

# NEXUS

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# NEXUS MAGAZINE

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## STATEMENT OF PURPOSE

NEXUS recognises that humanity is undergoing a massive transformation. With this in mind, NEXUS seeks to provide 'hard-to-get' information so as to assist people through these changes. NEXUS is not linked to any religious, philosophical or political ideology or organisation.

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## Editorial

Welcome again to the world of NEXUS, which attempts to help you see the forest *because* of the trees.

The topic at the forefront of people's minds at this time of going to press is the state of the economy. The world seems to have run out of money. Where did it go? Did it even exist in reality in the first place, or was it just a computer entry somewhere? Why don't governments print more and put it into circulation? Lots of emails are coming to NEXUS, asking us what we think is happening.

Well, at the very heart of the problem is who exactly has been given the power to issue currency. You see, the average person assumes that the creation of money and credit is a government-controlled thing. It is not. It is a private business—and I speak particularly about the US scene. Just as a baker makes bread and sells it, so too do the people in charge of currency. They make it, and sell it to governments to use. What we are witnessing on the planet is a contraction of the available created credit in existence, which is going to lead to the formation of a new global economic system.

Why don't governments take charge of issuing currency, you ask? Well, the last major attempt at this sort of heresy was done by none other than JFK. His very public murder was a message to other world leaders never to dabble in the affairs of the people in charge of currency creation.

Who are these people, you ask? Well, I do not know. I know that a lot of readers will contact me to say that it's the Jewish bankers, or the Freemasons, or the Vatican that are in charge of this—but I believe all of these are merely servants to some other real controllers.

Another area of interest and growing concern to people, are the changes that are occurring with the magnetic fields in our solar system. The Sun, Earth and several planets are exhibiting signs that something big is happening. While we do not understand what or why, we can clearly see that Earth's magnetic field is changing rapidly as a response to what is happening on the Sun, and that this is driving sudden climate change on several planets, including our own. (I also have a pet theory that human consciousness and solar activity are intimately connected in ways we are yet to comprehend.)

Maybe these changes are also connected to the phenomenon of orbs. I personally cannot see the big deal about orbs, but I am happy that they excite so many people, and, to that end, we have an article about them.

Another topic I've been meaning to cover in NEXUS for some time is the mysterious "Starchild skull" that Lloyd Pye has been lugging around for some years. My hunch about this skull is that it is possible evidence for "the little people", who are described in encounters and legends as living underground in many parts of the planet. After all, it was found deep in an ancient tunnel in an area full of such stories about underground civilisations. But as you will read, advanced DNA testing will soon tell us what the skull is and is not.

And finally, regarding the next NEXUS Conference, at this stage I'm undecided if or when we will hold a conference this year, let alone as to where it will be. I will know for sure what is happening by the time you read the next issue's editorial.

These are times of great change, and I wish you all well on your journeys.

Duncan

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# Letters to the Editor ...

## Global Economic Crisis

Dear Duncan: Political leaders want to claim credit when the economy is going well and want to hide behind previous governments and international factors when the economy is bad.

Our government, via its policies, can definitely make local conditions worse than elsewhere but globalisation means that they can't make growth any better for any great length of time than it is anywhere else.

In the current climate, globalisation puts a low ceiling on how positive growth can be in any one country and a floor under how negative growth can get under no country. The end result is that all economies are sinking; government policies can only determine the speed of the sinking but they can't stop it—the market (herd) won't let them.

The international herd is now in a slow stampede that's about to become much quicker. The seeds of the soon-to-arrive depression lay in spending on unnecessary wars and decades-long speculation in real estate/stocks employing ever-increasing leverage ratios without anything being produced that meets a real need. In short, the looming depression is the outcome of corrupt governments putting off implementing proper lending controls at the behest of a corrupt finance industry that pressures the government to look the other way while it creates bad debt.

The truth is that "they",

the corrupt nature of government and business and the crisis we find ourselves in is a collective expression of our individual greed.

Changing the type of people who manifest as our collective leaders at the macro level necessitates changing our internal selves at the micro level of the individual.

The quantum and unified field effects of changed individuals (at the level of the neuron/frontal lobe) will have the effect of changing the leaders who emerge to lead. Personal change at the neuron/frontal lobe level necessarily requires individuals to become conscious of, interact with, modify and ultimately free themselves of their emotional peptide addictions.

These addictions are learned over the course of lifetimes and are inter-generational in nature, so they require real work over a sustained period to overcome. The task is nevertheless not impossible!

Dan, ACT, Australia

## Nazi UFO in Australia

Dear Duncan: As an avid subscriber/reader of NEXUS Magazine, not much surprises me these days. However, the February-March 2009 edition [16/02] has managed to knock my socks off.

In the 1960s, I had a UFO sighting. This object flew silently over my home, lower than any conventional aircraft. At the time, I was a member of the RAAF and was based at Pearce Air

Force Base in Perth, Western Australia. I was familiar with aircraft types.

I wrote about, and diagrammed in detail, the sighting in a book that remains unpublished.

To my surprise, when reading the article on page 40 about the "Secret Technology of the Third Reich", there was the exact drawing of the UFO I had seen, the only difference being the antenna-like object not on top as it was on my diagram.

The shock of seeing the UFO there was unbelievable, but to then read it was a Nazi secret weapon was sheer amazement.

To know what I saw and to know that NEXUS articles are so accurate, I'm just blown away.

Keep up the fight to enlighten.

Regards,  
G.G., Western Australia

## AIDS Dogma Exposed

Sir: I am extremely impressed by the excellent "dossier" on AIDS that appeared in the French edition of NEXUS—a dossier that has been most professionally prepared by Pryska Ducoeurjoly.

Please, give it a complete look. This is a most convincing presentation of the entire AIDS nightmare (dogma!).

I would be absolutely delighted if you could arrange for this most important dossier to be translated into English and published in NEXUS.

I sincerely believe that this will be a most significant contribution to

make the public aware of what has been probably the darkest page in the history of medical science in the 20th century.

I am completely available for any help I could provide in that direction.

