

Harvard Club - Box 126
27 West 44th Street
New York, NY 10036
john@johnkarls.com
April 19, 2019

>>>>> (Please send questions
(or comments by e-mail
(since itinerary is fluid

Mr. Eric R. Schmidt
Member – Board of Directors
Alphabet Inc.
Googleplex
1600 Amphitheatre Parkway
Mountain View, CA 94043

Mr. Jonathan Rosenberg
Senior Vice President
Alphabet Inc.
Googleplex
1600 Amphitheatre Parkway
Mountain View, CA 94043

Mr. Alan Eagle
Director of Executive Communications
Google, Inc.
Googleplex
1600 Amphitheatre Parkway
Mountain View, CA 94043

Dear Sirs:

Re: Were Bill Campbell and Google Not Only Amoral But Immoral?
Your Presentation at the Harvard Club of NYC on April 17

Thank you very much for your presentation last Wednesday on your new book about Bill Campbell.

I traveled more than 4,000 miles (and missed two ski days) in order to ask you the question in the enclosed letter about “Solving Global Warming 100% Without Military Action.” [You would be receiving that letter instead of this if I had asked the question.]

However, I did not ask it because it had been based on the assumption that your new book was eulogizing Bill Campbell as a coach for not only his effectiveness, but also for his moral fiber, and was surprised that no mention was made of his morality.

Which is why I did not ask the question, because the answer I had originally expected was – “Of course, providing cheap, safe power for everyone, not just Google, and solving Global Warming 100% would be worthy of Bill Campbell’s memory.” And your presentation convinced me that the answer would actually be – “Why no, Bill Campbell was amoral, and we intend our book as the most-fitting memorial for our friend the way he was.”

You might be interested to know that my original question was prompted by the sixth chapter of George Gilder’s “Life After Google: The Fall of Big Data and the Rise of the Blockchain Economy” in which he describes how Google located its acres and acres of warehouses containing all the computer equipment providing Google’s version of the “cloud” next to an old dam in Oregon’s Columbia River Gorge so that Google could displace previous users of cheap hydroelectricity.

So after an oblique reference in my original question to “cheap, safe power for everyone, not just Google” in order to spare your feelings for your mentor, I suggested that \$5 billion to develop the first commercial prototype for proven thorium fission (which, inter alia, cannot explode which is why Pres. Nixon turned the country to uranium/plutonium) would not only provide cheap, safe power for everyone but would also solve Global Warming 100% without military action to force other countries to adopt uneconomic alternatives – would be a “drop in the bucket” for Alphabet/Google and provide a fitting tribute for Bill Campbell.

I am sorry to be so “preachy” but it’s my nature – (1) being a member of the first U.S. Government Task Force to integrate the public schools of the Old Confederacy in the summer of 1966 during which my African-American partner and I were “within 60 seconds of being assassinated” according to the N.C. State Police, (2) being a co-founder of the first homeless shelter in Fairfield County CT in the 1970’s; (3) being the sponsor and chief benefactor of the “I Have A Dream”® Foundation of Stamford CT which provided tutoring/mentoring for 200 public-housing children as they progressed from third grade to H.S. graduation with a guarantee of college tuition; (4) serving in the 1990’s as the Volunteer Treasurer of Gene Lang’s National “I Have A Dream”® Foundation which oversaw 180 similar projects in 51 American cities, most of which were sponsored by CEO’s of major corporations; and (5) since I had been such an effective fundraiser for IHAD-National (most of the world’s multi-billionaires are widows who are intrigued by a male who appears to help females by tossing more than 3,000 bouquets to opera stars), serving at the personal request of the U.N. Under-Secretary General for the Environment as a volunteer fundraiser for UNEP.

So after reading your book (which was not available before your presentation), I am hopeful that Alphabet and Google could spare that “drop in a bucket” to provide cheap, safe power for everyone, not just Google, to solve Global Warming 100%, and to provide a truly-fitting tribute for Bill Campbell. The profitability might cause George Gilder to write about “life after death”!!!

