

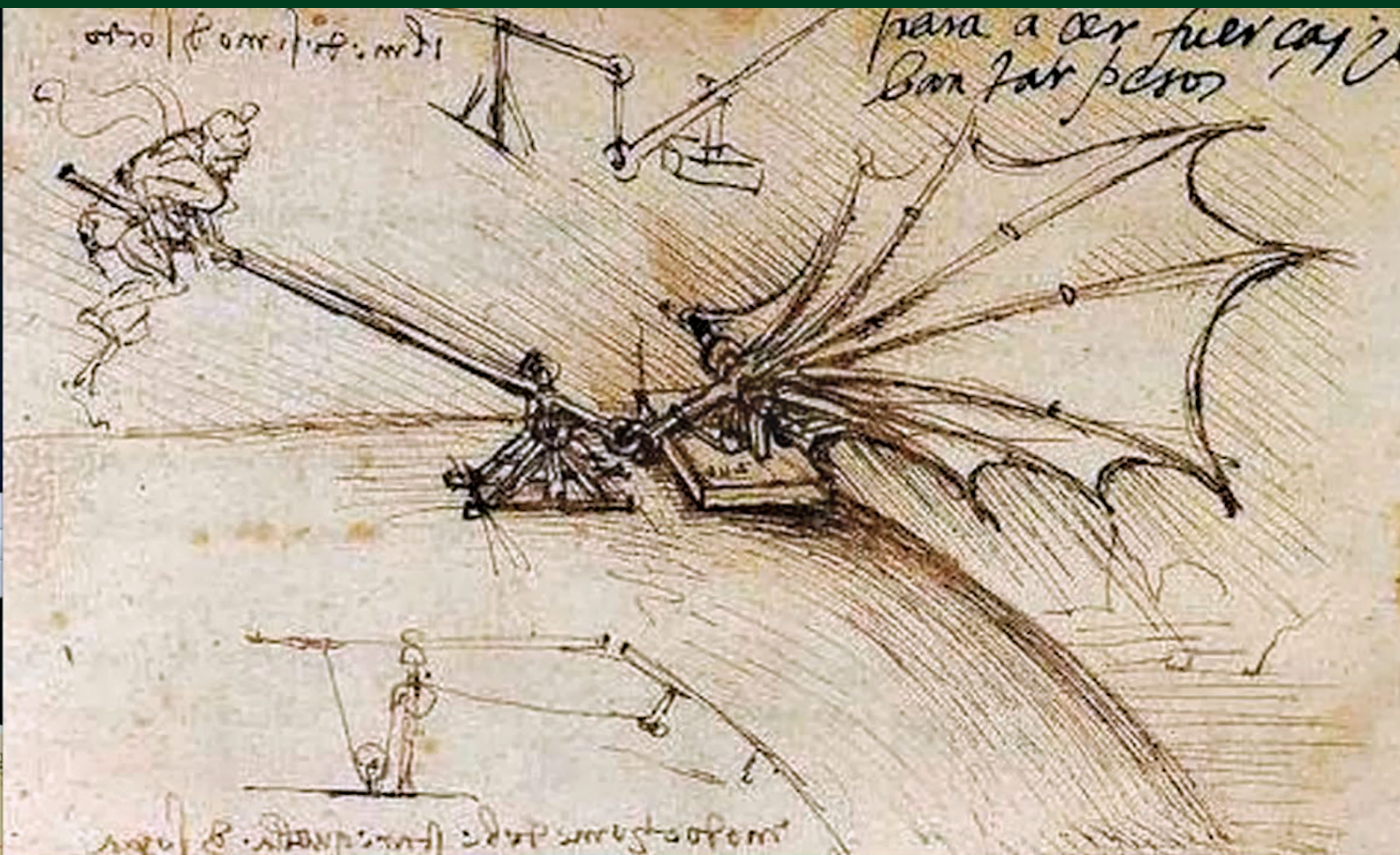
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Face the Facts: Obamacare Means Genocide
Anglo-Saudi Hysteria Mounts over Syria, Iran Diplomacy
Is Asia Taking the Lead in Space Exploration?

Art, Science &
Sense Perception



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ON THE WEB

e-mail: eirns@larouchepub.com
www.larouchepub.com
www.executiveintelligencecivereview.com
www.larouchepub.com/eiw
Webmaster: John Sigerson
Assistant Webmaster: George Hollis
Editor, Arabic-language edition: Hussein Askary

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P.O. Box 17390, Washington, D.C. 20041-0390.
(703) 777-9451

European Headquarters: E.I.R. GmbH, Postfach
Bahnstrasse 9a, D-65205, Wiesbaden, Germany
Tel: 49-611-73650
Homepage: <http://www.eirna.com>
e-mail: eirna@eirna.com
Director: Georg Neudecker

Montreal, Canada: 514-461-1557

Denmark: EIR - Danmark, Sankt Knuds Vej 11,
basement left, DK-1903 Frederiksberg, Denmark.
Tel.: +45 35 43 60 40, Fax: +45 35 43 87 57. e-mail:
eirdk@hotmail.com.

Mexico City: EIR, Calz de los Gallos 39 interior 2,
Col Plutarco E Calles,
Del. Miguel Hidalgo, CP 11350,
Mexico, DF. Tel 5318-2301, 6306-8363, 6306-8361

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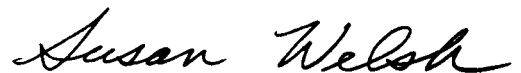
From the Managing Editor

President Franklin D. Roosevelt reflected in 1941 on how his Social Security system was constructed: “We put those payroll contributions there so as to give the contributors a legal, moral, and political right to collect their pensions and their unemployment benefits. With those taxes in there, *no damn politician can ever scrap my Social Security program.*” Or so he thought. After all, the funds you pay into Social Security (and Medicare), deducted from every paycheck you receive, are supposed to be there for you when you get old; they are not part of a “kitty” that “damn politicians” can grab to pay the bills. But FDR didn’t reckon with the Obama Administration and the 113th Congress.

In the aftermath of the government shutdown and with the beginning of Obamacare on Oct. 1, the way is paved for Hitlerian cuts in health care and Social Security. Our *Economics* section provides a fact sheet on the destruction of health care, as well as EIR’s testimony to Congress in 2009, warning of what would happen. In *National*, we report on the drive to kill off the elderly, by dismantling the Social Security system, on Wall Street’s orders.

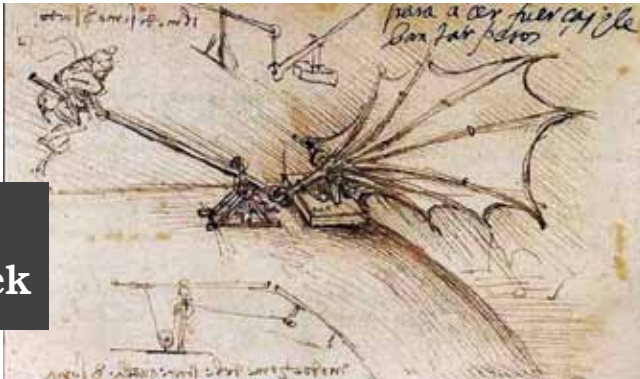
Much of the rest of this week’s issue is composed around the theme of LaRouche’s *Feature*, “Art, Science & Sense-Perception.” Denouncing the prevalent epistemology that relies on sense perception and “practicality” rather than creative imagination, he writes, “Creation works as if from above: creation is, actually, nothing less than the uniquely human prescience and passion of the actual future!” And a truly human existence “proceeds as if from action on the future, toward what had been a view from one’s re-examination of the past.” We also include a discussion of the concept of the energy-flux density plus a review of a recent exhibit on the work of that greatest of all non-“practical” artist/scientists, Leonardo da Vinci, whose work appears on our cover.

In *Science*, we report on the 64th annual International Astronautical Congress, held in Beijing. Exciting space exploration achievements and plans were reported by notably Chinese, South Korean, and Indian specialists, in stark contrast to the unfortunate lack of participation by the United States and Russia.



Cover This Week

Drawing by Leonardo da Vinci of a device for testing the beating of wings in a flying machine.



41 Art, Science & Sense-Perception

Lyndon H. LaRouche, Jr., argues for the identification of a new, “fourth state” of maturation of human beings, the “transcendental.” “By ‘transcendental,’” he writes, “I am now indicating, as I often had in times past, for emphasis: the notion of the human individual identity, as no longer a prisoner of mere sense-perception; but, rather, that we need to emphasize the fact, that it is the specifically human mind which is the actually existent personality which must be properly associated with the notion of a human individual’s personality: the domain within which both science and Classical artistic composition combine, in effect, as noëtic: the only true ‘substance’ of the actually living human personality. Or, might we not say: ‘Soul?’”

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From the *21st Century Science & Technology* Special Report, “Nuclear NAWAPA XX1: Gateway to the Fusion Economy.”

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Testimony presented by *EIR* to the House Ways and Means Committee Hearing on Health Reform in the 21st Century, June 24, 2009.

National**20 Obama Says It: His Agenda Is To Cut Entitlements**

In his eagerness to come together with budget-hacker Republicans such as Rep. Paul Ryan, President Obama has shown his true colors as a tool of Wall Street and the British financial establishment. His target is to cut benefits for the elderly and the sick, under the excuse of dealing with a debt crisis whose real dimensions could only be dealt with through restoring Glass-Steagall.

23 Peter Peterson: Setting the Agenda for Obama's Killer Policies

Wall Street billionaire Peter Peterson's latest front group, "Fix the Debt," has declared war against America's elderly—a continuation of his decades-long fight to slash social expenditures on "useless eaters," i.e., the elderly, disabled, and poor.

International**26 Anglo-Saudi Hysteria Mounts Over Syria, Iran Diplomacy**

In the eyes of the Saudi royal family, Washington has committed a series of betrayals, from the ouster of Egyptian President Hosni Mubarak in January 2011; to the shift from a policy of military strikes against Syria to renewed Geneva negotiations; to the resumption of the P5+1 negotiations with Iran.

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At the 64th International Astronautical Congress in Beijing, the rapid pace of space development in Asia was in stark contrast to the lack of participation by the world's two space superpowers, the United States and Russia.

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To Reject Queen's Genocide, Impeach Obama Now

by Nancy Spannaus

Oct. 22—By no later than May 15, 2009, Lyndon LaRouche had identified the Obama health-care “reform” as a potentially impeachable crime against the U.S. Declaration of Independence and Constitution. In a short memo, he wrote: “The substantive issue is not only the substance of President Obama’s offense against the right to life, but the added odiousness of such conduct as his declared intention on account of both the identity of pursuit of that action to Adolf Hitler’s odious 1939 law, and the extensive proceedings conducted by the United States and other powers on precisely this account.

“Neither the U.S. Congress, President Barack Obama, nor a simple act of legislation can undo a principle of both the U.S. Declaration of Independence and U.S. Constitution.”

A month later, after President Obama went on national television to insist on rapid passage of his bill to slash “futile” health expenses for the old and the sick, LaRouche went further:

“President Obama is now impeachable, because he has, in effect, proposed legislation which is an exact copy of the legislation for which the Hitler regime was condemned in the post-World War II trials. It is an impeachable offense to propose such a thing in this time. With this statement from him, the President now deserves impeachment.”

That was over three years ago—and not only was the bill passed, but its murderous provisions have begun

to be implemented, with effects we have documented in part below. This President has carried out other impeachable crimes in violation of the U.S. Constitution, the most salient being the war against Libya without Congressional authorization, and the assassination of American citizens, without due process of law. Yet, despite all the screams of outrage, from all sides of the political spectrum, Barack Obama remains in office—and is clearly determined to carry out the Hitler genocide program embodied in his signature bill, the Affordable Care Act (“Obamacare”), if it takes a full dictatorship to do so.

Indeed, LaRouche’s *EIR* fully detailed the Hitlerian nature of this bill in testimony provided to Congress in June of 2009. They knew, or should have known.

It’s the System That’s at Stake

It is clear that the only way to derail this genocide plan is to remove the President from power, through Constitutional means, such as impeachment, or the “Nixon route.” The American people, in a rage against the assault on their living standards and future, are increasingly in support of that proposal. This rage will increase as Obama links up with Wall Street-controlled Republicans to demand cuts in Social Security.

But if the substance of Obama’s genocide policy is going to be stopped, what LaRouche called the “root of the matter” has to be addressed. For Obama is only a



“President Obama is now impeachable,” LaRouche declared, “because he has, in effect, proposed legislation which is an exact copy of the legislation for which the Hitler regime was condemned in the post-World War II trials.”

tool of the financial forces, centered in the Anglo-Dutch empire and Wall street, which have declared their intent to reduce the world’s population dramatically. If those forces remain in control, disaster will still be guaranteed.

As LaRouche put it in his Oct. 18 webcast:

“What the root is, is that the Queen of England, in her policy and the policy of her Dutch allies or partners, has actually decreed a campaign of genocide whose stated intention is to reduce the population of the planet Earth from 7 billion persons to less than 1. This program is now ongoing. Not only is this the ongoing program, but this is precisely the program doctored by Queen Elizabeth and adopted from the beginning of his Presidency by this character Obama.

“So Obama is actually an instrument of genocide placed in government with the aid of a lot of drug money from the British to back his career, especially near the Texas border and so forth. And this bum has been committed to that policy of genocide specified internationally by the Queen of England and her Dutch accomplices.

“This program is now fully in effect, and has been in effect since actually the beginning of the George W. Bush Administration. That has been the policy. It has also been implicitly the policy of the Bush family since Prescott Bush, who was the guy who bailed Hitler out, and made Hitler the dictator of Europe essentially. It

was done by the same group. So both of these factors—the Bush family from Prescott Bush, George H.W. Bush, and little Bush, and Obama—are all samples of this problem. So what we’re dealing with is, we’re dealing with an international, effectively global campaign, which has already virtually taken out the nations of continental Europe, which are virtually in the process of disappearing under a program which amounts already to genocide.

“What this means for the United States is that keeping Obama in the Presidency is condoning genocide. He should be thrown out of office now, under the proper procedure; get

him out of there so at that point we can save a lot of human lives.”

Glass-Steagall Too!

To permanently eliminate the power of the British financial empire, and its Wall Street extension—epitomized by such thieves as JPMorgan Chase’s Jamie Dimon—requires more than removing Obama. The *system* which controls him, as it did the Bush presidencies, must be destroyed. For that system puts the world not only on a course toward depopulation and death, but a thermonuclear confrontation between the U.S., and Russia and China, which virtually no human beings will survive.

The destruction of that system starts with cutting off the predator banks by implementing Glass-Steagall, and then moving to reassert a system of sovereign government credit creation, focused around great projects led by space exploration.

LaRouche gave the marching orders to American patriots in his Oct. 21 discussion with the LaRouchePAC Policy Committee.

“Throw Obama out now! He’s utterly impeachable. Get him out of office! And let us go ahead with Glass-Steagall, and by using Glass-Steagall as a vehicle not only for economy, but for international policy, we can save this planet from that kind of horror, *and that’s what we have to do.*”

Face the Facts: Obamacare Means Mass Murder

by Marcia Merry Baker

Oct. 21—The United States was suffering from a crisis in health care when President Barack Obama came into office. As a result of the deindustrialization of the U.S. economy, the privatization of health care into profit-making ventures, and deregulation, both the health-care system and the health of the American population were rapidly deteriorating.

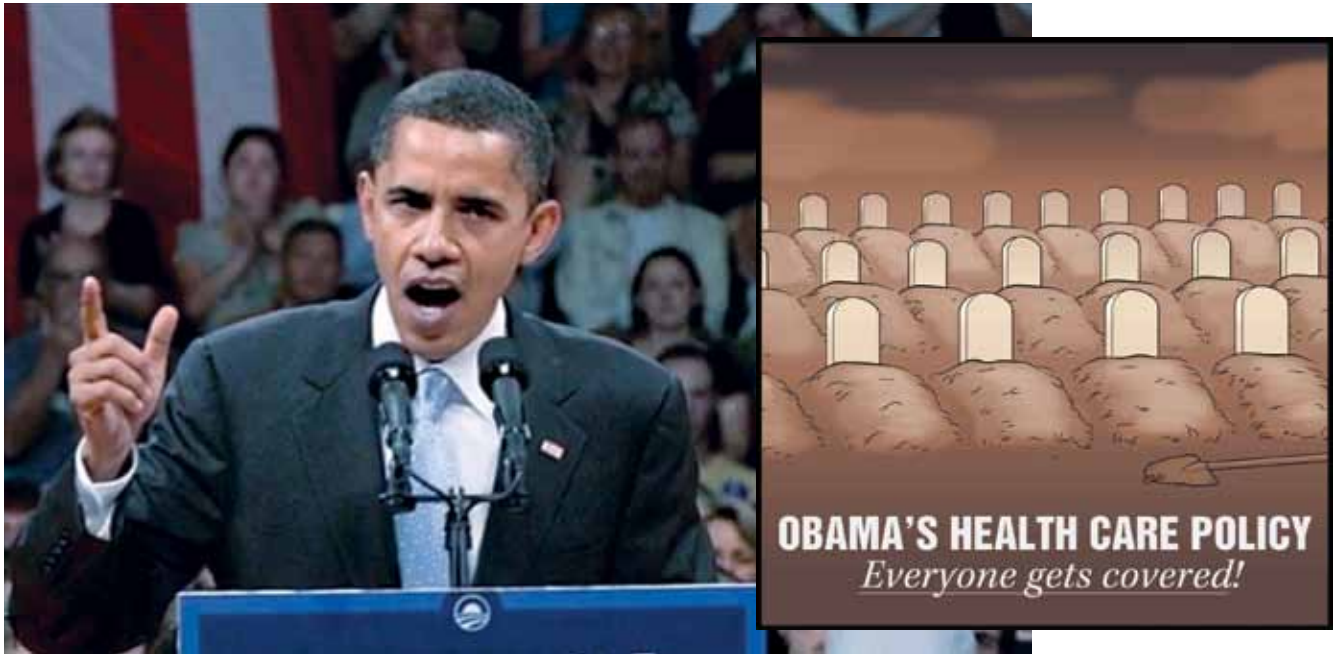
Obama's health-care program, however, has made the situation much worse. If allowed to continue, it will turn the U.S. government into the enforcer of a worse-than-Hitler genocide machine.

In other locations, *EIR* has provided in-depth examination of the Nazi premises behind what is called Obamacare. Here we restrict ourselves to a presentation of crucial facts which show that such Nazi measures are already underway and leading toward mass death.

I. Provenance: Hitler's T4

1. Hitler T4 Health Care. In October 1939, Adolf Hitler issued his official directive on selectively putting people to death, which was already underway in Germany against handicapped children and concentration camp inmates. It was titled, "The Destruction of Lives Unworthy of Life." It arose from a prior meeting he held with medical professionals, to review "criteria" for practical and cheap methods of removing people deemed to be "unrehabilitable," and thus burdens on the nation.

Hitler's directive was administered from Berlin headquarters at No. 4 Tiergarten Strasse, where the Reich Work Group of Sanatoria and Nursing Homes began by conducting surveys of patients nationwide, designating who was not worthy to continue to live. They were put to death; the principle came to be applied



President Obama's Nazi health-care plan is designed to cut costs and lives. It was never intended to provide medical care, as advertised.

on a mass scale through the gas ovens at concentration camps.

2. Tony Blair's T4 Health Care. In Britain, on April 1, 1999, the first initiative was taken by the Blair government (1997-2007) in the name of health-care "reform," to institute an updated version of the Hitler T4 program: The **National Institute for Health and Clinical Excellence (NICE)** was formed, to dictate what treatments would, and would not, be given to designated groups of patients in the British **National Health Services (NHS)**, which had served the nation since the 1940s.

Blair's health advisor to set up NICE, Simon Stevens, then moved to take down the NHS system, by privatizing key functions, in particular, through the private insurer **UnitedHealth Group UK**, which Stevens joined.

The record shows how the death rate has climbed for whole classes of Britons, especially the elderly and cancer patients, as a result of both NICE barring treatments, and the NHS being dismantled. For example, as of 10 years after NICE went into effect, only 40-48% of British men diagnosed with cancer survived, and 48-54% of British women; in stark contrast to Sweden, for example, where 60% of men and 61% of women survived after a cancer diagnosis.

The particular program put into effect to speed up death rates was called the **Liverpool Care Pathway for the Dying Patient (LCP)**. According to extensive exposés in the British press during the 2000s, participating NHS hospitals were offered financial inducements to put patients deemed to be at the end of life, on the LCP list, under which all treatment is discontinued, and even water and hygiene removed. The LCP started for cancer patients in Liverpool in the 1990s, with royal patronage; by 2012, it involved 178 NHS hospitals throughout Britain, and included patients with any illness. On average, 130,000 persons a year were put under LCP, based on the claim of saving medical resources, which, as of 2012, had rewarded hospitals with at least \$40 million. An estimated 60,000 people on LCP died yearly, without having given their consent to discontinue care. After storms of protest, the U.K. government, in July 2013, ordered the LCP to be phased out over the next 12 months.

3. Obama's T4 Health Care. In 2009, the Blair/Hitler health concept was launched in the United States by the new Obama Presidency, as a campaign under the euphemism of care "reform," just as Blair had done in

Britain. The Obama drive culminated in the March 23, 2010 **Patient Protection and Affordable Care Act (ACA)**. Leading up to this were 18 months of intense propaganda, including 30 hearings and roundtables, under the cynical slogan that, under Obamacare, all Americans will get "access to care" through access to insurance.

In reality, the ACA law is made up of measures to cut care, destroy the means to deliver it, and to perpetrate death. At the same time, private Wall Street insurers get Federal subsidies.

Key figures in bringing about the ACA—including several with direct involvement in the British health system—have explicitly expressed the T4 principle, that there are "lives not worthy" to continue.

Dr. Ezekiel Emanuel, a longtime advocate for this Hitler health view, was appointed by Obama in early 2009, as the health advisor to the Office of Management and Budget (OMB). In April 2009, he was put on the new Federal **Coordinating Council on Comparative Effectiveness Research**, to devise rationalizations for cutting medical treatment. In particular, Emanuel stressed that the Hippocratic Oath caused "over-use" of medical resources, which must stop.

Peter Orszag, Obama's first head of OMB, promoted the panoply of Hitler health arguments and mechanisms. He is considered the leading architect of the **Independent Payment Advisory Board (IPAB)**—the analog to NICE, which was quickly dubbed Obama's "death panel." Orszag advocates cost-benefit analysis to determine whether medical treatment is warranted for a person. He backs the statistical "**Quality Adjusted Life Years**" (**QALY**) metric for whether it is worth it for a person to continue to live. Orszag's London collaborator, **Sir Michael Rawlins**, head of NICE, pumped the QALY formula in a *Time* interview March 27, 2009, saying, "A QALY scores your health on a scale from zero to one: zero if you're dead, and one if you're in perfect health. You found out, as a result of a treatment, where a patient would move up the scale," and you decided, based on how much a year of life is worth in dollar terms, whether to permit it or not, based on whether it takes too much away from society's scarce resources.

Moreover, Orszag holds that, even if you are not sick, but are living "excessively long," he advises that you should have your Social Security "adjusted" (i.e., reduced), according to a statistical formula he backs, called the "Longevity Index."



EIRNS/Joanne McAndrews

Obama's OMB director Peter Orszag was the architect of the "death panels," known officially as the Independent Payment Advisory Board (IPAB). Shown: LaRouchePAC organizing in Philadelphia, May 2009.

Simon Stevens, Blair's Hitler health operative, who re-located from the U.K. to the United States in 2007, personally advised the Obama White House on how to shape the new health law. In May 2009, he presented a report titled "Reducing Avoidable and Inappropriate Care," saying that \$520 billion can be "saved" in the first 10 years of a new reform act, by cutting services to non-worthy people, especially the old. Stevens is the Medicare expert at **UnitedHealth Group**, the largest HMO in the United States (70 million policies).

Sir Donald M. Berwick, knighted by Queen Elizabeth for his work on NICE and on "reforming" the British NHS, was given a recess-appointment by Obama on July 7, 2010, to be administrator of the **Centers for Medicare and Medicaid Services (CMS)**. As such, he was responsible for initiating T4 policies in programs affecting 49 million older Americans on Medicare, and

48 million poor, disabled, and dependent, on Medicaid. He stayed in office as long as his recess-appointment tenure would allow, leaving in December 2011, to avoid the scrutiny that would ensue in a Senate confirmation hearing.

While in office, he moved to strike certain cancer drugs from approved Medicare reimbursement; to set up ways to financially penalize hospitals for "over-treating" patients; and to limit physicians by imposing financial penalties and pushing top-down "evidence-based" medical practice dictates. He was followed in office by **Marilyn Tavenner**, a technocrat for Obamacare with a pedigree as top executive at **HCA**, the mega-for-profit hospital chain, benefitting from the takedown of the traditional community hospital system.