With best regards,  
Etienne de Harven, MD,  
Emeritus Professor,  
University of Toronto,  
Ontario, Canada

## UFOs and World Changes

Dear Duncan: Thank you for a most interesting and informative periodical. I have found no comparison that suits my interests.

I was perusing vol. 15, no. 5, and was glad to read your comments regarding a big increase on the Internet in people coming forward to speak about their alien/UFO abduction and contact experiences.

This is a subject that has held my interest since the 1960s. We are often left to wonder, though, just what is part of a disinformation program and what is actually true. Hopefully this subject will continue to become more clearly understood and truthful.

I wonder if the reported sightings were actually of alien craft or of government experimental craft, etc.

In regard to your stating that people are emailing saying "something" has changed, this seems to be easily discernable to many of us. Time in fact seems to be increasing its speed, and since the 9/11 destruction it seems as though there is a collective negative mood enveloping so much of society; that is now being further impacted upon by

# ... more Letters to the Editor

**NB: Please keep letters to approx. 150 to 250 words in length. Ed.**

the worldwide banking system collapse.

At any rate, once again, thank you for an excellent and informative periodical that would be most welcome in the mailbox monthly rather than bi-monthly!

Sincerely,  
Gary M. L.

## **Golan Heights Megaliths**

Dear Sir: The Golan Heights spreads over 1,250 square kilometres and is an important spring region that supplies four states with water.

The great presence of static electricity in this region can be deduced from the high number of megalithic structures.

A local circular structure of 159 metres in diameter is composed of five concentric circles that are laid out by freely laying stones that all weigh 37,000 tons in total.

The heaviest single stones that were used weigh about 20 tons. Around this structure there are a further 8,500 dolmens and menhirs, the heaviest weighing 50 tons, and they are up to seven metres in height.

The Golan Heights may be thought of as a natural laboratory which can provide us with historical information, in view of this research.

The static electricity that is almost unknown to present science was crucial for all megalithic structures that were built around the Earth. The new knowledge about properties of static electricity that I describe at [www.miroslavprovod.com](http://www.miroslavprovod.com) provides more in-depth information via continuing

research about the mysteries of construction of megalithic structures with combinations of different types of rocks; for example, at Stonehenge, Machu Picchu and many other sites.

The megalithic structures had all the same function. They accumulated static electricity in their matter, which they gained from various sources. At the Golan Heights the sources are mainly underground springs, which provide the megaliths with the static electricity charge.

The electronics of the human body take the static electricity from cellular membranes in order to maintain functionality of all organs. The static electricity is continuously supplied by mitochondria.

It can be proved by various experiments that the charge of the human body can be filled by other means as well—by staying close to a greater source of static electricity, which spontaneously gives the energy to cellular membranes. The transfer of energy is rather slow.

In the case of transfer between a rock and a human body, it takes tens of minutes. This shows that the megalithic structures and, later, also the sacred structures were built mainly for health purposes.

Miroslav Provod, Czech Republic, email [centrum11@volny.cz](mailto:centrum11@volny.cz)

## **CIA's Secret Technology**

Dear Duncan: Thank you for publishing the interview by Linda Moulton Howe with ex-CIA agent "Stein" in

NEXUS vol. 16, no. 2. This interview actually reveals more secret technology than at first might appear. The interview is prefaced by the information that agent Stein worked for the CIA between 1957 and 1960. Stein also states in the second reply to LMH's questions in column 2, page 50, that he used his "security card to zip through the lock".

According to conventional histories, magnetic stripe technology only began to be developed, by IBM, from 1966 onwards (see web page [http://en.wikipedia.org/wiki/Magnetic\\_stripe](http://en.wikipedia.org/wiki/Magnetic_stripe)).

Clearly, the CIA had access to this technology over half a decade before it was released to the general public, and it's no surprise that IBM was used at the marketing "front".

That this technology has been used around the world for the last three decades might explain where the funding for the CIA's "black ops" comes from, without the scrutiny of Congress ever being engaged.

I think more investigation of this would be most useful.

Yours sincerely,  
Steve W.

## **Climate Change Con**

Dear Duncan: Of course, "The Climate Change Debate Goes On", as it must do (NEXUS vol. 16, no. 2).

I have been attending science and climate conferences for the past 30 years, and have written extensively about climate change long before it became fashionable. I have noticed with alarm that the

subject has changed before my very eyes from global cooling to warming, markedly so in the last 10 years.

It is clear that doctrinaire attitudes about culture and science have seeped into the West since the collapse of communism in the East. "Environmentalism" is a powerful anti-growth and well-financed crusading movement that has attracted political activists who would formerly have belonged to the CND [Campaign for Nuclear Disarmament] and other protest movements and who similarly brook no opposition.

This time, though, the activists have succeeded in penetrating deep into the western media and political establishment.

It will cost billions to retool the West's energy generation systems, all for no purpose.

Worse, the western scientific canon is under assault from this subversion. All the major science magazines promote global warming rhetoric. Meteorology, climatology, all the Earth sciences and even environmentalism itself are being insidiously undermined. The rot is spreading to ecology, organic chemistry and solar physics.

When it finally dawns on the politicians and a later generation of scientists that they have been conned, there will be all hell to pay. What is happening is a catastrophe from which the West may not recover.

Regards,  
Antony M., UK

**PATIENTS CAN SUE DRUG COMPANIES, US SUPREME COURT RULES**

Patients have the right to sue drug companies when they've been harmed by medications whose risks aren't adequately disclosed, the US Supreme Court ruled today [4 March] in an important 6-3 decision.

The much-watched case is a significant defeat for the pharmaceutical industry and could open the door to thousands of lawsuits against drug firms.

The suit was brought by a Vermont musician, Diana Levine, who lost her arm in 2000 after being given an injection of an anti-nausea drug at a health clinic. Gangrene set in immediately, leading to the loss of the limb.

Levine sued Wyeth, the drugmaker, alleging that it failed to warn sufficiently of serious risks associated with intravenous injection of the drug. A Vermont jury awarded the woman US\$6.7 million, and the Vermont Supreme Court affirmed the verdict in 2006.

Ironically, a year ago, the US Supreme Court affirmed that



medical devices approved by the FDA were largely shielded from product liability suits in state courts. However, the laws governing medical devices are different from those governing the drug industry.

