

# Christian Engineers and Scientists in Technology Newsletter

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## Fukushima Nuclear Station, 4 Months On.

By Ian Hutchinson, Professor of Nuclear Science and Engineering, MIT.

The Fukushima nuclear power station known as Daiichi was inundated by the enormous tsunami of the Great East Japan Earthquake on 11 March 2011. Three of its six reactors suffered core-melting in the days immediately after, and released significant radiation to the environment. A further reactor building and spent fuel pond were damaged by hydrogen explosions<sup>[a]</sup>. Where do things stand now, four months later?

On 16th July the reactors were reported to be under stable cooling with nitrogen injected into their containments to reduce risk of further hydrogen explosion. This completes (on schedule) step 1 of the "Roadmap Towards Restoration" developed in April. Step 2 is bringing the reactors to complete cold shutdown, which is expected to take a further 3-6 months<sup>[b]</sup>. At that point they will be considered "walk-away" safe, but there will still be years of remediation to be done before the site is finally cleaned up.

It has been an enormous engineering effort to bring the plant to the current state of stability. The after-heat of radioactive fission products requires ongoing circulation of water to prevent overheating of the fuel. The loss of that circulation was the cause of the fuel melting that occurred during the station black-out following the tsunami. The operators have since been injecting water from emergency pumps in a series of improvised systems. This injection together with the tsunami itself has given rise to a large quantity of radioactive water in the basements of the reactor and turbine buildings.

In early April, water was observed leaking from cable trenches directly into the sea. It took a few days to staunch that unexpected escape. But it was also necessary to release deliberately a substantial quantity of low-contamination water so as to make room for storage of the highly radioactive water that was being continuously generated from the cooling injection (at a rate of about 400 tons per day in June).

The reversal of this situation has required the installation of a massive water decontamination plant (designed to process 1200 tons per day), which became fully operational only on 3 July.

Decontaminated water is now being recycled and used for the cooling in a closed loop. The excess decontamination capacity is beginning to reduce the level of contaminated water in tanks and buildings. But there's still a long way to go.

All of this effort has been taking place in a hostile radiation environment. At the site boundary, the radiation level is now down to roughly 10 micro-Sieverts/hour. This level is not an immediate threat to worker health, though one would not wish to live in it. But as one approaches the reactors, the level increases very greatly. When robots first entered the reactor buildings (in April) they recorded radiation levels of one or two Sieverts/hour, which means that human entry (which first occurred 5 May) is limited to minutes, not hours, so as to avoid harmful dose. The radiation level inside the buildings is dropping only rather slowly, so the difficulty of access will continue in the coming months.

The total release of radioactivity from the plant has been very substantial: estimated at 1/10th of the total release from the Chernobyl (1986) reactor disaster. At Chernobyl a large fraction of the damaged reactor's fuel was released to the atmosphere by core explosion and fire. Although Fukushima avoided such dire phenomena, and its radioactive release mostly blew out to sea, it is being considered an event of comparable significance. Iodine 131 generally constitutes the greatest immediate radioactive source and health hazard. But it has a half-life of only 8 days, so it has now decayed to roughly one part in 10000 of its initial level, and continues to disappear. The most important long-term fission product is caesium 137, with a half-life of about 30 years. Strontium 90 (29 years) is also present at a lower level. The main low-level hazard from both arises from ingestion. In the case of Sr90, around 25% of what is ingested is incorporated into bone and hence can deliver a large dose at a low rate over a

## From the editor

- Professor Ian Hutchinson has provided us an update to his earlier report on the nuclear power plant situation at Fukushima, Japan. You can review the earlier report at <http://www.asa3.org/ASA/cest/CESTspring2011.pdf>. Many thanks to Dr. Hutchinson for this update.
- We received one correct partial solution to the Math Challenge posed in the last issue. It was received from Dave Kramer, retired consulting scientist from the MITRE Corp., Bedford, MA. He lives in Chelmsford, MA. Thanks, Dave. I am including my full solution on pages 3 - 4.
- Now I have provided another Challenge, this time a physics problem. See page 3. Can you solve it? Please send me your answer.
- There is a new way to obtain hydrogen to power fuel cells. Page 3.
- A new way has been proposed to cool nuclear plants. Page 3.
- And, last, there is an article by Dennis Feucht, *Neglected Topics in Science and Christianity*. Our thanks to Dennis.