II. Context: Poverty, Illness, Degraded Hospital System

The ACA measures are being imposed as the final health-care "solution" to the poverty, illness, and suffering already underway as of 2010, and now far worse.

1. Impoverishment. Of the U.S. population of 314 million, roughly 135 million are working, but 20 million of those are working only part-time, and more than 50 million (inclusive of most of the 20 million) have work defined as low-wage (twice the poverty line or lower). Fifty-two million people are in households defined as poor (\$22,000 or less income for a family of four); this is the highest number of people ever. The number of people living in "deep poverty," represented by an impossible \$11,000 annual income for that family of four, has jumped to 20 million—1 in 15 Americans.

Some 50 million are forced to use food stamps to feed themselves and their families; and 50-80% of public school students in 20 Southern and Western states are poor, and rely on discount and free meals through the school-lunch programs of the Agriculture Department.

In the official, understated jobless picture: 11.8 million Americans are unemployed; 8.8 million are forced to work part-time; 4.5 million eligible workers have left the labor force or, coming of age, never entered it. This is 25 million eligible workers who need, but do not have, full-time work.

Due to actual inflation as defined by major catego-

ries of the market basket of living, in government statistics, the lower-income 60% of the population has experienced a drop of 10-15% in its real income since 1999. The fourth quintile has somewhat more than broken even, and the top 20%'s real income has doubled. Another measure of this for the lower 60%: Their actual average income is \$500 more per household than in 1999; their actual expenses of living are \$5,000 more.

The ratio of the total population employed is at a four-decade low, 52.4%. For young people aged 18-34, the ratio of employed has fallen from 84% in 2000 to 72% in 2012.

But if one subtracts self-employment, and takes Americans employed full-time by an employer not themselves, that ratio is down to 43.4%. According to a Gallup survey, it has fallen by 5% since 2010.

As to "saved" wealth (mainly houses), more than 90% of the households in the country have less wealth than they had in 2008.

2. Desperation: Suicide Rate. The U.S. suicide rate has skyrocketed. The rate at which Americans between 50 and 64 years of age kill themselves rose 45% between 1999 and 2010, according to the **Centers for Disease Control and Prevention (CDC)**. Women aged 60 to 64 had a rise of 60%; and men in their 50s had a rise of 48%. The CDC researchers point out that these citizens are being squeezed under impossible pressures of lack of means to care for themselves, their elderly parents, and their own children, also hit by economic crisis.

3. Disease, Death Rates Rising. Sickness and mortality rates are increasing for cohorts of the population who are poor, jobless, and with no future. Many illnesses are associated with increased accident rates, obesity, malnutrition, parasites, drug and alcohol abuse, and other factors of despair, plus lack of medical treatment.

Add to this, the increased diseases associated with globalization and decline in public health services.

The CDC, in September, sounded the alarm about the increase in drug-resistant bacteria, in a 114-page report, **Antibiotic Resistance Threats in the United States 2013**, giving particulars for 18 microbes. Two million Americans—at the very least—are affected by one or more of the prevalent microbes each year, with at least 23,000 deaths from the infection.

Consider food-associated illnesses. Forty-eight million Americans—one in six—are each year get food-borne illnesses; 128,000 are hospitalized and

3,000 die, as reported by the CDC. A high percentage of the microbes come in food imports, which now supply 15% of U.S. food consumption overall, and much higher percentages for particular types, e.g., seafood (85%).

Even crude vital statistics for the county level, show that U.S. life expectancy is declining for millions of Americans. The July 10 issue of the **Journal of the American Medical Association** ran coverage titled, **"The State of U.S. Health,"** showing that in 1,405 counties (mostly in the South, Western tribal lands, and Appalachia)—which is 45% of the total number of 3,014 counties in all 50 states—female life expectancy remained static or declined from 1985 to 2010. In 72 of these counties, the decline was very significant—over two years or more. The same for men in poor counties. If you were born a male in McDowell County, West Virginia, in 2010, your life expectancy is 63.9 years. (The analysis covers all counties; and a set of 291 diseases. See healthmetricsandevaluation.org)

4. Safety Nets Fail: Medicaid. There are now more than 51.5 million Americans on Medicaid, the Federal program—run in conjunction with states—enacted in 1965, as a safety net to see that people who lack means for necessities—temporarily, or for reasons beyond their control—have medical care. Moreover, this roster of one in six Americans who are so poor as to qualify for Medicaid, does *not* represent the extent of low-income persons who need help, because in recent years, most state governments have imposed ever-stricter enrollment requirements, to try to keep down the numbers. Over the last 10 years, Medicaid expenditures overall grew 90%, and became, in many states, the foremost budget category.

Instead of seeing this as the reflection of the economic collapse, many Congressional delegations express their version of Hitler's health care, by opposing not only Obamacare, but also demanding cuts to Medicaid, in order to "cut the deficit" by cutting lives.

5. Hospital System Dismantled. Over the past 40 years of worsening economic conditions, the nationwide system of hospitals, which had been built up since the **1946 Hill-Burton Act (Hospital Survey and Construction Law)**, has been drastically dismantled. The advent of HMOs after the enabling act of 1973, and further deregulation allowing the predation by for-profit Wall Street hospital chains to take over or shut down non-profit local hospitals, drove the takedown.



EIRNS/Steven Carr

Starting with the creation of HMOS in 1973, thousands of non-profit medical institutions, like this health clinic in St. Louis, were shut down.

As of 1980, when the ratios of standard care (hospital beds and physicians per 100,000 persons) was the best, there were 5,810 community hospitals, spread over 3,000 counties, which provided 987,000 beds for 226 million people. But by 2011, the number of hospitals dropped 15%, down by 837 to below 5,000. The number of beds dropped by 20%, down by 189,000, to 798,000. Yet there were 85 million more people to care for. The national average bed-to-population ratio fell from 4.4 per 1,000 people in 1980, down to 2.6 per 1,000 in 2011, a 41% drop.

In the course of this, local, non-profit community hospitals have been taken over, scaled down, or shut, as a few mega-chains—many of them for-profit—are coming to dominate hospital care. This is another aspect of Wall Street crime. The hospital chains—six of the biggest are publicly traded—are positioning on how to profiteer, in the new corporatist ACA world.

6. Public-Health Takedown. Vital public-health services by the Federal government, states, and localities—from pest-eradication, to food-safety monitoring—have been cut back drastically in the last few years to try to “balance the budget” on Wall Street’s terms.

For example, Federal aid has dropped for the CDC division, **Epidemiology and Laboratory Capacity for**

Infectious Disease, down from around \$35 million yearly in the early 2000s, to \$10 million by 2012. Among many other things, this is the agency supplying resources for fighting mosquito-borne diseases, such as West Nile Fever, which surged back this Summer.

III. Obamacare Killer Measures

1. Shut Down Hospitals. The U.S. hospital-centered health-care system, already contracting, is now under assault from multiple Obamacare measures.

Overall, Obamacare identifies cuts of \$716 billion over 10 years in cuts to Medicare, as well as cuts in other programs. Much of this directly and indirectly hits hospitals.

- *Penalize readmissions.* Financial penalties against hospitals are in effect for their too-frequent re-admission of sick patients. Since October 2012, hospital rates of re-admission are reported quarterly and evaluated. A rate considered too high results in docking Medicare payments to the hospital. The cut is up to 1% in FY 2013; up to 2% the next year; and 3% thereafter.

On Sept. 30, 2013, the end of the first year of the **ACA Hospital Readmissions Reduction Program (HRRP)**, 2,225 hospitals were penalized a total of \$227 million, according to Kaiser Health news.

The intent was clear right from the start. As of the first quarter of the program, of the 3,282 hospitals in the HRRP, fully 66.7%, or 2,189 facilities, suffered a cut in Medicare payments. Teaching hospitals, which tend to have complex cases of elderly patients, and safety-net hospitals serving the poor, predictably have the most need for re-admissions: they are reeling from the cuts. HRRP will cut Medicare spending by \$8.2 billion from 2013 to 2019, say Obamacare statisticians.

- *Cut charity care.* Obamacare specifies cuts in Federal aid to hospitals, which has defrayed costs of treating the uninsured poor. Starting in 2014, Obamacare will cut what are called **Disproportionate Share Payments (DSP)**. The hospitals are to get \$22 billion

less over the current 10-year period, according to the American Association of Medical Colleges and the Commonwealth Fund.

- *Sequester cuts.* Some \$95 billion in other cuts in Medicare programs are underway, including the impact of the sequester, all of which are slamming hospitals, according to Caroline Steinberg, vice president for analysis at the **American Hospital Association**. In fact, a specific automatic sequestration cut has taken away \$45 billion from hospitals—more than double what the Obamacare DSP charity cut was.

- *Mass threat to rural hospitals.* In August 2013, the Obama Administration proposed a rule change to the **Critical Access Hospital (CAH)** program, which would shut down hospitals in rural areas en masse. There are currently 1,332 CAH hospitals nationwide, with potentially two-thirds in line for shutdown. The CAH system was set up in 1997 to curb closures of rural hospitals.

The way it has worked prior to the Obama proposed change, is that, under the CAH system, since 2006, state health officials designate which of their community hospitals—often in low-population-density areas—are critical to remain open and viable, to provide residents, in particular the Medicare-age bracket, the physical means to receive care. The criteria include that the facility not have more than 25 beds, that it be at least 35 miles distant from other hospitals, and other rubrics. These CAH facilities then get reimbursed by the Federal **Center for Medicare and Medicaid Services (CMS)** at 101% for their Medicare-related expenses, not at any lower Medicare reimbursement rates.

But in August, **Inspector General Daniel Levinson**, for the **Health and Human Services Department (HHS)**, issued a report declaring that hundreds of these CAH hospitals no longer meet the criteria. So states should no longer have the right to designate CAH facilities; the HHS/CMS should henceforth do so, and they will disqualify many such hospitals from adequate reimbursement. This will financially ruin hundreds of rural hospitals, and cut access to care for millions of people, whether or not they may have health “insurance.” Particularly vulnerable are Iowa with 82, and Kansas with 83 CAH hospitals.

2. Drive Out Doctors. Under various Obamacare measures, physicians are under financial pressure and subjective coercion to acquiesce to the intent of the ACA to cut care and lives. To begin with, two-thirds of

the doctors in the United States no longer practice medicine independently, but are now in the employ of other entities—groups and hospital systems—to the point that the American Medical Association, in November 2012, issued guidelines on how to cope with the “conflict of interest” involved—namely, where the physician wants to treat his patient according to the Hippocratic Oath, and the Obamacare system does not.

Only 36% of all U.S. practicing physicians own their own practice (in whole or in part), which is way down from 57% in 2000; and way below the 85% or higher in the 1960s.

Rural areas are desperate for physicians, and the threat to shut down Critical Access Hospitals is a threat to cut off all advanced care in these localities, in particular in the farm states, where counties have a high percentage of elderly.

The **Physician Value Based Modifier** program mandates that all doctors who see Medicare patients, as of 2017, will be paid by the CMS on a new basis of Federal judgment of the “quality” of their “performance,” instead of being paid according to the traditional reimbursement for actual treatment administered to patients. Physicians who are classified as “over-treating” will be financially penalized. There is a “bonus” system for doctors considered compliant. Obamacare foresees having 500,000 doctors now working in group practice, under this program by 2017.

The system is being implemented in phases, according to what the Obama Administration announced in July 2013:

Starting in 2015, group practices of 100 or more health professionals (doctors, nurses, technicians, social workers, etc.) will gain or lose up to 1% of their pay, depending on their rating. This will rise to 2% the following year.

Starting in 2016, mid-size physician groups (10 to 99 health professionals) will be offered 2% bonuses, and the first year free of penalties, to ease into the system.

Starting in 2017, the remaining physicians, in practices of 9 or fewer health professionals, will be phased in. The CMS estimates this will bring in 350,000.

A whole system of “quality” measures to rate doctors is pending, with differing factors for each specialty. All physicians and health staff will have to file reports on every case, which, in itself, will be an impossible burden for all but the large-scale practices

now taking over what's left of doctoring.

There is already an acute shortage of primary physicians everywhere, and certain specialties (such as obstetrics and orthopedics) from region to region. In the District of Columbia, out of 8,000 physicians licensed to work in the capital, only 453 are primary-care doctors who see patients more than 20 hours a week, according to a September 2013 report by the D.C. Board of Medicine.

3. Cut Diagnostics. Screenings and diagnostics for diseases and conditions, and the staff and facilities to conduct them, are being denied and reduced under Obamacare. One of the methods is the issuance of guidelines to cut back on preventive screening, by the U.S.

Preventive Services Task Force (USPSTF), a pre-existing agency in the Department of Health and Human Services. Private insurers, accordingly, move to implement the new restrictions. Just two examples show the thinking.

- *Breast cancer.* Within three months of the enactment of Obamacare, new guidelines were that women should get less frequent mammograms. This decree was made, despite the national concern for the fact that *mammography use was already declining* in the 2000s, the numbers of mammography facilities was decreasing, and doctors feared a rise of breast cancer mortality rates. As of 2009, 27% of U.S. counties had no mammography facilities at all, a pattern associated with poor and rural areas.

In May 2010, the USPSTF stated that screening mammography for women aged 50 to 74 should be every two years, not yearly; and for younger and older women, such screening should be less often, and decided on an “individual” basis only.

This went directly against the modern standard, recommended by cancer specialists, for women to have annual screenings at age 50 and above; and every two years for those 40 to 49.

Since the USPSTF decree, preventive mammography rates in women in their 40s have dropped nearly 6%, as of 2012 (Mayo Clinic study).

- *Upper age limits on screenings?* The Task Force



Walter Reed Army Medical Center/John Chew

Under Obamacare, high-quality medical care, such as that provided in the past by Walter Reed Army Medical Center (shown here in 2002), will be out of reach for millions of Americans.

is considering an upper age limit for screening mammography. In The Netherlands, women over 75 are not prohibited from mammograms, but they are no longer reminded to do it, despite the fact that breast cancer for elderly women is still a clinical concern, and treatment can extend their lives.

- *Prostate cancer.* In May 2012, the Task Force recommended against prostate-specific antigen (PSA)-based screening for prostate cancer.

4. Make Medicines Scarce. Obamacare, which empowers Big Pharma to effectively run part of the health system, has also given them virtual carte blanche over drugs. At present, they are presiding over a fast-worsening situation of medication shortages. This involves cancer drugs, sterile injectibles, certain antibiotics, and many other basics. For example, in recent months, the frontline drug for tuberculosis, INH (isoniazid), has been scarce.

This is the characteristic, not the exception, under the ACA. As of July 2013, supplies were short for 302 drugs, which is up from 211, at the same time in 2012.

5. Cuts to Home Health Care. CMS has issued plans to cut back many Medicare programs, for example, \$100 billion in cuts over 10 years to home health care, from the combined impact of new CMS proposals and cuts already underway. Nationally, 3.5 million seniors are lined up for a 14% reduction in Medicare home health payments, potentially losing the skilled

services on which they depend to live at home. The entire nationwide system of home health agencies is jeopardized by what CMS Administrator Tavenner calls her new plan to “re-base” the rates used to calculate funding for payments for home health care.

6. Basic Research Starved. Funding for public medical research at the National Institutes of Health has fallen 20% in the last 10 years. This holds throughout the nation, at Federal, state, and private centers, such as those working with the CDC. In particular, the pipeline is running dry for ways to treat drug-resistant microbes.

Instead, the priorities and grants for studies are concentrated in the control of Wall Street networks, through the **Bill & Melinda Gates Foundation** and the like. For example, the **Weill Cornell School of Medicine**, named for its financial patron **Sandy Weill**, former CitiGroup executive, is focusing priority research on “precision medicine”—the polite name for individual gene-profiling and custom-treatment for the elite. If you can pay, you can live.

7. IPAB: Cut Lives To Cut Costs, by Decree. The Independent Payment Advisory Board (IPAB) was authorized in 2010 under the ACA, in sections 3403 and 10320. Its purpose is to formulate specific cuts to medical care, mostly for those on Medicare—the old—to save money. Because of its infamous mandate, its 15-member board, which must be approved by the Senate, has not even been appointed so far. Unprecedented power is designated for IPAB, which is scheduled to go into effect in 2014. While the law is written to say that IPAB will not cut care according to costs, it will simply accomplish the same objective through application of the criterion of statistical “effectiveness,” and overall financial benchmarks for health spending. The Medicare program is under orders to implement whatever IPAB orders, unless those cuts are expressly overruled by a vote in Congress, which must be through a supermajority.

IPAB is modelled exactly on the 1999 agency created under the Blair government’s NICE, which has ordered cuts in treatment by the National Health System of Britain, resulting in a record of increased death rates since then.

8. Sign-Up Pretense. Only two weeks into the operation of the new online ACA markets for obtaining insurance, the drastic malfunctioning of the system, the rate of non-signups, and most of all—the fact that 5-9 million people are known in advance to be *disqual-*

ified for coverage—manifest how the process is a pretense.

The “disqualified” status hits those poor persons who make too little annual income to qualify for a Federal subsidy on an insurance policy from the exchange—specifically, less than 138% of the official poverty line; and too much money to qualify for Medicaid, relative to the poverty line rules in their state.

These people reside mostly in 26 states, 17 of which are in the South, where Medicaid has not been expanded under inducement of Federal financial incentives upfront, which are to be then cut back in three years. Both the White House and the respective state Congressional leaders have known all along about these categories of people.

Two national estimates have been done on how many people are in this category, based on census data, plus Obamacare and Medicaid rules:

A *New York Times* Oct. 2 report, titled, “Millions of Poor Are Left Uncovered by Health Law,” estimates that nearly 9 million are in a “gap” preventing them from receiving any insurance coverage. Obamacare “will leave out two-thirds of the poor blacks and single mothers, and more than half of the low-wage workers who do not have insurance...” (by S. Tavernise and R. Gebeloff).

A report Oct. 17 by the **Kaiser Commission on Medicaid and the Uninsured**, puts the national figure at 5.2 million Americans denied health insurance coverage. The study reports:

- *Texas.* More than 1 million people won’t have access to insurance.

- *Florida.* 763,890 won’t get insurance.

Also large numbers of uninsured under Obamacare are in Alabama, Louisiana, Mississippi, and South Carolina.

- *Tennessee.* Up to 220,000 won’t get insurance.

On the technical dysfunction of the exchanges, details are provided in the Oct. 12 *New York Times* report titled, “**From the Start, Signs of Trouble at Health Portal.**” A research team (R. Pear, S. LaFraniere, and I. Austen) summarized the analyses of many IT experts. The conclusion: “‘These are not glitches,’ said an insurance executive who has participated in many conference calls on the federal exchange.... Interviews with two dozen contractors, current and former government officials, insurance executives, and consumer advocates, as well as an examination of confidential administration documents, point to a series of missteps—fi-

nancial, technical and managerial—that led to the troubles.” In other words, planned failure is the name of the game. As the *Times* noted, “just a trickle of the 14.6 million people who have visited the federal exchange so far, have managed to enroll in insurance plans...” The Obama Administration refuses to say how many.

9. Penalize Trade Union Insurance Plans. Trade union members covered by multi-employer plans—referred to as the Taft-Hartley plans—are considered by the ACA as high-end insurance-policy holders, and as a class ineligible for usage and benefit from the new exchanges. An estimated 26 million U.S. workers fall into this group, according to the **National Coordinating Committee for Multiemployer Plans**.

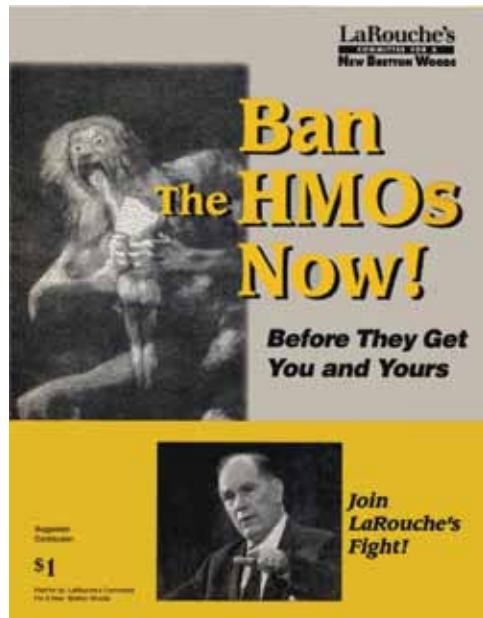
Additionally, in 2018, these types of insurance plans, among those dubbed “Cadillac plans,” are subject to a large new Obamacare tax.

10. Back Companies To Cut Workforce. Many companies and local government entities are cutting hours of employees to below 30 per week, to avoid the ACA mandate for providing coverage for all “full-time” employees, and making other kinds of downshifts. For example, **Trader Joe’s** and **Home Depot** are shifting part-time workers to the Obamacare exchanges.

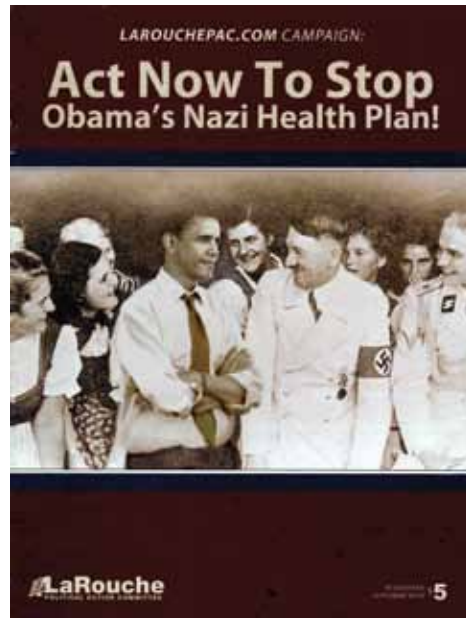
Smaller companies are socked by the “**Employer Shared Responsibility Payment**” Obamacare mandate, which, under pressure, was postponed a year to 2015.

11. Cost Shock. Insurance premium prices on exchanges vary by state, but cost shock is hitting online shoppers for various types of policies. For example, in some states, rates for large and small companies, which already have gone up an average of over 20% a year for the last three years, will now jump as much as 40% the first year (2014). These costs will be passed on to their workers.

12. Insurance Subsidies to Wall Street. Under Obamacare, the insurance mandate constitutes unpre-



The LaRouche movement’s battle against Nazi-style denial of health care, goes back decades. The pamphlet “Ban HMOs” was issued in May 2000; LaRouchePAC’s “Act Now To Stop Obama’s Nazi Health Plan” is from May 2009.



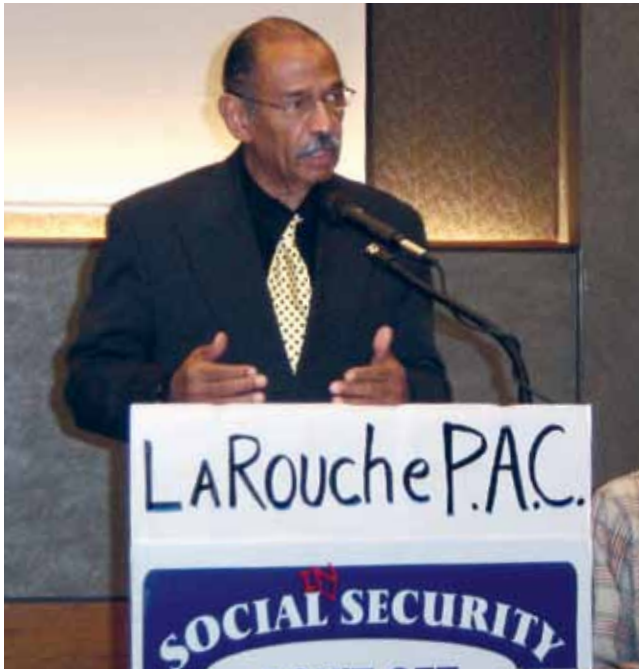
decented flows to the insurance wing of the Wall Street/London financial crowd. Dimensions of the matter were reported in *Forbes*, Oct. 1 by Robert Lenzer, who noted that the “value of the S&P health insurance index has gained 43% this year alone.” Among the major companies, **CIGNA** is up 63%, **Wellpoint** 47%, and **United Healthcare** 28%. Since the passage of Obamacare in 2010, the stock values of these big firms have risen 200-300%.

IV. What Must Be Done

1. The first step is to repeal the 2010 Patient Protection and Affordable Care Act. This must be taken in the course of Congressional action to restore the **Glass-Steagall** law of 1933, as the gateway for stopping the Wall Street crash process, and issuance of credits to rebuild the economy.

Glass-Steagall re-instatement bills are in both Houses of Congress: In the House of Representatives, **H.R. 129 (The Return to Prudent Banking Act of 2013)**, with 75 co-sponsors, which is in the Senate as **S. 985 (Return to Prudent Banking Act of 2013)**, filed by Tom Harkin (D-Iowa); and **S. 1282 (21st Century Glass-Steagall Act of 2013)**, filed by Elizabeth Warren (D-Mass.), with 9 co-sponsors.