(Source: *Chicago Tribune*, 4 March 2009, <http://tinyurl.com/cwtuz9>)

**"ALIEN" GENES ESCAPE INTO WILD CORN**

Now it's official: genes from genetically modified (GM) corn have escaped into wild corn

varieties in rural Mexico. A new study resolves a long-running controversy over the spread of GM genes and suggests that detecting such escapes may be tougher than previously thought.

A team led by Dr Elena Alvarez-Buylla, from the National Autonomous University of Mexico, found transgenes in about one per cent of nearly 2,000 samples they took from the region (see *Molecular Ecology*, vol. 18, p. 750).

(Source: *New Scientist*, issue no. 2696, 21 February 2009, <http://tinyurl.com/bsn758>)

**MICROCHIPS IN HUMANS MAY BECOME COMPULSORY**

All Australians could be implanted with microchips for tracking and identification within the next two or three generations, a prominent academic says.

Michael G. Michael, from the University of Wollongong's (UOW's) School of Information Systems and Technology, has coined the term "uberveillance" to describe the emerging trend of all-encompassing surveillance.

"Uberveillance is not on the outside looking down, but on the inside looking out through a microchip that is embedded in our bodies," Dr Michael said.

He predicted that microchip implants and their infrastructure could eliminate the need for e-passports, e-tags and secure ID cards.

"Microchipping I think will eventually become compulsory in the context of identification within the frame of national security," Dr Michael said.

Although uberveillance is only in its early phases, Dr Michael's wife, Katina Michael—a senior lecturer from UOW's School of Information Systems and Technology—said the



**"Well, nobody really wanted this sort of war to start, but take a tip and buy up shares in the irradiated food industry."**

# ... GLOBAL NEWS ...

ability to track and identify any individual is already possible.

"Anyone with a mobile phone can be tracked to 15 metres now," she said, pointing out that most mobile phone handsets contain GPS receivers and radio-frequency identification (RFID) readers.

(Source: NineMSN.com, 30 January 2009, <http://tinyurl.com/d2t32j>)

## FRAUD ALLEGED IN ORIGINAL HIV=AIDS PAPERS

Thirty-seven legal, medical and research professionals have sent a letter to the journal *Science*, asking it to officially retract the original four papers that made the case for HIV as the cause of AIDS. According to the letter's authors, widespread evidence has now emerged that the studies were not only poorly carried out but their results were falsified.

In 1984, Robert Gallo, MD, published four articles in *Science*, claiming that he had isolated HIV (human immunodeficiency virus) and concluding that it was the "probable cause of AIDS".

Investigative journalist Janine Roberts has discovered, however, that Dr Gallo made last-minute alterations to the lead paper and its results.

"I was shocked when I read the original draft of the key scientific paper now widely cited as proving HIV causes AIDS," said Roberts, author of *Fear of the Invisible*. "Gallo's handwritten last-minute changes reversed what the scientists in his lab had originally concluded.

This demonstrates a stunning disregard for the scientific process and a very disturbing breach of public trust."

Along with a copy of the handwritten changes, the letter from the 37 experts includes a

letter from Gallo himself, admitting to another researcher that HIV could not be isolated from human samples alone; and a letter from an electron microscopy expert saying that there was no HIV in Gallo's 1984 samples.

Dr Gallo's work has come under fire before, with US government investigations in the 1990s concluding that the lead paper was "fraught with false and erroneous statements" and that "the careless and unacceptable keeping of research records...reflects irresponsible laboratory management that has permanently impaired the ability to retrace the important steps taken".

"With new findings that undermine the scientific integrity and veracity of Gallo's four papers, the entire basis of the theory that HIV causes AIDS may now be questioned," said David Crowe, president of the international organisation Rethinking AIDS.

(Source: NaturalNews.com, 6 March 2009, <http://www.naturalnews.com/025787.html>; also see <http://www.rethinkingaids.com>)

## US CYBER SECURITY HEAD QUILTS OVER THREATS TO DEMOCRACY

Rod Beckstrom, head of the US Department of Homeland Security's National Cyber Security Center (NCSC), has quit, saying that the National Security Agency's

expanding control over the nation's computer security efforts poses "threats to our democratic processes".

In a letter to Homeland Security Secretary Janet Napolitano, Beckstrom said that the NSA "dominates most national cyber-efforts" and "effectively controls DHS cyber-efforts through detailees, technology insertions and the proposed move" of the NCSC to an NSA facility at the agency's Fort Meade, Maryland, headquarters.

Successive administrations have wrestled with the complex problem of how to delineate and define the roles of various intelligence, military and security agencies in assuring the integrity of the nation's computer networks—the vast majority of which are owned and operated by the private sector and depend for their efficacy on their open and accessible, and therefore security-unfriendly, architecture.

In his resignation letter, Beckstrom wrote that "the NCSC did not receive appropriate support inside DHS".

"...During the past year, the NCSC received only five weeks of funding, due to various roadblocks engineered within the department and by the Office of Management and Budget," he wrote.

(Source: United Press International, 11 March 2009, <http://tinyurl.com/alw6yc>)



# ... GLOBAL NEWS ...

## SCIENTISTS BUILD NANO-ROBOT

US and Chinese scientists have created a two-armed nano-robot that can manipulate molecules within a device built from DNA.

The researchers, from New York University and China's Nanjing University, said the programmable unit allows researchers to capture and manoeuvre patterns on an unprecedented scale.

New York University chemistry professor Nadrian Seeman, one of the study's co-authors, said that the two-armed nano-robotic device enables the creation of new DNA structures, thereby potentially serving as a factory for assembling the building blocks of new materials.

With that capability, it has the potential to develop new synthetic fibres, advance the encryption of information and improve DNA-scaffolded computer assembly.

The researchers said their device performs with 100 per cent accuracy, as confirmed by atomic force microscopy that permits features a few billionths of a metre in size to be visualised.

The research, also conducted by Professor Shou-Jun Xiao and graduate students Hongzhou Gu and Jie Chao, is reported in the journal *Nature Nanotechnology*.