Please send me **your** input for this newsletter.

BY ■



Photo of Fukushima Daiichi reactors 1-4 after the hydrogen explosions.

long time. Cs137 is not so permanently taken up by the body; it is continuously eliminated with a "biological half-life" of about 70 days.

The Japanese government's maintenance of the 20 km evacuation zone round Fukushima Daiichi, is presumably based on a combination of concerns about possible deterioration of the reactors and additional large radioactivity releases (which is increasingly becoming unlikely) and the problems of the low level contamination already taken place, which might pollute crops.

The events in Japan have stimulated a variety of responses. Some of these are political. Germany and Switzerland have reversed their nuclear planning policies (again) and said they will close and not replace their reactors as they come to the end of their lives. Japan itself is taking a hard look at their nuclear energy policy. The Italian referendum has overwhelmingly confirmed rather than overturned the anti-nuclear policy they have pursued since the 1980s. Most other countries have resisted abrupt changes of national energy policy.

Other reactions are technical. Many agencies and utilities have undertaken reevaluations of the safety of their reactors in light of the Fukushima events. In the US, a Nuclear Regulatory Commission staff task-force undertook a 90-day assessment of what the Fukushima

events mean for US reactors. It recommended a number of regulatory reassessments and reorganizations, which will undoubtedly be given due consideration, but they concluded that "continued operation and continued licensing activities do not pose an imminent risk to the public health and safety"<sup>[c]</sup> None of the US reactors appear to be at risk from tsunamis, but a review of systems to mitigate the consequences of seismic events and flooding seems highly appropriate. Fukushima experience reemphasizes the importance of the robust independence of different safety systems in providing "defence-in-depth". If an extreme "beyond-design-basis" event is able to knock out many or most of the redundant safety systems simultaneously, overall risk is higher than might be assessed on the basis of independent sub-system evaluation. This is true in any engineered system, but the potential scale of nuclear accidents calls for exquisite attention to safety.

Within this challenging context, there is much for which we can give thanks to God. First, despite explosions and melt-downs, there have been only three fatalities at the plant, and none directly nuclear in nature. Second, no member of the public, in Japan or elsewhere, has received a dangerous exposure to radiation. Third, most of the radioactivity release has gone into the sea where it is rapidly being diluted below natural

radiation levels. I am full of admiration and respect for the Japanese engineers and technicians who have worked tirelessly to overcome the immense challenges of bringing this power plant to a safe state. I continue to pray for them; and also for the Japanese people mourning loved ones, and trying to recover from the vast devastation brought by the tsunami to many towns elsewhere in the Tohoku region.

[a] In addition to summary in a previous edition, for example [http://en.wikipedia.org/wiki/Timeline\\_of\\_the\\_Fukushima\\_Daiichi\\_nuclear\\_disaster](http://en.wikipedia.org/wiki/Timeline_of_the_Fukushima_Daiichi_nuclear_disaster) provides a comprehensive time line.

[b] [http://www.tepco.co.jp/en/nu/fukushima-np/fl/images/fl12np-gaiyou\\_e\\_3.pdf](http://www.tepco.co.jp/en/nu/fukushima-np/fl/images/fl12np-gaiyou_e_3.pdf).

[c] [http://www.tepco.co.jp/en/nu/fukushima-np/fl/images/fl12np-gaiyou\\_e\\_3.pdf](http://www.tepco.co.jp/en/nu/fukushima-np/fl/images/fl12np-gaiyou_e_3.pdf), p 18.