Bills to repeal the ACA have been passed repeatedly in the House of Representatives. With passage in the



EIRNS/Sharon Stevens

Rep. John Conyers (D-Mich.) has introduced a bill in Congress, H.R. 676, to provide Medicare for all, which now has 51 co-sponsors. He is shown here addressing a LaRouchePAC town hall meeting in March 2005.

Senate, the corollary measures outlined below can proceed.

2. Initiate impeachment proceedings to remove Barack Obama from office, for the crimes inherent and on record, from the ACA.

3. Declare a moratorium on closures of hospitals, clinics, radiology centers, doctors practices, public-health and research laboratories, and other vital parts of the health-care-delivery system, pending review, and initiation of a new program to build up health-care delivery capacity to modern standards for all Americans.

4. Affirm and implement the principles embodied in the Hill-Burton Act, 42 U.S.C. 291 et seq., as the governing principles for U.S. health-care policy.

5. Launch new research initiatives for advanced medical, biological, and chemical research, in conjunction with a renewed drive for a nuclear-fission-based economy, and soon, a thermonuclear-fusion economic platform.

6. Activate anti-trust action throughout the health-care sectors, in which facilities and services have been taken over and dominated by extensions of Wall Street operations in pharmaceuticals, hospital care, group practices of physicians, research, and other matters.

Cancel the 1973 Health Maintenance Organization

authorization law, and nullify subsequent laws to the same effect. This means, repeal 42 U.S.C. Section 300c, et seq.

7. Examine and act on the best way to provide health care for all Americans, under the principle of the Preamble to the Constitution, “to promote the General Welfare.”

The “**Medicare for All**” act in Congress is current the foremost proposal to cut Wall Street out of looting health care and dictating death. It calls for instituting an insurance coverage system (called “single payer”)—different from that which worked in the pre-1970s/HMO period, but still aimed at seeing that everyone gets treated. Those under age 65 would be eligible for Medicare coverage; premiums and practices would be set accordingly.

In recent years, Medicare’s overhead costs amount to only 3% of its expenditures, in contrast to the 30% overhead under the Wall Street HMO insurance system, and the fake mandate under Obamacare, which asks insurers to limit overhead to 20%.

Rep. John Conyers (D-Mich.) has a bill, **H.R. 676 (Expanded and Improved Medicare for All Act)** in the current session of Congress, with 51 co-sponsors.

REVIVE GLASS-STEAGALL NOW!



“The point is, we need Glass-Steagall immediately. We need it because that’s our only insurance to save the nation.... Get Glass-Steagall in, and we can work our way to solve the other things that need to be cleaned up. If we don’t get Glass-Steagall in first, we’re in a mess!”

—Lyndon LaRouche, Feb. 11, 2013

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EIR Warned You in '09: ObamaCare Is Genocide; Here's What Must Be Done

Here is the testimony presented to the House Ways and Means Committee Hearing on Health Reform in the 21st Century, June 24, 2009, submitted by Rochelle J. Ascher for EIR.

EIR, the magazine founded by Lyndon H. LaRouche, Jr., has done an extensive study of the proposals for health-care “reform” being proposed by the Obama Administration. As a result of our research, we have determined that the fundamental premises of the program, as represented by OMB chief Peter Orszag, his health advisor Ezekiel Emanuel, and the President himself, are identical to those which underlay the genocidal program for eliminating the “unrehabilitable sick” in the Hitler regime. A historical review documenting this analysis immediately follows.

There can be no compromise with the premises of this program. If it is successful, it will lead to genocide, and not only in health care, since OMB Chief Orszag has already announced that after health care, he intends to “reform,” (i.e., slash) Social Security next. Thus, as the first step to reversing direction, the Obama health plan must be totally scrapped.

Instead, Congress must return to the policy laid out in the Hill-Burton Act of 1946, which mandated the provision of the necessary logistical foundation—in terms of hospital beds and personnel—to ensure adequate medical care for the U.S. population. The Hill-Burton approach was essentially dumped in 1973, when a bipartisan grouping in Congress endorsed President Nixon’s legislation beginning the establishment of Health Maintenance Organizations, the for-profit institutions which now control the bulk of the health-care provision for the American population. Under the HMO regime, the physical infrastructure required for the health of the American population has been slashed, and the quality of care as well.

Lyndon LaRouche has repeatedly led the charge against the HMO wreckers, and in support of an updated Hill-Burton approach. In 1992, the Democrats for Economic Recovery/LaRouche in '92 committee issued a 25-page pamphlet, “Solving the Health Care Crisis,” against the HMOs. In 1996, LaRouche led a campaign under the banner, “‘Managed Health Care’ Is a Crime Against Humanity.” In 2000, LaRouche’s political action committee issued a national 16-page dossier titled, “Ban the HMOs Now! Before They Get You and Yours,” providing draft legislation to revoke the HMO enabling acts. LaRouche has also endorsed the single-payer plan put forward by Rep. John Conyers, as coherent with his approach. Today, there can be no more delay. The Nazi-like plan of cost-cutting against “useless eaters,” which the President has put on the table, must be dumped, and the Hill-Burton approach adopted, without delay.

Hitler’s T4 Program Revived in Obama’s Health-Care ‘Reform’

In July of 1939, a conference of medical professionals was held in Berlin, Germany. Participating were the professors and chairmen of the departments of psychiatry of the leading universities and medical schools of Germany, many of them, the most respected professionals in their fields. The subject? What would be the criteria for determining which patients would be considered to have “lives unworthy to be lived,” and what was the most “practical and cheap” manner of removing them from being burdens on the health-care system—by death.

Thus, the bureaucratic machine began to be cranked up for what is known as Adolf Hitler’s program of genocide through “euthanasia,” a program which killed hundreds of thousands of non-Jewish Germans, and eventually, millions of Jews and non-Germans as well.

That program, which had already begun years before, against concentration camp inmates and handicapped children, was officially put into effect in October 1939, when Hitler penned his own personal, and secret, authorization for the program, under the title, “The Destruction of Lives Unworthy of Life”:

“Reichsleiter Bouhler and Dr. Brandt are charged with the responsibility for expanding the authority of physicians, to be designated by name, to the end that patients considered incurable according to the best available human judgment of their state of health, can be accorded a mercy death.”

To carry out this program, Hitler and his fiendish Nazi associates would fully utilize the “professional” apparatus which had been put in place, as well as the popular, British-eugenics-spawned ideology which had been increasingly dominant in Germany since Hitler had seized power with the aid of powerful British-Wall Street financiers. The killing would proceed with the utmost “cost-effectiveness” and professionalism, in order to save funds for the Nazi state’s preferred projects, and not waste them on “ineffective” medical treatments.

If that sounds familiar, it should. For the proposals which the Obama Administration has currently put on the table, follow them in virtual lockstep:

First, the “experts” decide what is “effective” care, with “cost-effectiveness” foremost in mind, ruling out “inappropriate” treatments.

Second, these standards become the law, in terms of what medical care will be paid for.

Third, other experts efficiently implement those decisions, through the existing hospital apparatus.

The result, as in Nazi Germany, is that millions are, with the stroke of a pen, consigned to death.

The T4 Program

The T4 program, which was established following Hitler’s secret order, took its name from its Berlin office address, Tiergarten 4, which address housed the coordinating organization for the program, the Reich Work Group of Sanatoriums and Nursing Homes. In charge were Philip Bouhler, chief of the Chancellory, and Dr. Karl Brandt, Hitler’s personal physician and chief medical officer of the land.

Their first task was to devise the questionnaires which would be used to categorize the targetted institutionalized populations. Four categories were specified:

1. Patients suffering from specified diseases who are not employable, or are employable only in simple mechanical work. These included schizophrenia, epilepsy, senile diseases, therapy-resistant paralysis, feeble-mindedness, and the like.

2. Patients who have been continually institutionalized for at least five years.

3. Patients who are criminally insane.

4. Non-German patients.

While including these categorizations, the questionnaire overall gave the impression of a rather neutral statistical survey, which also delved into the patients’ biographies, their financial situations, and the like. (See *EIR*, June 5, 2009, p. 12). It was accompanied by a questionnaire for the institution in which the patient was housed, which asked about staffing, beds available, and budgetary questions. A significant stress was also put on detailing the patients’ abilities to work.

The first questionnaires went out in October 1939, the month Hitler signed his order, to state hospitals, and other public and private institutions where mental patients, epileptics, the mentally retarded, and other handicapped persons resided. The responsibility for filling them out, often in a very short period of time, fell on the physicians at those institutions.

The questionnaires were then sent to panels of three or four psychiatric experts, who indicated their opinion about whether the patient (whom they had never seen, much less examined, and whose medical history they were unfamiliar with) was to live or die. Each “expert” made his or her decision independently, and passed on the questionnaire to the next. The choice for the experts was effectively only one of two options: a plus sign in red, which meant death; or a dash in blue, which meant life. Occasionally, a psychiatrist would put a question mark in the space provided.

The questionnaires were then sent to a chief expert, who passed the final judgment. At this “higher” level, there was no alternative other than life or death. In fact, the “senior expert” was not bound by the recommended decisions. From his judgment, there was no appeal. From that point on, it was merely a matter of sending back the decision to the relevant institution, where the final dispensation of the patient was carried out, and, if so ordered, sending him or her to one of the designated “killing centers.”

These centers were supervised by medical personnel, who oversaw the killing, and were responsible for

devising the fraudulent death certificates which were sent to the families of those who had been determined to have lives “not worthy to be lived.”

Councils of Experts

Shift now to today, where we are in the first phases of the Nazi euthanasia program (called “reform”) being promoted by the Obama Administration and its behavioral psychologist “experts.” It starts with the dictum that there are insufficient resources to provide medical care for all, especially those at the “end of life,” or not able to be “effectively” rehabilitated. In other words, the Nazi assumption that there are lives “not worthy to be lived” (or, not worth spending our money on, if you will), at least according to the priorities for spending which the Administration has set—i.e., the banks must be saved first.

The second step is for the Administration to set up those “panels of experts” who will determine the criteria for who will get medical care, and who won’t. Already, the so-called Obama stimulus package has created one such panel, the Federal Coordinating Council for Comparative Effectiveness Research. This 15-member council is comprised of highly credentialed “experts,” many of them medical doctors, who are tasked with “coordinating research” on the relative values of treatments. While explicitly claiming that the Council will not directly pronounce judgments on treatments and payments, it is clear that the research that they are supervising is intended to do precisely that.

Particularly ominous is the fact that one of the Council’s members, Dr. Ezekiel Emanuel, is trained in “bioethics,” a discipline dedicated precisely to determining criteria for deciding who should live, and who should die. Emanuel has a long history of promoting policies of cutting “marginal” care, as well as promoting living wills.

Crucially significant as well, is that Obama’s head of the Office of Management and Budget, Peter Orszag, has already set out his genocidal judgment that around 30% of current health-care services and procedures are unnecessary. The model for their work, as reflected in statements by many of the relevant officials, is the British National Institute for Health and Clinical Excellence (NICE), the Orwellian-named agency which has central control over what medical care will be provided to British subjects within the British National Health Service. NICE’S directives

have systematically denied Britons quality care, on the basis of its being “too expensive,” and have singled out, especially, the elderly, for being undeserving of intensive medical care.

The Comparative Effectiveness Council is clearly only the beginning of the genocide—if this Nazi plan is not stopped cold.

Other Proposals

Let’s look at a number of other proposals. One has been made by former Sen. Tom Daschle, the man whom President Obama wanted to appoint as Secretary of Health and Human Services, and special health czar in the White House (his appointment was derailed over tax problems). Daschle’s plan, as laid out in his 2008 book *Critical: What We Can Do About the Health-Care Crisis*, centers on the creation of an all-powerful Federal Health Board, which would be able to act *without political interference*, as the Federal Reserve does in the monetary system.

Daschle’s Federal Health Board would have a board of governors (“clinicians, health benefit managers, economists, researchers, and other respected experts”) which would command a huge staff of analysts that would come up with policy diktats in the areas of health insurance and medical care. The board would determine which treatments are, in its view, “the most clinically valuable and cost effective.” They would promote “quality,” by “using evidence-based guidelines and cutting down on inappropriate care.” In addition, the Board would “align incentives with high-quality care,” an obfuscatory term which means paying doctors to keep costs down, and withholding payments for unapproved (read: “expensive”) procedures.

Daschle calls the Federal Health Board a “standard setter,” but, in fact, it would become the dictator as to who lives, and who dies.

Paralleling Daschle’s proposal is a piece of legislation which was introduced by Sen. Jay Rockefeller (D-W.Va.) on May 20. Rockefeller proposes that the Medicare Payment Advisory Commission (MedPAC, created in 1997), move beyond its current mandate to advise on rates of payment for the 44 million enrollees in Medicare, to set lists of approved treatment standards, and enforce compliance with regulations on health-care delivery and reimbursement. Rockefeller’s press release states that he wants MedPAC to be made up of “independent experts,” as an “executive agency

modelled after the Federal Reserve.”

He adds: “We must take Congress out of its current role.... It is inefficient and ineffective; we are not health-care experts, and being a deliberative body means that we cannot keep pace with the rapidly transforming health-care marketplace.”

President Obama has personally expressed approval of this proposal, which he said would have already saved \$200 billion, if the dictatorship had been in place.

Knew or Should Have Known

When the Nazi doctors, and others, were tried for crimes against humanity and genocide at the Nuremberg Tribunal after World War II, many claimed that they had only the most noble intentions; others, that they were only following orders. In fact, they were wittingly serving as “expert” or bureaucratic cogs in a mass-murder machine, of whose outcome they were fully aware.

While there is no doubt that the degeneration of our culture, in terms of the valuation of life, has proceeded quite a distance over the last decades, thus preparing our population to accept Nazi euthanasia today, the apparatus parallel to that which Hitler set up *can still be stopped*. It must be done now—before the medical and economic “experts” carry out genocide again.

Appendix

The following draft legislation was put forward by Lyndon LaRouche’s Committee for a New Bretton Woods in May of 2000. It still forms the core of what must be done today.

Proposed ‘Right to High Quality Health Care Act’

Declaration of Purpose:

The purpose of this legislation is: a) to affirmatively establish the right of every person to the highest quality health care available; b) to abolish Health Maintenance Organizations, Managed Care Organizations, and the practice of managed care by health insurers; and c) to re-assert the principles of the Hill-Burton Act (42 U.S.C. Section 291 et seq.) as the primary policy governing U.S. health policy.

This Act is necessitated by the immediate crisis in the health conditions in the United States, where mil-

lions of citizens are denied access to necessary health-care services due to the financial practices of Health Maintenance Organizations, Managed Care Organizations, the practice of managed care by health insurers, and the lack of adequate medical facilities in many communities in the country. This has created a health-care emergency in the United States.

Under the Preamble to the United States Constitution, the Federal Government is required to “promote the General Welfare,” thus necessitating immediate action by the Federal Government to address this health-care emergency.

The lack of access to adequate health care, and the practices of the Health Maintenance Organizations and Managed Care Organizations, are in violation of Article 25 of the Universal Declaration of Human Rights of the United Nations, and Article 12 of the International Covenant on Economic, Social, and Cultural Rights, which establish the universal right to adequate health care, and require governments to take steps to assure access to quality medical care. The United States is a signatory to these declarations and covenants.

The practice of denying needed medical treatment to certain persons in order to cause their death, was prosecuted as a crime against humanity by the United States in the post-World War II Nuremberg Tribunals.

Section 1

- A. It is hereby established and affirmed that every person has a right to the highest quality health care available.
- B. Any practices by health insurers, that deny any person the right to the highest quality health care available, for financial, or any other reasons, are hereby prohibited.

Section 2

- A. 42 U.S.C. Section 300e, et seq., providing for the establishment and operation of Health Maintenance Organizations, is hereby repealed.
- B. It shall be unlawful to operate a Health Maintenance Organization, Managed Care Organization, or any health-insurance program that practices managed care, or seeks to control costs by limiting necessary health care services provided to patients.

Section 3

- A. It is hereby re-affirmed that the provisions of the Hill-Burton Act, 42 U.S.C. 291 et seq., are the governing principles for U.S. health care policy.

Obama Says It: His Agenda Is To Cut Entitlements

by Nancy Spannaus

Oct. 21—Speaking to reporters on Oct. 17, after Congress had come to a deal to reopen the Federal government and extend the debt ceiling, President Barack Obama for once told the truth about his intentions. “The deficit is getting smaller, not bigger. It’s going down faster than it has in the last 50 years,” Obama bragged. So, “the challenges we have right now are not short-term deficits. It’s the long-term obligations that we have around things like *Medicare and Social Security*. And we want to make sure those are there for future generations.”

Thus, once again, in signalling his eagerness to come together with budget-hacker Republicans such as Rep. Paul Ryan (R-Wisc.), Barack Obama has shown his true colors as a diehard tool of Wall Street and the British financial establishment. *His* target is to cut benefits for the elderly and the sick, under the excuse of dealing with a debt crisis whose real dimensions could only be dealt with through implementing Glass-Steagall.

As LaRouchePAC pointed out immediately after the government shutdown, Obama’s behavior in pushing for this crisis was deliberately aimed at creating the conditions to ram through a new, devastating ratchet of austerity against the American people, and to kill the momentum for the austerity measure that would actually benefit the U.S. population: Cut off Wall Street! A delegation of Wall Street bankers met with Obama and

a select group of Republican lawmakers on Oct. 2 to press that point.

So far, they have gotten their way.

Wall Street’s ‘Deal’

The deal Obama succeeded in getting through the Congress was just a time-buying measure. The agreement included the House and Senate appointment of conferees to a budget conference—the first since 2009—which is mandated to report by Dec. 13 on a budget framework for 2014, as well as a ten-year budget plan. The co-chairs of the conference committee are House Budget Committee chairman Paul Ryan and Senate Budget chair Patty Murray (D-Wash.), both of whom have gone on record in favor of the “cut-entitlements” approach.

It was Ryan’s Oct. 9 *Wall Street Journal* op-ed which shifted the focus away from the government shutdown over Obamacare, to the budget and, especially, entitlements, and coincided with the opening of discussions between Obama and Congressional Republicans. In that op-ed, Ryan said that the current shutdown crisis “could be a breakthrough,” if the two sides began discussing entitlement reforms, explicitly referring to Medicare, Medicaid, and Social Security. The real money to be found, Ryan emphasized, was not in discretionary spending, but in social-insurance programs, which, in the case of Social Security and



White House/Pete Souza

President Obama and House Budget Committee chief Paul Ryan see eye-to-eye on ripping the guts out of “entitlements”—Social Security, Medicare, and Medicaid—so they can continue to bail out Wall Street.

Medicare, as he did *not* say, *are supposed to be legally separated from other budget items, in a dedicated trust fund.* Ryan noted that Obama actually agreed with Republicans on much of their budget-gutting program. On Oct. 17 Obama signalled that he does indeed agree.

Roll Call noted that many Republicans would like to see the automatic spending cuts (the sequester, which was also Obama’s idea) mitigated or ended, through cuts on the mandatory side of the Federal ledger—changes to entitlement programs—which are opposed by many Democrats. “There’s general agreement that we ought to be able to move some of the growth in mandatory spending over to relieve the sequester,” Sen. Lamar Alexander (R-Tenn.) said. “The President wants to do that, Republicans would like to do it, many of the Democratic Senators would like to do it. It makes a lot of sense.”

What this portends, is that in the build-up to the next crisis—with the Continuing Resolution to keep the government open expiring in January, and the debt limit extension expiring in February—Obama will be openly allied with Ryan and the austerity Republicans, against

those remaining Democrats and others who still defend the Medicare, Medicaid, and Social Security programs on which so many Americans’ lives depend.

Who’s Setting the Agenda?

As we have pointed out on numerous occasions, the template for the program Wall Street demands has been laid out consistently by Barack Obama, from the moment he took office. It was signalled by his refusal to proceed with restoring Glass-Steagall, his continuation of the Bush bailout of Wall Street, and, most emphatically, by his health-care proposal, a virtual carbon copy of the thinking of Adolf Hitler in 1939: Eliminate those lives “not worthy of life.”

In January 2010, Obama—as befits his predilection to act by Presidential decision, rather than through Congress—appointed the National Commission on Fiscal Responsibility and Reform, the so-called Simpson-Bowles Commission, by executive order, to try to move his austerity agenda forward. Alan Simpson, a former Republican Senator from Wyoming, and Erskine Bowles, a Democrat who had served as the head of the Clinton Administration’s Office of Management and Budget, were tasked with leading a commission of 12 Congressmen and 6 independent “experts,” to come up with a plan that would be endorsed by 14 of its 18 members, and then presented to the Congress in December of that year.

The effort failed, when the majority of 14 was not reached. But the proposals hammered out by the Commission—which became known as the “Catfood Commission,” because its measures would condemn senior citizens to eating catfood—have survived, and keep coming back in the series of budget “deals” which have been negotiated during subsequent years of the Obama Administration.

Here are the major proposals from the Commission, in their own words (note that “reform,” in their lexicon, almost always means cuts):

“1. Discretionary Spending Cuts: Enact tough discretionary spending caps to force budget discipline in Congress. Include enforcement mechanisms to give the limits real teeth. Make significant cuts in both security and non-security spending by cutting low-priority programs and streamlining government operations.

Offer over \$50 billion in immediate cuts to lead by example, and provide \$200 billion in illustrative 2015 savings.

“2. Comprehensive Tax Reform: Sharply reduce rates, broaden the base, simplify the tax code, and reduce the deficit by reducing the many tax expenditures—another name for spending through the tax code. Reform corporate taxes to make America more competitive, and cap revenue to avoid excessive taxation.

“3. Health Care Cost Containment: Replace the phantom savings from scheduled Medicare reimbursement cuts that will never materialize and form a new long-term-care program that is unsustainable with real, common-sense reforms to physician payments, cost-sharing, malpractice law, prescription drug costs, government-subsidized medical education, and other sources. Institute additional long-term measures to bring down spending growth.

“4. Mandatory Savings: Cut agriculture subsidies and modernize military and civil service retirement systems, while reforming student loan programs and putting the Pension Benefit Guarantee Corporation on a sustainable path.

“5. Social Security Reforms to Ensure Long-Term Solvency and Reduce Poverty: Ensure sustainable solvency for the next 75 years while reducing poverty among seniors. Reform Social Security for its own sake, and not for deficit reduction.

“6. Process Changes: Reform the budget process to ensure the debt remains on a stable path, spending stays under control, inflation is measured accurately, and taxpayer dollars go where they belong.”

What should strike any sane person about these proposals is their totally monetarist character—treating the “debt” from such items as Treasury bonds in the Social Security Trust Fund, or credit for long-term infrastructure projects, as the same as the “debt” from buying mortgage-backed securities from Wall Street, or subsidizing greenie pseudo-science.

Such an approach, as innumerable cases, such as Greece today, demonstrate, *only makes the debt crisis worse*—and “excesses” a lot of people in the process. That, clearly, is the intention of the authors.

Will Congress Capitulate?

Over the course of the last several months, a large number of Congressional opponents of such entitlement cuts have muttered against Obama, and their

party leaderships, under their breaths, but put their heads down and gone along with his policies, step by step.

For example, a significant number of Democrats railed against the sequester, for its cuts against vulnerable sections of the population. Yet, as Obama and the Republican leadership went ahead with the Wall Street agenda, the Democrats caved into budget cuts that would have appalled them only a few months before.

For example, the so-called “responsible, fund-the-government, clean Continuing Resolution” which the Senate Democrats passed, cuts discretionary spending almost all the way down to the level of Obama’s Sequester II, which is not due to hit until Jan. 15, 2014. And that level is *lower* by 10% than the last budget drafted by the austerity-hawk Paul Ryan.

Will Obama’s “coming out” to target Social Security and Medicare finally jar the Democrats into action? During the street deployments carried out by LaRouchePAC organizers on Oct. 16 and 17, there were some indications that a turning point might have been reached. One Democratic Congressman could not contain his rage at Obama, as he encountered the organizers, exclaiming that the President was “worse than Bush” in his fascist intentions. Other indications, as noted in this magazine last week, come from top Democratic insiders, who are now admitting that LaRouche, whose attacks on Obama they had denounced as “over the top,” was right about the genocidal intent and impact of Obamacare.

In an Oct. 16 press conference held by Democratic Senators Barbara Boxer (Calif.), Mazie Hirono (Hi.), and Ben Cardin (Md.), a question about how implementing Glass-Steagall would break through the “budget” impasse, was greeted very positively by Boxer, who asked her colleagues (who, unlike her, have not co-sponsored a Senate bill to restore Glass-Steagall) to comment as well.