(Source: UPI, via SpaceDaily.com, 16 February 2009, <http://tinyurl.com/dkev9l>)

## FRANCE BANS ADVERTISING OF MOBILE PHONES TO CHILDREN

New laws cracking down on children's use of mobile phones are to be introduced in France amid growing fears that emissions from the phones may cause cancer and other diseases.

All advertising of the devices to children under 12 is to be prohibited under the legislation, which will also ban the sale of any phone designed to be used by those under six.

The French government will also introduce new limits for radiation from the phones and make it compulsory for handsets to be sold with earphones, so that users can avoid irradiating their heads and brains.

These are the most comprehensive actions yet taken by any government worldwide.

In Toronto, Ontario, Canada, the Department of Public Health has advised that children under eight should only use mobiles in emergencies and that teenagers should limit calls to less than 10 minutes.

Russia's Ministry of Health has warned that young people under 18 should not use the devices, and Israel's Health Ministry has also advised caution.

(Source: *The Independent*, UK, 11 January 2009, <http://tinyurl.com/7zt8rf>)

## GOODBYE TO TAX HAVENS AND SECRET BANK ACCOUNTS?

Ahead of a G20 finance ministers meeting, starting on Friday 13 March, several European Union nations have agreed to make concessions to clamp down on banking secrecy and tax havens.

Swiss bank accounts are now set for a shake-up, with the Swiss government agreeing to ease its strict banking-secrecy rules. The government has also agreed to cooperate with investigations into tax evasion. Switzerland is the world's biggest "offshore" financial centre, with an estimated US\$3 trillion in global wealth held in its banks.

Geneva-based journalist Andreas Zumach said that the decision will lead to a lot of money leaving Switzerland. "I think this is the end of the Swiss bank secrecy as we have known it," he said.

Luxembourg has also agreed to relax its secrecy rules and to cooperate with foreign tax authorities in cases where fraud is suspected, the Treasury and Budget Minister Luc Frieden announced.

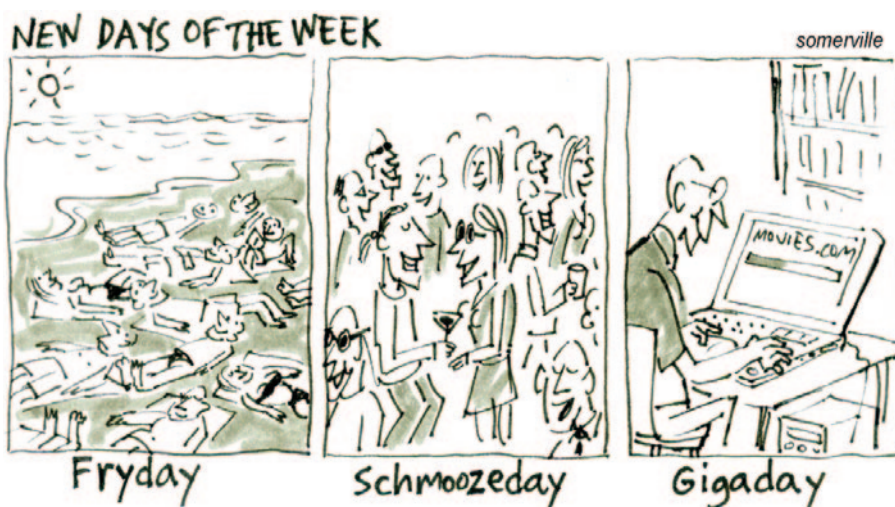
Luxembourg, Belgium and Austria are the only European Union countries that currently do not share information about savings account-holders from other countries with their tax authorities.

Belgium, which instead of exchanging information with other tax administrations applies a withholding tax on interest earned on foreign residents' savings accounts, has now announced a similar move to Luxembourg's.

Austria has insisted it will only lift its banking secrecy where there is "justified suspicion" of wrong-doing.

Bowing to international pressure, Liechtenstein and Andorra also said they would ease their secrecy rules and swap information with foreign governments to combat tax fraud and evasion.

(Sources: ABC News, 13 & 14 March 2009, <http://www.abc.net.au>)



# ... GLOBAL NEWS ...

## PARAPLEGIC MAN SUFFERS SPIDER BITE, WALKS AGAIN

After being bitten by a spider, a paraplegic man who has been confined to a wheelchair for 20 years is walking again. His doctors call it a miracle.

A bite from a Brown Recluse spider sent him to the hospital and then to rehab for eight months. It was there that a nurse noticed David's leg spasm and ran a test on him.

"When they zapped my legs, I felt the current; I was like 'whoa' and I yelled," he said.

He felt the current and the rush of a renewed sense of hope.

"She says, 'Your nerves are alive; they're just asleep'," David explained.

Now David is out of the rehab hospital and on his feet and walking. (Source: CBS, 12 March 2009, <http://tinyurl.com/dhd49q>)

## UK TO TRACK TRAVELLERS

The travel plans and personal details of every holidaymaker, business traveller and day-tripper who leaves Britain will be recorded and stored on a database for a decade.

Passengers leaving every international sea port, station or airport will have to supply detailed personal information as well as their travel plans.

Weekend sailors and sea fishermen will be caught by the system if they plan to travel to another country—or face the possibility of criminal prosecution.

Travellers will be expected to use the Internet to send their details each time they leave the country and would face a fine of up to £5,000 should they fail to do so.

Similar penalties will be enforced on airline, train and ship operators if they fail to provide details of every passenger to the UK Border Agency.

Civil libertarians are alarmed. (Source: *The Daily Telegraph*, UK, 14 March 2009, <http://tinyurl.com/d9kwjl>)

## PINE GAP, DEMOCRACY GAP

On 26 February 2009, during a Senate Estimates hearing, I asked the [Australian] Department of Defence about a review reported to be underway between the United States and Australian governments on the Pine Gap agreement. The senior Department of Defence person had never heard of a review but assured me that he and his department would know if such a review were underway.

Signed in 1967, the agreement about Pine Gap between Australia and the USA was sealed when the token payment of a single peppercorn passed hands. In November 2008, the last 10-year extension of that treaty expired.