A vast amount of technical information is available on the web concerning the situation at Fukushima. MIT students have set up a technical information site <http://mitnse.com/> which has received massive attention. There are many others.

IH

**Correct Partial Answer:  
Spring Math Problem Challenge**

In the Spring issue I offered the following challenge for the reader:

*Three circular cylinders, each with diameter  $d$  and length  $L$ , have center lines that intersect at right angles (see figure). What is the volume inside this structure?*

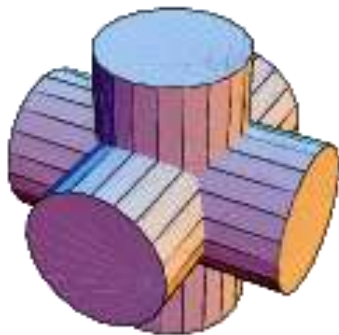


Figure from mathworld.wolfram.com

I received a response from Dave Kramer of Chelmsford, MA in which he provided the correct volume of the intersection of the three cylinders. I've provided a calculation of the volume of the entire structure below. BY ■

**Next Problem (Physics) Challenge**

This next problem doesn't require a calculation.

*A rear wheel drive race car's engine (including flywheel) rotates clockwise as seen from the front of the car. It is racing counterclockwise around the semicircular end of an oval racetrack. What is the effect on the car of turning the axis of the rotating flywheel?*

*Another car has front wheel drive with a transverse mounted engine that rotates clockwise as seen from the right hand side of the car. What is the effect in this case?*

Send answers to [lwyoder@ieee.org](mailto:lwyoder@ieee.org). I will acknowledge correct answers in a future issue. BY ■

**New Hydrogen Fuel Source**

SIGNa Chemistry was founded by Michael Lefenfeld and James Dye. Their main business is selling alkalis to companies that use them in various industrial processes. Now they make a sodium silicide powder that when mixed with water, releases hydrogen. They are now marketing several power cells based on using hydrogen produced this way. Find out more at their web site:

<http://signachem.com/choose-industry/hydrogen-fuel/>.

BY ■

**New Way to Cool Nuclear Plant**

From [www.businesswire.com](http://www.businesswire.com)

Could a swimming pool on the coast of Chile hold an answer to reducing industrial energy waste in the U.S.?

Crystal Lagoons, the Santiago, Chile-based creator of the Guinness world record-holding swimming pool at San Alfonso del Mar, has announced a new use of its technology – cooling power plants – along with the opening of its first U.S. office in Princeton, New Jersey, to help oversee its application.

The most widespread cooling method in the energy industry is called “once-through cooling.” It draws water from a natural source, uses it to cool a plant and returns it, super-heated, to the same natural source. This devastates aquatic life, wastes precious energy and water and is outlawed in some states.

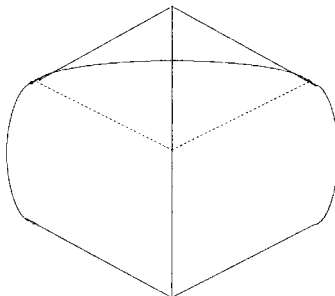
The technology developed at Crystal Lagoons uses a closed system of man-made cooling ponds. Now power plants can be moved further inland from coasts, aquatic life will be saved, water will be conserved and the resulting energy reservoirs can be used for building heating, desalination and other uses.

Read more about it at <http://www.businesswire.com/news/home/20110405006278/en/Crystal-Lagoons-Cools-Power-Plants-Swimming-Pool>.

BY ■

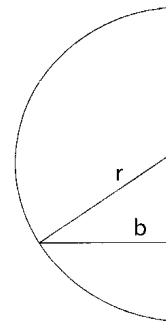
**Spring Math Problem Solution  
Volume of 3-Cylinder Structure**

In order to calculate the volume of the three cylinder structure we need to build on the calculation for the two cylinder structure. The intersection of two horizontal cylinders looks like this:



The dotted lines are only to help with perspective. The horizontal cross section

of this structure is a square, with side dimension  $2b = 2(r^2 - z^2)^{1/2}$ . The figure below may help you see this.  $z$  is the coordinate in the vertical direction with origin at the center of the structure.