Ultimately, of course, as LaRouchePAC’s highly successful ad in [The Hill](#) last week argued, a success for Glass-Steagall cannot be counted on from Congress alone. As in the case of the so-far effective halt called to Obama’s determination to make war against Syria, overwhelming pressure must come from the American people, through constituency leaders and patriots who understand the stakes. Those stakes are nothing less than survival—not only of our nation, but that of the planet.

Peter Peterson: Setting the Agenda For Obama's Killer Policies

by Edward Spannaus

Oct. 22—Wall Street billionaire Peter Peterson's latest front group, "Fix the Debt," is on the warpath against America's elderly again—a continuation of his decades-long fight to slash social expenditures on "useless eaters," meaning especially the elderly and the poor. Fix the Debt was established to campaign for the austerity program of Obama's Simpson-Bowles ("Catfood") Commission, and its ads feature Erskine Bowles and Alan Simpson themselves; television, digital, and outdoor ads are running in select markets throughout the country.

"Congress and the President must stop the madness of government shutdowns and risks of default, start talking on a bipartisan basis, and solve our economic and budget challenges by reforming our entitlement programs and enacting fundamental tax reform," Fix the Debt says. "The best way for our elected leaders to emerge from this latest standoff is for talk to return to a 'Grand Bargain'—a deal that includes both entitlement reform and deficit-reducing, pro-growth tax reform could end our current political stalemate."

If that sounds to you like what Obama is saying, you're right. Read on.

Banker Peterson and his flunkies are dedicated to convincing the American people that the nation's most significant problem is the deficit. Not the lack of productive jobs, not crumbling infrastructure, not the lack of a science-driver for the economy, and certainly not Wall Street speculation—but just the deficit and the debt, which can only be reduced by cutting life-supporting expenditures on older adults and others.

Fix the Debt was established in 2012 by the Peterson-funded Committee for a Responsible Federal Budget (CRFB), to provide support for Obama's push for the austerity program of his failed "Catfood" Commission. The Center for Media and Democracy puts it this way: "Fix the Debt was started with a \$5 million donation from crisis king Pete Peterson. Peterson has

been warning that our Social Security would create a 'Pearl Harbor'-type crisis for decades. In January 2013 Fix the Debt steering committee member and former Tennessee Governor and healthcare insurance executive Phil Bredesen admitted that Fix the Debt's strategy was to create an 'artificial crisis' to achieve a 'grand bargain' on Medicare and Social Security."

'GOP Should Listen to Obama'

On Oct. 16, Fix the Debt held a press conference at the National Press Club in Washington, featuring former Defense Secretary Leon Panetta, Peterson's lackey Maya MacGuineas of the CRFB, and former Congressman Jim Nussle (R-Iowa), who was Director of the Office of Management and Budget (OMB) for the last two years of the George W. Bush Administration, and was also a chairman of the House Budget Committee, and is now a co-chairman of Fix the Debt.

Nussle was the most direct, suggesting that Republicans should start actually listening to Obama's proposals to cut entitlements, and that they would find a lot to agree with. Nussle pointed out that Obama had over \$500 billion in entitlement reforms in his budget, but, he said: I'll bet many Republicans don't even know this, or would be surprised by it. Nussle said that he, as a Republican, would take Obama's entitlement-cutting proposal as a starting point for the budget and debt discussions.

Targeting the Millennials

Peterson was the chairman and CEO of the now-bankrupt Lehman Brothers (1973-77), and then of its successor, Lehman Brothers, Kuhn, Loeb (1977-84). He is also the former chairman and co-founder of the private equity firm Blackstone Group, and a former chairman of the Federal Reserve Bank of New York.

Just as George Soros's partner Stanley Druckenmiller is currently on a campus tour to brainwash col-

lege students, Peterson's seemingly endless number of front groups have long tried to pit the "millennials" against their parents and grandparents, by telling young people that unless Medicare and Social Security are slashed, there will be nothing left for them.

The ultimate intent of this campaign is identical to that of Queen Elizabeth: Cut population. All the significant actors in it—Peterson, Warren Buffett, George Soros, Ted Turner, Michael Bloomberg, et al.—are billionaires committed to dealing with what they consider "overpopulation." A meeting of this "billionaires club" was exposed in the London *Sunday Times* in May 2009.

Peterson's actions are a good example of how Wall Street exercises its domination of both Democrats and Republicans, irrespective of nominal "liberal" or "conservative" labels.

To set the agenda for the 2008 Presidential campaign, Peterson financed a "documentary" film called "I.O.U.S.A." aimed at young people and promoting the dismantling of Social Security and Medicare. It appeared in 400 U.S. theaters in August 2008, with a live video address by Peterson and fellow billionaire Warren Buffett—all part of the "Fiscal Wake-Up Tour" sponsored by Peterson's foundation and the Concord Coalition, which he also funds.

The film was presented at a "film festival" accompanying the Democratic National Convention in Denver, and subsequently at a similar affair for the Republican Convention in Minneapolis. Sen. John McCain (R-Ariz.) declared on Aug. 6, 2008, that if he were elected President, he would bring Peterson Foundation CEO David Walker¹ into the government to ex-



Creative Commons/Ingjing Bao

Peter Peterson speaks at the National Press Club, July 17, 2012. New York magazine said in a 2009 profile: "Peter Peterson, 83, has been thinking an awful lot about death lately. Not his, yours."

plain the national crisis of bankruptcy to the public. Obama, as we shall see, outdid McCain's promises, by attempting to have Peterson hijack the Congressional budget process.

Peterson's British model

Peterson's London-inspired agenda was chillingly spelled out in a 2007 Brookings Institution position paper, co-authored by Peterson, intended to shape the 2008 election, entitled "America's Economy: Headed for Crisis." Regarding Social Security, the paper insisted that reform must deal with the "generational inequity" underlying the Social Security system. Proposals included raising the retirement age and reducing benefits through "longevity indexing" (see Edward Spannaus, "Top Banker Spokesman Dis-closes 'Shutdown' Aim: Kill

Off Old Folks," *EIR*, Oct. 18, 2013).

Presaging Obama's health-care program, the paper stated Americans will have to confront the fact that spending more money on health care doesn't necessarily improve outcomes, and that the most expensive treatments are provided in the last two years of life. Decisions will have to be made for better targetting of resources, the paper said:

"Americans have yet to confront these choices, but in other countries they have been dealing with them for years. Go through the intensive care unit of New York Hospital and count the number of octogenarians who are there with heroic intervention techniques and a dismal quality of life. Then go to a hospital in London and observe the difference in the age composition. What is it they do in Great Britain? They have capped their medical costs. A neurologist caring for stroke patients with a dismal prognosis turns them over to their general practitioner who sends them home to die quietly of pneumonia, 'the old man's friend.' Would Amer-

1. See Lyndon H. LaRouche, Jr., "Ducking the Issue: David Walker's Sleight of Hand," *EIR*, March 16, 2007.

icans accept the level of health care 'rationing' this implies? Maybe not. But we will soon need to face the question."

Obama's Agenda

Shortly after taking office, Obama convened the White House Fiscal Responsibility Summit, on Feb. 23, 2009. Going into the summit, the Peter Peterson Foundation bought advertising time on the Sunday TV talk shows, warning of a claimed \$56 billion in unfunded retirement and health-care obligations, and calling for an "action-oriented bipartisan commission" to avoid the looming catastrophe. In a Feb. 19, 2009 interview on CNBC, former Comptroller General of the United States David Walker, the president and CEO of the Peterson Foundation, called for scuttling normal Congressional procedures. "We can't go through regular order," Walker asserted. "The regular order is broken. . . . You have to have an extraordinary process."

Over the Summer and Fall of 2009, parallel with the development of his Nazi-like health-care plan, Obama was also meeting with Senate Democrats to begin to implement the Peterson plan, by setting up an unconstitutional "special process" to take over fiscal and budget discussions, outside of regular Congressional order—just as the Peterson gang had been demanding.

When Congress balked, Obama created the National Commission on Fiscal Responsibility and Reform (the Simpson-Bowles Commission) by executive order. The plan was for this Peterson-controlled commission to issue its killer recommendations immediately after the November 2010 elections, so that they could be forced through the lame-duck Congress. But this didn't work either, due to opposition both inside and outside of Congress; Obama was also unable to get the Simpson-Bowles austerity recommendations enacted into law.

During the 2011 debt-limit crisis, Obama and the White House came up with the idea of an automatic



Alan Simpson and Erskine Bowles, co-founders of the Campaign to Fix the Debt, are shown here in their TV ad calling for balancing the budget at the expense of the sick and elderly. The austerity recommendations of their previous enterprise, the Simpson-Bowles ("Catfood") Commission, commissioned by President Obama, were not enacted into law.

trigger, or "sequester," in exchange for an 18-month debt-limit increase, to take it past the 2012 elections, assuming that the Republicans would never allow the sequester cuts to defense spending.

The sequester only applied to so-called "discretionary" spending, not the mandatory expenditures labelled entitlements. So, with the Catfood Commission stymied, Peterson created Fix the Debt in 2012 to continue the drive for slashing Social Security, Medicare, and other social spending.

More recently, he launched yet another push for generational warfare: "The Can Kicks Back," a propaganda campaign targeting young people, including on college campuses. "The Can Kicks Back" calls itself "a non-partisan Millennial movement to defeat the national debt and reclaim our American Dream."

Peterson's OweNo.com website is similar; its proposals include raising the retirement age to 70 or beyond, raising the payroll tax rate, and lowering benefits through changes in the wage-indexing formula or downward adjustments of cost-of-living increases.

As *New York* magazine aptly put it, in a 2009 profile: "Peter Peterson, 83, has been thinking an awful lot about death lately. Not his, yours."

Anglo-Saudi Hysteria Mounts Over Syria, Iran Diplomacy

by Jeffrey Steinberg

Oct. 20—After spending months lobbying United Nations member-states, the Kingdom of Saudi Arabia last week rejected a coveted seat on the Security Council in protest over the failure of the world body to overthrow the Syrian regime of Bashar al-Assad and its support for the ongoing P5+1 negotiations with Iran. Last month, after President Obama expressed openness to negotiating a deal with newly elected President Hassan Rouhani in Iran, the Saudi Foreign Minister, Prince Saud bin-Faisal, cancelled his own scheduled speech before the General Assembly, an unprecedented action.

The primary target of Saudi rage, however, is the United States. In the eyes of the Saudi royal family, Washington has committed a series of betrayals, starting with the ouster of Egyptian President Hosni Mubarak in January 2011. The Saudi royals had been assured in September by the Obama Administration that the President was going to order military strikes against Syria, in retaliation for the alleged Syrian Army chemical weapons attack on the Damascus suburb of Goutha on Aug. 21. Never mind that the President cancelled those orders under immense pressure from his own Pentagon, and opposition from an overwhelming majority of the American people, who want nothing to do with another war in the Muslim world, after a decade of conflict in Afghanistan and Iraq.

The single biggest betrayal of the so-called strategic partnership between Washington and Riyadh is the re-

cently restarted P5+1 negotiations with Iran. For the Saudi leadership, Shi'ite Iran is the number one enemy and rival for dominance over the Islamic world and the Persian Gulf. With the backing of King Abdullah, Prince Bandar bin-Sultan, the head of the Saudi intelligence service and the director of the National Security Council, has been waging an overt terror war against Iranian allies throughout the region, from Syria to Lebanon to Iraq.

Over the past month, Bandar's role in financing the al-Qaeda-linked Sunni insurgent groups al-Nusra Front and the Islamic State of Iraq and Syria, has been widely exposed, including in the *Wall Street Journal*, *New York Times*, and *Los Angeles Times*. It is no secret that the hard-core jihadist groups fighting a two-front war inside Syria—against the Assad government and against more secular rebel factions such as the Free Syrian Army—are being armed and bankrolled from the Persian Gulf through covert channels run by Bandar.

Saudi Sabotage

On the sidelines of the UN General Assembly session last month in New York City, Jeffrey Feltman, UN Under-Secretary-General for Political Affairs, excoriated the Saudi Kingdom for sabotaging U.S. policy in the Middle East. In a private discussion with Lebanese and Palestinian delegates, he reportedly fulminated for 20 minutes against the Saudi sabotage of any new government in Lebanon that would include Hezbollah, and



EPA/Syrian television

to abandon its chemical weapons program and sign the CW ban treaty. Inspectors from the Organization for the Prohibition of Chemical Weapons (OPCW) have been on the ground in Syria for the past several weeks, dismantling the CW production sites, and taking control over the extensive CW stockpiles, which had been built up as a deterrent against Israel's arsenal of nuclear weapons.

The OPCW work has gone well, prompting even U.S. Secretary of State John Kerry to praise President Assad's compliance. On the basis of the CW agreement, which averted U.S. military strikes in September,

Inspectors from the Organization for the Prohibition of Chemical Weapons have been on the ground in Syria for the past several weeks (shown here at an undisclosed site Oct. 8); CW stockpiles had been built up as a deterrent against Israel's arsenal of nuclear weapons.

Saudi asymmetric warfare inside Iraq aimed at breaking up the country. In the eyes of Bandar and other leading Saudi officials, the 2003 U.S. intervention in Iraq led to the creation of a Shi'ite government that Riyadh views as a puppet of Iran.

According to a senior U.S. intelligence official, it is well-known that Bandar is directly financing al-Qaeda networks inside Iraq that have waged a terror war for months, using suicide bombs and truck bombs to kill more Iraqi civilians than at any time in years. The Saudi objective is to break up Iraq into three parts—a Shi'ite South, a Sunni North, and a Kurdish region in the north along the Turkish border. Over the Summer, the U.S. announced \$4 billion in arms sales to the Iraqi military, including counterinsurgency weapons systems to fight the Saudi-backed Sunni insurgency.

At the same time that the rift between sections of leading Washington institutions and Riyadh has reached unprecedented levels—going beyond the break that followed the Sept. 11, 2001 attacks—the same U.S. forces are working closely with Russia and others on the diplomatic front. This week, UN Secretary-General Ban Ki-moon announced that the Geneva II conference, in the works for the past 18 months, will take place in late November. The breakthrough making this possible was the Russian-brokered deal in September to get the Assad government

Russia seized the opportunity—with U.S. support—to make another attempt at a ceasefire and peace agreement to end the two-and-a-half year conflict.

Bandar is doing everything possible to sabotage that effort. Voice of Russia reported recently that the Putin government has evidence that it was Bandar who orchestrated the Goutha CW attack as a “false flag” covert operation aimed at forcing a U.S. military intervention to overthrow Assad.

Potential for a Deal

The Oct. 15-16 Geneva working meeting of the P5+1 with Iran was another important event, indicating that, for the first time, there is a genuine possibility of a binding deal. The Iranian delegation presented a detailed, step-by-step proposal to end any concerns that Iran is pursuing a nuclear bomb, and end the Western sanctions. At the end of the talks, a joint statement was issued by Catherine Ashton, the European Union's chief representative and the delegated head of the P5+1, and Iranian Foreign Minister Javad Zarif, reporting significant progress. At the behest of Iran, all details of the proposal and the negotiations were to be kept secret, to assure continuing progress. Another session has been scheduled for early November, and Iran has proposed that it be at the ministerial level.

According to sources close to the talks, Russia, the

U.S. and Germany all delivered identical messages to the Iranians: Reach a deal now, because time is running out for a comprehensive settlement in everyone's interest. The P5+1 states share the concern that hardline factions inside Iran could lean on Iran's Supreme Leader Ayatollah Khamenei to break off the negotiations, as they have successfully done in the past.

The greatest danger, however, does not come from Iran, although there are factions associated with the Iranian Revolutionary Guard Corps who are adamantly opposed to any deal that would foreclose development of a nuclear weapon. Nor does it come solely from the Saudi Kingdom, which views a P5+1-Iran deal as a grave threat to its position in the region. The British Crown and intelligence establishment are pursuing their own policy of what a senior U.S. intelligence official described as "managed chaos." British policy is to exploit and intensify the Sunni versus Shi'ite warfare inside the Islamic world to create the conditions for a new Hundred Years War across Eurasia.

The British Crown is committed to a policy of radical population reduction globally, and a prolonged conflict among the world's 1.4 billion Muslims is an active part of that agenda. Earlier this year, the Royal United Services Institute (RUSI) published a paper titled "Return to East of Suez," which spelled out ambitious British plans to move back into the Persian Gulf as Washington pivots to Asia and the Pacific.

While the U.K.'s Cameron government will play the P5+1 game, the underlying British policy is to sabotage anything that could bring durable peace to the region. Blindness to the British game could prove deadly. It should be remembered that London forged a partnership with Riyadh under the Al-Yamamah arms-for-oil barter program, which created an enormous offshore slush fund to run joint covert operations. That Al-Yamamah deal was brokered back in 1985 by none other than Prince Bandar.

The British also have a powerful grip on the White House through the City of London/Wall Street control over the President himself. In April 2009, Lyndon LaRouche had warned that Obama was both a dangerous narcissist and a British tool, who would do everything in his power to destroy the United States. It took a powerful institutional intervention last month to get Obama to reverse his orders for military strikes against Syria, strikes that would have triggered a much bigger war,

leading potentially to a thermonuclear showdown between the United States and Russia. President Obama was boxed in to begrudging acceptance of the Russian initiative. The war danger was set back but was not eliminated altogether. This week Lyndon LaRouche stated that the only durable war avoidance is to impeach Obama.

Human Rights Watch Report

Rebels Committed War Crimes in Syria

Oct. 19—Rebel groups in Syria have committed war crimes and crimes against humanity in Latakia province, according to a 105-page [Human Rights Watch report](#) released Oct. 11. The armed opposition groups killed at least 190 civilians and seized more than 200 hostages during attacks that began Aug. 4. The terrorist groups, supported with foreign funding and manned with foreign personnel, executed at least 67 of those killed in the operation around pro-government Alawite villages.

The majority of the hostages seized by the rebels were women and children. "These abuses were not the actions of rogue fighters," said Joe Stork, acting Middle East director at Human Rights Watch. "This operation was a coordinated, planned attack on the civilian population."

HRW concluded from its on-site investigation that five opposition groups—Ahrar al-Sham, Islamic State of Iraq and Sham, Jabhat al-Nusra, Jaish al-Muhajireen wal-Ansar, and Suqor al-Izz—were the key fundraisers, organizers, and executors of the attacks.

"All concerned governments with influence over these armed opposition groups should press them to end deliberate, indiscriminate, and disproportionate attacks on civilians," HRW said. "In addition, all governments, companies, and individuals should immediately stop selling or supplying weapons, ammunition, materiel, and funds to these groups, given the compelling evidence that they have committed war crimes and crimes against humanity."



This Human rights Watch report documents the role of at least five rebel groups, in the mass-murderous attacks in Latakia province, beginning Aug. 4.

Money from Gulf States

Human Rights Watch singles out Turkey as responsible, for the obvious reason that much of the weapons, fighters, and money flowing to Syria goes through the country. “The UN Security Council and Turkey’s allies should call on Turkey in particular to do more to verify that no arms are passing through Turkey to abusive groups,” the HRW said. The western Syrian province of Latakia abuts the Mediterranean Sea and shares its northern border with Turkey.

The report identifies several Kuwaitis who were named in Twitter and YouTube postings by themselves or by rebel groups, who received hundreds of thousands of euros in donations; but the report also indicates that funding came from Saudi Arabia, Qatar, and the U.A.E. Continued support of the five principal groups involved in the slaughter of unarmed civilians “may make these individuals [the funders—ed.] complicit in war crimes or crimes against humanity if these groups continue to commit abuses.”

Fighters from Europe, Africa, Elsewhere

HRW’s description of the five principal groups belies any notion that they are the product of an internal uprising, since they are dominated by foreign leaders and fighters as well as foreign funds. The five groups are as follows.

- The Islamic State of Iraq and al-Sham (ISIS), led by an Iraqi by the name of Abu Bakr al-Baghdadi, who aligned his group with al-Qaeda leader Zayman al-Zawahiri earlier this year. Among the ISIS fighters who died during the assault whom Human Rights Watch names (again from Twitter, YouTube and other social network postings) are a Tunisian and a Chechen.

- Jabhat al-Nusra is also aligned with al-Qaeda, although there have been reports of clashes between al-Nusra and ISIS. At least three al-Nusra fighters were killed during the assault—two Moroccans and a Libyan.

- Ahrar al-Sham, also an Islamist group, lost three fighters during the assault, all Moroccans.

- Jaish al-Muhajireen wal-Ansar “is led by Omar al-Shishani, a Chechen, and is made up of several nationalities, including Chechens, Turks, Tajiks, Pakistanis, French, Egyptians, and Moroccans.” This group is affiliated with ISIS, but the degree of control that ISIS has over wal-Ansar is not clear. Two Libyans from wal-Ansar died in the fighting; and social networks identified another as Chechen wal-Ansar commander.

- Suqor al-Izz is led by Sheikh Saqr al-Jihad from Saudi Arabia. Not only was he personally involved in leading the assault, he was also identified as one of the chief fundraisers for the operation, personally appealing to the funders from Persian Gulf countries and organizing the fundraising center in Syria that conduited the monies to the rebel groups doing the fighting. Several fighters from Suqor al-Izz are named as casualties in the operation, including two Tunisians.

All five of these groups were implicated in war crimes, including the executions of civilians and the taking of civilians as hostages, by evidence uncovered by HRW’s investigators and presented in graphic detail in the report. No elements of the Free Syrian Army apparently took part in the initial assault on Aug. 4, but did appear in areas taken over by the above-named groups in the days afterwards, including FSA commander Gen. Salim Idriss, who is seen in several videos posted on YouTube praising the “liberation” of Latakia province.

French Cities Fight Toxic Loans, Hollande

Oct. 19—Solidarité et Progrès, the LaRouche-allied party in France, is leading a fight to get members of Parliament to defeat the Socialist government's effort to quietly ram through legislation that would protect banks against lawsuits by public entities that have been subjected to the banks' toxic loans schemes.

Article 60 of the Financial Reform Bill for 2014 would essentially grant amnesty to the banks that extended toxic loans to public entities. This is no small matter. Some 1,500 cities, towns, hospitals, public housing authorities, and other public institutions are being gutted by these loans. About 300 of them have taken legal action against Dexia, Crédit Agricole, Société Générale, Royal Bank of Scotland, Deutsche Bank, and others. Many of the loans had very low initial interest rates, but the rates were indexed to the Swiss franc, or other swap variables, which meant that rates soared after a few years.

Under Article 60, a reserve fund of EU100 million would be set up, covered 50% by the national government and 50% by a tax on banks, to help the public entities pay the debts that the banks are demanding. But to receive the aid, the local entities would have to first agree in writing to waive their right to any legal action against the banks related to all their structured and toxic loans.

Dexia Is Top Lender

One reason why President François Hollande and his Socialist government are eager to have Article 60 go through, is that the number-one lender to local public entities is the bank Dexia, which has been de facto national-

ized, so that those debts are now owed to the national government! To be able to pay that debt, the government has to go to the banks (as dictated by European Union treaties), which are demanding an end to all legal action by the public entities first.

As if that were not enough, the financial reform bill also provides for retroactive validation of contracts signed with the banks that did not disclose the overall percentage rate to be charged—but only the (very low) initial rate. This goes directly against a ruling in the Nanterre court of last February, which invalidated such loans made to the Seine Saint-Denis Department. Since then, the number of lawsuits filed against Dexia has tripled.

Now, the government is attempting to blackmail the public entities into dropping their proceedings, in exchange for a bit of aid.

Solidarité et Progrès is rallying local government officials and others to give members of Parliament the backbone to stand up to the banks.

S&P's website has posted a letter that people can sign and have sent to their members of Parliament. Within the first four days of the posting, more than 600 people signed, including 1 National Assembly Deputy, 15 mayors, and at least 2 city councilors who identified themselves as such.

S&P continues to expand its tandem effort to get the Parliament to enact Glass-Steagall-like legislation. An S&P call to do just that has been signed by 279 mayors. And so far, 13 municipal councils have adopted resolutions calling on their national MPs to vote for the bill calling for a strict separation of banks. Resolutions have been introduced in another 47 town councils.

The similar Arzviller Declaration, first signed by French and German elected officials at their August meeting in Arzviller, France, has now been signed by 16 French mayors, 2 mayors and 2 municipal councilors in Germany, and 3 municipal councilors in Italy.



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Dexia is the top predator-lender to local public entities in France.

U.S.-Russian Accord: Studies Will Include Planetary Defense

Oct. 19—Russia and the United States have signed an agreement on “Cooperation in Nuclear and Energy-Related Scientific Research and Development,” which will include “defense from asteroids,” according to a press release issued by the U.S. State Department. The accord was signed on Sept. 16 by U.S. Secretary of Energy Ernest Moniz and the Director-General of Rosatom, Russia’s state nuclear agency, Sergei Kiriyenko, during a meeting of the International Atomic Energy Agency in Vienna. Potential projects have been only generally described in official statements, but media reports indicate that the U.S. contribution will be through Los Alamos National Laboratory’s supercomputer studies, which simulate the deployment of nuclear explosives to break up an asteroid, or alter its trajectory.

