets with Cabinet members, plotting to smash the Bretton Woods System, May 4, 1971. From left: Federal Reserve chairman Arthur Burns, Treasury Secretary John Connally, Nixon, chairman of the President's Council on Economic Advisors Paul McCracken, OMB director George Shultz. Right: Lyndon LaRouche had forecast the breakup of the Bretton Woods System; here, the newspaper of the LaRouche movement announces the President's official move of Aug. 15, 1971.



National Archives/Oliver F. Atkins

financial center for investment and trading in China's currency, the renminbi. Beijing is well warned, and has given priority instead to Frankfurt, for purposes of China's trade with Europe.

Today's Reality

Since the 1960s forecast by LaRouche described above, the nearly 50-year slow-motion collapse of the U.S. productive economy and the standards of living of its once-productive citizens, has made that long-term forecast one of the most telling in economic history.

The 1970s U.S. economy was marked by steadily rising, and apparently uncontrollable inflation, and by a doubling of the number of officially unemployed Americans from 4 million to 8 million. The 1960s' sharp reduction of officially defined poverty was reversed, and the poverty rate rose from 12.5% in 1970 to 14% in 1980, its peak until the aftermath of the 2008 financial crash (it is now 15.9%). The decade was ended by Federal Reserve chairman Paul Volcker's brutal crushing of inflation by raising baseline interest rates to a usurious 21%, causing a deep and "double-dip" recession.

That recession, including its 1981-82 second "dip,"

was also precisely forecast by LaRouche and his *EIR* economics team in early 1980.

Employment recovered during the 1980s, but real household incomes and real hourly wages continued to drop. The stages of deep austerity that LaRouche had forecast would follow Nixon's breaking up the Bretton Woods system, were being carried out.

Another extraordinary marker of what the destruction of Roosevelt's Bretton Woods meant, is the explosion of the amount of debt necessary to produce a given amount of GDP—under the circumstances of London's eurodollar/petrodollar system, floating exchange rates, and then globalized securitization of debt. **Figure 6** shows the approximate ratios of debt of all kinds—government, business, and household—to GDP in the U.S. economy from 1950 to the present. No comment is necessary.

The drop in real incomes and living standards leveled off in the late 1980s, and was replaced by relative stagnation, until Bush, the 2008 crash, and Obama's "recovery" started another downhill slide. The leveling-off reflected the collapse of the Soviet Union, greatly strengthening the petrodollar. The United States was enabled to consume imports and run trade deficits in the hundreds of billions of dollars annually for decades.

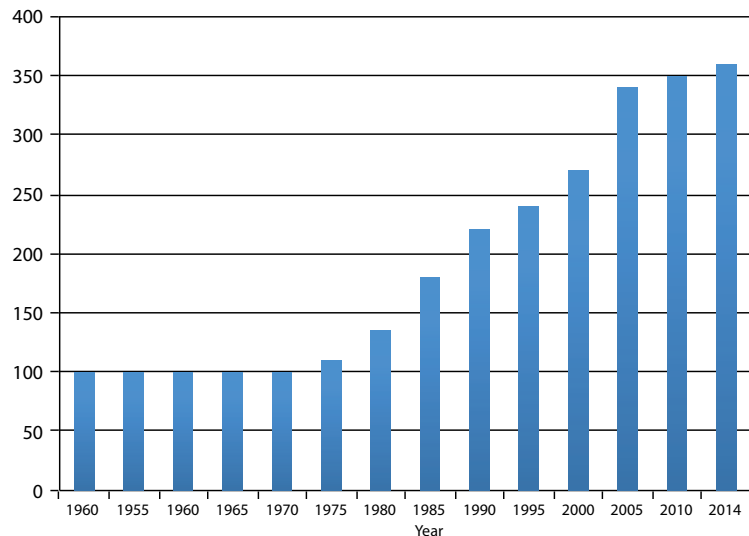
But the decline in productive employment did not stabilize; it has fallen by another 4 million, another 7% of the workforce, since 1990.

Nuclear power, NAWAPA, the space program, the drive to harness thermonuclear fusion power, have all been abandoned or have faded to economic insignificance in the decades under the Presidents who have followed Kennedy.

Fifty years later, the U.S. economy is in a permanent low-productivity, cheap-labor, part-time/temporary/self-employment morass, sometimes repugnantly called "the new normal." Low and declining real wages and household incomes now dominate the economic *and social reality* of the nation.

Entire, once-productive sections of the economic platform of the continent have been destroyed—for example, the steel centers of Monterrey, Mexico and Pittsburgh, Pa. The North American rail grid is dysfunctional—it cannot move out the High Plains Cana-

FIGURE 6

All Sectors' Debt to GDP

Source: New America Foundation, from Federal Reserve and BEA Data

dian and U.S. harvests. Detroit and other once great industrial and cultural cities are bankrupt ruins. The entire state of California has only 18 months of water left, unless miracle rains occur.

The North American continent lacks rail—let alone high-speed rail—connectivity, although it was the first continent with not one but five East-West transcontinental railroad corridors by 1890. The contiguous (“lower 48” states) United States is unconnected with the great western plain provinces of Canada, and unconnected with Alaska. The entirety of North America is unlinked, even by highway, to South America.

Here too, the aftermath of JFK’s assassination was the turning point. Though the national interstate highway program initiated under President Eisenhower had literally identified America with the connectivity provided by good roads, that process reversed after 1965. Trunk highways have become choked and structurally degraded by truck traffic, as total road mileage in use per capita has declined by 50% since 1965. Rail mileage (Class 1 plus Amtrak passenger rail) per capita has fallen from 90 miles in 1965 to just 54 now. The North American rail system is so

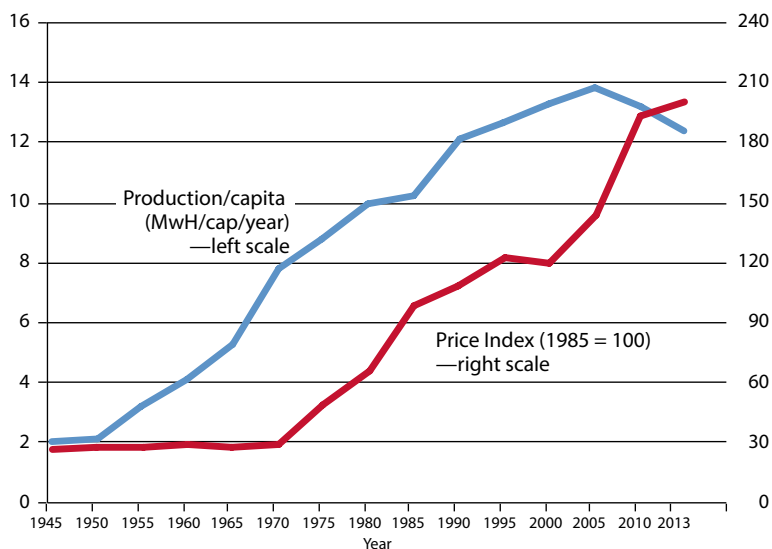
dysfunctional that in Spring 2014, fertilizer shipments were delayed past planting time in the northern High Plains of the United States and Canada. Then, after the harvest, the trains could not move out the crops.

The nation’s mileage of *electrified* railroad track, which was 16% of its total rail network in 1965, is now just 1% of the network.

We see the same picture in electricity production and price, which are vital for economic growth and productivity (**Figure 7**). After doubling in the 1950s, and again in the 1960s, electricity production per capita in the United States grew by just one-quarter in the 1970s, by one-fifth in the 1980s, by just 8% over the 1990s, and has stagnated and fallen by 8% since the turn of the 21st Century. And the price index for electricity, having been stable for 25 years (1945-70), rose sharply from the 1970s on, even before the impact of electricity deregulation.

In the use and provision of water supplies, with the exception of public or municipal use, all the main uses of water—by industry, by agriculture for irrigation, for thermoelectric power generation—peaked between 1970 and 1980, and have dropped since by anywhere from 23% to 65%. As a result, the U.S. economy as a whole used 17% less water in 2010 than in 1980, even including public use by a population

FIGURE 7

Electricity per Capita

Sources: Energy Information Agency/Census for production; Bureau of Labor Statistics for price index



©Cuyahoga County Engineer's Office/Robert C. Klaiber, Jr.

Dysfunctional infrastructure in the United States: the Rockefeller Bridge in Cleveland, Ohio.

which has grown nearly 40% in that time. These uses have been reported at five-year intervals since 1950 by the United States Geological Survey.

Worst and most dangerous to its well-being, the United States has come to lack water management and faces an enormous and intensifying drought which threatens its food supply. The last major water management projects in the dry West of the country were those dedicated by JFK, and by President Lyndon Johnson later in the 1960s. And Kennedy was backing the Senate initiative, in which his brother Sen. Robert Kennedy also got involved, to create the North American Water and Power Alliance (NAWAPA), the scheme with 10 times the scope and productiveness of the Tennessee Valley Authority, and which was sometimes inadequately termed “water from Alaska.” The plan, along with Kennedy’s mission for widespread desalination with nuclear power, died during the Vietnam War, and no other comprehensive strategy for anti-drought infrastructure has ever taken its place. The history is dramatically told in LaRouchePAC’s one-hour [documentary](#), “JFK Speeches Toward a Nationwide TVA.”

National Credit

Various proposals for “infrastructure banks” have been raised during the Bush and Obama administrations. They have, for the most part, been far, far too small to address the United States’ huge and urgent needs for investment in new infrastructure platforms, technological frontier advances centered around fusion

power development, and revived space exploration. They have been centered on attracting private infrastructure investments, merely using Federal credit to guarantee interest payments.

The real credit to be attracted for this purpose, however, overwhelmingly hails from the 21st Century’s center of economic growth and productive employment creation: China. This is the process which is creating the “BRICS dynamic,” which became visibly dominant at the Nov. 10-11 APEC summit.

In order to join this process and reverse its own real economic decline, the United States will have to create its own national development bank, with Federal credit, on Alexander Hamilton’s national banking principles.

By issuing credit from such a national development bank in cooperation with the new BRICS development banks and funds being created primarily by China, the United States will be acting for the economic benefit of other nations—and becoming the greatest beneficiary itself.



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Zepp-LaRouche Brings BRICS to U.S. Doorstep

by Gretchen Small and Dennis Small

Nov. 20—Schiller Institute founder Helga Zepp-LaRouche addressed by video an overflow crowd of more than 100 people, most of them youth, gathered today in Mexico City for a seminar titled “A Life or Death Choice Between Two Systems: The BRICS and the Scientific-Economic Revolution that Will Change the World.” Zepp-LaRouche brought the message to this U.S. neighbor in the midst of Mexico’s political upheaval, telling the audience that the revolution centered on China’s New Silk Road initiative and the BRICS nations’ fight for development, is grounds for optimism for Mexico, and for humanity as a whole (see below for a transcript of her remarks).

Civilization stands “at a crossroads, where the future fate of mankind is completely open,” she stated. “The evil system of the British Empire, of Wall Street, of London, exists still. But in reality, they are finished already. It is only a question if they will be able to pull the world down with them, in a catastrophe or not. But there is the optimistic perspective, that of the new power center” of the BRICS and those countries associated with them, the majority of mankind, fighting for a new world economic order, which can usher in “a completely new phase in the history of civilization,” in which humanity will “build and extend infrastructure into nearby space,” through space colonization and space development.

The seminar was organized by the LaRouche Citizens Movement of Mexico (MOCILA), and webcast by *EIR* to listeners in Spain, in at least 10 other Ibero-

American countries (including at two universities in Colombia and a meeting in Guatemala City), and in the United States.

It took place in the midst of a London-led effort to trigger a “color revolution” to overthrow the Enrique Peña Nieto government of Mexico, which had dared reach out to China and the other BRICS as allies against the Wall Street and London interests who run the drug trade. It took a political fight to even find a place in which to hold a conference on the BRICS in Mexico City, and the very day it was held, anarchist forces were turned back by the police from Mexico City’s international airport, which they were intent on occupying, preparatory to mass marches in the late afternoon.

Universities have been the center of the turmoil, dominated by wild radicalism, but MOCILA organizers sparked great interest among serious thinkers with bold posters announcing the BRICS seminar, which they plastered across several of Mexico City’s biggest campuses. Two-thirds of the attendees at the seminar were university students (who paid to attend), including a contingent who came from Querétaro—a city four hours away from Mexico City, until the planned high-speed rail line is built. Youth dominated the question-and-answer period.

Zepp-LaRouche was the main speaker on the first panel of the four-hour seminar. The Russian Embassy’s Economic and Trade Attaché, Nikolay Shkolyan, had been scheduled to speak on the first panel, on the subject

of the BRICS New Development Bank, but had to send his regrets due to illness. Gabriela Cedillo, General Coordinator of the Mexican edition of *China Today*, a magazine published in six languages and founded by Sun Yat-sen's widow Soong Ching-ling, spoke, conveying a sense of the development revolution taking place in China, and the Chinese view of the BRICS as extending that to the world. China doesn't have only five-year plans, but is planning for 50 years ahead, as seen in the Three Gorges Dam, its rail system, and its establishment of a presence in space. It has not been easy, it has been a fight, but it is on the right path. She invited Mexican students to study Chinese, apply for scholarships to study in China, and join its space program; Mexican companies were invited to sell their products in China.



EIRNS/Ismael Monge
Gabriella Cedillo Pérez, General Coordinator in Mexico for China Today magazine, talked about China's and the BRICS' 50-year development perspective.



EIRNS/Ismael Monge
Gerardo Castilleja of the MOCILA spoke about the importance of Mexico breaking with the trans-Atlantic system and joining with the BRICS.

Bringing the World On Board

The second panel was geared to give participants a bird's-eye view of how the BRICS process was offering a way out to countries and regions still lashed to the sinking *Titanic* of the trans-Atlantic financial system: Mexico and Ibero-America, Spain and Europe, and the United States.

Gerardo Castilleja of the MOCILA opened the second panel, speaking on Ibero-America and Mexico's relationship to the BRICS. He emphasized that South America, led by Argentina, was already breaking from the trans-Atlantic system, and that Mexico could and should do the same, returning to the development projects and strategic outlook of President José López Portillo (1976-82). He explained that the "color revolution" launched against Mexico's institutions was designed to prevent just that from happening.

José Carlos Soto of the Spanish LaRouche Movement spoke by video on saving Spain and Southern Europe from destruction under the Troika, posing the relations between the BRICS as the model for a Europe

freed from the Troika (IMF, European Central Bank, European Commission). He pointed to the special significance of building a tunnel under the Strait of Gibraltar, so that Spain can fulfill its mission to be the bridge to Africa of the World Land-Bridge (see excerpts from Soto's remarks below). And Dennis Small, of the U.S. LaRouche movement, spoke on the strategically decisive issue of getting the United States, too, to jump ship from the *Titanic*, and return to its own Hamiltonian roots by joining with the BRICS, exactly as Chinese President Xi Jinping has offered.

The discussion period was characterized by thoughtful questions, as participants struggled to understand the fundamental difference between today's imperial system of globalization and the new architecture being created by the BRICS. Underlying several of the questions was the difficulty people have in conceiving of governments and peoples who are acting out of love of humanity, concerned with securing the betterment of the other, as well as themselves. Are the BRICS another type of geopolitical formation? Do the BRICS have a different kind of security policy, as well as an economic one? How can we protect the interests of Native Americans, women, and the environment? All of which allowed for a profound discussion throughout the seminar of the oligarchic, bestial concept of man, versus the actual identity of the human species as the only willfully creative species, based on love of mankind.

A Life or Death Choice Between Two Systems

Zepp-LaRouche gave this video-address to a seminar of the LaRouche movement in Mexico City, on Nov. 20 titled “A Life or Death Choice Between Two Systems: The BRICS and the Scientific-Economic Revolution That Will Change the World.” The [video](#) is available on the LaRouchePAC website. The video dubbed in [Spanish](#) is on the EIR Spanish webpage.