US Consul-General Michael Thurston said in an ABC piece online on Monday 23 February: "It's under review and that's what you do periodically with agreements, you take a look at them, and both sides agree that this is what you want; you either upgrade or update the agreement, you make changes or you don't make changes, and then you send it around for review and that's probably more the timely process...getting everybody who's got an interest taking a look and actually signing off on it."

It most certainly would be good to take a look at this agreement, but citizens or parliamentarians are not allowed to see it. In 1999, the government refused to provide information about Pine Gap to the Joint Standing Committee on Treaties—information that is made freely available to members of the US Congress. Nothing has changed since then. Although US Congress officials have visited Pine Gap and received classified briefings about its functions, elected representatives and senators are entrusted with less information than can be found in a public library.

The history of disinformation and misinformation about Pine Gap is long. In 1966, Australians were told the facility was to be a weather station. Later, the official cover was a "Space Research Centre". Australians have the right to know what is happening on Australian soil at one of largest and most sophisticated satellite ground stations in the world.

Last week, the Senate Foreign Affairs, Defence and Trade Committee issued a report on a government bill to clamp down on peaceful protest at Pine Gap, which the Australian Greens opposed. Under the Defence Legislation (Miscellaneous Amendments) Bill, the government strengthens the provisions defining Pine Gap as a "prohibited area" required for the defence of Australia. Those who enter or photograph the site face imprisonment for up to seven years. Adequate legislation already exists to protect Pine Gap from trespass or acts of aggression; in particular, the Crimes Act of 1914.

If Pine Gap is indeed a "core element" of Australia's national security, Australians have a right to know how and why. Rather than making the case for the proposed amendments, the government has described citizens exercising their democratic right to protest as "mischief-makers" and has furnished the committee with statements such as "Pine Gap makes an important contribution to the security interests of both Australia and the United States of America... The methods used for collecting intelligence at the facility are sensitive...", with absolutely no supporting evidence of any kind. These are not convincing arguments and neither are those made in the committee's report.

Rather than being convinced that Pine Gap does protect Australians, the Senate is being asked to enact legislation that would further shield Pine Gap from Australians. Such efforts to erode democratic rights are unsupportable and run directly counter to the kind of "security" we need.

(Source: *Blog by Scott Ludlam, The Australian Greens MPs website*, 27 February 2009, <http://greensmps.org.au/blog/pine-gap-democracy-gap-0>)



# AMERICA'S LOOMING FISCAL COLLAPSE

*The new budgetary measures designed to rescue the US economy are serving the interests of Wall Street bankers to the detriment of working people, causing economic dislocation, unemployment and mass poverty.*

**by Prof. Michel Chossudovsky**  
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From the web page:  
[http://www.globalresearch.ca/  
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"We will rebuild, we will recover, and the United States of America will emerge stronger."

— US President Barack Obama, State of the Union Address,  
24 February 2009

## "Strong economic medicine" with a "human face"

At first sight, the recent US budget proposal has all the appearances of an expansionary program, a demand-oriented "Second New Deal" geared towards creating employment, rebuilding shattered social programs and reviving the real economy. The realities are otherwise. Obama's promise is based on a *mammoth austerity program*. The entire fiscal structure is shattered, turned upside down.

To reach these stated objectives, a significant hike in public spending on social programs (health, education, housing, social security) would be required as well as the implementation of a large-scale public investment program. Major shifts in the composition of public expenditure would also be needed, i.e., a move out of a war economy, requiring a movement out of military-related spending in favour of civilian programs.

In actuality, what we are dealing with is *the most drastic curtailment in public spending in American history*, leading to social havoc and the potential impoverishment of millions of people.

The Obama promise largely serves the interests of Wall Street, the defence contractors and the oil conglomerates. In turn, the Bush–Obama "bank bail-outs" are leading America into a spiralling public debt crisis. The economic and social dislocations are potentially devastating.

Obama's budget submitted to Congress on 26 February 2009 envisages outlays for the 2010 fiscal year (commencing 1 October 2009) of US\$3.94 trillion, an increase of 32 per cent. Total government revenues for the 2010 fiscal year, according to preliminary estimates by the Bureau of the Budget [Office of Management and Budget], are in the order of \$2.381 trillion. The predicted budget deficit (according to the President's speech) is in the order of \$1.75 trillion, almost 12 per cent of US gross domestic product.

## War and Wall Street

This is a "war budget". The austerity measures hit all major federal spending programs with the exception of defence and the Middle East war, the Wall Street bank bail-out and interest payments on a staggering public debt. It diverts tax revenues into financing the war. It legitimises the fraudulent transfers of tax dollars to the financial elites under the "bank bail-outs".

The pattern of deficit spending is not expansionary. We are not dealing with a Keynesian-style deficit, which stimulates investment and consumer demand, leading to an expansion of production and employment.

The "bank bail-outs", involving several initiatives financed by tax dollars, constitute a component of government expenditure. Both the Bush and Obama bank bail-outs are hand-outs to major financial institutions. They do not constitute a positive spending injection into the real economy. Quite the opposite. The bail-outs contribute to financing the restructuring of the banking system, leading to a massive concentration of wealth and centralisation of banking power.

A large part of the bail-out money granted by the US government will be transferred electronically to various affiliated accounts, including the hedge funds. The largest banks in the US will also use this windfall cash to buy out their weaker competitors, thereby consolidating their position. The tendency, therefore, is towards a new wave of corporate buy-outs, mergers and acquisitions in the financial services industry.

In turn, the financial elites will use these large amounts of liquid assets (paper wealth), together with the hundreds of billions acquired through speculative trade, to buy out real-economy corporations (airlines, the automobile industry, telecoms, media, etc.) whose quoted value on the stock markets has tumbled.

In essence, a budget deficit—combined with massive cuts in social programs—is required to fund the hand-outs to the banks as well as to finance defence spending and the military surge in the Middle East war. Obama's budget envisages:

1. Defence spending of \$534 billion for 2010, a supplemental \$130 billion appropriation for fiscal 2010 for the wars in Afghanistan and Iraq, and a supplemental \$75.5 billion emergency war funding for the rest of the 2009 fiscal year. Defence spending and the Middle East war, with various supplemental budgets, is officially in the order of \$739.5 billion. Some estimates place aggregate defence and military-related spending at \$1 trillion+.