Russian officials, notably Deputy Prime Minister Dmitri Rogozin, have called repeatedly for international cooperation for the Strategic Defense of Earth. Moscow’s concern about the threat posed by Near-Earth Objects has intensified since the Feb. 15, 2013 impact of a large meteorite near the city of Chelyabinsk. On Oct. 16, divers recovered the largest fragment of the meteorite yet, from the bottom of Lake Chebarkul. According to Voice of Russia, the rock weighs 570 kg.

Rogozin posted a Facebook message on the occasion: “Who can guarantee that the next rock to fall from the sky won’t be 100 times bigger? Who will swear that this won’t happen? I think we inevitably will have to deal with the question of defending the planet from uninvited ‘guests from outer space.’”

The following day, Rogozin again called for prioritizing the defense of Earth against threats from asteroids and comets. His remark was occasioned by the announcement from the Crimean Astrophysical Observatory in Ukraine, that they have discovered an asteroid of 410 meters in diameter, now named 2013 TV135, which will make a fly-by of Earth at a distance of 1.7 million km in 2032. This is far greater than the

anticipated 34,500 km approach by the similar-size Apophis in 2029, but the announcement and media coverage of it played up the currently estimated 1 in 63,000 chance that the newly discovered object could hit Earth.

Rogozin, who is in charge of Russia’s space sector during its current tumultuous reorganization, tweeted: “A 400-meter asteroid threatens to blow up Earth. This is a super-task for our space industry.”

Controversy

Scientists at Russia’s Lavochkin spacecraft-development center have already proposed to dispatch their MKA-ERDU Anapa craft to 2013 TV135, in order to determine its orbit and characteristics more precisely. Project director Alexander Shakhanov told Novosti press agency: “What distinguishes our project is that the probe has an electrojet cruising engine, making it maneuverable, so after exploring one asteroid it could be sent to another asteroid or to the Moon. This is a small, 400 kg apparatus, which doesn’t require a separate launcher, because its electrojet engine means it could fly to an asteroid from various initial orbits.” Shakhanov said this project is two years old and is being funded at a mere 1 million rubles (\$30,000) per year.

Strategic Defense of Earth continues to be a lively topic among leading Russian officials and scientists. Speaking earlier this month at the Rhodes Forum—Dialogue of Civilizations, Presidential Advisor Sergei Glazyev, an economist and Academy of Sciences member, suggested what he called an “exotic” idea: that leading nations, such as the United States and Russia, could engage in “strategic planning” for the defense of Earth, and that this would represent a “mechanism of trust,” being both an alternative to a new arms race and an intelligent way to direct investment toward global tasks facing mankind.

In the United States, there has been little public mention of the asteroid issue, and no sense of urgency among leading officials.

But no sooner was the agreement announced, than Jeffrey Lewis, writing in *Foreign Policy* magazine of Sept. 23, ridiculed the very idea of exploding an asteroid with a nuclear warhead, calling it a revival of a host of “crazy” ideas formulated by Edward Teller and friends, to be able to build bigger and better bombs. Lewis shows no recognition of the real threat, nor does he suggest any alternative approach to deal with it.

Is Asia Taking the Lead In Space Exploration?

At the International Astronautical Congress, the rapid pace of space development in Asia was in stark contrast to the lack of participation by the two space superpowers. Marsha Freeman reports from Beijing.

Chinese Vice President Li Yuanchao opened the 64th annual International Astronautical Congress, held Sept. 23-27 in Beijing, by offering to share China's extensive technology and experience in space exploration with all nations. "Mankind faces many challenges for which space can help, and China is ready to join the international community to exploit space for the benefit of all," he said, reporting that China now has 71 international agreements with 26 nations and regions.

This is in marked contrast to the Obama Administration's efforts to "pivot" U.S. policy in Asia into a strategic bulwark against China. At the Congress, which was attended by over 3,000 delegates from more than 70 nations, the widening gulf between China's space missions and future plans, and, in particular, the state of space missions in the United States, was dramatic. China's space activities, combined with fast-paced space developments in South Korea and India, underline the ongoing shift in global space-science leadership toward Asia.

Among the highlights:

- South Korean participants announced that their new President, Park Geun-Hye, has approved the acceleration of that nation's lunar program by five years. The plan is to carry out an ambitious mission to orbit

the Moon and place a lander on its surface, by 2020.

- On Oct. 28, India will launch the Mangalayaan spacecraft to Mars, thereby becoming the fourth nation to send a spacecraft to the Red Planet.

- On Dec. 2, China's Chang'e-3 spacecraft will be launched to the Moon. This will be the world's first soft landing on the Moon (i.e., slowly, so as to prevent damage or destruction) since NASA's Apollo 17 mission in 1972.

- To the shock of participants, NASA had no exhibit and little representation at the conference.

Where Was NASA?

Dozens of scientists and NASA mission managers were unable to attend and present their prepared papers, due to travel budget restrictions imposed by the U.S. budget sequestration. The budget stalemate in Washington has left the National Aeronautics & Space Administration with the likelihood of another year's continuing resolution (with funding at the FY12 level), for fiscal year 2014. This would be a \$2 billion reduction from what had been projected.

Although FY14 was supposed to start on Oct. 1, it did not—the Federal government shut down instead, threatening NASA's ongoing missions, and further delaying the few missions that are currently under devel-



Federation President Kiyoshi Higuchi (left) presents an award to China National Space Administration director Ma Xingrui for his foundational work in the Chinese space program over three decades.

opment. The exhibition hall at the Aeronautics Congress featured more than 70 space agencies, companies, and organizations from every corner of the world, with no exhibit from NASA.

But the most embarrassing aspect of U.S. space policy made quite public at the Congress is the American prohibition against working with the Chinese in space, which policy was most recently codified into law, thanks to Rep. Frank Wolf (R-Va.). This self-inflicted stupidity, which dogged NASA Administrator Charles Bolden throughout the Congress, was raised during the very first session.

For years, space cooperation with China has been a political football in Washington, part of an attempt by a handful of Congressmen to hold cooperation hostage to accusations of human rights violations, technology spying and stealing, and other politically motivated issues.

This U.S. clampdown did little, if anything, to slow down or otherwise hamper the Chinese civilian or military space programs.

Indeed, the head of the **China National Space Administration (CNSA)**, **Ma Xingrui**, made very clear that China has invited other nations to join its space

station program and “help other developing countries to put their astronauts in space.” Ma stated tersely that the CNSA is “not a party to the multilateral efforts,” because “an invitation has not been issued.”

Where Was Russia?

The diminished participation of representatives from the Russian space program was also disappointing to participants. It was shocking, if not altogether surprising, that the director of **Roscosmos**, the Russian Federal Space Agency, did not attend, and that the Roscosmos representative, Deputy Director **Sergei Saveliev**, did not participate in the press conference with his international counterparts. Due to launch and other hardware failures in the Russian program over the past 18 months, it

has been under strong criticism. Deputy Prime Minister Dmitri Rogozin had ordered a review of the agency and recommendations for reform.

Just ten days after the close of the Congress, the Russian media announced that Roscosmos Director Gen. Vladimir Popovkin (ret.) had been replaced.

On Oct. 9, Rogozin reported to President Vladimir Putin on the results of the study of Roscosmos: The agency will be split into two parts, with one overseeing planning and mission execution, and the other, a consolidation of the broad Russian aerospace industry, combining military and civilian programs.

China’s Asia-Pacific Initiatives

China’s outreach to other Asian nations was represented in part by the **Asia-Pacific Space Organization (APSCO)**, whose exhibit was a significant part of the Chinese exhibition at the Congress.

The initiative that resulted in the creation of APSCO began soon after China established a civilian space agency in 1992, when it hosted the First Asia-Pacific Workshop on Multilateral Cooperation in Space Technology and Applications, with representatives from Pakistan and Thailand. Between 1994 and 2003, seven

conferences were held in Thailand, Pakistan, the Republic of Korea, Bahrain, Iran, and China. In 2008, APSCO held its inaugural ceremony, with the signatory countries of China, Bangladesh, Indonesia, Iran, Mongolia, Pakistan, Peru, and Thailand. Representatives from Argentina, Malaysia, the Philippines, Russia, and Sri Lanka also attended. Discussions have taken place with Chile and Brazil. In 2011, Turkey became the ninth member-state.

APSCO has so far concentrated its efforts on making available to member-states technology and data sharing in remote sensing, navigation, and communications. **Dr. Maqbool Chaudry**, Director General of Strategic Planning and Program Management, said at the Congress in Beijing that the organization is now moving into additional fields of cooperation, based on the needs of the members. In this earthquake-prone region, Dr. Chaudry reports, there is great interest in determining earthquake precursors. Ground-based ionospheric sounding sensors developed by China are being made available to other nations. In

addition, APSCO is studying the possibility of developing a satellite payload for a space-based study of pre-earthquake changes in the magnetosphere and ionosphere.

Dr. Chaudry explained that in much of this region, which suffers extreme rainfall, the resulting attenuation of signals from satellites leads to interruption and unreliability of communications. APSCO has a study underway, led by Thailand, to improve the modeling of the atmospheric effects of weather.

APSCO has a growing training and education program, offering short training courses, as well as a Master's program on space technology application. As important as these space applications are for economic infrastructure, Dr. Chaudry reported that every one of APSCO's member-states has also expressed a desire to have its astronauts fly on China's manned spacecraft.

During the Congress, the head of China's space agency, Ma Xingrui, met with **Kazakhstan National Space Agency** head and former Soviet cosmonaut **Talgat Musabaev**. During Chinese President Xi Jinping's last official visit to Kazakhstan earlier in September, Musabaev said, the two nations signed an intergovernmental agreement creating a legal and practical framework for space cooperation.

"China is developing space activity by leaps and bounds and becoming one of the leading space powers," Musabaev said. The two space agencies reportedly discussed cooperation in manned space flight, and the possibility of a cosmonaut from Kazakhstan joining a Chinese Shenzhou crew.

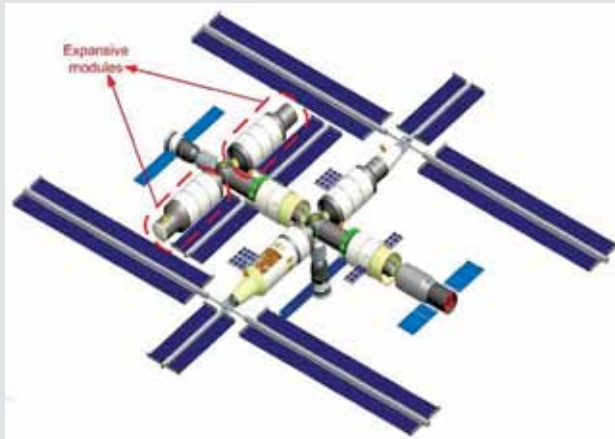
A little further from home, China has solidified and extended its cooperation with the **National Space Agency of Ukraine**. During the Beijing Congress, **Director General Yuriy Alexseyev** participated in the second meeting of the Ukraine-China Commission on cooperation. According to a report in nrcu.gov, Alexseyev explained that Ukraine (which was an integral part of the Soviet space program), has more than a dozen contracts with China, mainly to supply space equipment. There is also the possibility of using Ukrainian deep-space communications capabilities at the National Space Facilities Control and Test Center in

Strategic Defense of Earth

A panel discussion at the Congress, titled "NEOs and Planetary Defense—Where Do We Stand?", considered various approaches to protecting the Earth from Near-Earth Objects such as asteroids and comets. Proposals for a variety of mitigation techniques were put forward by Romanian cosmonaut Dorin Prunariu, on behalf of the world's organization of astronauts and cosmonauts, the Association of Space Explorers.

In response to the report that Russia and the U.S. recently signed an agreement that includes the potential use of nuclear explosions to avoid impacts with Earth, panel member Dr. Sergio Camacho, head of the Action Team on Near Earth Objects for the United Nations, responded that if we have only a brief warning of danger, nuclear explosions could be the best option.

Unfortunately, no Russian government representative or scientist spoke during the panel discussion. Russian Deputy Prime Minister Dmitri Rogozin has repeatedly called for a global Strategic Defense of Earth, which he reiterated as recently as Oct. 16.



Dr. Li Ming and Prof. Yang Hong

This diagram of China's 2020 space station shows two "expansive modules" which are being offered to other nations, to add their own laboratories.



21st Century Science & Technology/Marsha Freeman

The Chinese exhibit at the Congress included this proud display of the nation's astronauts and vision of the future.



21st Century Science & Technology/Marsha Freeman

This scale model of China's next lunar mission, Chang'e-3, was displayed at the Congress. It will be the first soft landing on the Moon since 1972, and is scheduled for launch on Dec. 2.

China's space station program builds upon its highly successful Shenzhou flights. The capsule that brought the three Shenzhou-10 crew members back from orbit last June was on exhibit at the Congress.



21st Century Science & Technology/Marsha Freeman

Yevpatoriya, and a group of Chinese scientists recently visited that site.

China Extends Its Reach to the West

Since the “opening up” of China’s space program, with the establishment of a civilian space agency in 1992, each mission in its manned space program has been progressively more “transparent,” and by the time of the Shenzhou-10 mission in June, the live coverage, commentary, and interviews mirrored NASA’s coverage of its Space Shuttle launches. China’s willingness to share its technological expertise began in its own, Asian, neighborhood; but with the waning of the U.S. space program and the technological challenges in Russia, “nontraditional” Chinese partners, particularly in Europe, are taking an active interest.

At the Beijing Congress, former German astronaut **Thomas Reiter**, who is now the **European Space Agency (ESA)** Director of Human Spaceflight and Operations, reported that various exchanges between the ESA and the Chinese Manned Space Agency have taken place, “for identifying opportunities for collaboration in particular areas of astronaut training and utilization.”

It has escaped no one’s attention that currently, and in at least the near future, only Russia and China are able to launch people into space. ESA has already expressed an interest in flying astronauts on future Chinese Shenzhou missions, and on April 19, the Chinese established the **International Cooperation and Exchange Center**, under the Chinese Manned Space Agency, to promote international cooperation in human space flight. It is run by **China Great Wall Industry**, which is the commercial arm of the Chinese launch and satellite industries. In the same vein, if the International Space Station ends its useful life in 2020, it is China that will have room available on a space station. Reiter referred to this option, stating that “the focus of the Chinese space program on future exploitation of Low Earth Orbit may offer opportunities for cooperation in this field.”

On Oct. 14, ESA announced that its Directorate of Science and Robotic Exploration will hold two workshops next year with the Chinese Academy of Sciences. The first, to be held in China, will bring together scientists from Europe and China who will present their proposals for future space science missions. For the second workshop, which will be held in

Europe, joint teams will present joint proposals. One would assume that the ultimate goal is to choose one joint mission that will fly.

Space Science

China has lagged behind other space-faring nations in making contributions to space science, particularly in astronomy and cosmology. This is ironic, not least because the first recorded observations of eclipses in history and the two earliest observations of Halley’s comet were made in ancient China. Recently a Strategic Pioneer Program on Space Science was formulated, and five space science missions were chosen and are being implemented. These include the Hard X-ray Modulation Telescope, which will be China’s first astronomical satellite. It will carry out an all-sky survey to detect high-energy objects. Also under development are an instrument to detect high-energy cosmic and gamma rays, a recoverable satellite for microgravity and life science experiments, and the Kuafu mission, to image the Sun-Earth space weather system, and do *in situ* particle measurements of the solar wind.

The Strategic Pioneer Program also includes a group of study projects to select future science missions. The first group, selected in 2011, includes a solar orbiting telescope, a spacecraft to study the electromagnetically active layers of the Earth’s atmosphere, and astronomy missions. A second group, selected earlier this year, includes a search for extrasolar planets, an advanced solar observatory, and a water cycle observation mission. Through these initiatives, China plans to make contributions to major areas of global interest in space science. The **National Space Science Center**, under the Chinese Academy of Sciences, is targeting the year 2020, to have the full range of capabilities to manage space science missions, and have state-of-the-art innovative technical capabilities.

A Chinese ‘Woman on the Moon?’

For centuries before American astronauts reached the Moon, Chinese mythology had transported the goddess Chang’e there. China began its actual lunar exploration program, and its first foray into deep space (beyond Earth orbit) with the launch of the **Chang’e-1** lunar orbiter on Oct. 24, 2007. Three years later, the **Chang’e-2** orbiter returned stunning high-resolution photographs of the Moon, and **Chang’e-3** is scheduled for launch on Dec. 2.



China's two women astronauts, Wang Yaping (above) and Liu Yang, appeared together in public for the first time at the Beijing conference.

Chang'e-3 is an ambitious effort, combining two first-time technical challenges in the same mission: a lander and a rover. The lander carries its own scientific instruments, one of which is included on a lunar payload for the first time.

During a pre-conference **Galaxy Forum China** on "Human Moon Mission: Giant Steps into the Galaxy," organized by the International Lunar Observatory Association, **Dr. Jin Zhu**, from the **Beijing Planetarium**, explained that the Moon is not only an important object of study in itself, but also "an observational site," where we can "make simultaneous, multi-wavelength observations," in the optical, gamma ray, radio, infrared, and ultraviolet portions of the electromagnetic spectrum.

Prof. Jianyan Wei, from the **National Astronomical Observatories of China**, reported that aboard the Chang'e-3 lander is a near-ultraviolet telescope, which will monitor bright stars, and do an all-sky survey. Its observations will be coordinated with ground-based telescopes. Selected targets will be tracked for 10 days, Professor Wei said, in addition to the broader sky scans. The scientific objectives include monitoring the long-term variability of stars, studying violent flares from other stars, and observing objects in low latitudes in the galactic plane, not visible from Earth. Chinese scientists have set up a bank of ultraviolet telescopes on the ground, he reported, "to identify targets that Chang'e-3 can be targeted to also observe."



Creative Commons/Tksteven

Undoubtedly, what will garner the most excitement from the public will be the activities of the mission's 220-pound rover, which is designed to survive for at least three months. To increase public visibility, understanding, and support for the program, China's lunar exploration program is collecting candidate names from the public for the rover aboard Chang'e-3.

Chang'e-4 will essentially repeat the upcoming mission, using hardware identical to Chang'e-3. (For decades, NASA also built doubles of all of its interplanetary spacecraft, to have a ready back-up in case of failure, a practice which has been largely eliminated due to long-term budget restrictions.)

Chang'e-5 will have the first robotic return of samples from the Moon to the Earth since the Soviet Luna 24 spacecraft carried out a sample return in 1976.

As reported at the conference, studies are underway to develop automatic lunar soil-sample-drilling equipment, and improved lunar rover vision systems for teleoperation from Earth.

At every opportunity, almost regardless of the topic of discussion at hand, Chinese space representatives were asked if (or when) their country is planning a human expedition to the Moon. Each representative demurred, stating that the government has not yet approved such a mission. But papers presented by Chinese researchers at the Congress indicate that work is already underway to support such an undertaking.

Scientists from the **Beijing Special Engineering Design and Research Institute** reported on their study of a variety of technical approaches for manned lunar landings. They considered various trajectories for the flight, options for the assembly of lunar-bound vehicles, and launch-vehicle capabilities for the mission scenarios. They conclude that while current launch technology should be used, larger-capacity vehicles are required "to carry out large-scale lunar exploration, establish lunar bases, and manned exploration to Mars."

No manned mission to the Moon will be able to be executed by any space agency without the development

of heavy-lift rocket launchers, at least in the 100-ton-payload range. Although no formal approval has been given for a Chinese manned lunar mission, the family of Long March vehicles under development will culminate in a rocket with a launch capacity that could exceed that of NASA's Saturn V rocket, which took astronauts to the Moon. The proposed **Long March 9** would be the largest launcher in space history. One possible design allows 133 metric tons of payload to be delivered to low Earth orbit, more than the Saturn V. Rocket designers are awaiting government approval to proceed with development.

To a Space Station, and Beyond

That Chinese space planners can even consider such a long-range and ambitious plan is based upon the unqualified success of their Shenzhou series of manned space missions. The most recent—**Shenzhou-10**—carried out a two-week mission in June, with the three astronauts performing an array of science experiments aboard the **Tiangong-1** small laboratory module. The highlight of the mission, watched by 60 million children in China, was a series of experiments by China's second female astronaut, **Wang Yaping**. For the first time, she and the first female astronaut, **Liu Yang**, appeared together in public at the Beijing conference.

Now that China has demonstrated that it can safely launch a crew, rendezvous and dock with an orbiting module, perform space walks, and work productively in orbit, it is ready to extend the stay and activity of human crews.

At the Congress, **Dr. Li Ming**, head of the **Institute of Manned Space System Engineering of the China Academy of Space Technology**, added detail to China's plans for manned space flight. Next, a small space lab, **Tiangong-2**, will be launched, with advancements allowing longer stay-time for crew, regenerative life support systems to reduce supplies that must be brought from Earth, and propellant refueling on orbit to extend the operating life of the spacecraft. **Tiangong-2** will be manned for relatively short stays, and will be resupplied by an unmanned cargo ship, similar to Russia's Progress cargo carrier.

These steps are preparatory to China's planned space station, slated for complete assembly by 2023. It will consist of a core module, which manages and controls all of the systems on the station; two experiment modules, which include the living quarters for the crew;

and docking ports for visiting cargo carriers, Shenzhou spacecraft, and potentially carriers from other nations. The station will support a crew of three.

In his Congress presentation, Dr. Li stressed China's desire for international cooperation, and said that China's station "has the capability to further expand [with] two additional experiment modules." He added, "We are now making endeavors in human space flight cooperation between the European Space Agency and the Chinese Manned Space Agency."

Recently, China's first astronaut, **Yang Liwei**, extended an invitation to foreign space agencies to train crew members for flights on Shenzhou craft. Astronaut Liu Yang reiterated this offer at the Congress. The German space agency is already working with China, having flown experiments on the last Shenzhou mission, and France has also been in discussions with China on cooperation. The European Space Agency, according to Dr. Li, is considering cooperation in microgravity research, human physiology and space medicine, and astronaut selection.

Looking beyond Earth orbit, and assuming manned exploration of the Moon, teams of Chinese scientists are looking further ahead, to Mars. An extremely challenging mission concept was advanced by teams at the **Qian Xuesen Laboratory of Space Technology** and the **Lunar Exploration Engineering Center**, both in Beijing. Described as a "**Mars Plural Mode**" mission, it entails one mission which would deploy a Mars orbiter, an atmospheric balloon, a rover, and surface penetrators. Although the presenters readily admitted under questioning how difficult this multi-layered deployment would be, it is an innovative approach that should provoke further research.

Korea to the Moon

China is not the only nation in Asia extending its reach. One of the most exciting developments reported at the conference came from South Korea. **Dr. Gwanghyeok Ju**, from the **Korea Aerospace Research Institute (KARI)**, reported that President Park Geun-Hye initiated a strategic planning study to design and implement a robotic lunar exploration mission, soon after she was elected last February. Park follows in the footsteps of her father, Park Chung Hee, who, as president (1961-79), transformed South Korea into a modern industrial state from one of the poorest nations in the world, following the devastation of the Korean War.

As Dr. Ju explained to this writer, Korea has focused its resources to accomplish national goals, such as previous decades' leadership in the automobile, and then electronics, industries. In the future, Dr. Ju said, Korea must become a leader in the "knowledge economy." This places space development and exploration alongside other national strategic programs, such as thermonuclear fusion energy, as a priority.

The new **Korean Lunar Exploration Program (KLPE)** accelerates the timetable by five years, with a plan to place an orbiter around the Moon and a lander on the surface, by 2020. The 2011 National Space Development plan had envisioned an orbiter in 2023, and a lander in 2025. The combined orbiter/lander spacecraft will be Korean designed and built, and launched on a next-generation **Korean Space Launch Vehicle-2**. To meet this shortened time frame, Dr. Ju reported that in 2017, an "orbiter pathfinder" would be developed through cooperation with NASA. The orbiter pathfinder will be based on a small space science modular design (in the 200-kilogram range) from Ames Research Center in California. This pathfinder will give Korean scientists and engineers experience in carrying out deep space exploration.

The 2020 lunar mission is an ambitious one, with its orbiter and a lander which will carry a small rover. After studying the results of all of the previous lunar missions, KARI has determined that the main objectives are twofold: The first is to validate technology, such as a "space Internet" experiment, and communications with space-based antennas, to prepare for future missions. The second will focus on two fields of observation little studied previously: the seismology of the Moon, and data collected by a magnetometer to measure the regions of unusually high magnetic-field strength.

As might be expected, the first question to Dr. Ju following his presentation, was how he could be sure the government would provide the funding. "Unlike other countries," he replied, "once we have approval from the government, we can go through to the end" of the program. He said that federal government approval is expected by the end of this year.