Hello. I’m very happy to send you my greetings this way, and not only to you in Mexico, but also to the people watching and listening in Argentina, in Chile, in Colombia, in Peru, in Guatemala, in Spain, and probably many other countries.

We are right now as a civilization at a crossroads, where the future fate of mankind is completely open. We still could end up in a global world war, which would lead to the extinction of civilization. That danger is still very acute, and it is there. But the reason why I’m nevertheless extremely optimistic, is that there is a chance to avoid that, and not only to avoid it, but to begin a new era of civilization, something completely different, much more in coherence with the dignity of man, and that has to do with the developments of the BRICS countries [Brazil, Russia, India, China, South Africa], and many countries which have joined that combination of nations.

Right now, it is extremely dangerous, because of the provocations by President Poroshenko in Ukraine to not only cut the population of east Ukraine off from humanitarian aid, schools, pensions, funding of hospitals, in a clear effort to provoke Russia to respond, and then entangle Russia into a war, possibly with NATO; Poroshenko even said it explicitly—that a war with Russia is not to be excluded.

I think the only answer to that should be that the international community must come out and denounce what Poroshenko is doing—Poroshenko, who came to power through a coup in Kiev, which had the help of many Nazis, and his government is riddled with Nazis to the present day. And that was the result of a long-



LPAC

In her address to a meeting of the LaRouche movement in Mexico, Helga Zepp-LaRouche identified the guiding principle of the BRICS today, as that of the Peace of Westphalia: that it is in the best interest of each nation to advance the interest of all others.

term manipulation, by the British, by the United States, by NATO, by the EU, and unfortunately also, by the German government.

So I think the only answer can be that the international community denounces what Poroshenko is doing; and absolutely should stop the sanctions against Russia, because they were all based on lies, and blatant provocations, and therefore *any* country, especially in Europe, which wants to survive, should stop this policy and look at the perspective which exists for everybody else, in the form of the BRICS countries.

The World Has Changed

The world, fortunately, has changed, and the power combination is no longer what it used to be, as far back as four months ago. It started, really, more than a year ago, when Chinese President Xi Jinping announced the New Silk Road: That was the idea to combine the ancient trade routes between China and Europe through

Central Asia. And this alone was already a very fantastic perspective, because the ancient Silk Road connected not only countries and nations, but at the time, it meant to overcome tremendous challenges of the desert, of the seas, and it led to a big leap forward in the evolution and development of civilization at that time. And today, it would mean even more, which I will talk about as I go along.

Then, the next step was that Xi Jinping, in November of last year, added to that, the conception of the Maritime Silk Road, which again, was the idea to combine all the countries of the Pacific, and increase trade through building of ports and sea routes, and integrate all of South Asia and Southeast Asia much, much more.

Then, the next, very big step in the evolution of the new system, was the summit which took place in May between Russian President Putin and Xi Jinping in Shanghai, where they concluded about 48 major economic cooperation agreements, and the famous 30-year gas deal, which was already a major, major event, because it meant that from then on, Russia and China were bound in a strategic partnership, which is there to stay.

Then, the next really qualitative step, occurred when the BRICS countries met in July in Fortaleza in Brazil, where they concluded major deals, and especially, they decided to build a new financial institution, the New Development Bank, a bank entirely devoted to the financing of projects, and no longer to speculation; and they also created the Contingency Reserve Arrangement, the CRA. Both of these institutions start with \$100 billion funding, and the CRA is supposed to defend all countries participating in it, against speculative attacks from the vulture funds, from the hedge funds, and similar institutions.

On the occasion of that BRICS conference, Xi, on the 16th of July, summarized the spirit of this effort. He said, "History teaches us that the law of the jungle is not the pathway for the coexistence of humanity. All nations should follow the same principle of trust, learning from each other, work together in collaboration to the common advantage, and create a harmonious world, lasting peace, for the general welfare."

Now, Western countries have a very hard time to imagine that there is a group of nations whose leaders are actually, *really* working for the common good. However, in history, that idea has a philosophical tradition in the works of Nicholas of Cusa, the great thinker of the 15th Century, the founder of the modern nation-state, and of modern science, who had this idea that concordance in

the universe, on the planet, can only be possible if all microcosms develop harmoniously to one macrocosm.

If you apply that to the nations, there can be only peace on the planet, if all nations have the maximum potential development, and take it as their interest to develop the other nations in the best possible way and *vice versa*. And that idea, by the way, went into the Peace of Westphalia, which ended 150 years of religious war in 1648, and that *really* was also the basis of international law and the UN Charter.

Many Projects

So that idea is today the guiding principle of the BRICS countries. What has erupted in that spirit is an enormous number of projects. After the BRICS conference, there was also a meeting between the heads of state of the BRICS with the UNASUR [Union of South American Nations] heads of state, and the leaders of CELAC [Community of Latin American and Caribbean States], and they all have agreed on such a number of projects, that if they are all implemented—and that has already started—it will transform all of Latin America completely in a few years.

For example: There is nuclear cooperation among many countries—China, Brazil, Argentina, Russia, India, Bolivia, and many others. There is the building of a second Panama Canal through Nicaragua with the help of the Chinese. Also China is helping to build a transcontinental railway in all of Latin America, starting with a railroad from Brazil to Peru.

And essentially, what has happened with this geometry is that enormous optimism erupted, and that countries who were trying to build projects for decades, and who were not allowed to do so because of the IMF conditionalities, now are proceeding, with the help of the BRICS, with the help of the new financial institutions which are being built. So this is a completely new phase in the history of civilization.

And that has taken another big jump forward in the last three weeks, because three weeks ago, there were the midterm elections in the United States which led to a smashing defeat of Obama. And that, in a certain sense, while it has not solved the problem of the United States—because now you have the even-more problematic Republicans, who are taking over both Houses of Congress in January—means there is something going on in the United States, as well. However, that defeat of Obama has also, in a certain sense, symbolized the downfall of the United States, and also the



Alyson Hurt/NPR

Among the many projects planned by the BRICS and their allies, is a second, much larger Panama Canal, through Nicaragua; construction is scheduled to begin in December.

shrinking of Europe, which is sort of a colony of the present Washington government.

That became very clear at the recently concluded APEC [Asia-Pacific Economic Cooperation] meeting in Beijing. The Europeans were not there—but in the following G20 meeting in Australia, also the Europeans were really sidelined, because they have really nothing to offer. The Europeans and the United States have a system which is based entirely on monetarism, and that system has been denounced, by the way, by Pope Francis, who has said that this economic system, you have to apply the Fifth Commandment, “Thou shall not kill,” to that economic system, because it *does* kill.

As a matter of fact, this system, which is entirely built on profit, and has only enriched a few, while impoverishing the many, has been a system where now 85 individuals on the planet have as much wealth as 3.5 billion people! Now, Pope Francis also basically said that a system which has only the aim of profit should really be changed, and that was his message to the G20 meeting.

At the APEC meeting, it was very clear that that dying monetarist system is on the way down. It was the original intention of President Obama to not even allow the Chinese Asian Infrastructure Investment Bank [AIIB], or the Silk Road to be discussed at the APEC meeting! But in the seven days leading up to the summit of the APEC Leaders, the dynamic completely changed. Xi Jinping, step by step, presented the Chinese initiatives—the New Silk Road—really, what it means is that China has undergone the largest development of *any* country on the planet in the last 30 years; it has lifted hundreds of millions of people out of poverty since the

reforms of Deng Xiaoping, and China, in these 30 years, has gone a long way.

In the beginning, China made some mistakes by using cheap labor to produce for export for the United States and Europe, but step by step, it has overcome that. And also, the period when China was only copying from other countries—everybody who has ever made an industrial revolution, copied from other countries, including the United States; I would say they are doing it still today, with the NSA spying, which European industrialists, for example, are very upset about. So people shouldn’t make too much fuss about copying. But China has successfully also left that period behind, because now it is based on an innovation-based society and industry, and

in many areas, it is the leader in the world.

So that was presented by Xi Jinping, and also the New Silk Road development fund, which China is financing with \$40 billion, and at the following ASEAN [Association of Southeast Asian Nations] meeting, it was announced that it will spend \$20 billion in getting the Maritime Silk Road off the ground.

A Tremendous Optimism

So there is a tremendous optimism, and that led to a situation where all the other countries sort of flocked to China; and the Free Trade Area of the Asia-Pacific, the FTAAP, was the dominant free-trade model, and even Obama, when he made his speech [at the APEC CEO Summit], said the TPP, the Trans-Pacific Partnership, which was originally intended to exclude China, would be only the stepping-stone to the more inclusive Chinese model.

China therefore has taken leadership, and it has taken leadership not only in all these economic infrastructure initiatives, but it also has taken leadership in the space program. China made a tremendous breakthrough with its lunar mission last December, the Yutu landing on the Moon, and it has accelerated further missions since, with the idea to very soon bring materials back from the Moon to Earth, like mining helium-3, and then using that for a fusion economy on the planet Earth. That is a fantastic perspective, because once we can use helium-3 for fusion processes on the planet Earth, that means that mankind will be able to have energy security, raw materials security, and we will *completely* get out of the perspective of quarrelling over supposedly scarce resources.

In the recent agreements between Russia and China, Russia and India, they also all agreed to collaborate in space, where there was the sensational breakthrough India had, with its first Mars orbiter. India, in that way, became the first nation to have an object orbiting Mars on the first effort, and at about 10% of the cost an equivalent project of NASA had cost at the time.

The only positive development coming from Europe in the recent period, has been the magnificent breakthrough of the Rosetta and the Philae lander, landing on the comet “Chury” [67P Churyumov-Gerasimenko], which is a program which took ten years; and Rosetta had to travel 7.1 *billion* kilometers to arrive at this comet, where the aim is to find out about the origins of the universe, about the evolution of life and similar questions.

Why are these space breakthroughs so exciting? First of all, they are a complete refutation of the lies and insanity of the ecology movement and their oligarchical masters, like the World Wildlife Fund, the Club of Rome, Prince Philip, and the British Empire in general, who all have claimed that we are living in a closed system with scarce resources, and therefore “sustainable development” is the only way mankind can live. Now that obviously is a complete lie, because we are not living in a closed system; we are living in an anti-entropic, developing universe, with completely different principles.

The great German-American scientist and rocket specialist Krafft Ehrlicke developed this idea of space colonization as the next phase in the evolution of mankind.¹ He had the idea that, originally, in the evolution of the universe, life developed out of the oceans with the help of photosynthesis, to the continents, and then developed species with ever-higher energy-flux density in their metabolism; and then, when the human being arrived, these human beings developed very quickly by being first settled along the oceans and rivers, then eventually developing infrastructure, canals, etc.

Charlemagne was the first one to really propose the building of canals between railroad, that infrastructure was conquering railroad, that infrastructure was conquering more and more of the continents’ inner devel-



ESA/J. Huart

The one truly positive development coming from Europe in the recent period has been the breakthrough of the ESA's Rosetta spacecraft (shown here in a artist's rendition) and its Philae lander; landing on the comet 67P/Churyumov-Gerasimenko, in November.

opment. And with the new perspective of the New Silk Road, which, by the way, we proposed, when the Soviet Union collapsed, first in the form of the Productive Triangle, and then after the disintegration of the Soviet Union in 1991, we proposed a New Silk Road to connect the European industrial and population centers with those of Asia, and we called it the New Silk Road Eurasian Land-Bridge.

Space Colonization

This is now on the agenda, and when that project is built, it will be a World Land-Bridge, which will bring prosperity to all corners of the world, and it will overcome the *under*-development of all landlocked areas which still exist in the different continents.

But then, that phase of evolution will be concluded, and then, the natural next phase of evolution is to build and extend the infrastructure into nearby space. Another word for that is space colonization and space development.

In a certain sense, like the ancient Silk Road, the New Silk Road will also exchange the most advanced technologies. In the time of the ancient Silk Road, it was silk production, papermaking, gunpowder, porcelain technologies; today, it will be the exchange of nuclear energy, fusion technology, space research and travel. And the whole world, the whole planet, will transform to become more and more a knowledge-based economy.

1. See, Marsha Freeman, “Krafft Ehrlicke, Space Pioneer,” [EIR](#), Aug. 26, 2011—ed.

And then, everybody can see that the fantastic conception of Vladimir Vernadsky is absolutely provable: namely, that there is a fundamental difference between human beings and animals, that mankind is the only species capable of, again and again, discovering things which are completely new, which nobody even could think about before, which nobody did before. And that is a process where we are really now at a crossroads of really taking off.

Just think: The last 10,000 years of human history, since the last Ice Age—10,000 years is a *very* short period of time if you compare it with the age of the universe at large. But the development which took place in these 10,000 years is just absolutely enormous. For example, an object of the size of what used to be a hand axe or a biface [a Stone Age hand axe or cutting tool], today, has the size of a smart phone; and with that smart phone you can do all kinds of things. You can have international video conferences, you can do research, you can do enormous things.

Just think: From the hand axe to the smart phone, the same size of an object, but how much technology has gone into that? And now think, if we keep doing this kind of development, where will mankind be in 100 years from now? In 1,000 years? In 10,000 years? That makes it obvious that Vernadsky's conception, that the evolution of the universe from the inorganic to the biological sphere, to the noosphere, is developing in such a way that the noosphere will become more and more dominant over the biosphere, and that human creativity is going to be what will dominate and be prevalent in the entire universe.

Therefore, we have to define the present from the standpoint of the future, because we already can see now what mankind will be capable of in the coming hundreds and thousands of years, and that we are still in the embryonic phase of civilization, and that we must become adults now.

A New Renaissance

It is also clear that this new world economic order, which is emerging very, very quickly, with China, Russia, India, and the other BRICS countries at the center, *absolutely* must be combined with a new cultural renaissance and the aesthetical education of man. It is based on an image of man, such that each human being, each new baby that is born on this planet, has the potential to become a genius. Not a genius in the form of a person who's just doing strange things, but a genius

who is a beautiful soul, a person for whom, according to Friedrich Schiller, passion and duty, freedom and necessity, are the same thing, because there will be no contradiction any more between a person doing joyfully what contributes to the future development of mankind, and what he likes to do! He will not do his duty as a task which he doesn't like, but he will find his or her identity in creativity, and that will become the identity of the entirety of mankind.

That is why we put so much emphasis on Classical culture, because when we reject the dying monetarist system, we should also reject the *terrible* pop culture which goes along with globalization, which tends to turn human beings into beasts, or at least into stupid morons.

What we have to do instead, is we have to revive the best traditions in culture of each nation. For example, China has a wonderful ancient history of 5,000 years, and 2,500 years of Confucianism, and that philosophy is presently guiding the policies of Xi Jinping—I have *absolutely* no doubt that that is the case.

India: India has an equally long tradition, and is also one of the cradles of civilization. It has a very rich philosophical history of the Vedic tradition, the Upanishads, the beautiful drama writing in the Gupta period, the wonderful Indian Renaissance which lasted from the end of the 19th, to the beginning of the 20th Century, and produced such fantastic poets as Rabindranath Tagore.

You have Russia, which has extraordinary poets like Pushkin, scientists like Mendeleyev and Vernadsky. In Spain, we have Cervantes, Goya; in Italy, Dante, Brunelleschi, Leonardo. In Germany, we have the wonderful ideas and traditions of Nicholas of Cusa, Kepler, Bach, Beethoven, Schiller.

And we have to revive all of these high phases in our cultures, and then have a dialogue of civilizations, where each of us, each nation, relates to the highest expression of the other. And that way, we can create a new Renaissance, which goes even beyond what existed so far. And then we will have a completely new paradigm of civilization, and the beginning of that is already happening.