2. A bank bail-out in the order of \$750 billion, which is added onto the \$700 billion bail-out money already allocated by the outgoing Bush administration under the Troubled Assets Relief Program (TARP). The total of both programs is a whopping \$1.45 trillion, to be financed by the US Treasury. It should be understood that the actual amount of cash financial "aid" to the banks is significantly larger than \$1.45 trillion.

3. Net interest on the outstanding public debt is estimated by the Bureau of the Budget at \$164 billion in 2010.

The order of magnitude of these allocations is staggering. Under a "balanced budget" criterion—

which has been a priority of government economic policy since the Reagan era—almost all the revenues of the federal government, amounting to \$2.381 trillion, would be used to finance the bank bail-out (\$1.45 trillion), the war (\$739 billion) and interest payments on the public debt (\$164 billion). In other words, no money would be left over for other categories of public expenditure...

### Fiscal Crisis

A major crisis of the federal fiscal structure is occurring. The multibillion-dollar allocations to the war budget and to the Wall Street bank bail-out program backlash on all other categories of public expenditure.

The Bush administration's \$700 billion bail-out under the TARP was approved by Congress in October 2008. TARP is but the tip of the iceberg. A panoply of bail-out allocations in addition to the \$700 billion

were decided upon prior to Obama's assuming office. In November, the federal government's bank rescue program was estimated at an astonishing \$8.5 trillion—an amount equivalent to more than 60 per cent of the US public debt, estimated at \$14 trillion (2007).

Meanwhile, under the Obama budget proposal, \$634 billion is allocated to a reserve fund to finance universal health care. At first sight, it appears to be a large amount.

But it is to be spent over a 10-year period, i.e., a modest annual commitment of \$63.4 billion.

Public spending will be slashed with a view to curtailing a spiralling budget deficit. Health and education programs will not only remain heavily underfunded, they will be slashed, revamped and privatised. The likely outcome is the outright privatisation of public services and the sale of State assets including public infrastructure, urban services, highways, national parks, etc. Fiscal collapse leads to the privatisation of the State.

The fiscal crisis is further exacerbated by the compression of tax revenues resulting from the decline of the real economy. Unemployed workers do not pay taxes; nor do bankrupt firms. The process is cumulative. The solution to the fiscal crisis becomes the cause of further collapse.

### Structure of the Public Debt

This large-scale appropriation of liquid money assets under the bank bail-outs by a handful of financial institutions serves to increase the public debt overnight.

When the US Treasury allocates \$700 billion to the Troubled Assets Relief Program, this amount

**Both the Bush and Obama bank bail-outs are hand-outs to major financial institutions.**

constitutes a budgetary outlay which inevitably must be financed from within the structure of government revenues and expenditures.

Unless all other categories of public expenditure including health, education and social services are slashed, the various outlays under the bank bail-out will require running a massive budget deficit which in turn will increase the US public debt.

America is the most indebted country on Earth. The US (federal government) public debt is currently in the order of \$14 trillion. This does not include mounting public debts at the state and municipal levels.

This US dollar denominated federal debt is composed of outstanding Treasury bills and government bonds. The public debt, also called "the national debt", is the amount of money owed by the federal government to holders of US debt instruments.

US debt instruments are held by American residents as part of their savings portfolios, by companies and financial institutions, by US government agencies, by foreign governments and individuals in foreign countries, but do not include inter-governmental debt obligations or debt held in the Social Security Trust Fund.

Types of securities held by the public include, but are not limited to, Treasury bills, notes, bonds, TIPS [Treasury inflation-protected securities], United States savings bonds, and State and Local Government Series [SLGS] securities.

The proposed solution becomes the cause of the crisis. The \$700 billion bail-out under the TARP, combined with the proposed Obama \$750 billion aid to the financial services industry, is but the tip of the iceberg. A panoply of bail-out allocations, in addition to the \$700 billion, has been decided upon.

### **The Bush "Bank Bail-out"**

The government's bank rescue program under the Bush administration was estimated at a staggering \$8.5 trillion, an amount equivalent to 60 per cent of the total gross federal debt of \$14.078 trillion (2010). This amount does not include the "aid" to financial institutions proposed by the Obama administration, including an additional \$750 billion in Obama's February 2009 budget proposal. The size of these allocations of liquid assets endangers the very structures of the fiscal and monetary system.

The total of Bush administration bank bail-outs (\$8.5 trillion) can be broken down into funds granted by the Federal Reserve, the Treasury, the Federal Deposit Insurance Corporation and the Federal Housing Authority.

The hand-outs to the financial institutions financed out of Treasury are government expenditures, to be met either through tax revenues or the emission of public debt instruments.

The disbursements under TARP are categorised by the Bureau of the Budget as part of "a mandatory program" under an Act of US Congress. The Treasury's liability, which includes the controversial TARP, was estimated in November 2008 at \$1.1 trillion...

### **Spiralling Public Debt**

Is the Treasury in a position to finance this mounting budget deficit, officially tagged at \$1.75 billion, through the emission of Treasury bills and government bonds?

The *largest budget deficit in US history* coupled with the lowest interest rates in US history: with the Fed's "near zero" per cent discount rate, the markets for US dollar denominated government bonds and Treasury bills are in a straitjacket. Moreover, the essential functions of savings (which are central to the functioning of a national economy) are in crisis.

Who wants to invest in US government debt? What is the demand for Treasury bills at exceedingly low interest rates?

The market for US dollar denominated debt instruments is potentially at a standstill, which means that the Treasury lacks the ability to finance its mammoth budget deficit through public debt operations,

leading the entire budgetary process into a quandary.

The question is whether China and Japan will continue to purchase dollar denominated debt instruments. Washington is running a public relations campaign to lure Asian investors into buying T-bills and US government bonds.

With the markets for US dollar denominated debt in crisis both domestically and internationally, further pressure will be exerted on the Treasury to slash civilian public expenditure to the bone, exact user-fees for public services and sell off public assets including State infrastructure and institutions. In all likelihood, this crisis is leading us to the privatisation of the State, where activities hitherto under government jurisdiction

**In all likelihood, this crisis is leading us to the privatisation of the State, where activities hitherto under government jurisdiction will be transferred into private hands.**

will be transferred into private hands.