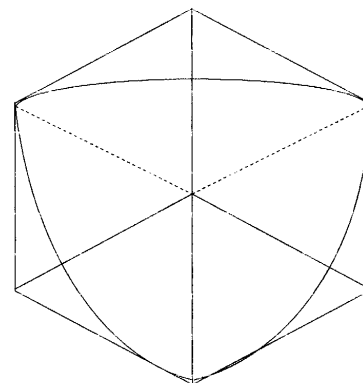


The area of the square is  $4b^2$ , and the volume of the intersection is

$$V_2 = \int_{-r}^r 4(r^2 - z^2) dz$$

This is easy to integrate and yields a value of  $V = 16r^3/3$ .

Now, the three cylinder structure's intersection looks like this:



Note that there are now four-faced “caps” on all four sides as well as on the top and bottom. In fact the total intersection can be described as a cube whose edge is  $r\sqrt{2}$  with one of those “caps” on each of its six sides. The volume of one “cap” can be gotten from the same integral as used above except with its upper limit set to  $-r/\sqrt{2}$ .

$$\begin{aligned} V_{3cap} &= \int_{-r}^{-r/\sqrt{2}} 4(r^2 - z^2) dz \\ &= 4r^3 [2/3 - 5\sqrt{2}/12] \end{aligned}$$

So the total volume of the three cylinder intersection is the volume of the cube plus that of six “caps”, or

$$\begin{aligned} V_3 &= 2\sqrt{2} r^3 + 6 \bullet 4 r^3 [2/3 - 5\sqrt{2}/12] \\ &= r^3 [16 - 8\sqrt{2}]. \end{aligned}$$

To get the volume of the total three cylinder structure we start with the



volume of the three cylinders and realize that V3 is counted three times, so 2 V3 must be subtracted. However, there is also a volume common to the first two cylinders not included in V3 that is counted twice. That volume is simply V2 - V3, and there are equal double counted volumes related to the first and third cylinders and the second and third cylinders respectively that are double counted. So 3 [V2 - V3] must also be subtracted. We get

$$\begin{aligned} V3\text{cylstructure} &= 3\pi^2L - 2V3 - 3 [V2 - V3] \\ &= 3\pi^2L + V3 - 3V2 \\ &= 3\pi^2L + r^3 8\sqrt{2}. \end{aligned}$$

BY ■

### Neglected Topics in Science and Christianity

#### Article by Dennis Feucht

In ASA publications, such as the journal, *PSCF*, and on the ASA website<sup>1</sup> there are a wide range of topics found among articles. Although the set of topics has changed and some even diminished over the years<sup>2</sup>, there are important topics involving the relationship of technology or science (physical or social) and worldviews (Christianity in particular) that have never been covered or have been given very scant attention. This article presents a short list.

Various reasons can be adduced for why these topics are not covered much. Some involve the secret things of the world for which little documentation of an academically respectable kind can be produced. Others have been effectively subjected to ridicule and dismissed by association with those of less than sound mind. Others are dangerous to even discuss in public. The following list demonstrates all of these reasons.