Korea Aerospace Research Institute

In 2008, Dr. Yi So-yeon became the first Korean astronaut, spending nine days on the International Space Station. South Korea plans to continue cooperation with the U.S. in its new lunar program, while it develops its own launch and spacecraft capabilities for lunar exploration in the next decade.

Looking further into the future, the **Ministry of Science, ICT [Information Communications Technology] and Future Planning** created the **International Space Exploration Research Institute** at Hanyang University, focused on the use of extraterrestrial resources. Research and technology demonstration areas include extreme terrain rovers, to enable access to challenging but geologically interesting regions, drilling systems, and the use of *in situ* resources for waterless lunar concrete, and lunar concrete construction techniques. One of the participating organizations with the Institute is the New York-based **Honeybee Robotics**, which built tools being used by NASA's Mars rovers, including Curiosity. Long-range Korean space exploration, as outlined by Dr. Ju, includes a mission to return samples from the Moon by 2030, and an unmanned Mars exploration mission by that time.

There is no doubt that South Korea's intention is to be a leader in space, not just in Asia, but globally.

India to Mars

Like China, India has been thwarted in its ability to cooperate with other nations in space exploration due to policies, largely promulgated by the United States, under the rubric of "non-proliferation." Like China, India did not, however, abandon its ambition to become a space-faring nation, but invested in its domestic re-

search and development and industry, making substantial progress as one of the world's few space-faring nations.

India's confidence has been buoyed by the successful execution of its first deep-space mission, **Chandrayaan-1**, launched to the Moon in October 2008. At the Beijing Congress's plenary session with the heads of the world's space agencies, **Dr. S. Ramakrishnan** explained that he was taking the place of the director of the **Indian Space Research Organization (ISRO)**, **Dr. K. Radhakrishnan**, who had to remain in India to oversee launch preparation for India's first spacecraft to Mars. The launch window for India's **Mars Orbiter Mission (MOM)** is from Oct. 28-Nov. 19, and the spacecraft, **Mangalyaan**, which is Hindi for "Mars craft," arrived at the Sriharikota spaceport the first week in October.

The Mars Orbiter Mission is designed largely as a technology demonstrator, to test equipment for deep-space travel. Its scientific instruments will look for methane in the atmosphere, which could be a signature of life. Indian scientists report they are not at all discouraged by recent data from NASA's Mars rover Curiosity, which did not detect methane in the atmosphere of Gale Crater. There is a whole planet to explore!

'Leadership?'

NASA Administrator Charlie Bolden claimed, in his remarks during the first session of the Congress, that he "leads the world's leading space-faring nation." Since other space agency heads on the panel had confirmed their interest and plans for cooperation with China, Bolden's remarks led the moderator of the panel to ask the hapless Administrator: "Does this mean Charlie Bolden is 'home alone?'" referring to the American movie of that name, in which a young boy is accidentally left home when his family leaves town for Christmas.

The policy of excluding Chinese participation in U.S. space projects, a slap in the face not only to China but to the world scientific community, has encountered vocal resistance. America's most accomplished scientists studying extrasolar planets announced during the



India Space Research Organization

Indian engineers and technicians place the scientific instruments in the Mars Orbiter Mission spacecraft, readying it for launch as early as Oct. 28. The craft builds upon India's Chandrayaan lunar mission.

first week in October their refusal to participate in their own upcoming technical conference, the 2nd Kepler Science Conference (Nov. 4-8), because scientists who are Chinese nationals, and have been doing research at U.S. universities, were not allowed to register for the meeting.

Leadership is not expressed by successfully carrying out projects that were designed years or even decades ago. Leadership is the ability to look into the future and move society in the direction required to get there. President Kennedy's leadership in space was that he could look, with passion and imagination, a decade and more ahead, see where he thought the United States should be, and approve the plan to get there.

China and the newer space-faring nations of Asia are not in a race with the U.S., Russia, or primarily even with each other, as is often asserted. They are not satisfied with the present, and they certainly have no thought of going backward. They are planning for the future.

That, Mr. Bolden, is leadership.

Art, Science & Sense-Perception

by Lyndon H. LaRouche, Jr.

October 21, 2013

*I now continue the examination of those topics which I had first introduced in my June 10, 2013 report, topics introduced under the title of **Nicholas of Cusa, Kepler & Shakespeare**.¹ To which, I had later added those supplementary references which had been published in my September 21, 2013, **Contemporary Pseudo-Morality**.² I now go on, to resume the process of this discussion from the point where I had left off in the course of producing those two earlier items. My subject here and now, has brought us to the fact, that any notion of sense-perception taken literally, presents us with a mere shadow of the actual relationships among mankind, up to the point at which people are being presented with what appear to be, physically, shadowy effects, effects which are based on mere sense-perceptions as such.*

Consequently, the set of actual relationships being treated by me here as the subject for our examination of matters, is located presently in ideas which are associated with an essentially misguided, but a still popular delusion, one which is rooted in a stubborn error of belief in mere sense-perception as such. In fact, sense-perception represents a dubious form of dependency on a certain, cultivated system of belief which had been premised on presumptions situated within the essentially imaginary, and often dubious limits, of presumptions which are to be attributed to any set of mere sense-perceptions as such. Some sense-perceptions are to be regarded as the likeness of a set of the footprints which had been apparently cast on the mind as if they had been merely pains without substance.

1. [EIR](#), June 21, 2013, or [LaRouchePAC](#)

2. [EIR](#), Oct. 11, 2013, or [LaRouchePAC](#)



It is time for mankind to achieve a “‘fourth state’ of maturation of the human species,” LaRouche writes: “the realization of a newly added, higher category (a fourth) of the human mind: (foetus, child, post-adolescent, and “transcendental”): e.g., ‘forethought,’ ‘noetic.’” Shown: “Old Woman Reading,” Gerrit Dou (a student of Rembrandt, c. 1630).

I explain. Sense-perceptions are to be properly defined as being merely a kind of shadows, and should be recognized as such, if and when they are treated according to a higher order of reality. That had been done by those from among the greatest figures of modern science, such as Nicholas of Cusa and his discoveries, as in his *De Docta Ignorantia* (1440), in which he had already demonstrated that to be the case. I mean the actual reality of the proof of the discovery made by man’s creative demonstration of all that are properly known as being universal physical principles, as this was demonstrated implicitly in such exceptions as the work of both Max Planck and Albert Einstein, in particular. The basis for that class of true knowledge, corresponds implicitly to the precedents of the opening statements by Bernhard Riemann, as in the opening statement of the plan of his hypotheses respecting the founding of what had been actually a physical geometry, in his habilitation dissertation.

In the ideas of the “physical principles” of

inter-action as such, there are those ideas which reference such phenomena as being reflections of actually “Classical compositions,” even in our notions of the experience of our own living bodies. That subject-matter is to be treated presently, as being an extension of the themes which I had introduced earlier, since June 10 of this present year.³

Now, the time had come, even before mankind had set foot on neighboring planets (notably, such as Mars, or some asteroids, or a return to a landing on the Moon, or acts to bring some menacing asteroids under control). There comes a time when it is already necessary to lessen what had been our customary attachments to hitherto admired presumptions, based on biological experiences premised upon mere human sense-perceptions as such. The time has come, to shift attentions less upon human sense-perception (in the customary sense), and more to our role in acting **with foresight into the actual future**, within the relations of the identity of the mind of the human individual within the universe, as much as we might presently come to know that universe.

By stating that, as just done, I am implicitly arguing here for the establishment of a newly incorporated, “fourth state” of maturation of the members of our human species: the realization of a newly added, higher category (a fourth) of the human mind: (foetus, child, post-adolescent, and “transcendental”): e.g., “forethought,” “noëtic.” By this use of the term otherwise knowable as “transcendental,” I mean that we are to be considered heretofore as prisoners of the kind of immature, mistaken state of belief, the dubious belief that mere sense-perception is the author of reality.

By “transcendental,” I am now indicating, as I often had in times past, for emphasis: the notion of the human individual identity, as no longer a prisoner of mere sense-perception; but, rather, that we need to emphasize the fact, that it

3. I.e., only the ironical character of true principles, is uniquely demonstrated as being proven: that, by the universal uniqueness of their actual occurrence. The most ordinary so-called, doctrinaire, classroom mathematical physics, like that of the dubious Euclid, is **essentially**, merely deductive. This does not signify that the teachers of such stuff were foolish, but merely that they had been misled.

*is the specifically human mind which is the actually existent personality which must be properly associated with the notion of a human individual's personality: the domain within which both science and Classical artistic composition combine, in effect, as noëtic: the only true "substance" of the actually living human personality. Or, might we not say: "Soul?"*⁴

Then, this much now said, if sense perceptions are merely shadows, what is reality? The answer? Discovered physical principles, such as the discoveries in niches of physical science where we are confronted by such as the discoveries of such as Max Planck and Albert Einstein, (or, earlier) Nicholas of Cusa, Johannes Kepler, and, later, Johann Sebastian Bach, Wolfgang Amadeus Mozart, Beethoven, Schubert, Schumann, Brahms, and Wilhelm Furtwängler, et al., all expressed in the principles of Classical music, and, also, principles of truly Classical dramatic composition for the stage, the latter as in contrast to the centuries of such bad examples as Aristotle and Euclid.

Creation works as if from above: creation is, actually, nothing less than the uniquely human prescience of the future!

I. Rejecting Bad Habits

There should be no reasonable adult's personal objection to the claim, that the human species represents a quality of life absolutely distinct from all other living species presently known to us. Unfortunately, there could be very many persons, thus far, who would agree to that use of language, but, unfortunately, almost none of those who would literally speak such words, would correctly identify what those words should be understood to signify.

I explain my report on this subject-matter, as follows (I therefore repeat the following point):

The most critical, and also most common error of presumption among human beings presently known to cultures with which I am familiar, is the widespread, but gravely mistaken presumption, that sense-perception, as

such, is the elementary waiting-room of "fact," within whose bounds the discovery of primary actual human knowledge lies. That belief in such a merely deductive sense-perception,⁵ had been freshly exposed, notably, as being shown to have been a fallacy, as since modern civilization's discoveries of such works as Nicholas of Cusa's **De Docta Ignorantia**, and the subsequent work of his outstanding follower in such matters of physical science, Johannes Kepler. In fact, Nicholas of Cusa, like the latter's most notable follower in science, Kepler, had recognized the essential foolishness of any a-priorist, so-called "practical man's" brutishly pro-oligarchist attempt to substitute something else for the essential principle of human reason. *I mean: the unique principle of the presently, actually rarely understood principle of human reason: the actual foreseeing of the future.*

The crucial evidence pertains to the manifest fore-sights expressed, chiefly, among exceptionally gifted thinkers: including such relatively outstanding moderns as Max Planck and Albert Einstein.

I continue that argument as follows.

For the purposes of the appropriate pedagogy respecting this subject immediately, the simplest demonstration of the absurdities of much of presumably educated scientific principles, can be best found through a rigorous study of the foolish doctrine of so-called "sense-certainty," a fraud which is suitably illustrated by the reductionist's hoax which is named "Euclidian geometry." What should have been considered as the obvious correction needed? What should have been the only truthful principle of physical science, would have taken its origin from a certain, special quality of knowable subject, from mankind's converging "practical," wider experience of the universe: the principle of a converging expansion in, specifically, that quality of knowledge. Take the following illustration into account for this purpose.

Mankind, a Unique Species

Take known history, as if from the top, down.

Mankind, according to my presently known evidence, bears evidence specific to those among our own living species, and its unique relationship to the function of the included principle of "fire." "Fire," so defined, is directed according to man's mustering of successively higher orders of fire (e.g., "energy-flux density"), which is to be used as the power which man

4. Cf. LaRouche, op. cit., footnote 1.

5. Better said: "self-deception."



It was the intention of Cusa “to free the brutally subjected victims of Mediterranean-centered imperialist systems,” by inspiring what became the voyages of Columbus to the “New World.” In his painting, “The Harvesters” (1565), Peter Bruegel the Elder contrasts the bestial-like state of the peasantry, with the wide world that opens up across the great ocean.

employs as our species’ process of climbing upward, as by discrete intervals, towards goals of ever-higher orders (e.g., “leaps”) of man’s selection and employment of “energy-flux density” as a method: as mankind’s own, practically universal meaning of “fire.” The ordering of successively higher ranges of “energy-flux density,” in discrete, rather than merely gradual leaps forward in chemistry, is a convenient definition of the function associated with mankind’s practiced use of “fire,” so estimated.

So far, a prevalent “textbook” quality of what is actually best identified as misleadership, the which is common among the nations of mankind, has acted to block against permitting the practiced notion of a systemic increase of energy-flux density into that “realm” of the thermonuclear fusion which had been already implicit in the extension of the intervals of leaps in progress of such as Bernhard Riemann, Max Planck, and Albert Einstein (and others)—and of Nicholas of Cusa and Johannes Kepler before them. That limitation must now be breached, despite the leading opponent of mankind’s progress, that Anglo-Dutch empire, which opposes mankind’s opportunities for what is presently, even desperately urgently needed progress: e.g., defeat-

ing the “green disease” imposed by the Anglo-Dutch imperium.

The evil expressed, that as a more or less world-wide corruption spread, most notably, by the Anglo-Dutch imperium, is not unique in the known history of the human species. In general, for the known history of mankind, our species’ own knowledge of a recorded history of that species itself, has been dominated by what modern evidence identifies as imperialist systems. These have been systems which have been indicated as being (usually) a relative minority engaged in crushing a subjected majority, as the Roman empire, and also the contemporary Anglo-Dutch imperium, demonstrate this

in practice, currently.

What has remained the most notable, particular achievement of Nicholas of Cusa, had been to have sought to free the brutally subjected victims of Mediterranean-centered imperialist systems, which Cusa did by charging his heirs-in-principle to direct the way “across the great oceans,” and thus away from the virtual “captivity of political and cultural foolishness” prevailing through the means of the imperialism which had usually occupied the Eurasian territories over prolonged intervals. That achievement had been expressed as the deeply embedded intent of Cusa, the intent to permit the human species to escape from the imprisonment of oligarchical systems, such as those systems which had long imprisoned nations of continental Europe, as presently and at the time of Columbus’ adoption of the pledged intention of Cusa. The original creation of our United States, by Cusa and his followers in this effort, had thus been the principal instrument created with the intention to free the nations from the oligarchical tyrannies of the imperialist-dominated systems of Eurasia.

It might be difficult, although not impossible, to scrutinize the effect of the colonization of the Americas

by Cusa's specific influence, in inspiring European and other resistance to the depravity ongoing in Europe which Cusa's devotion had bestirred at that time. However, that devotion of the mission to the Americas, has been, in effect, crucial up to the effects of the aftermath of two "world wars" and their sequels since the time of the ouster of Germany's Chancellor Bismarck.

Thus, Cusa and Columbus did succeed, at least most significantly, in their respectively intended missions, but mainly also within imposed exterior limits. Nonetheless, the emergence of, first, the successes which did succeed, temporarily, in the Massachusetts Bay achievements until the Nazi-like, Dutch mass-murderous attacks of the 1640s, had ignited the spark ignited by Cusa, which led, in turn, to the later century's creation of the United States, which had, in turn, thus, achieved the moments of our republic's successes in its mission, up to the presently perilous times.

The typical instrument of imperialist practice, as in Europe, has been the "oligarchical principle" which is currently typified by the same Anglo-Dutch imperium now tyrannizing a great part of the subjected human species, as throughout a great part of Europe, presently, and now also the foreign, imperialism-directed elements of leadership of the United States itself, especially since the repeal of the Glass-Steagall law. The murderous ideologies typically expressed by the oligarchical types of subjection of the majorities of the Mediterranean-centered peoples to the systems of Aristotle and Euclidean dogmas, typify the systemic practices of the imperialist systems generally, such as those associated with the Anglo-Dutch imperialism and its present, tyrannical, Saudi-Arabian lackeys which had been employed in the terror launched in the U.S.A. called "9-11."

Imperial tyrannies have thus been superimposed upon the human species generally. Aristotle and Euclid are merely typical of this evil, as was Ancient Rome: all such had been typical of imperialist ideology and its associated practices. Today's nominally "British" (i.e., Anglo-Dutch) empire, as expressed in the mass-murderous rampages of its "Wall Street" puppet, is among the archetypes of evil in the world for today.

The foregoing summary points, are those which I continue to emphasize up to my delivery to you of this present report. It is the most relevant fact, that those wicked such misconceptions often adopted in the abused name of "science," such as the cults of Aristotle and Euclid, are typical of the evil of the cults which are

at the root of the threatened extinction of civilization immediately threatened now. Once we had cleared our heads of those ideological delusions traced to the legacy of the cultural depravity which had been typified by the Roman Empire, and which had also been the enemy of the Christians (and others), the way could be cleared for the necessary discovery of a true physical science. However, until we rid mankind of the pestilences of the oligarchical ideology of the ironically, appropriately titled "Netherlands," (and of London and Saudi Arabia), it were likely that the human species might probably soon be rendered extinct.

The Fallacy of Mere Sense-Perception

Real history shows that mankind, and the human mind, have been created and developed within the Solar system accordingly: not according to the dogma mustered to generate the interpretation of the human mind according to some farce such as the British-like legend of the alleged "evolution" of the human brain. The true case of the actual human mind, is clearly implicit in the history of the evolutionary process of development of living species; "human history itself," properly conceived, is determining, as the source of the uniquely specific evolutionary progress of the human species demonstrates this with a certain relative finality.

As the relevant chemistry of "energy-flux density" demonstrates, human progress evolves along an evolutionary track of biochemistry: *that of higher rates of concentration of energy-flux density*. The evolution of the chemistry of the human evolution along such a track of roughly rising energy-flux density, has been, in turn, willfully driven by the absolutely essential role of ***the human noëtic quality of will***. Somewhat analogously, living processes generally, and also their evolution have the form of an expression of willful evolution of species. Contrary to all reductionist opinion respecting living processes, continued human existence is, most explicitly, *willfully* "upwardly" evolution-driven. Mankind is the one different species presently known to us; it is the willful aspect of human life, which generates the basis for the specific characteristics underlying the functions of the human will, unless that is resisted, or even willfully reversed. The direction is given, not by the species as such, but by the potential shaped along the track followed by the species. The specifically human expression of this, is that human evolution has been conditioned by the course taken by the human will's impact on the direction of the other species.

II. What Dooms Wall Street Now?

The lesson urgently to be learned here, is typified by the fact that the Roman empire was thoroughly evil, top-most down, that like the evil Zeus throughout his fabled existence as a satanic emperor-in-fact who called himself “God.” That evil was then typified by the genocide at Troy. The very notoriety of the name “Satanic,” is, by no means, an unjustified charge to be made against Zeus himself, or, more important, his likeness on that account to the present day.

“Satanic” is a charge to be placed against all truly imperialist systems, such as European Anglo-Dutch, imperial system, especially at this present time when genocide even worse than that by Adolf Hitler, is the frankly expressed intention of the present reigning command of the so-called “British empire” which has been, most certainly, no exception to that wicked legacy. Queen Elizabeth II, has made that claim repeatedly and publicly in recent years: it has been her stated policy for the planet, as expressed by the so-called “green” policy of “population reduction” of the human population, from approximately seven billions persons, to no more than one billion; that policy is currently in accelerated practice, as, presently, under the Queen’s own Barack Obama.

An evil of similar characteristics to that Queen’s stated intentions, is to be readily encountered among the monetarist oligarchy operating against our U.S. Constitution, within our own, present United States. This represents an evil of modern times which had been always, chiefly, a product of the subversive influence of the so-called “British monetarist” (i.e. Anglo-Dutch) system of asserted world empire, as its extended banking systems have polluted our United States repeatedly, not only since its founding, but by the Dutch tyranny which had supplied the actually presently reigning foundations of the so-called “British empire.” That, in turn, is to be contrasted to the truly lawful constitutional principle on which the creation of the United States had originally depended, upon the principle which has depended upon the codified form of the U.S. Constitution’s definition of a credit system (rather than an intrinsically corrupt monetarist system), and upon the role which the economic genius Alexander Hamilton showed in making possible the establishment of a functioning U.S. republic under our first President, George Washington.

The center of the monetarist corruption of the presently current abuses wielded against that Constitution, was centered, early on, on the nominally British-Empire-controlled monetarist system: the system of evil which had been represented by the intrinsically treasonous and thoroughly evil British agent, Aaron Burr, and such dupes and followers and tools of Burr, and of his legacy, as that was continued by such U.S. Presidents as, in fact, Andrew Jackson, Martin Van Buren, James Buchanan, Theodore Roosevelt, Woodrow Wilson, Calvin Coolidge, Herbert Hoover, Harry S. Truman, Richard Nixon, George H.W. Bush, George W. Bush, Jr., and an especially weird and vicious fanatic, the British imperial puppet Barack Obama. Even more horrid cases than those can be often found, similarly, in Europe, as in the British system, and in the Dutch system of which the British system has been a continuing outgrowth, and so on, and on, thus far.

Particular notice must be given to the crucially significant role of assassinations of such as a relevant selection of our very best Presidents, including such as President John F. Kennedy, and that of his brother Robert. So also to similar efforts against our nation’s military and other professional leaders of outstanding quality, throughout their careers in both service and retirement, such as the General Douglas MacArthur who, according to the best of my present information, did live out the allotted span of his life peacefully, despite the assassination of MacArthur’s personal associate, President John F. Kennedy.

The particular point which I emphasize most pointedly in this immediate report, is to be placed upon the assassination of Alexander Hamilton by the British spy and frequent murderer, Aaron Burr, and upon crimes by other British tools sharing Burr’s pro-satanic affinities and actions. Wall Street, like the silly and obscene board-game named “Monopoly,” has, had, generally, the same, essentially treasonous qualities in principle of practice respecting our United States, as that had been done earlier, in the train of the purely evil, British agent Aaron Burr, and his legacy.

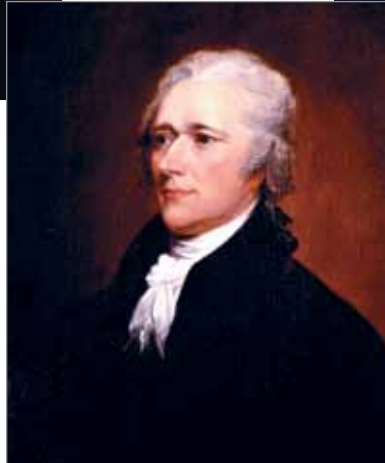
The Sheer Evil of Monetarism

The most often overlooked concept implicit in the adoption of the U.S. Federal Constitution (which that Constitution had then required), lay in the distinction of the intended principle of a credit system, as systemically opposed to a foreign monetarist system. The distinction, respecting the notion of that precious princi-



Wikimedia Commons

Alexander Hamilton (below): the founder of the original economic policy of the United States; the bold and masterly James Monroe (left); and John Quincy Adams, the organizer of the system of economy of the Federal states.



rather than a mere profit from the price. The original economic policy of the United States, was led in its time by the genius of President George Washington's Alexander Hamilton, who was its founder, as later by such among later Presidents as the bold and masterly James Monroe, and then the organizer of the system of Federal States of the

ple, is that the essential, also intrinsic evil characteristic of a monetarist system, is what is identifiable as gambling, as typified by the U.S.A.'s pestilence known as "Wall Street." That connection requires strict attention to *the principle of credit*, rather than the intrinsically thieving monetarists' predatory rules. In short: the value of the exchange lies in the standards for an increase of social productivity (which depends upon a credit system, like that of our original Constitution), rather than a money-system.

This monetarist model, as opposed to the crucially needed standard of a credit system, is a fraud which became, often, the means to pollute, and thus ruin, the intercourse between the United States and the systemically inferior qualities of the design of the presently ruined European monetarist systems presently: the so-called "Euro System" which had been thrust virtually down the throats of subsequently looted nations of continental Europe, that done by the leading combination of Mrs. Margaret Thatcher, George H.W. Bush, and the President of France, François Mitterrand—and beyond. Europe is now being destroyed by means tantamount to mass-murder among the populations of the "Euro" system.

Thus, the proper intention of the increase of the per-capita, net physical productivity of the human species and its properly sovereign governments, lies within the per capita usefulness of both the product, and of its use,

territorial organization of the economy of both the then-present and future states, and the greatest in his own lifetime, John Quincy Adams; and, then, such later greatest Presidents as (the assassinated) Abraham Lincoln; (the also assassinated) William McKinley; Franklin Roosevelt, a notable true leader; a President Eisenhower whom I had personally admired as a prospective replacement for the wretched President Harry S Truman; and, then, the assassinated President John F. Kennedy. President

Ronald Reagan, if permitted, could have become known as a much needed, and accomplished President, but for the presence of such as his Vice-President George H.W. Bush, who had been a wretched choice of Vice-President, and a terrible President, while his son President George W. Bush, and Barack Obama, have proven themselves to have been the worst so far (if there would be any to follow in that office). The U.S.A. had been created as a great nation, but for its recurring burden of all-too-many British agents and kindred calamities tossed into the collection.