Who will be buying State assets at rock-bottom prices? The financial elites, which are also the recipients of the bank bail-out.

### Consolidation of the Banks

A massive amount of liquidity has been injected into the financial system from the bail-outs but also from pension funds, individual savings, etc.

The stated objective of the bank bail-out programs is to alleviate the banks' burden of bad debts and non-performing loans. In actuality, what is happening is that these massive amounts of money are being used by a handful of institutions to consolidate their position in global banking.

The exposure of the banks, largely the result of the derivatives trade, is estimated in the tens of trillions of dollars, to the extent that the amounts and guarantees granted by the Treasury and the Fed will not resolve the crisis. Nor are they intended to resolve the crisis.

The mainstream media suggest that the banks are being nationalised as a result of TARP. In fact, it is exactly the opposite. *The State is being taken over by the banks; the State is being privatised.* The establishment of a worldwide unipolar financial system is part of the broader project of the Wall Street financial elites to establish the contours of a world government.

In a bitter irony, the recipients of the bail-out under TARP and Obama's proposed \$750 billion aid to financial institutions are the creditors of the federal government. The Wall Street banks are the brokers and underwriters of the US public debt; although they hold only a portion of the debt, they transact and trade in US dollar denominated public debt instruments worldwide.

They act as creditors of the US State. They evaluate the creditworthiness of the US government. They rank the public debt through Moody's and Standard & Poor's. They control the US Treasury, the Federal Reserve Board and the US Congress. They oversee and dictate fiscal and monetary policy, ensuring that the State acts in their interest.

Since the Reagan era, Wall Street has dominated most areas of economic and social policy. It sets the budgetary agenda, ensuring the curtailment of social expenditures. Wall Street preaches balanced budgets but the practice has been lobbying for the elimination of corporate taxes, the granting of hand-outs to corporations, tax write-offs in mergers and acquisitions, etc., all of which lead to a spiralling public debt.

### A Circular and Contradictory Relationship

The Federal Reserve System is a privately owned central bank. While the Federal Reserve Board is a government body, the process of money creation is controlled by the 12 Federal Reserve Banks, which are *privately owned*.

The shareholders of the Federal Reserve Banks, with the New York Federal Reserve Bank playing the dominant role, are among America's most powerful financial institutions.

While the Federal Reserve can create money "out of thin air", the multibillion-dollar outlays of the Treasury (including the TARP program) will require the emission of public debt in the form of Treasury bills and government bonds.

US financial institutions oversee the US public debt. They are involved in the sale of Treasury bills and government bonds on financial markets in the US and around the world, but they also hold part of the public debt.

In this regard, they are the creditors of the US government. Part of this increased public debt required to rescue the banks will be financed or brokered by the same financial institutions which are the object of the bank rescue plan.

We are dealing with a pernicious circular relationship. When the banks pressured the Treasury to assist them in the form of a major bank rescue operation, it was understood

from the outset that the banks would in turn assist the Treasury in financing the hand-outs of which they are the recipients.

To finance the bank bail-out, the Treasury needs to run a massive budget deficit, which in turn requires a staggering increase of the US public debt.

Public opinion has been misled. The US government is in a sense financing its own indebtedness: the money granted to the banks is in part financed by borrowing from the banks.

The banks lend money to the government, and with this money the Treasury finances the bail-out. In turn, the banks impose conditionalities on the management of the US public debt. They dictate how the money should be spent. They impose fiscal responsibility.

They dictate massive cuts in social expenditures which result in the collapse and/or privatisation of public services. They impose the privatisation of urban infrastructure, roads, sewerage and water systems, and public recreational areas. Everything is up for privatisation.

The recipient banks are the beneficiaries as well as the creditors.

**The establishment of a worldwide unipolar financial system is part of the broader project of the Wall Street financial elites to establish... a world government.**

As creditors, they will oblige the government to slash expenditures and run up the public debt through the issuing of Treasury bills and government bonds.

This public debt crisis is all the more serious because the US federal government does not control monetary policy.

All public debt operations go through the Federal Reserve, which is in charge of monetary policy, acting on behalf of private financial interests. The government as such has no authority over money creation. This means that public debt operations essentially serve the interests of the banks.

### Continuity from Bush to Obama

The Obama stimulus program constitutes a continuation of the Bush administration's bank bail-out packages.

The proposed policy solution to the crisis becomes the cause, ultimately resulting in further real economy bankruptcies and a corresponding collapse of the standard of living of Americans.

Both the Bush and Obama bank bail-outs are intended to come to the rescue of troubled financial institutions to ensure the payment of "inter-bank" debt operations.

In practice, large amounts of money transit through the banking system, from the banks to the hedge funds, to offshore banking havens and back to the banks.

The government and the media tend to focus on the ambiguous notion of "inter-bank debts". The identity of the creditors is rarely mentioned.

Multibillion-dollar transfers are conducted electronically from one financial entity to another. Where is the money going? Who is collecting these multibillion-dollar debts, which are in large part the consequence of financial manipulation and the derivatives trade?

There are indications that the financial institutions are transferring billions of dollars into their affiliated hedge funds. From these hedge funds they can then channel money capital towards the acquisition of real assets.

Through what circuitous financial mechanisms were these debts created? Where is the bail-out money going?

Who is cashing in on the multibillion-dollar government bail-out money?

This process is contributing to an unprecedented concentration of private wealth.

### Concluding Remarks

Financial manipulation is an integral part of the New World Order. It constitutes a powerful means to accumulate wealth. Under the present political arrangement, those responsible for monetary policy are quite deliberately serving the interests of the financiers to the detriment of working people, leading to economic dislocation, unemployment and mass poverty.

This article has focused on how financial manipulation has served to shatter the structure of US public expenditure. More generally, this restructuring of global financial markets and institutions (alongside the pillage of national economies) has enabled the accumulation of vast amounts of private wealth, a large portion of which has been amassed as a result of strictly speculative transactions.