#### Mind Control

For centuries, the occult, the Illuminati, Eastern religious interests, the NAZIs, the CIA MK-ULTRA and Monarch projects and others have sought to exploit the characteristic of the traumatized human mind to dissociate as a basis for its shaping and control. With

advances earlier in the 20th century largely due to NAZI Joseph Mengele, these strong psychological methods of influence were acquired by the OSS, forerunner of the CIA, through Operation Paperclip. They have been refined to where they are relied upon by covert agencies such as the CIA, and more intensively, by secret societies - in particular, Adam Weishaupt's Illuminati, a secret group of Sabateans that practice the horrid customs of ancient paganism with the goal of producing super-humans. This involves traumatizing their young children into performing gross acts (such as murdering kittens) as an alternative to torture (usually electric shock). This traumatic conditioning results in psychotic abnormalities. Because the scriptures warn God's people not to become involved in these dark areas of behavior, little is known among Christians about them, though the scriptures themselves give hints. Jesus was emphatic about the damnation that would come upon those who use children for evil purposes. The Master Race notion of the NAZIs was but a popularization of what has been secretly developed for generations by the Illuminati hierarchy.

In connection with mind control is a popularized controversy over the false-memory syndrome. It relates directly to the kind of methods used in MK-ULTRA. The movie, "Conspiracy Theory", starring Mel Gibson, was about the CIA MK-ULTRA world. It portrayed how strange mind control is, relating to what scripture describes as demon possession and what psychology calls Multiple Personality Disorder, induced and then controlled through torture and deception. These topics fit under the heading of psychology, a social science, yet they remain deep within the shadows of occult groups and covert institutions. They are profoundly spiritual in nature, yet overlap with science and its application.

#### UFOs, ETs, Nephilim, and Yahwist Genocide

The UFO-alien topic has gone from sci-fi to official US government investigation in Project Blue Book in the 1950s, to association with New Age effluvia, to once again a more sober treatment such as that given by Hugh Ross of Reasons to Believe. UFOs are distinguished by the categories of their occupants: secret military personnel, or alternatively, aliens who are

extraterrestrials (ETs). Area 51 in Nevada has been a focus of observation by UFOlogists of both categories. At one time, Hanger 18 at Wright-Patterson Air Force Base in Dayton, Ohio was alleged to be the location of alien bodies kept "on ice" (preserved) from the alleged Roswell, New Mexico UFO crash.<sup>3</sup> Roswell has a UFO museum dedicated to this crash. (The nearby State museum in Roswell has a display of a rocket of space pioneer Robert Goddard.) In the UFO museum, accounts of various testimonies of persons is given about alien bodies, but the only thread of physical evidence that I could find was the discovery of a non-human alloy of metal found from the vehicle wreckage. Why this seemingly important item of evidence has not been more fully advanced in support of the alien-vehicle claim I do not know.

The alternative explanation of the event, from the US Air Force, is that a radar balloon experiment had crashed. The best evidence for this I have noted is that some of the recovered fabric at the site had a pattern that traced back to a factory in New York that produced material known to be used in these balloons.

Do the scriptures have anything to say about aliens? They must, in reference to angels. They are *messengers* in function, yet are not necessarily human beings, though they appear human and are called "men" in scripture. Lucifer and his fellow rebels are in this category. Angels are, like ourselves, created beings and as such must be a part of the creation, which is the universe. Either they are here on earth (such as the Devil and his demons) or they are from other places in the universe. In the former case, they must be of a physical nature that can largely evade detection though numerous accounts exist over the centuries to the present day of their various manifestations. For angel ETs, they must be more technologically advanced than we to accomplish space travel.

<sup>1</sup> www.asa3.org

<sup>2</sup> When Richard Bube was *JASA* editor, various topics such as Christian involvement in war and the sexual revolution were covered, topics which would probably not be considered within the range of sci-Xny now.

<sup>3</sup> I was in what is now called Building 18 a few times in the late 1990s. It is a hypersonic engine test facility in which a Christian aerospace engineering friend of mine, Rick Wills, worked. The bottom level houses no CO<sub>2</sub> storage but a giant compressor for generating hypersonic airflow - not cold but very hot!