That much said, to serve as a point of reference here: the increase must be in physical economy, not a monetarist system. A more efficient growth of physical production and related processes, is now a matter of life-or-death for this republic (and also of other nations). Technological and productive improvements in scale. The question thus posed, lies with the active fertility of the product generated. An urgently required measure, is the notion of increase of energy-flux density obtained through a better product and a better intrinsic factor of growth of the United States itself, and its needed relatively immediate participation in physically efficient increase in consequent productivity through aid of thermo-

nuclear-fusion's required, particular role of spanning the region concentrated from the United States, westward from the Mississippi River across the Pacific and the Bering Strait, deep into the regions of East, North, and South Asia: all to be done as President John Quincy Adams would have done, and as he did, during and beyond his own incumbency in the Presidency.

To restate the same point in a necessary choice of terms, it is the rate of gain by the society *per se*, not merely the matter of price, which must be considered as a determining consideration. The defining words for such missions, are "better" and "more." To restate the point, the transformation to become greater and better, as in keeping with the principle of human existence.

That which I have just emphasized can be better understood in terms of public works, rather than quantity and quality of specific kinds of salable goods. Stated otherwise, that means a commitment to a higher quality of the conditions of existence of the human population, rather than a competitive price of product. It is in that distinction, that the worst evils of monetarist practice have continued to reveal themselves on this account. This, therefore, requires a competent economics entirely outside of the domain of simplistic notions of "mere competition." There, economic sanity, properly considered, begins. At this point, biology intervenes to assist us in clarifying the nature of the challenge to the proof of mankind's ability to succeed as a species. The story is not "just about biology;" it is about "willful self-evolution" upwards by means of the increase of humanity's energy-flux density per-capita, and per-unit of area, as expressed by progress in the self-improvement of living species, especially that of the human species itself, but, most essentially in terms of the directedness of the increase of energy-flux density per capita. The needed measures are expressed, in effect, in relative degrees of "energy-flux density," as, for example, now, the prospect of "thermonuclear fusion."

Reductionism is much worse than being merely



NASA/JPL-Caltech/MSSS NASA

"Imagine Mars' celebrated role as reflecting that of 'Curiosity' on Mars now. Arriving there, Man had conceived 'Curiosity,' and placed 'Curiosity' on Mars, but not mankind." Shown: A "self-portrait" of Curiosity on Mars, a mosaic composed of numerous images taken on Feb. 3, 2012, by the rover's robotic arm (not visible in the photo).

bunk. It is systemic mass-murder among the population of the United States, now already continued at intended accelerating rates, already under way in a typical U.S. community, as in the City of Detroit, presently.

III.

Man Beyond Earth

With this present chapter of this report, the time has come when we must have proposed to cease to limit our discussion to the confinement of the human species to an intellectual prison defined to be within the habitations of Earth. With this change, we will have finally been freed from the degree of reliance on the mere sense-perception to which we had been confined by the effect of confinement to Earth earlier. Henceforth, we must intend to live soon in an expanding commitment to humanity's now indispensable roles for entirely new tasks beyond the bounds of Earth itself, thus locating mankind's existence, as still on Earth, in effect, but in exerting effective management over an expanding role of developments within the Solar system beyond the more nearby role of Earth itself.

The resulting experience will be unique, in and of itself. However, there is an added chapter, yet to come.

Reality has already beckoned our “Basement” team’s practical concerns. True facts have already depended upon the exploration of the compelling imagination. The fault of the motion-picture has been, that it never actually represented actual human progress in and of itself.

Imagine Mars’ celebrated role as reflecting that of “Curiosity” on Mars now. Arriving there, Man had conceived “Curiosity,” and placed “Curiosity” on Mars, but not mankind. Man is now as assigned to planning for work on Mars under man’s control, a control exercised, primarily, from Earth. Barring encounters with presently unknown cases of living species on some planets within the system, and given the graces which might permit temporary or other human habitation on Mars, the image of a human landing on Mars has been a necessary image for purposes of orientation, as I had expressed that point, myself, in my **Woman on Mars**⁶ feature: but, that is not the essential next step for dealing with nearby Solar space. It should now be made clear, that the deployment of human beings to the Moon, will be a necessary, included feature of our approach to the options for mankind’s ability to organize a system of “mechanized” productive occupation on Mars, in particular. Thermonuclear-fusion propulsion must be the means deployed from Earth, which must come before actual human occupation.

For example:

With the placing of assigned synthetic creatures, such as “Curiosity” working in place, a new freedom of mankind, one ironically echoing Bernhard Riemann’s opening statement of the opening plan of the famous hypotheses of his habilitation dissertation, springs forth in the necessarily provoked imagination, bringing our



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The defense of Earth against the threat of asteroids and related conditions must be considered as a primary responsibility of mankind today. Shown: a meteor speeding toward Earth, which then exploded over Chelyabinsk, Russia on Feb. 15, 2013.

species into an active role within relatively nearby regions of Solar space, and, also, inevitably far beyond.

I restate the point.

This remark of mine should not imply any immediate intentions for committing human beings to actually dwelling on locations such as Mars. It does mean that mankind on Earth must assume direction in control over a relevant, and expanding zone of responsibility for exerting useful activities governing security and progress respecting Mars and the system of asteroids over which mankind must exert control from headquarters Earth. Mankind will remain inhabitants of Earth; but the mind of mankind “will be permitted to return home (spiritually) at Solar dusk.” It is the Solar system as such which should be the target of our sense of mission.

This prospect shall, therefore, compel us, to distance ourselves from what had been heretofore the intellectual confinements of mere Earthly sense-perception. The fact which we come to recognize will be that what human sense-perception is, in practical effect, will be merely an auxiliary agency intended for the virtual childhood of our future role in nearby space, a kind of robotics of a currently still naïve human species. That, will bring mankind towards an ending of that strict worship of the limited usefulness of merely, Earth-oriented sense-perception as such. What I have emphasized, as I do here, respecting the need of mankind to loosen the chains of confinement of the species by the merely aux-

6. A March 3, 1988 television broadcast of a campaign video, “The Woman on Mars,” by then-Democratic Presidential pre-candidate Lyndon H. LaRouche, Jr. [The shooting script](#) was published in *EIR*, Jan. 1, 1994.

iliary “sense” of sense-perception, has been implicitly an essential step which mankind must ultimately achieve, if we are to come to understand the expanding ranges of the Solar system which we implicitly soon will begin to occupy.

The defense of Earth against the threat of asteroids and related conditions must be considered as primary.

What should be readily obvious to thoughtful scientists now, or relatively soon, is the highly practical consideration, that to deal with our Solar system’s requirements of us, we must achieve an acceptance of those kinds of challenges which relatively nearby Solar space will demand of us, increasingly. The experience of having learned to fly in aircraft, should illustrate the point, as the problems of meeting the requirements of flight into within, and beyond the range of scramjets might suggest.

Among those of my associates who are giving attention to the special problem of defense against threats from such as comets beyond the mode of asteroids, we are confronted with study respecting more challenging than threats from more distant regions.

IV.

The Logic of Sense-Deception

Creation works as if from above: creation is, actually, nothing less than the uniquely human prescience and passion of the actual future!

—A return, thus, to where this report had begun.

As I had stated here, from the start, the quality of human existence, and its development, proceeds as if from action on the future, toward what had been a view from one’s re-examination of the past. The very idea of the co-existence of both a present and future, depends upon a human conception of mankind’s experience taken from a contrasting astronomical experience of an existing notion of an actual future, shared most intimately with a contemplated past. Any contrary judgment bespeaks a poor, foolish, practical man’s “flat Earth” mentality. In other words, we must consider ourselves responsible, concurrently, for both our own present and our past.

Admittedly, what I have stated in the paragraph immediately above, does not accord, at first blush, with customary opinion respecting the functional relationship between past and present. The customary mistake is to treat the two as essentially being separated cate-

gorically. Actually, for qualified observers, there is a difference in polarity, but both are actually “of the same body;” they are not actually separable. Acknowledged, that popular opinion does not recognize the distinction which I have just identified. That is not actually a separable state of affairs; the apparent separation is often simply a commonplace incompetence of what pass for popular opinions. Cultures generally are filled with such incompetencies as that which I have just identified and properly blamed.

There is little that matches that case better than a view of warfare viewed from a Classical view of its past. Ah! But, only the worst of all imaginable nitwits would consider entering modern thermonuclear warfare at this present time in world history. Indeed, those who seek modern warfare, are intrinsically depraved creatures, as the policies of U.S. President Barack Obama’s behavior, and that of the Anglo-Dutch tyrants, have brought all mankind close to a true vision of the horrors of an extinction in a thermonuclear Hell.

To reduce that discussion to a seemingly suitable conclusion, the problem which I have just summarized, above, finds its relevance in a certain, but nonetheless tumultuous, synchronisms of a past and present, or Heaven and Hell. There is nothing in what I have now written here, which does not correspond to the reality of mankind’s role within our Solar system as a whole, or higher realms beyond. On that account, it would be not unfair to regard mankind, as it often behaves presently, as often, perhaps, the greatest fool in the galaxy, if, perhaps, the greater fool were simply the likes of an inherently wretched Wall Street.

There is a higher mission, which presents an alternate outlook on the meaning of mankind’s future. The distinctions among such clinical cases as notions of such as a not-living, or living universe, demand a truthful quality of prescience respecting the intention which members of our species should perceive as the meaning of our personal existence within a society embracing such subject-matters as its sense of a living of a true intention, or, at the least, a fair and active outlook on issues of policy situated not only within our nearby view of the immediate relationship to the Solar system. We are obliged, when we have reached one such more immediate choice of goal, to extend ourselves, ever-relentlessly, to embrace a higher order of category according to this meaning. The failure to adopt that perspective, would leave us in, perhaps, a monstrously fearful state of existential uncertainty.

The resolution of that implied paradox, is to be found in an outwardly unfolding quality of limitless universality.

The true mission which actually lies ever before us, is, thus, the true meaning of our proper existence.

I have chosen the immediately foregoing ironies, chiefly because they are in accord with the actual facts which are customarily overlooked by most commonplace contemporary opinion. For such a case, it is established conventions and related popular opinions which are the mistakes committed, the mistakes which are rooted in the rejection of even elementary sanity. The histories of both ancient and modern cultures are ripe with such devotions to an errant notion of both the present and the past. It is precisely the commonplaces which are the customarily criminal intentions which have both the power and inclinations to bring destruction upon the allegedly “true believer.”

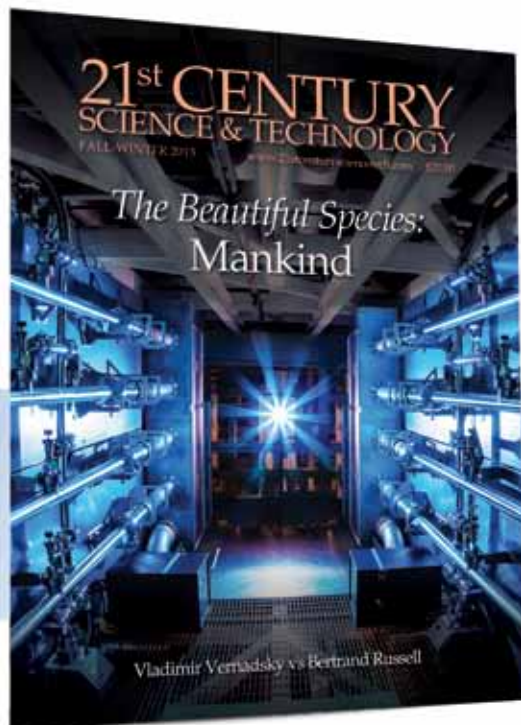
Consider, for example, the case of contemporary practices of what is called (fraudulently enough) “environmentalism.” There has been virtually no truth in what is currently professed to be “environmentalism;” in fact, the effects have been clearly insane in effects. As I have often enjoyed the effect of making the rele-

vant point, “the important fact is the effect.”⁷ The environmentalists are driven largely by motives which are evil in their characteristic effects. There are also the evils which are the fruit of stubbornly habitual social traditions brought forth from lack of profound changes.

Obviously, my concern on such accounts is the consequences for the future, either of the achievement, or of the ghastly errors of prevalent opinions, such as, for example, the outcome of the Hitler regime, or the Anglo-Dutch. There is also a much more sophisticated approach to be taken on the account of my central argument in this present case: the always urgent evidence of necessity.

However, in looking over the accounts of human history within the Solar system this far, the chiefly required changes are those which promote higher qualities of net outcomes in terms of solutions derived from relevant applications of higher energy-flux densities. The case of the presently urgent realization of applications of general promotion of net energy-flux densities of applied thermonuclear fusion, is a case urgently wanted on the world’s table now.

7. “Die Hauptsache ist der Effekt,” from the 1960 German film **Spuk-schloss im Spessart**.



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Energy-Flux Density

by Benjamin Deniston

This article appeared as Appendix 1 in the 21st Century Science & Technology Special Report, “[Nuclear NAWAPA XXI: Gateway to the Fusion Economy.](#)”

The first evidence of a distinction between mankind and the apes comes with the first appearance of ancient fire pits, used to control the power of fire for the betterment of the conditions of life of those wielding that new power.

From that time onward, mankind could no longer be characterized biologically, or by biological evolution—the evolution of the creative mental powers unique to the human mind became the determining factor. Biology took a backseat to the increased power of thought wielded by the human species.

This is the secret—and science—of economic growth, and is expressed in the control over successively higher forms of fire. This started with transitions to more energy-dense forms of chemical combustion, from wood-burning (and charcoal), to coal (and coke), to petroleum and natural gas. The developments around the end of the 19th Century showed mankind an immense potential beyond chemical reactions: the fundamental equivalence of matter and energy, as expressed in the domains of fission, fusion, and matter-antimatter reactions, each with qualitatively higher energy densities.

Control over higher energy densities drives the increase in what Lyndon LaRouche has identified as the energy-flux density of the economy, as can be measured by the rate of energy use per person and per unit area of the economy as a whole. As is illustrated in the accompanying articles (“A Call for An International Crash Program: Creating the Fusion Economy” and “Nuclear Agro-Industrial Complexes for NAWAPA XXI,” in the Special Report cited above), this increasing power drives qualitative changes throughout the entire society—creating fundamentally new technologies, new resource bases, new levels of living standards, and, actually, new economies.

For example, start with the simple rate of biological energy usage for the human body, about 100 watts (as sustained by eating a standard 2,000 calorie diet). As-

suming a hypothetical pre-fire civilization in which everything is done by human muscle, the power employed to sustain the “economy”—the power of labor—is only 100 watts per capita.

Compare this with the growing per capita power usage throughout the history of the United States. At the time of the nation’s founding, the wood-based economy provided around 3,000 watts per capita, a 30-fold increase over the muscle power of a fireless society. Then the widespread use of coal throughout the economy increased the power per capita to over 5,000 watts by the 1920s, and the implementation of petroleum and natural gas brought this to over 10,000 watts by 1970—100 times the per capita power of our hypothetical fireless society (**Figure 1**).

With each succession, the previous fuel base declines as a power source (allowing it to be used for things other than combustion, as wood is used for construction, and petroleum should be used for plastics

TABLE 1

The Energy Density of Fuels

FUEL SOURCE	ENERGY DENSITY (J/g)
Combustion of Wood	1.8×10^4
Combustion of Coal (Bituminous)	2.7×10^4
Combustion of Petroleum (Diesel)	4.6×10^4
Combustion of H_2/O_2 (only H_2 mass considered)	1.2×10^5
Combustion of H_2/O_2 (Combined mass considered)	1.3×10^4
Typical Nuclear Fuel	3.7×10^9
Direct Fission Energy of U-235	8.2×10^{10}
Deuterium-Tritium Fusion	3.2×10^{11}
Annihilation of Anti-Matter	9.0×10^{13}

Fuel energy densities. The change from wood to matter-antimatter reactions is so great that progress must be counted in orders of magnitude, and the greatest single leap is seen in the transition from chemical to nuclear processes.

and related non-combustible products of the petrochemical industry).

Following the post-World War II developments, nuclear fission power was fully capable of sustaining this growth rate into the 21st Century. In a conservative estimate based upon previous growth rates and the potentials of nuclear power, this should have brought the U.S. economy to a level in the range of 20,000 watts per capita by some time before the year 2000.¹

By then, assuming the nation had maintained a pro-growth orientation, as fission power was becoming the dominant power source, the beginnings of applied fusion power should have begun to emerge. With ocean water becoming an effectively limitless fuel source for fusion reactors, the U.S. economy would have been on a path to an energy-flux density of around 40,000 watts per capita, and beyond, in the first generation of the 21st Century, four times the current value of 10,000 watts. Again, this would not simply be more power for the same economy, but a fundamentally new economy.

However, this natural growth process was halted with the takeover of the anti-progress environmentalist movement, a shift, then, which sent the economy on the direct path into the attritional collapse being experienced, now—a collapse process accelerated by imposing policies which lowered the energy-flux density of the economy.²

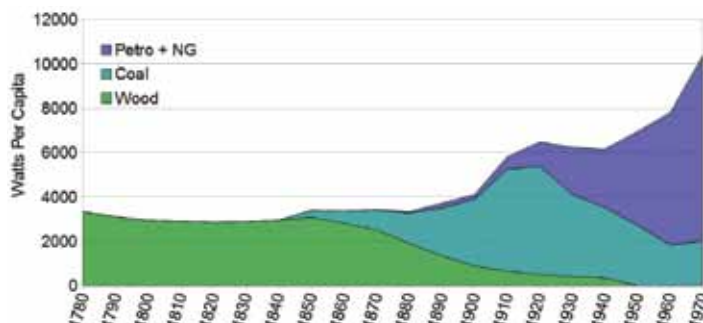
As is clear in **Figure 2**, nuclear fission power was never allowed to realize its full potential, and the energy-flux density of the economy stagnated and began to collapse.

1. If a serious economic policy had governed the nation following World War II (as was intended by Franklin Roosevelt, but reversed by the Presidency of Harry Truman), a higher level could have been reached more quickly.

2. This was not some happenstance change, but resulted from the top-down strategic intention of the Anglo-Dutch Empire, whose leaders have been explicitly and openly operating on a policy intention of reducing the world population to less than 1 billion people.

FIGURE 1

U.S. Power Per Capita 1780-1970

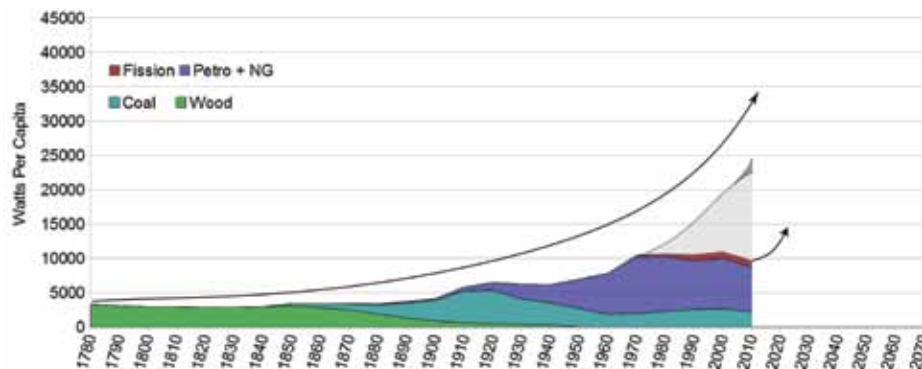


Based on data from the U.S. Energy Information Administration's "2011 Annual Energy Review."

Per capita power consumption for the United States from 1780 to 1970. "Other" power sources, such as hydropower, or so-called renewables, have been left out because of their minimal impact on the total per capita values.

FIGURE 2

U.S. Power Per Capita with a Fission/Fusion Economy



Per capita power consumption for the United States from 1780 to 2010. The general growth trend is indicated by the long arrow on top, with the gray wedge representing what needs to happen with a fission economy and the beginning of a fusion economy. The lower arrow on the right shows the direction of the path which must be started today to overcome the 40-year growth gap. This requires a crash program for the development of fusion.

While the actual implementation of nuclear fission is seen in the narrow red band (Figure 2), the role it needed to play is indicated in the gray wedge above, a projected value which keeps with the natural growth rates of a progressing human economy, and includes the beginnings of a fusion economy as well.

The 40-year gap between the needed growth rate and the present levels expresses the source of the current economic breakdown, and demonstrates the immediate need for a crash program to develop and implement the next stage, the fusion economy, to overcome decades of lost time by creating a new economy at a higher level than ever before.

The Man Who Lived in the Future

by Susan Welsh

Exhibition of “Leonardo da Vinci’s Codex on ‘the Flight of Birds’”
National Air and Space Museum,
Washington, D.C., Sept. 13 through Oct. 22, 2013.¹

Everyone knows that Leonardo da Vinci (1452-1519) sketched, studied, and experimented with virtually every subject that could be investigated by man’s unaided senses, ranging from wave motion in water to military machines to anatomy to the bicycle. He was particularly fascinated by the flight of birds. NASA Jet Propulsion Lab director Charles Elachi was so excited to be holding the Codex on the Flight of Birds in his hands, that he described it (a bit hyperbolically), as “probably the most important document about flight,” in the delightful short video that accompanies the exhibit.

Leonardo’s study of bird flight and his search for a mechanism that would allow humans to fly demonstrate perhaps more vividly than anything else, the extent to which the artist-scientist-inventor lived, thought, and dreamed in the future.

What exactly did he do?

Peter L. Jakab, the Chief Curator of the National Air and Space Museum, wrote in the exhibit brochure that in this 18-page notebook, or Codex, Leonardo “discusses the crucial concept of the relationship between the center of gravity and the center of lifting pressure on a bird’s wing. He explains the behavior of birds as they

ascend against the wind, foreshadowing the modern concept of a stall. He demonstrates a rudimentary understanding of the relationship between a curved wing section and lift. He grasps the concept of air as a fluid, a foundation of the science of aerodynamics. Leonardo makes insightful observations of gliding flight by birds and the way in which they balance themselves with their wings and tail, just as the Wright brothers would do as they evolved their first aeronautical designs....”

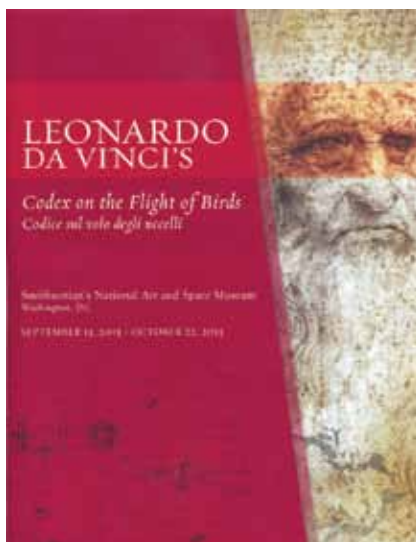
The exhibit only displays two pages of the actual Codex, which are of course in the Italian idiom of the 16th Century and written in Leonardo’s peculiar right-to-left mirror handwriting. Nothing that Leonardo wrote on this subject was intended to be read by anyone except himself. In fact, his mirror-writing, “back-to-front” pagination, and cryptic formulations (he uses the word “bird”

for both the animal and his machine) would have doubtless confused contemporary snoopers trying to steal the Master’s secrets, just as they confuse the modern reader. At the museum, digitized images of all the pages can be viewed, with an English translation, on monitors that allow you to digitally turn the pages.

But the exhibit could have done so much more. What it does not provide, unfortunately, is adequate pedagogy for the visitor: how to connect Jakab’s very brief generalizations to these drawings and jottings, the better to grasp their significance for the history of science in general and the development of flight in particular. I challenge the reader to choose any random page of the Codex and explain its importance (if any).

What does it all mean?

In order to rigorously answer such questions, one



1. As of this writing, it does not seem that the exhibition will be extended in view of the U.S. government shutdown, which closed the museum for two weeks.

would have to be an expert in the history of aerodynamics, which I am not. I therefore rely here on a few specialists' work, to suggest ways that visitors (or those viewing the Codex in a print edition) could think and study more deeply about what they're seeing; I also suggest ways that an exhibition like this could be improved.²

An Historical Note

The tiny exhibit at the Smithsonian is in a foyer adjoining the museum's large exhibit on the Wright brothers, which includes the original Wright Flyer, the first successful powered aircraft (1903). Maybe the juxtaposition of the two was supposed to make an obvious point about pioneers in flight, but the point to be made goes beyond the obvious.