That it is why I am absolutely certain that there is also hope for Mexico. Despite the terrible perils and degeneration which we have seen in the last over 30 years since the time of [Mexican President José] López Portillo, where drugs, kidnapping, crime have really taken over much of life in Mexico. However, because there are very positive developments in Central and South America, they can help to influence from the outside, what is occurring in Mexico right now. And therefore, we can be



EIRNS/Rubén Cota Meza

Since the Presidency of José López Portillo (1976-82), conditions in Mexico have drastically deteriorated, but with the emergence of the new paradigm of civilization taking place around the BRICS, there is great hope for the nations of Ibero-America. Here, López Portillo with Zepp-LaRouche in Mexico, December 1998.

hopeful that through a combination of help from the outside, and strong leadership from inside Mexico, an early redirection of developments can occur.

Don't focus on the United States right now. The United States has to sort itself out, itself; and you know, there are forces who are really trying very hard to change the direction of the United States.

What you should do, is focus on South America—on Brazil, on Cuba—because when Lyn [LaRouche], 32 years ago, worked together with López Portillo on *Operation Juárez*, that idea, which was very much like what is happening right now, despite the fact that López Portillo started to implement it, but could not succeed, because at that time, the governments of Brazil and Argentina did not support López Portillo.

Today, you have a different dynamic, because right now, the government of Brazil—it's part of the BRICS—and Argentina, and I'm convinced that the way things are going now, Argentina will very soon join the BRICS. So therefore, you have a completely different dynamic in all of Latin America. And also look at what Cuba does: Cuba is a very small country; it has not so many inhabitants, but right now, it is providing magnificent leadership in the fight against Ebola, which puts larger and richer countries to shame, because Cuba has moved [into Africa] with medical supplies and all kinds of medical help, when nobody else did it, and this is really a leadership by Cuba which should be taken as a model.

At a Crossroads

Now, we are working hard—when I say, “we,” I mean the LaRouche movement—we are working very hard to change the United States from the inside. And there are, both in the Democratic Party, and even in the Republican Party, people who recognize that there is no good reason why the United States should not cooperate with the BRICS, and given the fact that Obama has lost [in the mid-term elections—ed.], and that there are big upheavals right now occurring because of the collapse of the U.S. economy, and the drought in the U.S. Southwest, changes can come very quickly. But we also work with European countries to get them to join.

At the final press conference between Xi Jinping and Obama in Bei-

jing, Xi told Obama: I invite the United States to join the BRICS, to join the New Silk Road, to join the New Silk Road development fund, and this is also open to every other country which wants to participate.

And we are going to change Europe, get Europe to stop the confrontation with Russia, stop the sanctions, which are ruining Europe much more than they are Russia; because for Russia, it's almost a blessing in disguise, forcing more close ties among Russia, China, India, and all other countries of the BRICS and Asia; while the German industry, the French and Italian industry, are collapsing as a result of this totally immoral and wrong policy.

So we are right now at a crossroads: The evil system of the British Empire, of Wall Street, of London, exists still. But in reality, they are finished already. It is only a question of whether they will be able to pull the world down with them, in a catastrophe, or not. But there is the optimistic perspective, that with the new power center, centering on Russia, China, and India, and in a larger context, the BRICS countries and those countries which are now associating with the BRICS, the majority of mankind is already building a new world economic order.

And so there is every reason for optimism. And therefore, I want to conclude with a line from Schiller's poem, “Ode to Joy,” which was the basis for the composition of the *Ninth Symphony* by Beethoven: “All men will become brethren.” There is only one mankind.

What the BRICS Revolution Means For Spain, and All of Europe

José Carlos Soto, of the Spanish LaRouche Movement, gave this video presentation to the Mexico City Schiller Institute event Nov. 20. It was translated from Spanish for EIR.

Good morning to Mexico, and good afternoon to those in Spain and the rest of Europe.

Spain is perhaps experiencing the most dramatic situation of what it means to live under the de facto government of the Troika; that is to say, the European Commission, the European Central Bank, and International Monetary Fund. And

also what it means to be living in the twilight of a system. Furthermore, Spain is a reflection of what is happening all over Europe, especially so in the South, where we are experiencing the effects of the crisis much more harshly.

The policies of the Troika are often presented as “recommendations” which are then shared by all member-states. But these recommendations are implemented on the grounds that no country in Europe today has real sovereignty within the current European Union framework. This structure is now a threat to Europe and to all humanity. This is no exaggeration. These “recommendations” of the Troika are really dictates from the centers of financial power of Wall Street and the City of London. And this includes the financial and banking system that is an integral part of the whole arrangement, which is then supported (as a necessary part of this process) by a political class that is linked to these same financial powers, either ideologically or through pure corruption, as we see in Spain.

Corruption can also mean not raising your voice or remaining silent about the rise of Nazism in Ukraine, or the dangerous stupidity of provoking Russia without any



José Carlos Soto of the LaRouche Movement of Spain (MLE) emphasized that “Spain is not dead,” despite the brutal policies of the Troika, and that the time has come for Europe to join the BRICS revolution.

basis. This has led, for example, to the Russian counter-sanctions, which are a new blow to areas already affected by the current financial crisis.

This entire system is completely bankrupt. On the one hand, this could be good news, because it represents an opportunity for change; but there is also the danger of not acting in time.

There is also a reaction within Europe against this same system. A reflection of this was seen in the European Parliamentary elections, in which there was a rise of anti-Troika political parties. And I

say anti-Troika, because I’m convinced it was not a reaction to any project for a common framework of collaboration in Europe, but it was a rejection of the failed project of a warmongering, monetarist European Union.

Here, I think that it is essential that the BRICS (Brazil, Russia, India, China, South Africa) are setting an example, and presenting what can and must be a real framework for cooperation among sovereign countries in the century in which we live.

The Fake ‘Recovery’

As for the current situation of chaos in Spain and Europe: You find every day an absurd picture in the media, and even from the Spanish government, talking about a supposed economic recovery thanks to the measures proposed by the European Commission, and promptly implemented by the European states. You can say with certainty that the media is not doing the work it should be doing under any rule of law or democracy. Quite the opposite, in fact.

To conclusively dispose of this supposed image of recovery given by the media, that some people still

defend, I want to briefly mention the real situation in Spain, which I think can be extrapolated to a greater or lesser extent for other countries in Europe, especially southern Europe. I do this briefly, because I think that beyond the fantasy world being portrayed by the media and government spokesmen, the real situation is well known to the population, which actually has to face the crisis every day.

What is really useful, is to present an alternative to this, as we are doing.

Spain has a public debt that already exceeds EU1 billion, nearing 97% of its GDP. This should be called bankruptcy, shared by all Autonomous Communities [Galicia, the Basque Country, and Catalonia]. In fact, the Constitution was amended for the first time since 1978 [in 2011] to prioritize the payment of this debt over the most basic human rights, such as health, education, or food.

To those who say this is not so, there are reports by Carit  s and other NGOs that are available, which reveal the actual level of poverty in Spain. This debt has tripled since 2007, after the bailouts of the banks, and all the austerity measures proposed by the Troika. I hope this helps to rip apart the idea that we need the Troika to overcome this crisis! First, they created the crisis conditions, and now, after their measures, we are in this situation.

Spain is also the European country with the highest rate of youth unemployment, over 60%, not to mention other sectors of the population; for example, those between 45 and 60 years of age who are also unemployed, but within this system—many of them have no prospect of finding a job, perhaps for the rest of their lives. Added to this is the cut-off of public assistance for the long-term unemployed.

There is already talk of an exodus or mass self-exile of an entire generation, many with good qualifications or scientific training. An example of this is an open letter to the Spanish government by a group of top Spanish scientists in 2012. The cuts in research and development are causing a brain drain, as if we don't need those brains here, because having financial derivatives, who needs anything else!

This can be contrasted with what the young people of India represent for President Narendra Modi. For him, the youth of his country are “the power of India.” Russian President Putin has also expressed himself in these same terms. And I believe that to not say this to the youth of your country, and not just say it, but to work competently to give them a future, is an act that can be considered outright criminal.

In the face of this situation, what are the measures proposed by the European Commission to resolve it? More cuts, of course, often in key investments and projects, as the most important thing is “budgetary stability,” although not for the financial derivatives, of course; and other measures proposed by the European Commission, which Spain is already implementing, as are the other member-states.

This is something many people do not know about, and are often shocked by, when they discover that the new accounting methods being proposed and established in Europe include income from prostitution and drugs in the GDP of each country. So, when it appears in the media that Spain has increased its GDP by zero point-something, or 1%, meaning that economic recovery is in process, really what is behind it, is this new accounting method. This is the world of budgetary stability and financial accounting, in which the destruction of a society and a population through such activities matters little.

Of course, continuing to keep the financial bubble afloat with quantitative easing is another “smart” measure proposed by the Troika.

The State's response to ongoing public protests, in Portugal, Greece, and Spain, is police-state measures. This is called *fascism*, whose cause, and what is behind this, are the financial interests of a few mega-rich people.

A Break with the System

In this situation it is very important, essential I would say, to understand the real meaning of what is happening with the BRICS. Because the advances and agreements that they are implementing do not only represent a *break* with this system, which is important and necessary for simple survival, but at the same time, they are presenting a positive alternative to that system. And it means that we don't have to take it any longer. This can be changed.

But even more, we say that it is a scientific-economic revolution, because it reflects a vision and an image of humanity beyond the “law of the jungle” that [Chinese President] Xi Jinping recently referred to. And I think Dennis Small will help us to understand better, why this is a scientific revolution.

I want to state, above all, that *Spain is not dead*. That there is room to rebuild the economy in Spain and bring back all the young people who are leaving, and more.

For example, from sectors representing the real, productive economy—e.g., component part manufacturers' associations, to small and medium-size businesses, to

FIGURE 1
Spain's Mediterranean Rail Corridor



Spanish government

farmers' associations, and so on—we see that two things are being asked, above all. And we must listen to these people because these are the sectors which know what an economy should be, beyond speculation and the false value of money itself. There are other important projects, but I think these are essential for Spain.

One thing being asked for is cheaper energy. Many companies have to shut down because they cannot afford to pay their electric bills. In Spain, we have the problem of “renewable energy,” which is part of the fraud of global warming and zero growth imposed by Prince Philip and company. And here in Spain unfortunately, we have not yet managed to become independent from all of this.

In this regard, it is interesting to see the paradigm shift, I think, out of necessity and natural sanity, which is being created by the BRICS. Because many of the agreements being made by these countries are going in the direction of the development of nuclear energy. I said that Spain is not dead, among other things, because fortunately, it has not reached the level of alienation that Germany has with its nuclear blackout by 2025, and we still have a functioning nuclear sector. But Spain could be much more developed if we realized its fundamental importance.

Here let me mention, in particular, the case of Bolivia, because it has implications for all of Europe. Especially because, although Bolivia does not belong to the BRICS, it is becoming clear that the changes promoted by the BRICS are not only inclusive, but are major changes in ways of thinking and doing things. One could say a revolution that is having a resonance

around the globe, and not only in the BRICS countries. So this is important for the future of Europe.

The Vice President of Bolivia, Álvaro García Linera, said a few months ago:

“The use of and training in atomic energy is one of our obligations as a society and as a State. We have made that decision, and we are going to guide ourselves based on that decision. In the coming years, we will implement a program of nuclear energy, for peaceful purposes, with medical and agricultural goals, as the case may be, but we will have an elite, a core of brains, integrated with the world, to networks which work in the atomic field, which will allow Bolivia to learn about and use this fire of the 21st Century: atomic energy.”

And I say that if this is happening in Bolivia, then I believe that here in Spain and Europe, we can wake up before it's too late.

If we contrast this with the supposed end of nuclear power in Germany in 2025, we can see the contrast of an old system, with the new one coming to replace it. Fortunately, Spain has not lost its way as much as Germany, and many economic and scientific sectors are locating the issue of nuclear energy accordingly.

The Mediterranean Rail Corridor

Another important project I wanted to mention falls also within the framework of collaboration taking place with the BRICS. On the one hand, with the development of atomic energy, and on the other, with the New Silk Road and the construction of high-speed rail lines worldwide. It is the Mediterranean Corridor (**Figure 1**).

This corridor represents 18% of the surface of Spain, but includes nearly 40% of both the population and the national GDP, and 49%, almost half, of the total overland freight traffic in Spain.

Many sectors are saying that these projects are non-negotiable. You cannot say there is no money for them, because what generates wealth is the creation of the project itself, not money. It is therefore fraudulent not to carry out these projects on that pretext. And it is also not true, because this can be funded nationally with a Hamiltonian credit bank dedicated to increasing real productivity, or even better, to do so in cooperation with other countries, as in the model of the BRICS Development Bank.

Since we are running out of time, I am just going to stick to what's essential. And this is, that the southern part of Spain, as you can see, is not yet connected to this corridor. This is something underway. Here, we see on one side, the actual status of the project, and on the other, the final projection in 2025. But, for lack of investment, the timetable is not being met, and crisis-type solutions are being given to problems, such as matching the rail gauge with the European gauge, which is important, but insufficient.

It is not just important to connect the southern part to this corridor because the south is one of the areas where the crisis is hitting hardest, but also, if you look at **Figure 2**, we can see why this is also very important. This corridor not only connects to northern Europe through France, but also after construction of a Strait of Gibraltar crossing, it will extend into Africa.

This project for the Strait of Gibraltar is key, and the LaRouche organization has done many different reports on it, explaining its importance as an integral part of the World Land-Bridge project. In fact, at a Conference for the Ministers of Transport of Europe and Africa a few weeks ago in Lisbon, the Minister of Develop-

FIGURE 2
World Land-Bridge: Eurasia and Africa



EIRNS

ment of Spain Ana Pastor said the Strait tunnel project is of “strategic” importance.

Looking at Figure 2, we can see why that is so. Through this tunnel—and this is in the bigger context of the World Land-Bridge which includes other important projects like the Bering Strait Tunnel connecting Eurasia and America—Africa will be connected with Spain and the rest of Europe. This has enormous implications in terms of development, new jobs, and in the creation of an entirely new paradigm.

None of these projects will take place unless they are in a framework of cooperation and respect, as is taking place with the BRICS. That is, in a credit system designed for productive activities, and on the basis that inspired the Treaty of Westphalia, of understanding “the benefit of the other,” as not being separate from our own. We need to create a lasting peace, and we have the obligation to understand what exactly is preventing this.

So, here in Europe, it is incumbent upon us to recognize that there is a vital and a moral imperative to transform the current system of the Troika, and join a completely different model of existence, a model which adequately reflects human creativity. We believe we are in a historic moment, and what happens depends on each of us, and on what we do, or do not do, right now.

Economics in Brief

Rail

China and Nigeria Sign A \$12 Billion Deal

Nov. 20—A Chinese company signed a \$12 billion rail deal Nov. 19 in the Nigerian capital, Abuja. The 1,400-km-long line, with 22 stops, will follow the coast, establishing a rail link between Lagos, the economic capital of Nigeria, across the Niger delta to Port Harcourt, the center of oil production in the eastern part of the country.

This is China's single biggest contract overseas, according to Xinhua. The signing makes official the agreement that was reached last May during the visit of Premier Li Keqiang. Li had said during his visit that "Nigeria emphasizes development of railway and other infrastructure, while China possesses technical strength and rich experience in this regard." He was on a tour of Ethiopia, Nigeria, Angola, and Kenya, at the time, emphasizing infrastructural development.

Nigeria is currently China's third-biggest trading partner in Africa, according to *bricspost.com*. In 2013, China-Africa trade increased to \$210.3 billion, making China Africa's largest trade partner for five years in a row. Nigeria, the most populous nation in Africa, and South Africa, are the two most powerful economies on the continent.

Nigerian Transport Minister Idris Audu Umar signed the contract with the China Railway Construction Corp. (CRCC). CRCC head Meng Fengchao said that the company will use the latest technologies and rail products in the project. At the same time, CRCC is working on a several-billion-dollar rail-modernization project in Nigeria, along with road-building projects and expansion of the Murtalla Mohammed International Airport in Lagos.

The 120 km/hr line is the first part of a Nigerian project to build a nation-wide high-speed rail system which is intended to eventually serve most of Nigeria.

The Lagos-Port Harcourt project will create up to 200,000 jobs, according to Xinhua. As many as 30,000 permanent positions will be created when the project is finished.