The scriptures also hint at either other varieties of human beings or intelligent non-humans, as Nephilim. Various speculations about them exist too, leaving open the possibility that other forms of either humans or near-humans coexisted with humans in ancient times. (Perhaps Nephilim were non-Adamites.) What are now regarded as fanciful pagan myths about human-animal hybrids appear less fanciful in the context of recent genetics advances, and are probably due for a review. Cyclops, centaurs and other oddities also fall in this category. The possibility of human beings whose genetics had become so degenerated through generational transmission of undesirable characteristics<sup>4</sup> might explain why Yahweh called for genocide of certain nations of people in Canaan. The Molech practice of traumatizing, if not murdering, children by causing them to pass through fire as an act of purification is nowadays better understood to cause severe mental and spiritual damage that reduces these unhappy individuals to less than full human existence. (A concrete statue of Molech is the centerpiece of a “cremation of care” ceremony, practiced in our time in the Bohemian Grove, a summer camp of the power elite in northern California. Investigative reporter Alex Jones ([www.infowars.com](http://www.infowars.com)) sneaked into the Grove and videotaped this ancient pagan ceremony, with hooded figures carrying torches and world leaders urging them on - not something that appears in mainstream media soundbites!) These ancient pagan Canaanite traditions, like the modern Illuminati, were reducing the human race to sub-Adamite status, and in view of this it is not unreasonable that Yahweh would have Israel destroy them entirely, including children who had become the irredeemable victims of such mind control.

### Political Influence in Science and Technology

More mundane than UFOs and mind control is the extent to which the activities of science and technology are influenced by politics. This includes not only the many instances of corruption of science,

<sup>4</sup> The CIA mind-control project Monarch got its name from the observation that Monarch butterflies pass on genetically the knowledge of their birth location. Had some strands of humans become irredeemably fallen through generations of degeneration?

the use of “junk science” in courts from so-called expert scientific witnesses, drug company money buying off medical researchers and doctors, or the cover-ups of unsafe activities or practices, as reported by watchers (“whistleblowers”), such as former ASA member Joe Carson regarding nuclear safety at ORNL. Politically-protected practices, such as adding toxic fluoride compounds to drinking water, are not covered up but efforts to rectify them have mostly failed to overcome political obstacles. This topic has been addressed in ASA by one paper at the 2008 Annual Meeting. This category of activity might be called *Establishment pseudoscience*. It is not only cranks and charlatans who perpetuate false science; much of it can be found in places having the color of scientific respectability, yet few will say that such an emperor has no clothes.

What about global warming? While ASA discusses and debates the scientific aspects, and also extrapolates about the consequences of various biospheric scenarios, little to no investigation of how environmental issues are being used to advance political goals is discussed. Why the strange silence on the larger misuse of environmental science? (The hackers of the CRU email disclosure are an exception.) While as ASA Newsletter editor I covered such topics and at the 2001 Annual Meeting I gave a talk which included it. Meanwhile, ASA has been seeking to bolster its image among the scientific community in various ways. Might this not possibly tend to suppress the search for truth, especially on issues that the political powers who effect public opinion want to suppress? As MIT linguist Noam Chomsky has aptly pointed out: “The smart way to keep people passive and obedient is to strictly limit the spectrum of acceptable opinion, but allow very lively debate within that spectrum.”

As ASA attempts to mingle in circles with bigger names, the effort by those with real political power to influence ASA will increase. ASA is also running an experiment with this in the joint projects with (the now recently deceased) John Templeton. The amount of Templeton money involved is not insignificant relative to ASA’s financial scale. Big names such as Billy Graham, John Templeton, and Laurence Rockefeller were apparently supportive of John G. Bennett and his New Era Foundation scam. Bennett offered to

established Christian organizations a doubling of their investments and he collected an unaccounted-for \$550 million from ministries of Westminster Theological Seminary, Wheaton College, Pat Robertson, Bill Bright, Chuck Colson, Luis Palau, the Salvation Army and others. This alone illustrates the need to become more discerning about the interests and nature of the bigger players in the world-system. Discernment requires knowledge of the world-system, knowledge that scientists and engineers almost never give much priority. We cannot afford to assume that there are no wolves in the Christian fold or that ASA is not influential enough to attract the interests of world-system builders, to infiltrate and subvert biblically-based goals.