Respectfully submitted,

John S. Karls

Cc: Mr. Larry Page – Chief Executive Officer, Alphabet Inc.
Mr. Sergey Brin – President, Alphabet Inc.

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Dear Sirs:

Re: Solving Global Warming 100% Without Military Action

As a matter of courtesy, this is the question I asked you at your Harvard Club of NYC presentation earlier today –

In paying tribute to Bill Campbell, you are not only praising his past ideas but implying that “the torch has been passed” and you will try to emulate him in the future -- so would providing cheap, safe power for everyone in the world, not just for Google, and solving Global Warming 100% almost immediately for a mere \$5 billion which would be a “drop in the bucket” for Google and Alphabet, be something that would be worthy of Bill Campbell's memory???

Taking 90 seconds to explain if I may with points made by many experts including famous nuclear physicist Victor Stenger in the Huffington Post -

- Nuclear power is the only energy source that can solve Global Warming 100%.
- Thorium fission underwent an 18-month continuous demonstration at the U.S. National Nuclear-Research Laboratory at Oak Ridge in the 1960's, but President Nixon turned the country away from thorium and toward uranium and plutonium BECAUSE THORIUM IS INCAPABLE OF EXPLODING (it does NOT even need elaborate containment chambers or cooling systems).
- It has a 99% burn-up rate meaning that there is virtually no radioactive waste, and thorium reactors can safely consume plutonium and uranium from decommissioned weapons and spent uranium fuel rods.
- Thorium is so plentiful (virtually all of India's “sand” beaches comprise thorium) that it could provide 100% of all of the world's energy needs including transportation for more than 1,000 years.
- Thorium reactors are cheaper than any other energy source (except hydro) which means that there would be no need to force countries to adopt uneconomic policies.

The Oak Ridge project demonstrates that thorium reactors are practical and experts estimate that only \$5 billion is needed to develop the first commercial prototype.

So is providing cheap, safe power for everyone, not just Google, and solving Global Warming 100% something that would be worthy of Bill Campbell's memory?

More information is available in the attached letter sent recently to each of the Democratic Presidential Candidates by a 150-member public-policy discussion/action group that I have facilitated for the past 13.5 years and that is patterned after many of the Harvard Club's discussion/action groups in which I have participated over the decades.

Respectfully submitted,

John S. Karls
JD, Harvard Law School, 1967
Who's Who in American Law, 1988-2003
Who's Who in America, 1988-2003
Who's Who in the World, 1994-2003

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27 West 44th Street
New York, NY 10036
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April 5, 2019

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The Hon. Cory A. Booker
U.S. Senator – New Jersey
Presidential Campaign Headquarters
540 Broad Street
Newark, NJ 07102

[This is a sample letter sent to each of the Democrat Presidential
Candidates who have declared or formed an exploratory committee.]

Dear Senator Booker:

Re: Solving Global Warming 100% Without Military Action
A Subject We Will Be Requesting Every Presidential-Debate Moderator To Raise

For the past 13.5 years, I have facilitated a public-policy study group in the vicinity of my Utah ski house comprising approximately 150 members including numerous science professors and including a PhD in Nuclear Engineering from the U.S. National Nuclear-Research Laboratory at Oak Ridge - U/Tenn.

[Our Nuclear Engineering PhD has led several of our studies over the years concerning thorium fission and other nuclear issues.]

Every time our group has focused on global warming, I have begun the discussion by asking for a show of hands by anyone who favors invading militarily, for example, China to prevent it from bringing on stream every week one new monster-size coal-burning electrical-power generation plant.

In all of those meetings over the years, nobody has ever shown the slightest interest in using military force to coerce any country into using an uneconomic energy source, thereby reducing the standard of living of its citizens.

However, luckily there is an economic energy source that is abundant and safe.