Infrastructure

SCO Bank Proposes Projects in India, Iran

Nov. 19—The Shanghai Cooperation Organization (SCO) Development Bank, now in the process of being formed, has indicated that it would like to finance the proposed overland Russia-India oil and gas pipeline—traversing through transit states such as Kazakhstan or China, Turkmenistan, Afghanistan, and Pakistan, said Russia & India Report (RIR). Establishment of the SCO Bank had been in the news for a while, but it got a boost during its 2013 Tashkent Heads of State summit. The article went on to say, citing a source familiar with the Russia-India talks, that New Delhi has already initiated the formation of a joint working group to study the pipeline running through Central Asian nations.

The SCO Development Bank, with a concept that is undergoing stage-by-stage discussions, will focus on financing multilateral infrastructural projects, the SCO's top official told RIR.

In addition to investing in the Russia-India oil and gas pipeline, RIR's article said the bank is also keen to shore up transport infrastructure within Iran. It said Russia's discussion with Iran, which is an observer country in the SCO and not a full member yet, centers on enhancing trade with Iran, particularly in transporting surplus Russian grains to Iran, and selling Iranian crude oil through Russian traders. This would increase the sale of Iranian crude, since the West-imposed sanctions against Iran prevent the country from selling a large amount of the crude it is capable of producing.

Water

EIR Brings Transaqua to Lake Chad Commission

Nov. 18—This week's meeting of the Lake Chad Basin Commission (LCBC) heard a presentation from Lawrence Freeman, an *EIR* Africa specialist, which included a message from the author of the water transfer project Transaqua, Dr. Marcello Vichi of Italy. The Commission agreed to include Freeman's remarks in its proceedings, and to have its newly formed International Scientific Advisory Committee formulate a response to Dr. Vichi.

In his message, Dr. Vichi called on African leaders to "be utopian," and move to implement great projects. The takeoff of the African continent "could never take place by limiting interventions to many small projects, politically important, but almost exclusively subsistence-producers," Dr. Vichi wrote. Instead, Transaqua includes "the creation of more than 2,000 km of south-north river transport in the heart of the continent, the creation of an industrial "pivot" in the Central African Republic, and a possible east-west, coast-to-coast motorway connection between the ocean ports of Lagos and Mombasa, together with a major production of hydroelectric power for local use."

With the Commission under a determined new leadership, there is a recognition that replenishing Lake Chad must be a top priority. To insure that Transaqua is part of that commitment, Freeman was appointed to the Scientific Advisory Committee.

The Lake Chad Basin Commission was founded in 1964 by the four nations—Chad, Niger, Nigeria, Cameroon—that border the lake, the fourth-largest on the continent. While the Commission has failed to take action over the last 50 years, the vast lake has nearly disappeared, receding from 25,000 sq km to less than 2,000 sq km today. This shrinkage directly affects the livelihood of 30 million people employed in farming and fishing.

London in Flight Forward for ‘Regime Change’ in Russia

by Jeffrey Steinberg and Nancy Spannaus

Nov. 25—Lyndon LaRouche, in his opening statement to the LaRouchePAC Policy Committee discussion Nov. 24, said that the world is on the edge of frightening developments, with one international force seeking a global war confrontation, and another mobilizing to defend itself against this threat. The decisive factor in determining which way this confrontation goes, is the United States—whose Presidency is now under the control of the war party.

From the British Empire, and its de facto puppets in Brussels and Washington, are coming escalating provocations, which are bringing the world to what LaRouche described as the very “edge of a general state of thermonuclear warfare.” These include the increasingly open statement of intent by London and its lackeys to extend the “regime change” policy, otherwise reflected in the “color revolutions” that London and the West have bought, paid for, and armed in Georgia, Ukraine, Libya, and other smaller nations, and in two of the world’s nuclear superpowers, Russia and China.

LaRouche cautioned against any tendency to sit and wait for a provocation to occur; the urgency of the situation demands preventive action before a single provocation triggers extermination warfare. Crucial among those actions is to force a political change in the United States which removes Barack Obama and the fascist war-mongering Republican Party leadership from power, and brings the nation in alignment with the

BRICS countries. These are the *sine qua non* for both preventing war, and establishing the long-term basis for peaceful cooperation among nations.

London Threatens

This week’s cover of *The Economist*, mouthpiece of the City of London, depicts a bear bleeding in the snow, headlined “Russia’s Wounded Economy.” Backed up by three pages of in-depth profiling of Russia’s economic weak points, the lead editorial serves to confirm Foreign Minister Sergei Lavrov’s charge, that the purpose of the West’s economic sanctions against Russia is “regime change.” Speaking for a trans-Atlantic financial sector that is itself bankrupt, *The Economist* declares that Russia “is closer to crisis than the West or Vladimir Putin realize.”

It lists Russia’s vulnerabilities as dependence on oil exports, when oil prices are now \$10-20/barrel below what Moscow had counted on; a 23% collapse in the ruble, bringing potential consumer price inflation despite efforts to substitute domestically produced goods for imports; and the Russian corporate foreign debt, of both state-owned and private companies, which is now over \$500 billion, with \$130 billion due before the end of 2015.

The Economist suggests ways for “international finance” to exploit each of these, to breach “Russia’s defenses.” Continuing its propaganda campaign of recent weeks about vulnerabilities within the BRICS, *The*

Economist suggests that if Russian companies default, then Brazil will be the next to suffer. “When economies are on an unsustainable course,” the editorial intones, “international finance often acts as a fast-forward button, pushing countries over the edge more quickly than politicians or investors expect. . . .”

One of the back-up articles purports to find a Russian “weakness” in the fact that \$170 billion of its reserves and “rainy day” assets are in the National Welfare Fund (NWF) and the Reserve Fund, and the NWF has been partially committed to infrastructure investment, so it won’t be available for bailouts!

The Economist’s international editor, Ed Lucas, is a notorious Putin-basher and author of books on the need to bring down Putin, and also famous for the utterance in 2008, “I hate the Westphalian system” of sovereign nation-states. Lucas personally used his Twitter feed last December to fan the Maidan coup process in Ukraine, by putting out a false report that President Victor Yanukovich had pledged to join the Eurasian Customs Union as a full member.

The Russians Know the Score

Among the top Russian leadership there has never been any confusion over the fact that the U.S. neo-cons, and their British big brothers, have been aiming at the subjugation of Russia. Exemplary of this understanding was the book published by Putin advisor, economist Sergei Glazyev, in 1998-99, entitled *Genocide, Russia and the New World Order*, in which Glazyev documents the way the IMF shock therapy of the ’90s deliberately ravaged his country through de-industrialization, privatization, and political manipulations.

The Russian governments of Vladimir Putin, as either President or Prime Minister (beginning in 2000), have acted with this understanding, but consistently attempted to outflank Western assaults, including through offers of economic and security cooperation. Increasingly, however, the Russian leadership has found it nec-



Presidential Press and Information Office

Russian President Putin and Foreign Minister Lavrov have made it clear that they understand the U.S./NATO efforts to bring about “regime change” in Russia; but, declared Putin, “No one has ever managed to achieve this aim, . . . or ever will. . . .”

essary to speak more bluntly.

Asked by a journalist at a meeting of his All-Russia People’s Front on Nov. 18, whether the U.S. is trying to “humiliate Russia,” Putin responded: “This is not so. The United States is not trying to humiliate us; it wants to subdue us, to settle its own problems at our expense. No one has ever managed to achieve this aim in relations with Russia, or ever will. . . .” (Itar-Tass).

Putin also took up the issue at a Nov. 20 expanded Security Council meeting in the Kremlin called to discuss a draft document for a “Strategy for Countering Extremism in the Russian Federation through 2025.”

“In the modern world,” said Putin, “extremism is often used as a geopolitical instrument to rearrange spheres of influence. We see the tragic consequences of the wave of so-called color revolutions, the turmoil in the countries that have undergone the irresponsible experiments of covert and sometimes blatant interference in their lives. We take this as a lesson and a warning, and we must do everything necessary to ensure this never happens in Russia.”

He distinguished legitimate protest from the “regime change” operations run from the outside: “As we assert our freedom of choice, the right to hold meetings, marches, and rallies, we should not forget

that we are responsible for our words and deeds. We must know and bear in mind that breeding conflict between people of different ethnicity and religion, propaganda of nationalist ideology, mass violations of public order on these grounds, and particularly, calls for a violent overthrow of the existing regime are direct manifestations of anti-national thinking and extremism.”

On Nov. 22, Foreign Minister Lavrov told a meeting of the advisory Foreign and Defense Policy Council in Moscow, that the actual intent of Western sanctions against Russia was to bring about “regime change.” “As for the concept behind the use of coercive measures,” Tass reports Lavrov saying, “the West is making clear it does not want to force Russia to change policy, but wants to secure regime change.” He added, “Now public figures in Western countries say there is a need to impose sanctions that will destroy the economy and cause public protests.”

An Alliance with China

On Nov. 18, following his talks with Chinese Defense Minister General Chang Wanquan in Beijing, Russian Defense Minister Sergei Shoigu said Russia and China should jointly stand against color revolutions which both countries are facing. Russian Deputy Defense Minister Anatoly Antonov told the Tass news agency, “We focused on those events which have recently taken place in Hong Kong, and both ministers acknowledged that no country is immune from color revolutions.”

“It only seems that these color revolutions and these experiments by Western spin doctors, including those from the United States, are being implemented somewhere far from China or the Russian Federation,” Antonov said. “All this is in fact near us, and we believe that Russia and China should work together to withstand this new security challenge to our countries.”

Antonov also referred to this year’s events in Ukraine as a “coup d’état.” Russia and China, in his words, know about the problem of “color revolutions” on the example of Ukraine, “where a coup d’état took place, and we now see the trials this fraternal country is living through, and we see how much effort is to be exerted by all to establish peace, tranquility, and order in that country.”

Just as Russia is confronted by the Big Lie that it

was responsible for the destabilization and bloodshed in Ukraine, China faces charges that its defensive measures—and even its offers of broad economic cooperation in the Asia-Pacific region and beyond—are simply expressions of some kind of imperialist aims.

Chinese President Xi laid out in detail at both the APEC (Asia-Pacific Economic Cooperation) summit and his address to the Australian Parliament, that China is operating on the basis of a policy of mutual benefit, a “win-win” policy of cooperation among nations. This policy has been attacked in the West as aggressive.

Chinese Defense Minister Gen. Chang answered those charges in his keynote address to the 5th Xiangshan Forum in Beijing Nov. 21. He stressed that China was also undertaking military modernization in order to defend its sovereignty, which, he noted, has been under attack for most of modern history. The conference had the participation of some 300 defense and military officials from 47 countries.

“China has learned a bitter lesson from its wretched modern history,” Gen. Chang said. “The Chinese civilization is one of the oldest in the world. As we entered the modern era, however, the Chinese people suffered grievously in a semi-colonial and semi-feudal society because of the corruption and incompetence of their feudal rulers, coupled with unrelenting aggressions of foreign powers. Our people did not become masters of their own destiny until a century later, after a protracted struggle.

“When it comes to national sovereignty and security, the Chinese give great credence to the adage, ‘We should not rely on the likelihood of the enemy’s not coming, but on our own readiness to receive him.’ Therefore, China is firmly determined to promote the modernization of its national defense and armed forces and effectively safeguard its national sovereignty, security and development interests.”

New War Cries and Deployments

Anyone who doubts the threats being issued against Russian and Chinese sovereignty need only open their eyes and ears.

NATO’s redeployment to the East is continuing, with official announcements now that there will be permanent rotating troop deployments in Poland and the Baltic states.

Both the European Union and the U.S. government are considering expanded sanctions against Russia. And the U.S. Congress has decided to take up legislation demanding that China implement American ideas of “human rights” in Hong Kong, regardless of what the Constitution there says.

In Germany, where the Western sanctions against Russia are crippling industry, and a dialogue has up until now been maintained with the Russian government, Chancellor Angela Merkel has gone into a new phase of confrontation against President Putin, as expressed in her speech in Australia recently. In Germany itself, the government is doing its best to create an atmosphere of terror against anyone who speaks out against vilification of Putin and Russia. There are even indications that the government plans to purge itself, and private business associations, of those who dare to speak against the official confrontation line.

A perusal of the Nov. 23 *New York Times* and *Washington Post* gives evidence of the war propaganda drive at a fever pitch. Under the title “How Washington can

counter the rise of Russia and China,” the *Washington Post* called for escalating economic warfare against Russia, and for the preemptive positioning of NATO and American military forces in the Baltic states, Ukraine, and Vietnam. The *New York Times* warned that Xi Jinping’s recent successful diplomatic and economic forays to Australia and New Zealand revealed a devious scheme by the “Big Boy” to displace the United States as the strategic economic and security partner for China’s neighbors.

The reason for the insane drive for war is that half of humanity—led by China, Russia, India, and the other BRICS countries, and allies like Egypt and Argentina—is that the British financial empire is fighting for its life. It’s outnumbered and bankrupt; the balance of power has, in fact, shifted.

Whither the United States?

Can a thermonuclear confrontation be avoided? That will depend upon a dramatic change in the U.S. situation.

At present, the Obama Administration is, like the British, in a flight-forward mode. That state of mind is widely considered to have been reflected in the President’s firing of Defense Secretary Chuck Hagel, who had been at odds with the White House inner circle, such as Susan Rice, Valerie Jarrett, and Denis McDonough.

Respected retired military commentator Patrick Lang presented his view of the matter in his blog *Sic Semper Tyrannis* on Nov. 24, beginning this way:

“So, Hagel is out. He is evidently the loser in a struggle between the military leadership and the Children’s Crusaders at the White House and State Department. The military want more clearly defined goals across the Islamic culture continent and ‘the kids’ want to run foreign affairs on the basis of the crap they write in magic marker on white boards in their seminars.”

Hagel, despite his opposition to the Vietnam War years ago, was no hero in opposing the regime-change adventures and confrontation policies of the Obama Administration. The fact that Obama and his controllers thought they had to get rid of him tells you a lot about how fragile they feel their situation is.

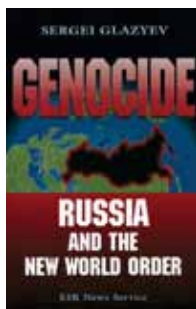
Thus, we are indeed, in a situation of extreme danger, as LaRouche indicated. A change of leadership in the United States, toward collaboration with the BRICS, is a matter of life or death.

GENOCIDE

RUSSIA AND THE NEW WORLD ORDER

Russia in the 1990s: “The rate of annual population loss has been more than double the rate of loss during the period of Stalinist repression and mass famine in the first half of the 1930s . . . There has been nothing like this in the thousand-year history of Russia.”

—Sergei Glazyev



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Will the West Take the Damascus Road?

by Stockholm Correspondent Ulf Sandmark

STOCKHOLM, Nov. 20—Entering the Syrian capital of Damascus, we saw people in the streets, bustling traffic, open shops, and long rows of apartment houses. The scene was not much different from Beirut, from which we had set off by car the same morning. Or, for that matter, any southern European city with palm trees along the streets. The contrast with the Western media pictures from Syria was astounding. This was a functioning society. And the streets were, especially compared to Lebanon, tidy.

Later, as we walked the streets, I saw bakeries full of bread and food shops full of vegetables, olives, spices, fish, meat, or candy. People were walking around, shopping for clothes and other things, just as they do at home. A pile of bread still cost USD 15 cents at the old state-subsidized price. I asked the baker, if he lacked anything. “No,” he said. “I have all the ingredients I need. It’s good now.” I got the same answer from one after the other. Some replied that they hoped “it would

become like it was before.” They talked without hysteria or aggressiveness. There was a calm determination and confidence that the nation would prevail.