### The Convergence of DNA Ancestral Tracing and Recorded History

The Cambridge DNA Services presents current anthropological thinking about human ancestry based on mitochondrial DNA tracing. This is the DNA outside the nucleus of the cell that is propagated by the mother only, thereby making maternal ancestry tracing possible. (Part of the Y chromosome similarly makes paternal ancestry traceable.) Tracing consists of following genetic markers that are passed down through generations. The markers can be used to distinguish lines of descent.

This DNA tracing is a new source of historical evidence. It is presented in the larger time-scale of the evolution of *homo sapiens*, beginning out of east Africa. It includes the Siberian-Alaskan land-bridge theory of propagation of humanity into the western hemisphere. Yet it is here and in other places where a history constructed from the historic sources of ancient writings conflict. For instance, in the Cambridge DNA Services presentation, step 7, the land-bridge theory appears in the following comment<sup>5</sup>:

About 25,000 years ago the sea level was 120 metres lower than today, and America and Asia were connected by a wide land bridge. A small group of *Homo sapiens* from northern Siberia moved into the Americas, whose

<sup>5</sup>

<https://www.cambridgedna.com/genealogy-dna-ancient-migrations-slideshow.php?view=step7>

characteristic ABCD-signature is now found across the Americas - all speakers of an ancestral Amerind language according to the linguist Joseph Greenberg.

This conflicts with other recorded history if one is not careful with time-scales.

25,000 years ago is long before Adamites, if one takes the roughly 4000 BC dating of Adam as the beginning of an enhanced, civilized humanity - a humanity capable of relating meaningfully to the Creator. The various pre-Columbian people groups in the Western Hemisphere are unrelated, or at most distantly related. Mayans do not have the physical characteristics of the Sioux or Cherokee or Aleuts and their language and cultural emphases are far different. The languages spoken by some groups are closer to ancient Mideast languages than to a common prehistoric language of the Western Hemisphere, leading to the historically-supportable possibility that some are descendents of Canaanites.

Historian Diodorus Siculus was told by the Carthaginians, a Phoenician colony in Africa, that if they lost the third Punic (Phoenician) War against Rome that they had 300 towns in Atlantis and that they would relocate to them. From ancient times reaching back to the early second millennium BC, the Phoenicians had long-boat technology. Their boats were over twice the tonnage of Columbus's largest ship. As archaeologist David A. Deal describes<sup>6</sup>:

It should be noted that from the period of the latter part of the 7th century B.C.E. until the rise of the Macedonian empire of Alexander the Great in the latter part of the fourth century B.C.E. the Phoenicians formed the mainstay of the Egyptian, then Babylonian, and then Persian merchant fleets. During this entire period the Phoenicians remained allies of the Egyptians and Libyans. This fact dovetails perfectly with the inscriptions found in the New World, which show numerous writings in Egyptian, Libyan, and Punic or Phoenician script. As we move closer to the Roman empire period, and the great conflict between Roman and the Carthaginian empires - the First Punic

War occurring from 264 to 241 B.C.E. - we find the Phoenicians becoming more jealous and protective of their secret markets located beyond the Pillars of Heracles [Hercules; the Strait of Gibraltar - in other words, into the Atlantic Ocean].

In the early 1800s, a paleo-Hebrew rock inscription was found at Paraiba, Brazil from which extant pressings were made. This inscription is of doubtful authenticity, but many other pre-columbian evidences in North America are not.

What is at the root of this conflict? I view it as a confusion of time scales, not of DNA evidence versus recorded history. In the time-scale of recorded history, colonization of Aztlan (Atlantis<sup>7</sup>) occurred, leading to a diversity of people groups in the New World. What prehistoric *homo sapiens* existed were displaced at a later time in ancient history by those from the Mideast or Europe. The ancient legends and beliefs of the Aztecs, for instance, about Quetzlcoatl, illustrate this. There are many ragged pieces of data and theorizing to be harmonized and made coherent, now that more is emerging about human history from genetics. And it is interesting how many column-inches of scripture are devoted to genealogy. It must have an importance that might only now be coming to light.