You may not be aware that thorium/fission was proved feasible in the 1960's when the U.S. National Nuclear-Research Laboratory at Oak Ridge TN conducted a successful 18-month continuous demonstration project comprising a thorium-fueled nuclear reactor. And that President Nixon caused the nation to turn away from thorium (and toward uranium and plutonium) because thorium is incapable of exploding or being utilized to produce nuclear weapons.

Both conventional uranium fission and proven thorium/fission share all of the following advantages: (a) producing no greenhouse gases; (b) eliminating the dependence of the U.S.* and its allies on members of OPEC (the long-standing Organization of Petroleum-Exporting Countries) and, in the case of Europe, natural gas imports from Russia (in addition to oil & gas imports from OPEC); and (c) eliminating the gaping U.S. balance-of-payments deficit and resulting piling up of our foreign national debt.

However, proven thorium/fission has the following advantages over conventional uranium/fission –

[These advantages are virtually identical to those listed by Dr. Victor Stenger in The Huffington Post -
https://www.huffingtonpost.com/victor-stenger/lfr-a-longterm-energy-so_b_1192584.html.]

(1) LFTR's (Liquid Fluoride Thorium Reactors) require minimal containment chambers because meltdowns are physically impossible since LFTR's operate near atmospheric pressure (this is both a safety and cost factor).

(2) LFTR's do not require elaborate cooling systems because they operate well below the boiling point of molten salt and can be passively cooled (this is also both a safety and cost factor).

(3) Thorium is so stable that, as mentioned above, it is impossible to make a nuclear weapon from thorium which is why the U.S. turned to uranium and plutonium instead of thorium.

(4) Thorium has such an incredibly-high "burn-up" that there is virtually no long-lived radioactive waste.

(5) LFTR's can safely consume uranium from decommissioned nuclear warheads and from spent uranium-reactor fuel rods. Indeed, the Oak Ridge MSRE in the 1960's was able to use U-235, Pu-239 and U-233 at the same time as thorium. [NB: Since former Senate Majority Leader Harry Reid of NV prevented the opening of Yucca Mountain NV as the repository for our spent uranium-nuclear fuel rods, the spent uranium-nuclear fuel rods have been left on site at each uranium-nuclear plant to remain cool in the equivalent of home swimming-pools even though many of those uranium-nuclear plants are situated in high-volume air corridors!!!]

(6) Because LFTR's are economically practical in small sizes, they can be mass-produced in factories and assembled near electrical demand so that the huge energy losses during electricity transmission are virtually eliminated -- though to replace huge uranium reactors, it would only be necessary to assemble several of the small modular thorium reactors into a larger plant.

(7) In addition, thorium is so plentiful that proven thorium supplies are capable of supplying 100% of the world's energy (not just electricity) for more than 1,000 years. Indeed, virtually all of India's "sand" beaches comprise thorium.

[Our calculation was 80 years of "proven" reserves of uranium for current (electricity only) usage multiplied by 3 (the minimum abundance factor of "proven" thorium reserves vs. "proven" uranium reserves) multiplied by 99 (usable thorium energy content vs. usable uranium energy content) multiplied by 5.8% (the percentage of total worldwide energy including transportation fuels, that comes from nuclear plants) = 1,378 years.]

Proven thorium/fission has all of these advantages and only needs 2-3 years of final development = the equivalent of having already produced a Ford Model T proving an automobile is feasible but still needing 2-3 years of development (and relatively-modest funding) to design a Ford Fusion for mass production.

The relatively-modest funding for the 2-3 years of final development has been estimated by many experts at \$5 billion to build the first commercial prototype.

[ThEC15 was a worldwide conference on thorium research that was held in Mumbai, India, in 2015 by the Government of India and two of its agencies, BARC and NPCIL, along with HBNI and IThEO. The ThEC15 website (<http://www.thoriumenergyworld.com/thec15-mumbai.html>) contains 127 papers and speeches by 46 speakers from 30 different nations.]

So the question you are respectfully requested to consider is whether the U.S. Government should appropriate \$5 billion to build the first commercial prototype.