What I saw was how to really organize a victory over the terrorist Islamic State (IS). The national defense forces, the Syrian Arab Army, with the help of Iran, Hezbollah, and Russia, are pushing back the thousands of international terrorists that have been sent into the country, as well as their Syrian collaborators. However, it is not enough to bomb the terrorists or even to seize the ground they hold. To defeat the terrorists, a functioning social and economic society must be reestablished. This way to fight the war is what I saw during our week-long visit at the beginning of November.

The Swedish Delegation to Damascus

My visit was as a part of a delegation from a Swedish organization called the Syrian Support Committee for Democracy, under the leadership of its chairman,



Delegates meet with engineer Hala Gazal, director of the Syrian Investment Agency. Left: Author Ulf Sandmark hands her a copy of EIR's Eurasian Land-Bridge Report (1997), as architect Greger Ahlberg (left) and physician Dr. Ibrahim Ibrahim look on. Right: Ahlberg, Gazal, and Sandmark. The poster behind them shows Syria as the node of Silk Road networks.





EIRNS/Ulf Sandmark

A busy Damascus street.

George Makdesi Elias. The group is organizing demonstrations defending Syria against the foreign aggression, rallies which I had addressed. The trip was aimed to develop relations between the civilian institutions and businesses of the two countries. The 13 persons in the delegation were mainly Syrian-Swedish activists from the 100,000-person Syrian community that has lived in Sweden for decades. Among European nations, Sweden receives, in relation to its population, the largest number of refugees from Syria.

We were two native Swedes in the delegation: I represented the Schiller Institute and political side of Sweden; Greger Ahlberg, a renowned architect, city planner, and artist, wanted to establish contacts for a reconstruction project in cooperation with Syrian professionals in both Sweden and Syria. He had done such projects before for the war-ravaged cities of Sarajevo and Baghdad. He is known in Sweden for initiating the most famous building in the country, the Globe Arena in Stockholm, with features borrowed from a future space city. He is also well known to the LaRouche



EIRNS/Ulf Sandmark

A vegetable shop in the modern shopping district.

movement, from the time of his presentation to the 1980 conference in Paris on African development, organized by the Fusion Energy Foundation. Another prominent member of the delegation was businessman Tomas Abda, who linked up the Swedish business community to the economic needs of Syria. Dr. Ibrahim Ibrahim provided his expertise for the shipping of containers of medical aid, which the Syrian Support Committee is doing in cooperation with a Syrian NGO.

Syria appeared to have been a well-organized society since a long time before the war. Entering the country along the bad road in Lebanon, we merged onto a four-lane, well-maintained highway. There were street lights all the way to Damascus,

and electrical power towers alongside. The communities we passed had rows of apartment houses, very much like the projects back home. Coming from Sweden, I saw similarities to a socialist-oriented society.

Soon we were to see that there also were other, much more profound dimensions. As the first day we were there was a Friday, the Muslim holy day, we guests were sent into town to see the sights. We were part of an exchange of

friendship, so the government had provided us with full protection as soon as we crossed the border and continued to do so throughout the visit. We were driven into the old town with its ancient bazaars. Most of the shops were closed for the holiday, but barber shops and restaurants were open and also some shops run by Christians.

The Heritage of All Mankind

Then the historical perspectives hit home. The streets we walked were from long before Christ. I was brought into the very old house of Ananias, where St. Paul had been brought when he was blinded by God

along the Damascus Road Here is where he had been converted to Christianity and started the Christian mission to the rest of the world. The streets and houses have been preserved. They were not allowed to be changed, only repaired, using the ancient techniques. The main mosque, the marvelous Umayyad Mosque, was originally constructed as a temple by the Aramean King Hazael in 805 B.C., and then destroyed by the Assyrians and reconstructed as a Roman temple of Jupiter, then converted into the Cathedral of St. John the Baptist. After the Muslim conquest in 634 A.D., for 72 years it housed both Muslims and Christians, in separate halls, until it was rebuilt as the greatest monument of the Umayyad period of Islam (661-750 A.D.). It still houses the relics of St. John the Baptist.

At the ancient Gate of St. Thomas, Bab Tuma, about 100 meters from the Ananias house, I came the closest to the war during the whole trip. There the grenades from the nearby occupied city district of Jobar had reached the old town. I could see traces of bullet marks on the cupola of a church. Alongside the church, a grenade had destroyed a nursery.

In our meeting with Minister of Tourism and Parliamentarian Beshar Yazji, the delegation viewed a slide show of the damage to the ancient monuments around the country, the heritage of all mankind. And the damage was not from stray bullets, but the result of willful destruction, similar to that wrought by the Taliban in Afghanistan.

Four of the ten oldest cities in the world are in Syria. In the desert at Palmyra, the Temple of Bel (also called Baal) had been hit with grenades and more 200 holes in the ground had been found, made by looters digging into the sites. All the religions that populate the area have been hit by the deliberate destruction, including ancient Sunni mosques. The worst damage was inflicted on the 12,000-year-old city of Aleppo, one of the oldest still-inhabited cities in the world. There, the citadel and large parts the old city are damaged. The Aleppo Great Umayyad Mosque from the Eighth Century is badly damaged and the square and minaret are blown away and cannot be repaired.

On a visit to the Minister of Health, Dr. Nizar Yazigi, we were shown the damage to hospitals, including 74 large ones, which amounts to 60-70% of hospitals with more than 300 beds. Thirty of these are totally destroyed, including national hospitals such as the maternity hospital in Damascus. Eighteen pharmaceutical factories have been destroyed or dismantled and their

contents stolen. The embargo by the Western nations hits especially hard against the procurement of medicines, especially medicines for cancer treatment.

A Syrian I met in the evening at the hotel had come directly from a big funeral of a 12-year-old girl who had passed away from leukemia. He could not understand how anyone could deny children the right to medicine. His embitterment was a black hole, even though he knew the West as a Canadian citizen and was living part time in Canada. I assume that his strong emotions were shared among the other relatives and their friends at the girl's funeral.

The Grand Mufti of Syria, Badr al-Din Hasson, told us the next day that "the destruction of churches or mosques means nothing, compared to the life of a child." He is a very learned man with a broad smile, knowledgeable about all religions, and he brought forward the perspectives of thousands of years of human history to universal levels. One of the Muslims in our delegation joked with him and said that the Christians among us had come to be converted to Islam. He replied that that was totally unnecessary, as "we Muslims are also Christians." This man, who has direct access to President Bashar al-Assad, is a living example of the ecumenical traditions of Syria where the mosques and churches have stood side by side.

Rebuilding, Step by Step

What impressed me particularly are the reconciliation efforts in the style of South Africa and Rwanda, but in Syria these have been initiated even while the war is ongoing. Syrian news reported that one group of rebels after another, consisting of 50, 100, or several hundred soldiers, were laying down their arms and returning to civilian life. The government has named a Minister for Reconciliation with rebels of Syrian origin. For each rebel group, the minister assembles special advisors to explore possible channels to reach out to them. These could be old schoolmates, elders, parents, or other relatives. After very sensitive negotiations, a rebel group agrees to put down their weapons and its members are channeled to jobs to get them away from the fighting (and IS). Those who have committed crimes are sentenced and put in prison, but are not given death sentences. Even criminals give themselves up and go to prison, rather than continuing to fight their countrymen.

We met Minister of Social Affairs and Work Kinda Shabat, an energetic woman wearing a head scarf. She works closely with the reconciliation minister to in-

volve women as crucial participants. “In the future, the mother of the martyr and the mother of his murderer must be able to sit together,” she said. “It is hard work which takes time. The reconstruction of human beings must come first. Before there will be peace, we have to answer many questions about the causes of the war. If civilian life is not stabilized, we will not be able to stop the warring.”

Shabat stressed that the embargo hits the poor hardest, as the rich and powerful always manage for themselves. Syrian women were the most educated in the Arab world, she said. Now women are taken by the Islamic State and sold as slaves. She said that tens of thousands of Syrian women have committed suicide, so as not to fall into the hands of IS, in the city of Raqqa. IS bans girls from school, so the government is working hard to convince those who are afraid of IS to send their daughters to school or to receive education at home. The IS forces people to take up guns, but the government is struggling to keep children away from weapons. “This is a red line for us,” she said.

The Syrian government is aiming reconciliation efforts in all directions, including at its own faults. Shabat told us how the Kurdish population before had not been treated in a just way and not been allowed to teach their own language in schools. She said that “it is time for all children in Syria to learn more about the Kurds.” It was clear that the government is trying to reach out to all groups, in a systematic effort to solve old problems and unify the country, step by step.

In comparison with Tunisia and Egypt, when Syria was hit by the (Western-backed) color revolutions, it had a youthful President who has brought several young ministers into his government. They have made many reforms to meet the demands of the opposition.

As Col. Alain Corvez (ret.) said at the Schiller Institute’s Oct. 18-19 conference in Germany (see *EIR*, Nov. 7, 2014), “We have to stop referring to a dictatorship and untruthfully equating the current regime with the previous regime.... The Constitution voted up in the middle of the crisis in 2012 by the Syrians is totally democratic; it preserves fundamental freedoms, and the government, while fighting the jihadist fanatics, is trying to reconcile all moderate tendencies in the nation, and successfully so, since many opposition forces now support the legal government, knowing that it is the last



The delegation meets with Minister of Information Omran Ahed Al-Zouabi (second from right).

bastion against the terrorists.”

The delegation also met Minister of Information Omran Ahed al-Zouabi, who said, “The rebels got what they wanted, but still they want to topple the government.” His conclusion was that “they were not aiming for reforms.”

Economic Development and the BRICS

In the economic field, this clearly socialistic country is opening up for foreign investment, especially from small and middle sized enterprises. The Syrian Investment Agency (SIA) had been set up before the war directly under the office of the President. Our delegation had a meeting with its young general director, the engineer Hala Gazal, and her impressive staff for all branches of the economy. Just as the government is reaching out to all groups of citizens, the SIA is promoting their economic activities and starting businesses. The SIA is especially out to Syrians in exile, and is simplifying the procedures for investments from abroad, with the concept of “the one-stop shop,” to get their assistance in the reconstruction of the country.

In every meeting at the five ministries, I brought up the new world situation that is emerging because of the BRICS countries (Brazil, Russia, India, China, South Africa) and China’s New Silk Road project for Eurasian cooperation. The answer at the Foreign Ministry

was that the government “is 100% with the BRICS.” This country is situated at the crossroads of the old Silk Road, and yearly Silk Road Festivals were held in many cities before the war started. The optimism of the New Silk Road can become the means to organize the youth away from terrorism, just as the Chinese President Xi Jinping has said, I pointed out. With the enormous development projects, science, and space exploration, the youth can find an exciting mission, working for the common aims of mankind. The New Silk Road global project is also the tool to convince the government’s enemies that they would be better off losing the war against Syria, as they would have a much better situation than if they “won.”

President Bashar al-Assad has indicated that he has such a plan to reconcile potentially friendly forces in regional countries that are attacking Syria with the terrorists. He calls this the Five Seas Plan, aiming at connecting the Indian Ocean, the Red Sea, the Mediterranean Sea, the Black Sea, and the Caspian Sea—through Syria. This is clearly the same conception as the New Silk Road. If this plan is pursued, it would put Syria at the center of the New Silk Road perspective, and would provide the BRICS with a way to apply their economic might against the enemies of Syria.

At the SIA, I had the opportunity to touch on how the future orientation of the BRICS, can inspire the youth, and define new economic conceptions. Starting not with counting the money you have, as in the liberal British system, such planning and intention for future projects defines the value for which credit can be issued. This credit can be created based on the sovereignty of the nation and can put the nation to work. This is the revolutionary American System applied by Franklin Roosevelt, I said, and as long as the credit is issued for real infrastructure projects, a physical value is created that more than balances the new money created.

I pointed to the article “Proposal for an Egyptian Declaration of Economic Independence,” by Hussein Askary ([EIR](#), July 26, 2013). The proposal for mobilizing the national credit resources, instead of going into foreign debt, has been partly applied by the Egyptian government in their giant effort to build the New Suez Canal and other infrastructure projects. I said, “This is the policy we also propose for Sweden, to put our



Minister of Social Affairs and Work Kinda Shabat (center), with delegation members Dr. Ibrahim Ibrahim, Samar Rajab, and Mariam Daweed.

people to work, and it could be applied by Syria.” The article, as well as the 1997 Eurasian Land-Bridge Report, was delivered, together with the latest *EIRs*, and all were well received.

The War

While we were in Damascus, some of us occasionally heard distant sounds of war. At nighttime, there were no such explosions, as the terrorists avoided open fire so as not to reveal their positions, we were told. One day an official at a ministry said that that day was the first time that there had been no explosions in 24 hours. There were a lot of road blocks and soldiers in the Old Town, but fewer elsewhere in the city, except for at the ministries, TV station, and especially at the garrisons. We saw soldiers on the border with Lebanon and at a few road blocks along the way. Leaving Syria, we saw the lights from a distant military camp. There were no traces of war along the road from the border, and we were kept away from the destroyed areas around the city.

We were told that the terrorists mostly stayed underground. A captured soldier had told the Syrian Army that he had not seen the sky for six months. The well-financed terrorists have brought in special tunnel-boring machines, digging out enormous tunnel systems. In the tunnels, three men can walk side by side, and trucks can be brought into some of them. It is doubtful that the U.S. Air Force could achieve much against these terror-

ists, who already have adapted their war tactics to the air superiority of the Syrian Air Force.

A Syrian Kurdish parliamentarian, Omar Ossy, head of the National Initiative for Syrian Kurds, told me that there are 8,000 IS terrorists outside the northern city of Kobani. They were fighting the 2,000 Kurdish defenders of the city, including 500 women fighters, including the woman commander. Ossy told me that IS had brought up 15 American-made Abrams tanks, captured in Mosul, Iraq. They had been transported hundreds of kilometers on trailers. "They must have been seen by the American satellites, but were never attacked," he said. Ossy did not believe the U.S. war against IS was for real.

Minister of Information Ahed presented us with documentation about the thousands of terrorists who had been attacking Syria, in the form of books with the documentation and picture of each terrorist. Different books were for different countries and the book with the Saudis was the thickest. One book had the flags of most European nations, as well as the U.S., Canada, and Australia. All the books formed a pile 0.4 meters high. They had been presented at the UN Security Council, but were pushed aside and not mentioned in the Western media.

For anyone wanting to fight IS, this information is invaluable, as it allows mapping out the whole international IS and al-Qaeda terrorist apparatus. The refusal of the West to use this material shows that there is no earnest crackdown against these terrorist networks, even domestically in the Western countries.

For instance, the Swedish government is currently supporting the "Syrian opposition" in many ways. The claim is that the now almost nonexistent Syrian National Council is only being provided with humanitarian aid. However, the aid goes to an organization and its refugee camps that is conducting an armed rebellion and is working with the most barbaric terrorists. The Swedish government has also supported the terrorists in Syria for four years, while not using the available information to stop young Swedes from joining the war. This means that these young people are part of the



George Makdesi Elias, the head of the Swedish delegation, speaks to the press in Damascus.

country's foreign policy and are being used as cannon fodder.

In the Swedish suburbs, parents and local officials are forming groups to stop their young people from joining IS. Parents who call the police get no help, even if their son is at the airport about to board a plane to Turkey. Local officials are trying to organize activities and jobs to keep the youth away from the new "jihadist" sub-culture. Most such efforts, without the optimistic visions of the BRICS, are futile, for these suburban youth are enmeshed in Western nihilistic culture. One form of organizing young people now being set up in Sweden is an organization for dropouts from the terrorist milieu, much in the same way that former drug addicts bring anti-drug information to the younger generation.

However, the names of those that possibly could be part of such a program are in those books that we saw lying there in Syria, and that information has for years been kept away from the Swedish authorities who desperately needed it.

The IS and al-Qaeda cannot be stopped without Syria, which stands on the front line, and its allies Russia and China. Both Syria and Iraq must be supported as nations. Iran and Egypt are necessary to stabilize the situation; and Turkey, Qatar, and Saudi Arabia, which have been the tools of the British geopolitical policy to use terrorism as an instrument of warfare, must be told to stop.