### The Origin of AIDS

The generally-acquired story is that AIDS passed in West Africa from monkey to man and consequently spread from there. This is presented as a scientifically plausible story, yet serves as a plausible cover for covert biological weapons development and deployment. I will not burden the reader with more of what might be regarded as "tall tales" but point to the Strecker memorandum and [www.boydgraves.com/flowchart/download.html](http://www.boydgraves.com/flowchart/download.html) as a place to begin in the uncovering of this likely cover-up. This is a scientific story with more involved than just science, and should be of interest in ASA. It is illustrative of a missing dimension in the science-Christianity dialog, that of social and political

institutions and their impact on both science and Christianity.

### Conclusions

We have two factors in our favor in getting at the truth of neglected, marginal, or marginalized issues. First, attitudes formed from scriptural influence can lead us into the truth and guard us effectively from some (but not all) of the refined methods of counterintelligence (deception) and the molding of public opinion. One powerful method of dissuasion is to create the widespread belief that one is going to be marginalized from one's peers in seriously considering some topics that are off-base to discuss. The slogans that are attached to those who engage the forbidden topics lead conformists to avoid them as they stay comfortably within the herd. A prime example of such a label is "conspiracy theory", a great way to disinterest the public in actual conspiracies (except for Hillary Clinton's "vast, right-wing conspiracy", whatever that might be). Yet we know from scripture of the moral fallenness of humanity and of human organization, especially in proportion to the power wielded, and consequently need not assume that those with political power (the ability to influence) and its means (money) will not use them to promote their own agenda in rebellion against God.

Second, we have a better than casual understanding of the creation itself and how it behaves. This provides some additional discernment into claims involving the creation. Equally significant is the scientific habit of mind in getting at the truth of a matter. It involves not only rational thinking skills but also the ability to acquire and assess physical evidence. Lawyers have some of this ability too, but having an in-depth understanding of physical reality gives us an edge in assessing some aspects of the above list. (Lawyers have an edge over us in that they are generally more adept than scientists and engineers at discerning human nature and human motives and deceptions.)

Having noted our double advantage, we can never assume that it is good enough, that we have "arrived", for (as the apostle Paul noted) that sets us up for a fall. Indeed, in understanding the world-system, Christians in science are generally not much better prepared than the ordinary American Christian, and with preparation that is generally inadequate to

<sup>6</sup> *The Discovery of Ancient America*, p. 48, available from <http://artisanpublishers.com/>

<sup>7</sup> From Diodorus, Strabo, and others, I find that the evidence points clearly toward the conclusion that Atlantis is the Western Hemisphere. If one reads only Plato, it remains a mystery.

confront or evade the opinion-shaping effects of the world-system. As geopolitical events rapidly unfold, revealing a very different America than Norman Rockwell painted, the honing of our discernment skills is imperative. The above list of illustrative topics provides some exercises in this regard. There are many others.

Dennis L. Feucht JUL08, MAR11 ■

**The YahooGroup**

**asa\_cest@yahooogroups.com**

was established to provide a mechanism for CEST members to keep their entries in the CEST email address list up to date. For CEST members not in this Yahoo group, we use email addresses from the ASA's new online membership directory. However, past issues of our newsletter will continue to be archived at the Yahoo group's web site, where they are accessible to group members. To join our group, go to: [groups.yahoo.com/group/asa\\_cest/join](http://groups.yahoo.com/group/asa_cest/join) and follow the instructions.

Bill Yoder, ed. ■

**CEST Newsletter at asa3.org**

Beginning with the Winter 2011 issue, copies of this newsletter are also being placed at <http://www.asa3.org/ASA/cest/>.

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