Respectfully submitted,

John S. Karls
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PS: It is well known that large volcanic eruptions will throw into the atmosphere gases and dust particles whose shading of incoming solar radiation can cool the earth for months and even years.

[This has caused some wags to remark (however, true) that Global Warming can be solved by occasional, small nuclear wars which, of course, will be much more likely if a nuclear-arms race occurs between “The World’s Greatest ‘State Sponsor of Terrorism’” (The U.S. State Department’s long-standing legally-required description of Iran) and “The Gulf Cooperation Council” (Saudi Arabia, Kuwait, Qatar, Bahrain, The United Arab Emirates, and Oman).]

In a similar vein, there has been research on seeding the earth’s atmosphere with various substances to achieve the same effect as volcanic eruptions or small nuclear wars. Such an approach (vs., for example, merely adopting the most economical energy source which happens to have no carbon emissions) is likely, at the very least, to incur legal liability. After all, The Russian Federation refused to ratify The Kyoto Protocol for many years because Global Warming would increase Siberia’s growing season -- until the European Union finally agreed to subsidize Russia’s economic loss. [Similar economic disparities were bridged in the Paris Climate Accord by the U.S. promising to adopt uneconomic measures virtually immediately in return for the world’s other great carbon polluters’ adopting uneconomic measures in the distant future.]

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- * The seventh paragraph listing three advantages shared by uranium and thorium fission said “(b) eliminating the dependence of the U.S.* and its allies on members of OPEC (the long-standing Organization of Petroleum-Exporting Countries) and, in the case of Europe, natural gas imports from Russia (in addition to oil & gas imports from OPEC).”

The reason for the asterisk was that it has been widely reported recently that the U.S. has become “energy independent” so that it no longer must import oil & gas from the world market which is dominated by OPEC.

These reports are misleading if not fraudulent.

They are based on an article from Bloomberg (<https://www.bloomberg.com/news/articles/2018-12-06/u-s-becomes-a-net-oil-exporter-for-the-first-time-in-75-years>) which claims, under a banner headline “THE U.S. JUST BECAME A NET OIL EXPORTER FOR THE FIRST TIME IN 75 YEARS” **that the U.S. was a “net oil exporter” FOR ONE WEEK in early December 2018 -- while admitting in the body of the article that the net-export period would be “likely brief”!!!**

No wonder they are confessing their banner headline is misleading if not fraudulent!!! [Though that did NOT prevent other news media outlets from repeating the false claim, many citing Bloomberg and most of the rest citing no authority at all.]

By way of background, <http://www.cia.gov>’s World Factbook reports for 2017 (the last year for which it contains such data) that the U.S. produced only 9.351 million barrels/day of crude oil and had to import (net) 6.811 million b/d. The CIA also reported a slight natural gas surplus (total gas production of 772.8 billion cubic meters in 2017 vs. consumption of 767.6 billion cubic meters). In other words, the CIA is reporting for 2017 total crude oil usage of 16.162 million b/d compared to total natural gas usage of only 13.088 million b/d of crude oil equivalent. **Which meant the C.I.A. was effectively reporting a SHORTFALL in energy independence of 23% for 2017!!!**

But what about 2018 and beyond???

Bloomberg “cherry picked” ONE WEEK during December 2018 for its claim that the U.S. had become “a net oil exporter.” Which Bloomberg CONFESSES was based on statistics from the American Petroleum Institute and the U.S. Department of Energy’s Energy Information Administration.

HOWEVER, based on DOE’s Energy Information Administration is an American Petroleum Institute graph available at <https://www.api.org/oil-and-natural-gas/energy-primers/us-crude-exports> that shows the NET-IMPORT GAP narrowed slightly in 2018 BUT IS NOT EVEN EXPECTED TO BE ELIMINATED BY 2040, THE END OF THE PERIOD IN THE GRAPH!!!

Shame on Bloomberg!!!