Syria has lived through 60 documented invasions in the period of written history. The people and the government officials I met are convinced they will not only endure the ongoing war, but will defeat the aggressors. Calmly and confidently, people are carrying out their daily activities, and young families I met are giving birth to children, in full confidence that the nation and its government will prevail. They see themselves as carrying forward a civilization thousands of years old.

Compared to what I have seen in the Western media, the city life I saw in Damascus was a wonder of stability and order. I took the Damascus Road to see this. It is time for Western political leaders to do that too.

U.S., Europe Must Join with the BRICS

Nov. 21—*The Schiller Institute, founded by Helga Zepp-LaRouche, issued the following [statement](#) today, for international circulation, to garner support for immediate action.*

In today's nuclear age, the consequence of a geopolitical policy of confrontation with Russia and China can only be the thermonuclear extinction of the human race. Therefore, every effort must be made to cooperate to solve the multiple crises facing humanity.

The BRICS nations (Brazil, Russia, India, China, and South Africa) have united to pursue a policy of economic development not just for their individual countries, but for the benefit of the people of all nations. To that end, they have created a New Development Bank to invest billions in necessary development projects.

China recently initiated the Asian Infrastructure Investment Bank (AIIB), joined by over 20 Asian nations as founding members, and has set up a Silk Road Development Fund.

At the APEC conference in Beijing, Chinese President Xi Jinping invited President Obama to join the efforts of China and other Asian nations, including Russia, in the development of the New Silk Road.

These initiatives are not geopolitical in nature. Contrary to the Trans-Pacific Partnership (TPP) advocated by Obama, which excludes Russia and China, the BRICS-related initiatives, including the Chinese proposed Free Trade Area of the Asia-Pacific (FTAAP), are inclusive. They are based on the concept expressed by Pope Paul VI, that the "new name of peace is development." Thus, in Australia at the recent G-20 meeting, both President Xi and Indian Prime Minister Modi spoke of the twin goals of achieving global peace and ending poverty through economic development.

There is no problem in the world that cannot be solved by such an approach, and conversely, no problem that will be solved without it.

Such cooperation among the U.S., Russia, China,

and India, joined by other nations, is necessary to defeat the Ebola pandemic in Africa.

The terrorist threat represented by ISIS and al-Qaeda is aimed at Russia, China, and India, as well as the U.S. and Europe. It can only be defeated through a new security architecture based on cooperation.

The policy of conducting "color revolutions," under the pretext of democracy, represents a policy of war, even if that term is not used, because its aim is to topple governments with the aid of foreign money. It has to stop. The campaign to impose sanctions on Russia for its opposition to such "color revolutions," and to the Nazi coup in Ukraine, is only exacerbating the global crisis. An approach based on mutual cooperation to achieve the common aims of mankind throughout Eurasia and beyond would instead create the basis for global peace.

While the U.S. has abandoned the Kennedy space program, the Chinese are committed to a lunar program focused on the exploitation of helium-3 for the purpose of generating unlimited fusion energy. With collaboration among the U.S., Europe, Russia, China, and India, and South Africa, among other nations, man could finally realize Johannes Kepler's vision of mastery of the laws of the Solar System for the benefit of man.

Only such an approach would restore the U.S. and Europe to their original purpose as expressed in the European Renaissance and the American Revolution, a purpose which the U.S. and Europe have increasingly abandoned and the rest of the world has now adopted, and is now urging them to readopt.

We therefore call upon the U.S. and Europe to abandon the suicidal geopolitical policies of the past which led to the two previous World Wars, and are leading to a third, and to build a future for all humanity by re-adopting the principle of the Treaty of Westphalia by basing foreign policy on the principle of the "benefit of the other," which ended the Thirty Years War in Europe, and on John Quincy Adams' concept of a "community of principle" among sovereign nation-states.

That is the only course coherent with the true nature of man as the only creative species. Any other course is based on a concept of man as an animal and leads to human extinction.

As patriots of our own nations, and as citizens of the world, we call on our fellow citizens and the leaders of our nations to have the courage to break the current cycle of escalating bestiality by accepting the generous offer to collaborate with the BRICS.

‘THE MANHATTAN PROJECT’

Lifting Up Americans to a National Vision Once Again

by Dennis Speed

Nov. 24—The New York-New Jersey chapter of the Schiller Institute convened 175 people for a conference entitled “Seize the Opportunity—End America’s Blindness, Restore Its Vision,” on Nov. 22 at New York City’s All Souls Church. The conference was dedicated to President John F. Kennedy on the anniversary of his death, and to the victims and families of 9/11.

The event, the fourth in a series, is a model for the nation, exemplifying the way in which Americans can be brought out of their demoralization, and into the state of mind required to join the international revolution being led by the BRICS nations: a necessity if civilization is to survive the current crisis.

Restoring Kennedy’s Vision

The program began with the Schiller Institute Chorus performing J.S. Bach’s “Dona Nobis Pacem,” followed by “The Star-Spangled Banner.” Institute representative Dennis

Speed then welcomed the audience. After pointing out that “it was shortly after this time of day, 51 years ago, that the United States was told that President John Kennedy was dead,” Speed went on to say: “But in a larger

sense, we are not brought together by those terrible events. In a larger sense, those events were the violent reactions to the vision of the world that Kennedy advanced, a vision that was hated by the perpetrators of those events.

“Every time a Chinese astronaut teaches a class to 60 million children from space, every time an Indian space orbiter vehicle greets an American orbiter over Mars, every time Russian cosmonauts at the International Space Station set a new record for time spent walking in space, every time a European Space Agency vehicle tackles a comet ten years and millions of miles away, John Kennedy smiles....

“Today, the truth is that China, Russia, India and other nations are proposing to the United States that the Alliance



The official White House portrait of President John F. Kennedy, painted by Aaron Shikler (posthumous).

for Progress that Kennedy actually proposed, which now has its highest expression in the lunar mining program of China, and is called the BRICS [Brazil, Russia, India, China, South Africa] policy, is a new birth of government of, by, and for the people. That will never become U.S. policy unless one section of the American citizenry organizes the rest of America to dare to know the truth, so that the truth can set us free from our present dark American nightmare.”

This was followed by a performance of the *Introit* and *Kyrie* sections of Mozart’s *Requiem*. Terry Strada, National Co-Chair of 9/11 Families United for Justice Against Terrorism, sat in the front of the church; several people attending had also lost relatives or friends in the attacks, and referred to that later in the proceedings. The acoustics of the church sanctuary served the chorus well, and several attendees spoke of how much they appreciated the Mozart being performed. One participant pointed out that “the immortal mind of Mozart was reaching out across centuries to speak on behalf of Kennedy and the victims of 9/11, and more importantly to us, the living, still fighting for the future of all of mankind.”

‘The Erinyes Principle’

EIR intelligence director Jeffrey Steinberg spoke on “The Erinyes Principle: The BRICS Nations Revive JFK’s New Frontier.” This presentation inverted the usual well-intentioned but defeatist reminiscences about Kennedy. After referring to his own personal experience, and that of many of the audience members, of the sense of loss from Nov. 22, 1963 until today—“frozen in time and frozen in shock”—Steinberg drew the experiential parallel to 9/11. “In both cases, there was a betrayal of the American people; they have been deprived of the truth. But we must reflect on Kennedy’s 1,000 days,” that is, the accomplishments and unfinished battles for the good waged by that administration.

Kennedy matured from the time of the October 1962 Cuban Missile Crisis. The President vowed, “We can never again allow the world to be this close to catastrophe again.” He then worked to establish the framework to end the Cold War, especially as stated in his American University speech of June 1963.

Kennedy wanted to return to John Quincy Adams’ foreign policy of sovereign nation-states organized as a “community of principle.” On the eve of his assassination, he put forth the executive orders to withdraw troops from Vietnam. He was constantly in a war with Wall Street. His optimistic vision of the world defined a

choice for the youth of the nation, between the Peace Corps and the Apollo space program.

From the traumas of the assassinations of the 1960s, we went into collective mass insanity, Steinberg continued. America outsourced the industrial base that had won the Second World War, the greatest concentration of economic production capacity ever, and degraded its workforce to its present “post-industrial” condition. Now, however, there is again hope: The trans-Atlantic system has run its course, and we have the emergence of the BRICS, the revival of the outlook and policies that were characteristic of the United States during the Kennedy period.

Steinberg reviewed the world physical-economic upshift that has occurred since July 2014 because of the BRICS policies, juxtaposing this to the insane provocations in the same time period against Russia and other nations, notably the Ukraine confrontation. Schiller Institute founder Helga Zepp-LaRouche’s initiatives since 1996, to extend her and Lyndon LaRouche’s Eurasian Land-Bridge policy to Asia as a whole, was concretized in a June 1996 conference in China, with the adoption of the Silk Road policy, and the subsequent creation of institutions such as the Shanghai Cooperation Organization. The BRICS process is a further realization of this trend. “We now have the opportunity to turn the clock back to the American System. We now have a better framework to realize the ideals and potential of the U.S. than at any point since 1963,” Steinberg said.

Steinberg concluded by describing the new *EIR* Special Report, *The New Silk Road Becomes the World Land-Bridge*: “This report is a blueprint for man’s advancement for the next 50-100 years. It’s a multi-generational plan for mankind to live up to its potential.” He spoke about a visit he had made to Japan 14 months ago: “When we, in our discussions with our Japanese co-thinkers, said, ‘The world needs this,’ they said to us, ‘If you had come to us 20 years ago, we would have been able to tell you to whom you should speak. The machinery of government would have moved immediately. None of that now exists.’ They told us that they had to rely on *us* to make this happen. Last year, when that discussion occurred, none of the recent developments had occurred. We knew that that direction was necessary. This report was born *before* these events.” That prescient quality, which economic forecaster Lyndon LaRouche has called “the only truly human way of thinking,” is what distinguishes *EIR*’s approach from all others.



Moderator Dennis Speed addresses the Schiller Institute conference in New York City, Nov. 22, 2014. Seated, from left: Jason Ross of the LaRouchePAC Science Team; Terry Strada, National Co-Chair of 9/11 Families United for Justice Against Terrorism; Ray McGovern, co-founder of Veteran Intelligence Professionals for Sanity (VIPs); EIR intelligence director Jeffrey Steinberg.

To deepen the audience’s acquaintance with the “the Erinyes Principle,” a poem by Friedrich Schiller, “*Die Kranische des Ibykus*” (“The Cranes of Ibykus” followed, recited in (pre-recorded) German by Karsten Werner, and projected in English translation. The audience’s concentration was here most notable, as well as the differentiation in voicing in the recitation itself. Prior to the recording being played, Speed reported observations prepared by Zepp-LaRouche, about “Nemesis and Schiller’s ‘Cranes of Ibykus’”:

“I think the way Schiller treats Nemesis—and he studied it in all the great tragedians of Classical Greece—is as the idea that, if you put guilt on yourself, you invite a higher lawfulness to strike you down. You cannot violate the order of Creation without that happening. Sooner or later—it’s not an instantaneous response, but sooner or later, it comes. Civilizations that have violated the order of Creation over longer periods of time, bring doom upon themselves. Which is why, if we don’t correct the present situation, the idea of mankind shrinking to half a billion people is an imminent, visible possibility which one can see on the horizon. Why? Because we are violating the laws of the universe, in the present political order. Schiller worked on this again and again, but I think the most beautiful, coherent, powerful way is his poem ‘The Cranes of Ibykus.’ Here, he has the murder of the poet Ibykus.

The cranes fly over, and Ibykus says, ‘If there is no one else to avenge my murder, I call upon you cranes to be my vengeance.’”

Returning to Zepp-LaRouche’s remarks at the end of the recitation, Speed said: “In the letters between Goethe and Schiller, Schiller actually says that the murderers do not reveal themselves because they feel guilty, since they are such evil killers that they don’t feel guilt. They don’t have this conscience. They reveal themselves because of the earlier appearance of the Erinyes, because something totally sublime, something totally ‘eerie,’ has been established. And, therefore, they lose control and give the secret away. And they are immediately seized and thrown before a tribunal, and are tried.”

The audience was admonished that they had to play the same role as the Erinyes with respect to matters of justice and policymaking, such as the United States’ involvement in the BRICS process.

‘Science for the Good’

Jason Ross of the LaRouchePAC Science Team then spoke, on “Space, Science, and Humanity: The BRICS perspective” He began: “While we are fighting evil, we have to live for the good, as expressed, for example, in the Apollo project. As we see with China’s Curiosity, with Chang’e and the Lunar Rover, with the Indian Mars orbital mission, with the Chinese satellite to the

Moon and back, and with the Rosetta mission: This is the science of the good.”

Ross took up the late Russian-Ukrainian scientist Vladimir Vernadsky’s idea of going beyond biological evolution to the effect of the noösphere on the planet as a whole, “the Promethean idea.” Taking up the non-linear upward transformations in energy-flux density, as the key difference between man and beast—man’s capacity to discover, invent, and deploy ever more efficient forms of fire—Ross reviewed history from the Bronze Age through the age of physical chemistry, to the nuclear/thermonuclear age. Ross pointed out that the power curve in America has not gone up since Kennedy’s death in 1963.

Notably, Ross pointed out the “Kennedy-like” overture made by President Xi Jinping of China to President Barack Obama, inviting the United States to *join* the BRICS nations in their project of building a new economic platform, not only throughout the planet, but “in space” as well. Xi said:

“The Pacific Ocean is broad enough to accommodate the development of both China and the United States, and our two countries to work together to contribute to security in Asia. These are mutually complementary efforts instead of mutually exclusive ones. . . .

“I also introduced to President Obama China’s initiatives of establishing the Asian Infrastructure Investment Bank and the Silk Road Fund. Underdeveloped infrastructure is the main bottleneck obstructing the economic development in Asia. China has initiated the AIIB in order to offer support and facility to regional infrastructure development.

“These proposals and initiatives are open and inclusive in Asia; they are not exclusive. We welcome the active participation of the United States and other relevant countries so that together we can promote and share prosperity and peace in the Asia-Pacific region.

“China is ready to work with the United States to make efforts in a number of priority areas and putting into effect such principles as non-confrontation, non-conflict, mutual respect, and win-win cooperation. And with unwavering spirit and unrelenting efforts, we will promote new progress in building a new type model of major-country relations between the two countries, so as to bring greater benefits to our two peoples and two countries.”

This presentation allowed the participants to now locate the significance of the moral downshift in thinking in the aftermath of the Kennedy assassination, and

its physical effect on the universe. It also made very clear the connection between the capacity of mankind to discover the truth and its willful creation of a human identity. Human identity is not a biologically determined fact, but a noetic process of discovery. And thinking is also a geological phenomenon, the most significant physical capacity for change in the world and, by implication, the known universe.

‘Declassify the 28 Pages’

Terry Strada, leader of the 9/11 Families, was greeted by a standing ovation. Though a few in the audience had heard her speak previously, the impact of her presentation was perhaps the greatest of any heard at the meeting. Several people in the audience had either been at or near the World Trade Center on Sept. 11, 2001; others had lost loved ones in the catastrophe.

Strada’s presentation was preceded by a video prepared for the meeting, titled “Declassify the 28 Pages: Support House Resolution 428.” The first speaker on the video is Rep. Walter Jones (R-N.C.), who states that Reps. Stephen Lynch (D-Mass.), and Thomas Massie (R-Ky.) have joined with him in a letter to President Obama: “We write today to urge you to declassify the 28 redacted pages of the Joint Inquiry into Intelligence Activities before and after the terrorist attack.” The 28 pages, classified by the G.W. Bush Administration, have never been released by President Obama, despite his campaign promises to do so. They involve the role of the Kingdom of Saudi Arabia’s financing of the 9/11 terrorists.

Former CIA officer Ray McGovern, the co-founder Veteran Intelligence Professionals for Sanity (VIPS), documented the case for the release of the 28 pages, and urged people present to “put your bodies on the line” to challenge the secret government/surveillance apparatus.