In fact, the Wright brothers, by a coincidence of timing, had access to the Codex on the Flight of Birds and other notebooks by Leonardo, as they worked to invent a flying machine. The Codex, written in 1505, was first published in 1893 after having been stolen (by Napoleon), lost, and scattered for a hundred years; the American *Aeronautical Journal* in 1895 ran an article on Leonardo that included some of his drawings; and Octave Chanute's *Progress in Flying Machines* (1894) described some of Leonardo's work. The Wright brothers acquired all this material.³ Wilbur Wright wrote to the Smithsonian Institution on May 30, 1899, asking for its papers on human flight, and received relevant works of Leonardo, along with those of much more recent flight pioneers. Orville Wright listed these sources in a 1920 deposition in a patent suit, describing Leonardo as "the greatest universal genius the world has ever known." Of course, many important breakthroughs were made after Leonardo's time, and the internal combustion engine, which powered the world's first (non-glider) flying

machine nearly 400 years after his death, was unknown to him.

What insight and inspiration the Wrights may have drawn from Leonardo is not documented, to my knowledge, but I should think the museum would have wanted to point out this fascinating connection.

Powers of Observation

One of the first things that strikes one who looks at Leonardo's work on flight is his phenomenal power of observation. An example is Folio 15 verso (**Figure 1**), where he minutely describes the actions of the moving bird. At the top is a simple experimental device for determining the "bird's" center of gravity (in this case he is talking about the flying machine that he hopes to build). Elsewhere he is at pains to note the role of the wing tips in maneuvering and maintaining equilibrium, as well as the action of the tail and the *alula* (also called the "bastard wing" or the "thumb"—*dito grosso*—see **Figure 2**). (The concern with keeping the "bird" from being flipped over by the wind pervades the Codex—obviously a crucial issue for any future pilot of a mechanical "bird.") He observed the separate movement of the feathers of the bird's wing-tips, writing in another location: "What difference is there between the tips of the wings of birds which bend and those which do not ... since one sees that however slightly these tips are cut the bird's power of flight is almost stopped."⁴ Elsewhere he described the action of dragonflies' two pairs of wings, whereby the front pair sometimes moves in the opposite direction from the back pair.

It is amazing, given the rapidity of birds' flight and dragonflies' wing movements, that Leonardo could see such details.⁵ It makes me wonder whether he possessed something like what neurologists today call *hypervision* or visual *hyperacuity*.

The observations set down in this Codex are but a small part of his vast effort to observe, sketch, and analyze the flight of birds over a span of 25 years. Many of Leonardo's thousands of pages of other notebooks deal

2. The exhibition of Leonardo's "Codex Leicester" at the American Museum of Natural History in New York in 1996 was pedagogically excellent. The curators partnered with the Eli Whitney Museum in Hamden, Conn., to construct fine hands-on exhibits to demonstrate the principles of Leonardo's investigation of water and astronomy. See my review, "Leonardo's Leaps: Metaphor and the Process of Creative Discovery," *EIR*, Nov. 29, 1996. More recently, the Leonardo3 group in Italy (www.Leonardo3.net) has constructed amazing exhibits about Leonardo's art and science which have toured internationally, including to the Franklin Museum in Philadelphia. See Figure 1.

3. Thanks to curator Peter Jakab, who is an expert on the Wright brothers, for this information.

4. Manuscript K, 10 recto, cited by Kenneth D. Keele, *Leonardo da Vinci's Elements of the Science of Man* (New York: Academic Press, 1983), p. 192.

5. This [website](#) provides beautiful slow-motion videos of birds in flight, which the reader can compare to Leonardo's sketches. Such material would be useful in an exhibition on Leonardo's Codex, along with other photos and videos in this article.

FIGURE 1

Finding the Bird's Center of Gravity

Folio 15 verso from the Codex on the Flight of Birds draws the distinction between the bird's center of gravity and the center of lifting pressure on the wing. The simple device at the top could easily be constructed for an exhibit (see photo below). This full translation is from the museum's digitized image (the leaf is irrelevant; Leonardo was re-using an old sheet of paper).

"This is done to find the bird's center of gravity; without this equipment the bird as built would be of little use.

"When the bird descends, then its center of gravity is different from its center of resistance; as if the center of gravity corresponded with the line AB [right vertical line on the second image] and the center of resistance were near line CD [left vertical line].

"When the bird wants to rise, its center of gravity remains behind its center of resistance. As if the center of gravity just cited was situated at FG [left vertical line on the third image] and the center of resistance at EH [right line].

"The bird [referring to the fourth image] can stay in the air without necessarily keeping its wings balanced, because as its center of gravity does not always correspond to its midpoint, as the scales do, it is not necessarily forced to keep its wings at the same height, unlike scales. But if these wings are positioned beyond the stable position, then the bird will descend along the angle of the wings; and if the angle is complex, that is if the parts of the body point in two different directions, for example the wings pointing south and the head and tail east, then the bird will descend toward the southeast. If the angle of the bird is double that of the wings alone, the bird will descend halfway between the southeast and east, and the angle of its flight will be along the two angles."



©Leonardo3, www.leonardo3.net

An example of effective pedagogy for the Codex on the Flight of Birds is this exhibit by the innovative Italian group Leonardo3, in Brazil in 2008: a model of Leonardo's bird shown in the accompanying drawing. The visitor pulls the wires to tip the bird one way or another.



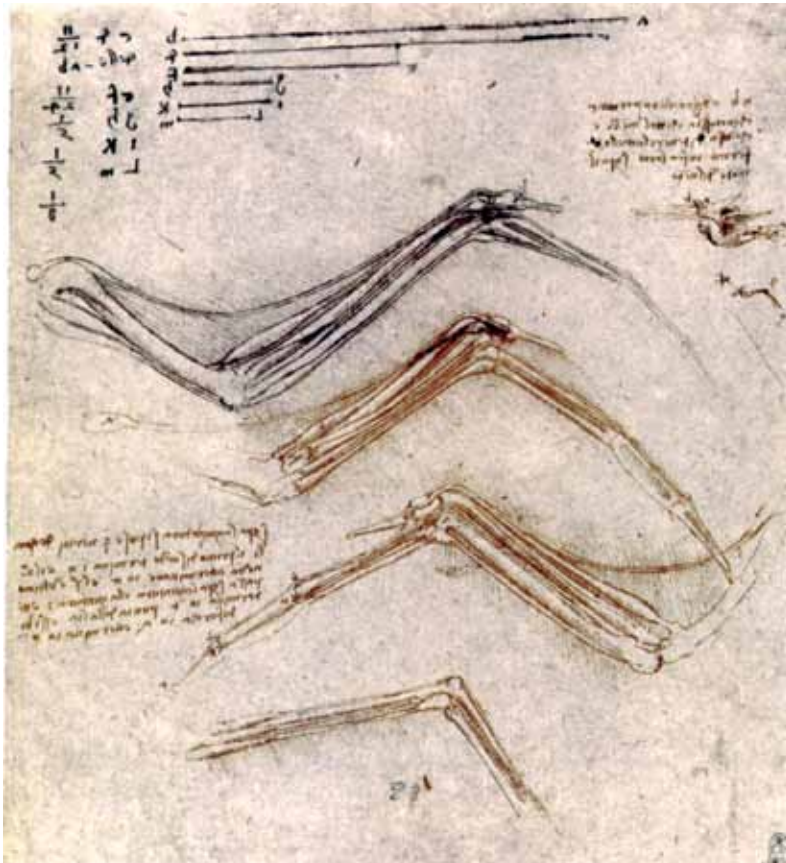
©Leonardo3, www.leonardo3.net

Children experiment with a digital display of a drawing by Leonardo, at a Leonardo3 exhibition at the Franklin Museum in Philadelphia in 2011. (Models of machines are in the rear of the photo.) Drawing children into the mind of the artist/inventor is a crucial component of any such museum exhibit.

FIGURE 2

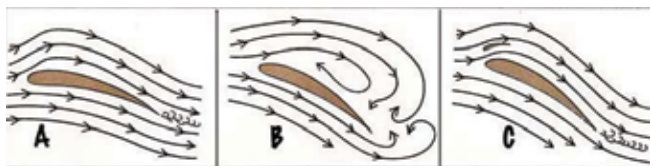
Close Observation of the Bird in Flight

The detail on the right from the Codex on the Flight of Birds (Folio 8 recto) is one of many sketches of birds in flight. Here Leonardo is considering the ways that the bird adjusts its wings according to the direction of the wind, so that it does not flip over—a great concern in the design of a machine for human flight.



FiddlersGreen.net

The photo on the right shows the skeleton and some wing feathers of a gull in flight, with the arrow pointing to the alula, or “bastard wing.” The same structure is shown in Leonardo’s drawing above (Windsor 12656). The alula is essential to a bird’s aerodynamics, to prevent the animal from flipping over or “stalling.” The website where this photo appears describes it as an “anatomic turbulence-buster.”



FiddlersGreen.net

The diagram shows airflow around the bird’s wing, and the effect of the alula. **A** is a condition of smooth flight, with the wing tilted upward into the airstream, maintaining lift. In **B**, it is tilted up too much, and turbulence sets in, destroying lift and threatening the bird with a crash landing. In **C**, the alula has popped up to smooth out the turbulent airflow so that lift is maintained.

in whole or in part with the subject of flight,⁶ not to mention the estimated two-fifths of his opus which has been lost.

Metaphor and the Imagination

But acute observation alone does not account for Leonardo's seemingly miraculous discoveries. Even more important was his power of metaphor: the mental "flight" by means of which he apprehended relationships that others had never imagined.

Thus he writes, in one of his last notes on flight, "In order to give the true science of the movement of birds in the air it is necessary first to give the science of winds, and this we shall prove by means of the movements of water. This science in itself is capable of being received by the senses. It will serve as a ladder to arrive at the perception of things flying in the air and wind."⁷

It was this same capacity for metaphor that had earlier led him to investigate wave motion in water, and to be the first person to draw air as a fluid. His observations of various flow patterns (**Figure 3**), according to historian of aerodynamics and aerospace engineer John D. Anderson, Jr.,⁸ "were the first qualitative contribution to experimental dynamics." Indeed, Leonardo's studies of flow patterns in air and water were at the heart of most of his discoveries about flight. As always, the conceptual approach was initially based on a metaphorical insight. He wrote in the Codex on the Flight of Birds, for example, "The bird makes the same use of his wings and tail in the air that a swimmer makes of his arms and legs in the water" (Folio 11v).

6. Many specialists in Leonardo's work for some reason find this sort of thing peculiar, like Kenneth D. Keele, who refers to Leonardo's "almost obsessional analysis of the variations of the movements of flight" (Keele, op cit., p. 188). Dominico Laurenza, in *Leonardo on Flight* (Florence-Milan: Giunti Editore S.p.A., 2004), posits, without a shred of evidence, that Leonardo plunged into "despair," "disillusion," and "a real crisis," when he concluded, at the end of his life, that a machine for human flight could not imitate a bird's flight (with flapping wings, etc.). And then there's Sigmund Freud, whose famous *Leonardo da Vinci and a Memory of His Childhood* concluded from Leonardo's account of a childhood dream about being attacked by a large bird of prey, that the artist was a homosexual—because he had been neglected by Piero da Vinci, of whom he was the illegitimate son.

7. Manuscript E, 54 recto, cited by Keele, op. cit., p. 191, who feels compelled to comment, "Obviously, he still felt as if he were just beginning his researches into flight, not coming to the end of his life." Silly Leonardo!

8. *A History of Aerodynamics and Its Impact on Flying Machines* (Cambridge University Press, 1997), p. 12.

Achievements and Limitations

Leonardo's studies produced the following contributions to the science of aerodynamics,⁹ according to Anderson:

- The first quantitative statement in history of **the law of continuity**, which means that the velocity of flow (V) varies inversely with the cross-sectional area (A) of a stream at any given point, such that $AV = a$ constant. Leonardo observed this with regard to a river: "Each movement of water of equal surface width will run the swifter the smaller the depth. . . . I say that at *mn* the water has more rapid movement than at *ab*, and as many times more as *mn* enters into *ab*; [if] it enters 4 times, the motion will therefore be 4 times as rapid at *mn* as at *ab*."¹⁰

- The first statement of **the wind-tunnel principle**, which of course the Wright brothers used to test their flying machines. Leonardo wrote, "As it is to move the object against the motionless air, so it is to move the air against the motionless object," and "The same force as is made by the thing against air, is made by air against the thing" (Codex Atlanticus). This is known today as the "principle of aerodynamic reciprocity."¹¹ The principle identified by Leonardo in his private notebooks was slow to develop historically, and the first wind-tunnel simulations of flight were built in the 18th Century.

A short [film](#), "Fundamental Nature of Air Flow and Separation," made by the National Advisory Committee for Aeronautics (NACA) at Langley Memorial Aeronautical Laboratory (date unknown), uses mainly smoke-flow tunnels to give excellent images of fluid flow, and is the kind of graphic material that would be very useful in an exhibition on the Codex on the Flight of Birds.

- The statement that **air resistance** is *directly proportional to the area* of the body.

- Introduction of the concept of **streamlining** a body to reduce drag. Leonardo sketched fishes, hull shapes for ships, projectiles from cannons, as well as bird wings, to show this effect.

9. In The NASA History Series, the volume *The Wind and Beyond: A Documentary Journey into the History of Aerodynamics in America* writes effusively: "Certainly no one before da Vinci, or for three centuries after him, offered anything close to his astonishing vision of flying machines or considered so many of the principles affecting flight." James R. Hansen, ed., with D. Bryan Taylor, Jeremy Kinney, and J. Lawrence Lee (NASA History Office: Washington, D.C., 2003), p. 4.

10. Hunter Rouse and Simon Ince, *History of Hydraulics* (Iowa City: Institute of Hydraulic Research, 1957).

11. Francesco Cutry, "The Flight of Birds," in *Leonardo da Vinci* (New York: Reynal and Co., Artabras book, n.d.), p. 344.

FIGURE 3
The Flow of Water and Air



Leonardo's observations of water and air reinforced his understanding of both; he was the first person to draw air as a fluid (detail from Windsor RL 12579 recto). He shows here how the placement of an obstacle in the way of a flowing stream, at different angles, affects vortex formation.



Leonardo's drawing of vortex formation around the bird's wing is from Manuscript E 47 verso. The curvature of the wing, especially at the tips, is directly connected to the curvature of the air underneath it. The straight lines drawn across the airflow represent the centripetal force that presses the wing to curve. (Domenico Laurenza, "Leonardo on Flight," 2004).



This photo of a model of the Concorde jet in a wind tunnel shows the vortices forming over the wings, as in the sketch by Leonardo (above right).



NASA

From a study of wake vortex formation at Wallops Island NASA Langley Research Center, 1990 (false color).

Subsuming several of these specific contributions is the broader concept of **lift**, which is of course crucial to getting a bird (or a plane) into the air. Anderson writes that there is no evidence of any scientific thinking about lift before Leonardo, although his conclusions about it

were flawed in certain respects. Leonardo wrote: "When the force generates more velocity than the escape of the resisting air, the same air is compressed in the same way as bed feathers when compressed and crushed by a sleeper. And that object by which air was

compressed, meeting resistance on it, rebounds in the same way as a ball striking against a wall” (Codex Trivultinanus). In other words, he believed that high-pressure, high-density air is formed under a lifting surface, which pushes the surface up. This is actually not the case. Anderson writes, “Today we know that lift is achieved primarily because of the low pressure (suction) over the top of a wing and that the pressure on the bottom of the wing, albeit higher than that on the top, is not much higher than the free-stream static pressure.”

Nevertheless, by 1513, Leonardo was coming much closer to identifying the actual source of lift. In Codex E, he wrote:

“The air surrounding birds is above thinner than the usual thinness of the other air, as below it, it is thicker than the same, and it is thinner behind than above in proportion to the velocity of the bird in its motion forwards, in comparison with the motion of its wings toward the ground; and in the same way the thickness of the air is thicker in front of the bird than below, in proportion to the said thickness of the two said airs.” [I told you it was hard to read these notebooks!—SW]

Anderson suggests replacing the words “lower pressure” for “thinness” and “higher pressure” for “thickness,” concluding that the result is a clear explanation of the pressure distribution over an airfoil, and hence of the source of lift and pressure drag. “Thus,” he writes, “Leonardo was three centuries ahead of his time, because George Cayley, in 1809, was the next person to appreciate the actual source of lift.”

Most of Leonardo’s sketches and discussions of flying machines (including in the Codex on the Flight of Birds) are based on attempts to mimic the flapping motion of birds’ wings (see **Figure 4**). This was an obstacle to conceptual progress throughout most of his work on human flight, but his endless investigations finally led him to the conclusion that the flapping of the wings was not, in fact, an important source of lift, but rather was the means by which the tip feathers produced a forward thrust for propulsion. As the air flowed over the wings because of the bird’s forward motion, lift was produced. Leonardo wrote: “Therefore if air moves against motionless wings the same air supports the heaviness of the bird through air” (1505, Codex Atlanticus).

Still Puzzling

Five centuries after Leonardo’s Codex on the Flight of Birds was written, there is much that remains unknown about the subject. Three biology researchers introduced their article, “Bird Flight: Insights and Complications: New techniques show that more than the wing participates in flying,” with a discussion of Leonardo. G.E. Goslow, Jr., K.P. Dial, and F.A. Jenkins, Jr. (*BioScience*, Vol. 40, No. 2, February 1990), wrote that much has been learned in recent decades about the performance of the wing, including the subtleties of wing movement during upstroke and downstroke as revealed by slow-motion photography. “Nevertheless, due to the complexity of its design and the movement of patterns during a wing-beat cycle, knowledge of the bird wing remains sketchy and incomplete.”

They initiated a series of studies on neural control of the wing, biomechanics of the wing and shoulder, and evolution of flapping flight. But, “as was the case

for Leonardo da Vinci, ... we were confronted with unexpected results that required further investigation.” The particular problem in understanding the control of the wing, they reported, has been “the inability to document the precise movements of its skeletal elements during flight. They built a wind tunnel for testing small European starlings, using a technique called the cineradiograph to observe the movements of the wing skeleton. To their surprise, they found that the bones of the shoulder and thorax move rhythmically with the wingbeat. Why? They hypothesized that the bird’s wishbone (furcula) spreads and collapses with the wingbeat, acting as a secondary pumping system to meet the increased metabolic demands of flight, moving air between the air sacs and lungs.

Like Leonardo in his pursuit of artificial flight, the scientists wrote, they planned to continue their studies along these lines, thereby to understand “the evolution of this most amazing and successful form of locomotion.” (More recent work by the authors can be found through the usual online search engines.)

—Susan Welsh

FIGURE 4

The Flapping Wing Approach to the Design of Flying Machines

This model of one of Leonardo's ornithopter flying machine designs, displayed at the National Air and Space Museum exhibition, is based on a drawing in Manuscript B, folio 74. It is the only model in the exhibit, and is attached to the high ceiling over the exit from the exhibit area. Many viewers will not notice it (I didn't at first), and it is not close enough for children to touch it or at least inspect it. Its placement (as if in flight) implies that the flapping wing model works, which it does not.



Model built by Opera Laboratori Fiorentini Civita Group, 2006. Lent by Finmeccanica North America.



Smithsonian Libraries, from the original at the Biblioteca Reale, Turin, Italy

Folio 7 recto from the Codex on the Flight of Birds displays a draftsman-like drawing of the (mechanical) "bird's" wing. The text shows that Leonardo is trying to figure out how to build a machine on the "flapping wing" model.

"The bird [machine] mentioned must, with the help of the wind, rise to a great height, and this will be a safety factor because, in the case of being overturned, it would have time to return to a stable position, provided the framework were very strong, its joints constructed with strong alum-tanned leather and its ribs of very strong raw silk, so that they can withstand the stresses and the speed of descent, with the actions already mentioned; and let no piece of metal be used in its construction, because this material breaks or wears away under stress, so they should not be used.

"The cord A [in the image to the right of and just below the arching wing], used to spread the wing, must be made with a thick alum-tanned leather, so that if the bird should be turned upside down, it can overcome the fury of the wind striking the wing and trying to close it, which would be a disaster for the bird. But to be even safer, you will use the same framework of ribs both above and below, so you will be free from any danger.

"ABC are the points where the ribs are attached of the three joints of the fingers of the wing. D [at the very bottom right] is the point where the lever AD moves across the wing."

Here again, he was three centuries ahead of his time: George Cayley formulated the idea of the separation of lift and propulsion in a fixed-wing aircraft in 1799.¹²

The Codex on Mars

We return now to where we began: NASA JPL director Elachi's interview on the video that accompanies

the exhibit. RAI-TV deputy editor-in-chief for science news Silvia Rosa-Brusin asks him, as he's paging through the Codex in Turin's Biblioteca Reale: "Why don't we send it to Mars?" He grins, agrees, and arranges to have NASA scan the Codex onto a chip and place aboard the Curiosity rover, which lands on Mars a few months later, on Aug. 6, 2012. Rosa-Brusin aptly concludes: "What a fitting journey for the genius whose whole life was driven by curiosity!"

12. Anderson, op cit., footnote 8, pp. 24-25.

Finally Defeating the War Danger

When Barack Obama was forced to back down on his plan to launch war against Syria a few weeks ago, Lyndon LaRouche struck a cautionary note. It's positive that war was avoided, he said, but this is *not* a turning point. As long as the Anglo-Dutch Empire maintains its power over nations, especially including the Presidency of the United States, the world will remain on a course toward the ultimate disaster, thermonuclear war.

That reality was highlighted this week and last, when a series of brisk interactions took place between the heads of state of the three major Eurasian nations who are being targeted by the Empire—Russia, China, and India. This diplomacy indicates a sense of urgency among these nations to step up discussions and collaboration, at a time when the Obama-led United States and a bankrupt Empire continue to push the world security situation to the brink.

Last week, Indian Prime Minister Manmohan Singh, whose visit to Washington in September was a spectacular non-event, was in Moscow discussing greater energy and military collaboration with Russia. A joint statement issued after Singh and President Vladimir Putin held their talks, said the two countries have agreed on a range of energy issues, spanning from cooperation in electricity production to possible joint oil and gas exploration in the Arctic Sea.

Singh, after his talks with Putin, told the press that “terrorism, extremism, and drug trafficking emanating from this area [Afghanistan—ed.] endanger security and stability in our region and beyond. We have agreed to intensify our coordination and cooperation for promoting security and development in the region,” following the U.S. and NATO troop withdrawal from Afghanistan in 2014.

Following his highly fruitful visit to Moscow, Manmohan Singh went directly to Beijing, where visiting Russian Prime Minister Dmitri Medvedev had just concluded an expanded energy trade agreement with China. Medvedev said Russia's biggest oil producer, Rosneft, will supply China an additional 70 million barrels of crude a year for 10 years under the latest agreement, according to Xinhua. The agreement “testifies to the fact that we have reached a higher and a brand-new level of co-operation,” said Medvedev in comments reported on the Xinhua website.

China's Foreign Ministry spokesperson Hua Chunying referred to a “China-India strategic partnership” in a media briefing in Beijing on Oct. 21. In a rare honor, Singh will be hosted by both Premier Li Keqiang and President Xi Jinping on the same day.

Among the pacts expected to be signed during the visit is the Border Defense Cooperation Agreement, the draft of which was cleared by the Indian Cabinet. It is perceived as a major confidence-building measure by both countries, who grappled this year with a series of media-hyped non-demarcated border violations by both sides.

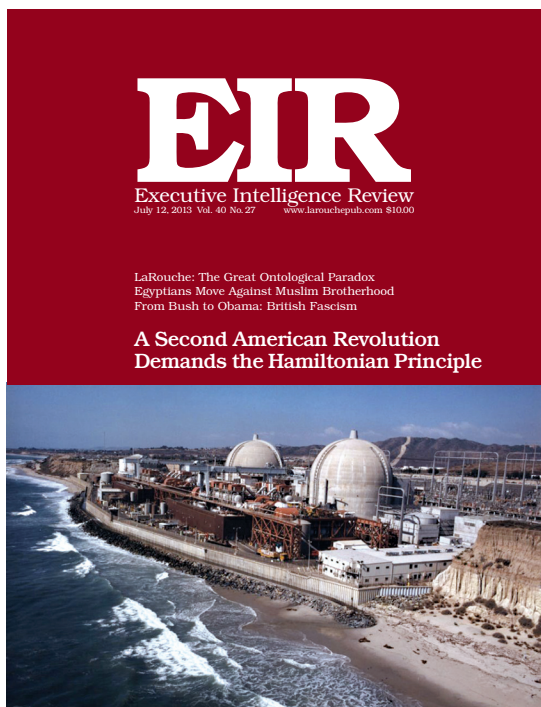
This unusual diplomacy among nations which have had extraordinary difficulties in collaboration, bespeaks their awareness of the war danger which most citizens in the West wish to ignore.

What can be done? The critical strategic action which can defeat the war party remains *enacting Glass-Steagall*. That is the move which will cripple the Empire and Wall Street, and their warmongering puppets, including the megalomaniacal Barack Obama. The future of all nations depends upon its accomplishment, immediately.

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