McGovern began: “At one time, I was a young person. And when I heard in my senior year in college, John Kennedy in his inaugural address invite those of us who had something to offer, not to ask what the country could do for us, but what we could do for the country, like many other people my age, we were really inspired. And you know, there are still some of us left down there in Washington. . . .

“I had just entered the Central Intelligence Agency after being an Army infantry and intelligence officer. I was there just seven months before President Kennedy was killed. So the poignant strains of the Mozart *Requiem* meant a lot to me today.”

McGovern, who had been illegally arrested at and ejected from an Oct. 30 event at the 92nd Street Y in New York being addressed by Gen. David Petraeus (ret.), suffered a fractured shoulder as a result. He referenced a blog by author David Swanson that had appeared that day, called “Mark Udall and the Unspeakable.” Swanson wrote that “the depth of elected officials’ obedience to a permanent war machine is usually a topic avoided in polite company—usually, not always. Back in 2011, the dean of the law school at UC Berkeley, a member of Obama’s transition team in 2009, said publicly that Obama had decided in 2009 to block prosecutions of Bush-era criminals in part because the CIA, NSA, and military would revolt. Ray McGovern says he has a trustworthy witness to Obama saying he would leave the crimes unpunished because, in Obama’s words, ‘Don’t you remember what happened to Martin Luther King?’ Neither of those incidents has interested major media outlets in the slightest.”

McGovern emphasized to the conference the essential role of the 28 pages as the means to unravel what has largely been a coverup, not only of the true authors of 9/11, but of the “why” behind 9/11. He spoke about the Saudi connections of several members of the Bush Administration, but made it clear that Democrats were no less guilty.

“Why should we care about all of this? One needs only to think of the still-disputed findings of the commissions that investigated the assassinations of John F. Kennedy and Martin Luther King, to feel the corrosive effects on the body politic when cataclysmic events like this are shoddily investigated or their conclusions deservedly suspect.”

Actor Walter Krochmal concluded the first part of the program with a reading of “The Masque of the Red Death” by Edgar Allan Poe, because, this author observed in introducing him, “since this is an American audience, you can’t repeat the idea of Nemesis too much.”

The Fight for Justice

The conference concluded with a video message from former Rep. Neil Gallagher (D-N.J.), a close friend of John and Robert Kennedy and fighter for justice against the J. Edgar “Hooverized” United States.

Gallagher referred to a speech he had given in March 1970 to the New Jersey Chapter of the American Civil Liberties Union:

“Never before in our history has the group of basic

concepts embodied in the first ten amendments to our Constitution been under such constant and concerted attack as now. . . . Mere necessity would not be sufficient, according to our Founders, in order to justify a violation of the [right of privacy]; something more would be required: *probable* cause. The steady erosion of that founding conception proceeded apace during the latter portion of the sixties and the opening months of this new decade. . . . In a nation as large and complex as the United States, a nation which contains so many different cultural and ethnic heritages, no single class of men can be permitted to impose the standards of their group on the remainder of American society. Yet, in a very real sense, that is exactly what is happening today. . . .

“My friends, I must be candid with you and reveal to you my firm belief that we are in the process of losing our form of government and our way of life, as it has developed since the founding of our republic. We are replacing democracy with something else, with something we have rejected throughout our history.

“Perhaps an illustration of what I mean may be found in the fact that a change from democracy to totalitarianism in those European states where such a change occurred was always preceded by stripping away of the same concepts as those guaranteed by our Fourth Amendment.

“The ruination of individual privacy has always heralded the destruction of human freedom.

“Indeed, the greatest privacy invader, dossier collector, and information keeper known to [the past] century was Adolf Hitler.

“And Hitler carried forth his privacy invasion, his destruction of the human personality, without the benefit of computers—though I should tell you, in all seriousness, that one of the first orders for the new IBM punch cards was placed by the government of Nazi Germany. . . .

“Total information about individuals means total control over those individuals. . . .

“There are those in the government who are trying to use the opportunities for control created by this technology precisely for that purpose. As I stated when I began this afternoon, these men may be, and no doubt are, motivated by sincere intentions; but the effect of their actions is astounding. . . .”

Gallagher opened and concluded his statement with profound thanks to Lyndon LaRouche, Ray McGovern, and the Schiller Institute “for this courageous fight that you continue to wage.”

SCIENCE FOR A NEW PARADIGM

Time for a Solar Noösphere

by Benjamin Deniston

Oct. 29—*This article is dedicated to the successful Oct. 18-19, 2014 international conference held in Frankfurt, Germany, in honor of the 30th anniversary of the founding of the Schiller Institute, “The New Silk Road and China’s Lunar Program: Mankind Is the Only Creative Species.” The purpose of the conference was stated in the [Resolution](#) adopted by the participants: “to establish an inclusive peace order, with the participation of every nation on the planet, a peace order for the 21st Century, worthy of mankind as the only known creative species in the universe.”¹*

The three mortal dangers to civilization highlighted in the conference Resolution are expressions of the false view of the nature of mankind which underlies the current, failing paradigm. The deep issue is the oligarchical conception of mankind as an animal, as a beast to be herded and culled, as the British Empire’s Prince Philip has expressed such desires so openly. With the rise of a new strategic alliance on the planet centered around the BRICS nations, comes the potential for a scientifically valid conception of the creative nature of mankind to govern the planet, and beyond.

The proceedings of the [conference](#) provide the most comprehensive picture of this developing new paradigm.

Here we investigate some of the scientific aspects of this prospective new stage for mankind, starting from the recent emphasis by Lyndon LaRouche that the animal conception of mankind must be eliminated, and

replaced with a scientific understanding of the creative powers of the human mind. The specific subject here is an initial investigation of animal vs. human time.

Relative Space-Time

In an earlier research report, working from the thesis of Russian-Ukrainian scientist Vladimir Vernadsky on the variable space-time characteristics of living matter,² an hypothesis was developed regarding a relative space-time of living organisms. Here we compare this relativistic domain of animal time with the qualitatively different, self-determined time created by mankind. Mankind is not, and cannot be measured by, nor confined in, animal time, as will be elaborated below, but increasingly occupies and creates new domains of time in the very short and the very long.

The initial animal study of the relative space-time of the living organism was prompted by examinations of what appeared to be paradoxical differences in the energy-flux density of different species. For example, an initial analysis seemed to indicate that the energy-flux density of mice was much higher than that of elephants. From the perspective of the work the Basement [the LaRouchePAC Science Team—ed.] has done on the anti-entropic development of life on Earth, this seemed a bit strange, because they are both expressions of the mammalian evolutionary class, and would be expected to

1. See Helga Zepp-LaRouche’s video presentation of the [Resolution](#).

2. See Vernadsky’s *Problems of Biogeochemistry I, Problems of Biogeochemistry II*, and *On the States of Physical Space*.

express the same level of energy-flux density.

We developed the hypothesis that the energy-flux densities of mice and elephants approximate the same value, *but with respect to relative time*, instead of clock time.³ Time, itself, would change as a function of the space-time characteristics of a living organism, allowing the intrinsic time of the mouse and the elephant to be the same (like the experience of time for the twins of Einstein's Twin Paradox), even though they appear to outside observers to be different.⁴ Thus, all mammals are defined by the same energy-flux density, which defines a relative, "intrinsic" time for the organism, a mammalian time unit.

While the same energy-flux density and mammalian time unit are approximated by all mammalian species, they change for animals outside the mammalian class (amphibians, reptiles, etc.). Thus, the energy-flux density of animal species increases over the course of evolutionary time, in conformity with Vernadsky's second biogeochemical principle (corresponding to the anti-



Vernadsky's identification of a new geological epoch, created by the biogeochemical expressions of human intelligence, is a testament to the powers of the creative human mind.

entropic evolutionary development of the biosphere).

This relative animal time was treated in more detail earlier, and now provides an interesting basis to illustrate something even more interesting: the *supra-animal characteristics of the human species*. Mankind partakes in a mammalian biology, and thus, it would seem, would be bound by this mammalian time unit. If that were the case, then time for the human individual would be subsumed and defined by this mammalian characteristic, and would be similar to that of a primate (or any mammal) of a similar size. For example, this would result in an average human lifespan of

about 20 years.

However, this is clearly not the case. The average human lifespan in Medieval England (ca. 1300) was about 30 years; by 1850 in America, it was 43 years, and in America today it is 78. *Time, for mankind, isn't just a relative space-time of a living organism, it is relative and self-defined by the creative powers of the human mind.* What is unique about mankind is not simply the different time value, but the active process of continuously re-defining time as mankind willfully self-evolves. This stretches far beyond changes in the lifespan of the individual, into temporal domains of the very large and very small, beyond the biological limits of the body.

A View from the Noösphere

From the standpoint of Vernadsky's second biogeochemical principle, examine mankind's time from the larger perspective of the historical development of society. In his *The Evolution of Species and Living Matter* (1926), Vernadsky states, "This biogeochemical principle, which I will call the second biogeochemical principle, can be formulated thus: 'The evolution of species, leading to the creation of new stable, living forms, must move in the direction of an increase of the biogenic migration of atoms in the biosphere.'" Later, in his *The Study of Life Phenomena and the New Physics* (1931), Vernadsky examines the emergence of mankind from this standpoint:

3. For example, all mammal species approximate the same energy use per mass per physical time cycle (such as heartbeat, time to reach reproductive maturity, time for population doubling, etc.). This is elaborated in the unpublished research report, "On LaRouche's Call for a Vernadskian Physical Time: Energy-Flux Density and the Physical Space-Time of the Living Organism," Benjamin Deniston, May 29, 2014.

4. For example, by the mouse's experience, the elephant operates very slowly, while by the elephant's experience, the mouse operates very quickly. Yet, they each, individually, experience the same amount of time (as measured by various physical, biological metrics, for example). It is as if the elephant exists on the traveling rocket ship of Einstein's Twin Paradox (where time moves more slowly, relative to the twin who never left the Earth); however, for the elephant, the time-dilation effect is not due to relative motion or acceleration, but to the intrinsic space-time of the living organism (along the lines that Vernadsky was raising). In Einstein's Theory of Relativity, the action of light is the physical consideration (principle) which provides the relative constant, while space and time yield and give way to the principle of light. For the space-time of a living organism, it appears that energy-flux density (as defined in the cited research report) provides the principled physical process, by which the space-time of the living organism is determined. In relativity, differences in relative speed or acceleration determine the level of time-dilation effects. In the space-time of living matter, time dilation is associated with the average adult mass of the species.

With the appearance of man in the biosphere, conforming to the second biogeochemical principle, the action of life on our planet develops and changes by the effect of his intelligence, to such an extent, that it becomes possible to speak of a special psychozoic epoch in the history of our planet, analogous to other geological epochs in the change effected in living nature on Earth, as during the Cambrian or Oligocene, for example. With the appearance of a living being on our planet gifted with intelligence, we pass into another stage of its history.

Vernadsky's identification of a new geological epoch, created by the biogeochemical expressions of human intelligence, is a testament to the powers of the creative human mind. But perhaps most important to emphasize here is the speed at which mankind has done this. In the geological timescale, "ages" and "epochs" are measured in millions and tens of millions of years—yet for the history of mankind, we identify a series of ages (Stone, Bronze, Iron, etc.) lasting only thousands or hundreds of years. These particular divisions might not correspond to the equivalent of geological ages, but they hint at a profound truth: Mankind's actions, even over generations, can express the power of geological change, and at a more rapid, different rate (**Figure 1**).

When did this new psychozoic epoch begin? Some have pointed to the large-scale development of agriculture and irrigation as marking the time when mankind began to have a biospheric and geological effect that created a new geological epoch (starting in the range of 10,000 years ago). Others look more recently, to the Industrial Revolution (ca. 1760-1840).

However, LaRouche's physical economics provides a scientific approach to assessing such questions. By his metric of potential relative population density, we can use population growth as a proxy for a measure of mankind's effect on the biogeochemical cycles of the biosphere. Biologically (without the intervention of the creative powers of the human mind), a higher ape (biologically similar to man) might be able to achieve a "natural" global population in the hundreds of thousands (or maybe a few million). Yet, 5,000 years ago,

FIGURE 1

A Diagram of the Geological Timescale



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mankind was already far beyond this biological-ecological limit, with a global population in the tens of millions. By 2,000 years ago, the population was in the hundreds of millions.

Over the past few hundred years we began to count in the billions. This might give the best available indication of not only the rate of change, but the *increasing rate of change* of mankind's power as a geological force, as determined by mankind's unique ability to willfully determine and change its potential relative population density. These leaps in global potential relative population density have required increases in the energy-flux density of the noosphere-biosphere system, as Vernadsky would measure biogeochemically in the increasing biogenic migration of atoms. Thus, human population growth can be a useful proxy for the power of mankind as a geological force.⁵

As expressed in the increasing rate of population

5. The prospect for developing a geological timescale based on biogeochemical change consistent with Vernadsky's notions is being treated in a draft in process, "Developing Geological-Biogeochemical Time," and the associated biogeochemical analysis of human economic activity is discussed in another draft in process, "Potential Relative Population Density and the Biogeochemistry of the Noosphere."

growth, for mankind's actions we are initially speaking in metrics of thousands of years, more recently, hundreds of years, and now, in generations. By the action of the biosphere, without human intervention, the rate has also been increasing, but measured in *millions* of years (if not tens or hundreds of millions of years). The changing biogeochemical power of mankind over centuries or generations, expresses biogeochemical changes only otherwise seen over multi-million-year geological timescales. Said otherwise, *human society wields the power of geological time*.

Before going on, it must be re-emphasized that the significance is not in any particular value, but in the increasing rate of change. Shorter and shorter periods for mankind, measured in generations, encompass larger and larger geological timescales of biogeochemical action. *Mankind now wields the geological time of ages and epochs at will.*⁶ Scales of change associated with millions of years of evolutionary change of animal life are surpassed by generations of human creative (not biological) action.

Scientific-Cultural Time Unit

In this larger context, return to the opening point: Time, for the individual animal member of the mammalian class, appears to be defined by the energy-flux density and relative time of a mammalian time unit, but for the individual member of the human species, time is defined by the self-determined scientific-cultural level of society. Changes in the biological time unit of an animal species require evolutionary change around the taxonomic level of class or order (far outside the capabilities of any individual species), occurring over geological timescales of millions of years. To change the scientific-cultural time unit of a human society requires no biological change, but a scientific-cultural change, which is created by the actions of individual human minds over generations.

This is expressed in interesting ways in the changing experience and domain of actions of the individual person. Strictly speaking of animal biology, the average individual should experience, and be bound by, one mammalian time unit, which, for the size of the human species, maps onto Earth orbital time as about 20 orbits (years). By animal biology, this is associated with a

limit to the speed of processes that a mammal of human size could react to and interact with. For example, key biological functions are measured in thousandths of seconds (milliseconds)—it takes 1 millisecond for a neuron in the human brain to fire an impulse and return to rest, and about 80 milliseconds for the brain to receive and integrate signals from the body. Regarding perception, the human reflex to visual stimuli is between 20 and 300 milliseconds.⁷

These are some of the biological time boundaries, limiting the potential effective actions of an organism to respond to and interact with the surrounding environment. *But the actions of mankind are not limited to this animal-time domain.*

For example, consider mankind's increasing understanding of, precision in utilizing, and control over chemical reactions. This takes us into a domain of the very small, characterized by timescales far, far beyond what is perceptible by a living organism bound by the mammalian time unit. While the limiting times of biological activity were counted in milliseconds, and perception in hundreds of milliseconds, the timescale of microscopic chemical reactions is measured in *quadrillionths* of a second (millionths of a billionth), known as femtoseconds.⁸

Yet, mankind is increasingly developing capabili-

7. Another interesting perceptual phenomenon is known as "beta movement," an optical illusion in which a series of still images can appear as a fluid, continuous motion (despite the fact that there is no actual motion, just a series of still images). For this to occur, the sequence must achieve a number of images per second known as the "critical flicker frequency." For humans, this is about 10 to 15 frames per second (60 to 100 milliseconds per frame). A frequency higher than this (in which each individual image is displayed for a shorter period of time), is beyond the capabilities of the human sense-perceptual system to distinguish as individual frames, and is perceived as a smooth motion. Recent experiments have shown that the value of the critical flicker frequency for different animal species is tied to their energy-flux density (metabolic rates), and is thus a function of the relative space-time of that species (supporting the notion that all mammal species experience the same amount of time in an average physical time unit).

8. For example, average individual chemical reactions can occur in the range of 200 femtoseconds, and the quickest at around 15. There is an incredible amount of space between this domain and that of the living organism. Going from milliseconds to femtoseconds passes over 12 orders of magnitude, through the time domains of micro-, nano-, and picoseconds. For comparison, 1 femtosecond is to 1 second, as 1 second is to 30 million years! In that comparison, we are leaping from the immediate experience of a living organism (measured in seconds) to geological epochs (measured in tens of millions of years), passing over orbital time, generational time, evolutionary time, etc. That is the proportional amount of space between animal time and chemical time.

6. We can even look to the future prospects of developing synthetic biospheres and terraforming other planetary bodies in our Solar System—at which point generations of mankind will be acting with the power of eons, geologically measured in the billions of years.

ties to understand the fundamental nature of these sense-perceptible, supra-temporal processes, and to actively utilize that understanding to change mankind's biogeochemical relation to the planet—in effect, noëticly occupying and utilizing this biologically supra-perceptual time, *12 orders of magnitude—a trillion times—beyond the capabilities for experience and action of the strictly biological aspects of human experience.*

Even more interesting, there is a direct relation between our ability to increasingly inhabit this ultra-small temporal domain of chemical reactions, and the ultra-large geological time metric required to measure the cumulative biogeochemical effects of our actions on the planet. If we take Vernadsky's reference to the creation of a new psychozoic epoch, and if we associate that with the Industrial Revolution, which was intimately tied to the initial maturation of a science of physical chemistry (bounded by these ultra-short timescales), we can play with some interesting comparisons.

In the small: By the mammalian time unit, minimal actions and reactions of the living organism are measured in milliseconds; but by the scientific-cultural time unit initiated by the Industrial Revolution, the work of Dmitri Mendeleyev, and associated developments, the noëtic experience and action is moving to a convergence upon the temporal domain of femtoseconds.

In the large: This initial phase of the psychozoic epoch (as measured since the Industrial Revolution) was a few hundred years in length—while geological epochs are generally measured in tens of millions of years.

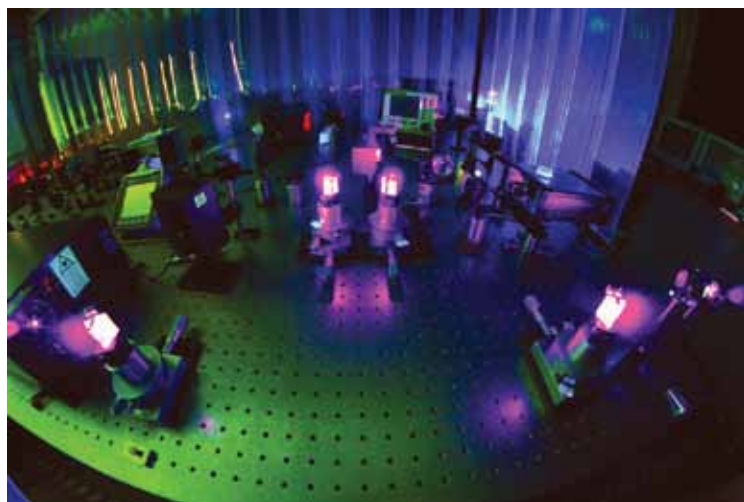
Thus, noëticly inhabiting a temporal domain bounded 12 orders of magnitude beyond the domain of animal time, enables mankind to inhabit timescales 5 orders of magnitude longer than would be possible for an individual animal species—indicating that mankind's occupation of new supra-mammalian timescales expands in two directions simultaneously (into the very short and the very long).

Ultimately, the spatial and clock conceptions of very large and very small are determined by advances in energy-flux density and physical chemistry⁹—i.e., time (as

9. Perhaps another interesting reflection of this is that the power sources supporting this stage of mankind are the chemical hydrocarbon formations of coal, petroleum, and natural gas. As these were formed and developed (by living matter) over geological timescales, measuring in the millions of years, we again see an expression of man encompassing and

FIGURE 2

Femtosecond Laser and Pulse Compressor—Optics Lab INRIM (Istituto Nazionale di Ricerca Metrologica)



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well as space) is a shadow of human creative action, as measured by energy-flux density and physical chemistry: a scientific-cultural stage defining the noetic time unit.

The Stellar-Atomic Eon and the Solar System

We have already entered into the beginning of a more powerful domain—that of controlled nuclear reactions. On one end, this domain is characterized by supra-chemical timescales. Mankind is now developing laser systems which, utilizing femtosecond pulses (**Figure 2**), can interact with matter faster than thermal reactions, and even laser pulses measured in attoseconds (a thousand times smaller than femtoseconds), used to observe the process of individual chemical reactions, and approaching the “atomic unit of time” (24 attoseconds),¹⁰ which is used as the standard time unit for work in nuclear physics, the domain of the creation and transmutation of elements, and the source of nuclear power.

On the other end, the nuclear age can support a

wielding the power of geological time over a few hundred years (in the rate of utilization of these hydrocarbon fuels) to power this geological force of mankind.

10. The 24 attosecond value is determined by the equation h/E_h , with E_h being the atomic unit of energy, equal to: $m_e 4/(4\pi\epsilon_0 \hbar)^2 = a^2 m_e c^2$. Here we should stress that we have no understanding of the true nature of matter, energy, space, and time in these scales. The work of Dr. Robert Moon, on a Keplerian harmonic approach, might prove to be one of the better avenues to pursue (examining harmonics of interaction, rather than particles in space).

major increase in the potential relative population density, increasing the scale of mankind's biogeochemical power as a geological force. What geological timescale will this correspond to? Perhaps to a new period, or a new era, subsuming the scale of the epoch referenced by Vernadsky?

A clue may come from recognizing that the organized structures of the atoms utilized by nuclear reactions were not formed on the Earth, or in the Earth's geological timescales. They are not associated with the terrestrial biosphere in the same way that many of the chemical structures utilized by society are. According to standard textbook presentations, the heavy elements that are split apart in nuclear fission power systems were formed by successive generations of large stars burning through their life-cycle and then exploding in novae or supernovae.

While any one large star may do this over a few hundred million years, the distribution of heavy elements throughout the Milky Way was built up over generations of stars, over billions of years. (If we take the Milky Way's current age estimate of 13 billion years, then there were 8.5 billion years of stellar generations producing the raw material from which the Solar System formed 4.5 billion years ago.) Regarding the lightest elements, such as those used in controlled thermonuclear fusion, they were either produced in stars, or trace their origins farther back.¹¹

Thus, whereas the utilization of chemical fuels, and the associated stage of physical chemistry (to support an associated level of potential relative population density), are mankind's expression of the power of multi-million-year geological time, the utilization of atomic power, to support a higher level of potential relative population density and the associated greater geological power expressed by mankind, may be ultimately bounded by the conscious control and wielding of billions of years of stellar time.

Today, in experimental investigations of controlled thermonuclear fusion reactions, mankind can already create temperatures, densities, specific luminosities, and energy-flux densities greater than those of the Sun itself



NASA/ESA/HEIC and The Hubble Heritage Team (STScI/AURA)

A Hubble Space Telescope image of the nearby supernova remnant Menager, part of a star-forming region in the Large Magellanic Cloud, an irregular galaxy 160,000 light-years from the Milky Way galaxy, visible from the Southern Hemisphere.

(although only for brief intervals, for now). Through transmutation, mankind can create new elements and isotopes, which don't otherwise exist in the natural world around us, and the controlled use of specific isotopes opens up completely new domains of chemistry.

The temporal aspect of this noëtic expanse is expressed in another interesting way. With the understanding of atomic processes, radioactive dating enables mankind to understand geological, planetary, and Solar System processes, and to use this understanding to inform his actions, consciously applying the power of geological timescales to the day-to-day lives of individuals. It is mankind acquiring the temporal powers of stellar-planetary processes in the large, and atomic processes in the very small, both alien to biological time, and actively applying their bounded interconnection to self-define a higher order for mankind's relation to the Universe (a higher potential relative population density), in seeming violation of a vast sense perceptual separation.

Here, we are approaching the *time of principle*, rather than sense-perception. I believe Nicholas of Cusa, the founder of the Golden Renaissance, would agree that the notions of "the large" and "the small," per se, are secondary to the power of creative action¹²—that power is the primary, determining consideration, while

11. To "Big Bang nucleosynthesis," by the popular theory today, or perhaps to some more scientific paradigm-shaking ideas implied in some of the evidence presented by the late astronomer Halton Arp.

12. *De Docta Ignorantia*, Nicholas of Cusa, 1440.

sense-perceptual conceptions of large and small are mere shadows.¹³

In this way, mankind is clearly supra-biological, with the noösphere inhabiting and wielding the action of the planetary-chemical domain, and entering into the principle of the stellar-atomic. Mankind, when as principle, creates and defines time.

A Needed Inversion

To better understand this, we have to recognize that the language in which these measures has been discussed up till now has been largely backwards. In measuring mankind against animal life, measuring mankind against the planet, against the Solar System, etc., we have approached the truthful, but only as shadows. We are measuring the *effects* of mankind, by measuring mankind's actions *as seen against various other processes of development in the universe*. These can be useful pedagogical measures to a certain degree, but they never can be truthful measures for mankind.

Much of the language here should be inverted. From serious reflection upon the evidence presented above, we are left to conclude that we have to look to mankind as setting the measure of any system inhabited (not being measured by it). For example, the emergence of the noösphere as a more powerful force than the biosphere can be seen in shadows, by measuring what the noösphere does, relative to the actions of the biosphere, as by the biogenic migration of atoms and biogeochemistry.

However, the scientific reality is that that demarcates the point at which *the biosphere must be measured by the criteria and requirements of the noösphere*. They are not separate systems. Mankind and the noösphere exist in the medium of the biosphere, but now, that medium is governed by the principle of mankind. Once the noösphere had truly encompassed the biosphere, the actions of mankind are inseparable from the development of the biosphere, and the metrics of the noösphere (mankind) take over.

As Lyndon LaRouche wrote in the concluding section of his 2014 policy memorandum, “The [Four New Laws](#) To Save the U.S.A. Now! Not an Option: An Immediate Necessity”:

Man is mankind's only true measure of the history of our Solar System, and what reposes within it. That is the same thing as the most honored meaning and endless achievement of the



Beijing Institute of System Engineering

“The biosphere and the Earth’s crust exist in the medium of the Solar System process, and we are poised to bring a new principle to reign over that medium.” Here, the Chinese Chang’e 3 lander and rover on the Moon (artist’s rendering), December 2013.

human species, now within nearby Solar space, heading upward to mastery over the Sun and its Solar System, the one discovered (uniquely, as a matter of fact), by Johannes Kepler.

As LaRouche stated, today we are looking at a new stage: the entry of mankind into the Solar System. Not in terms of placing some people or objects in certain locations, but in terms of the process of the noösphere overtaking and subsuming the process of the Solar System. The biosphere and the Earth’s crust exist in the medium of the Solar System process, and we are poised to bring a new principle to reign over that medium.

We can already look to short-term prospects for management and control of the Earth’s global water system, and controlled thermonuclear fusion reactions, as provocative precursors. Looking farther, the prospects of China developing the Moon; the U.S.A. and Russia managing the system of the near-Earth asteroid population; continuous acceleration-deceleration fusion space propulsion; and the development of other planetary bodies, provide further clues to a new stage of mankind.

Still, these will be shadows cast in the medium, dancing to the process of principle, which is mankind in the Solar System—just as Kepler taught us. It is only the supra-biological time of human creative mental action which defines these boundaries in potential, waiting to be realized in actions. Today, although very humble, and shaky in its beginnings, we can begin to look beyond a terrestrial noösphere, to a solar noösphere.

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13. A more accurate measure is energy-flux density.

Editorial

EIR Releases ‘The New Silk Road Becomes the World Land-Bridge’

EIR’s comprehensive study of the progress of the Eurasian Land-Bridge project which Lyndon and Helga LaRouche have championed for over 20 years, has now been completed. The official release date is Dec. 1.

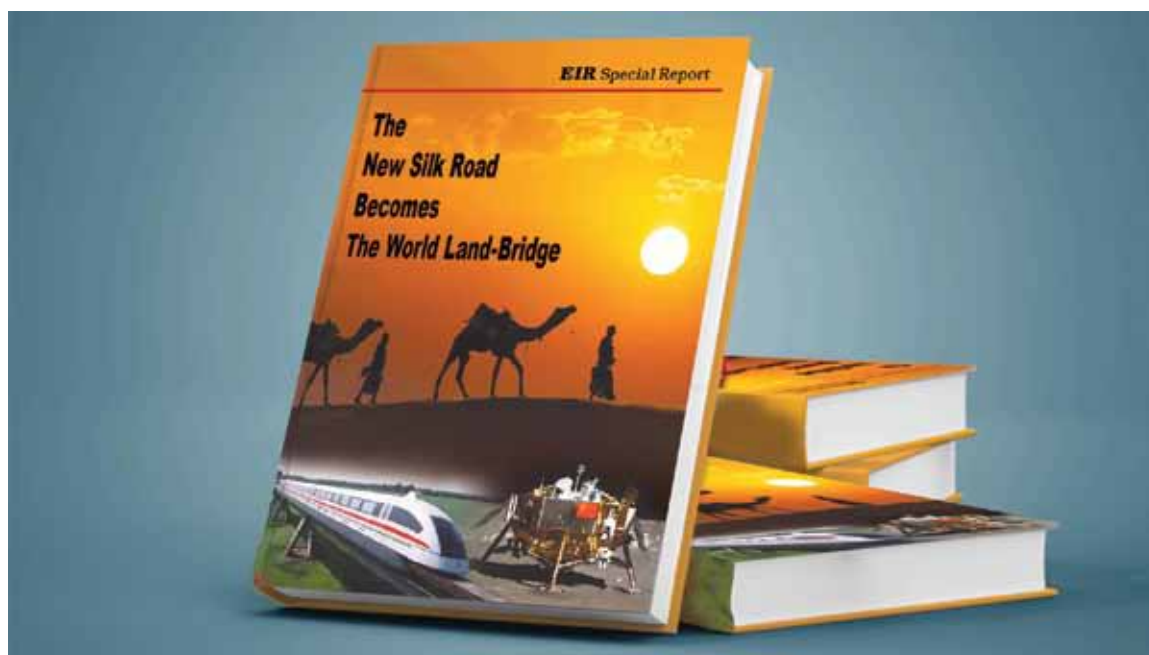
The 374-page report, entitled “The New Silk Road Becomes the World Land-Bridge,” is nothing less than a conceptual, and often physical, “road-map” to a New World Economic Order. This path is currently being charted by the nations of the BRICS—Brazil, Russia, India, China, and South Africa—which are leading a dynamic of global optimism toward real economic development, complete with new credit institutions and major high-technology projects for uplifting all mankind.

After an introduction by Helga Zepp-LaRouche, the report lays out the “Metrics of Progress,” based

on the economic-scientific principles developed by renowned physical economist Lyndon LaRouche. It then proceeds region by region, beginning with China and Russia, to present the stunning progress, and plans, which have been made toward the Eurasian Land-Bridge design that the Chinese government laid out in 1996, and other nations have begun to rally around in recent years.

The full table of contents is available on the [LaRouchePAC website](http://LaRouchePAC.com).

The report, complete with many full-color maps of its featured development corridors, is now available in [pdf format](#) for \$200, and will soon be available in hard copy, for \$250. It puts before the world the vision mankind so desperately needs: a program of worldwide collaboration around the common aims of mankind.



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