This critical drain of billions of dollars of household savings and state tax revenues paralyses the functions of government spending and spurs the accumulation of a public debt which can no longer be financed through the emission of US dollar denominated debt.

What we are dealing with is the fraudulent transfer and confiscation of lifelong savings and pension funds, and the fraudulent appropriation of tax revenues to finance the bank bail-outs, etc. To understand what has happened, follow the money trail of electronic transfers with a view to establishing where the money has gone. What is at stake is the outright criminalisation of the financial system—"financial theft" on an unprecedented scale.

The monetary system, which is integrated into the State budgetary process, has been destabilised. The fundamental relationship between the monetary system and the real economy is in

**Under the present political arrangement, those responsible for monetary policy are quite deliberately serving the interests of the financiers to the detriment of working people...**

crisis.

The creation of money "out of thin air" threatens the value of the US dollar as an international currency. Similarly, the financing of a mammoth US budget deficit through dollar denominated debt instruments is impaired as a result of exceedingly low interest rates. Moreover, the process of household savings is undermined with interest rates close to zero.

What we have dealt with in this article is one central aspect of an evolving process of global financial collapse.

The international payments system is in crisis.

**Continued on page 79**



# THE PROSTATE CANCER LINK TO BACTERIA

*Recent research studies suggest that prostate cancer, as with other forms of cancer, is caused by a rampant bacterial infection. The findings, if taken up by the medical profession, could well overturn current treatment methods that rely on radiation.*

by Alan Cantwell, MD © 2009

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## Introduction

Are unrecognised infectious bacteria involved in prostate cancer? Can bacteria cause cancer? Each year, 680,000 men worldwide are diagnosed with prostate cancer. The disease is the most common form of cancer in American men, with 230,000 new cases yearly and 30,000 deaths annually.

There is an 80 per cent chance that by the age of 80 a man will have prostate cancer. In many cases the cancer is slow-growing, and elderly men with prostate cancer often die from some other cause.

The treatment is usually surgical removal of the entire prostate gland or a series of radiation treatments to the prostate. Both procedures often result in urinary incontinence and impotence.

Since the late 1980s, the PSA (prostate-specific antigen) blood test has been used widely as a screening test to detect a protein that can be associated with prostate cancer. A rising PSA level of 4.0 nanograms or more signifies possible cancer. However, a study in 2004 determined that 15 per cent of men with PSA levels less than 4.0 had cancer when their prostates were assessed with biopsies. This new finding is causing turmoil and controversy in the diagnosis and treatment of prostate cancer.

## What causes prostate cancer?

The cause of prostate cancer is considered unknown. Acute and chronic inflammation of the prostate (prostatitis) is a common and painful condition affecting younger and middle-aged men. Chronic prostatitis is also a common but poorly understood condition, and there is debate as to whether it is a risk factor for cancer. Antibiotics are used in the majority of prostatitis cases, and a variety of bacterial species (staphylococci, streptococci, corynebacteria and others) have been cultured from the fluid of prostatitis. Benign prostatic enlargement, a common condition of older men, is not a precursor to cancer.

Researchers have recently cautioned men about taking excessive amounts of zinc supplements, claiming that 100 milligrams of zinc daily could more than double the risk of prostate cancer. Zinc is normally found in the prostate, and some nutritionists have previously recommended zinc supplementation as beneficial for prostate health. DHEA, another popular supplement, is also considered suspect because of the fear that increased levels of testosterone seen with the daily intake of DHEA pills could stimulate the growth of a tiny prostate tumour that would otherwise have remained dormant.

## Prostate cancer and infection with "acid-fast" bacteria

The idea that bacteria could cause cancer has been taboo in medical science for a century. However, over the years a number of viruses (the

cytomegalovirus, human papilloma virus, various herpes viruses and the hepatitis B virus) have been suspected of causing or complicating prostate cancer. Despite the scientific prejudice against cancer-causing bacteria, I have reported on bacteria in various forms of cancer.

In December 2003, my partner was diagnosed with prostate cancer. At the time, he was a 68-year-old Italian-American in good health. His PSA was abnormally elevated to 9.0, and a digital rectal examination by the urologist revealed a hardened area on the right side of the gland. Biopsies of the prostate gland were positive for cancer. A prostatectomy, along with removal of the surrounding lymph nodes, was performed in March 2004. Microscopic examination of this tissue showed the cancer entirely confined to the prostate, with no cancerous nodes.

In view of my previous cancer microbe studies, I requested that the pathologist supply me with a Fite-stained tissue section of his prostate cancer. The Fite stain is an "acid-fast" stain traditionally used for the detection of acid-fast tuberculosis-type bacteria. It is the essential staining technique required for the detection of cancer-associated bacteria. One of the

reasons physicians do not identify bacteria in cancer is that the haematoxylin-eosin tissue stain, routinely employed by pathologists, does not adequately stain cancer microbes.

Having retired from dermatologic practice a decade earlier, I had never had the opportunity to study prostate cancer and I was curious to see if bacteria could be identified in this disease. Because bacteria

are small, it is necessary to study the tissue at the highest possible magnification (1,000 times) of the light microscope, using oil immersion.

A thorough search of the cancerous tissue revealed easily detectable bacteria, particularly in the connective tissue areas adjacent to the main tumour mass. The microbes were observed in tightly packed clusters of round "coccoid" forms seemingly

embedded in a matrix (figure 1). Sometimes a cell nucleus could be clearly observed with the coccoid forms surrounding it (figure 2). Extracellular forms—forms that escape from the tight bacterial clusters and scatter in the tissue—were also visible. The size of these round coccoid forms varied. Most were the size of ordinary staphylococci. Some were so tiny they were barely visible.

Cancer microbes have an affinity for collagen—the connective tissue "glue" protein that helps hold together the cells and tissues of the body. Could bacteria in prostate collagen cause the biochemical elevation of the protein antigen detected by the PSA test? By definition, antigens are often defined as foreign substances produced by bacteria and viruses. In 2004, my research showing microphotographs of prostate cancer bacteria was posted on the website of the *Journal of Independent Medical Research* ([www.joimr.org](http://www.joimr.org)).

### Confirmation of prostate cancer bacteria

To my knowledge, no tissue investigations into bacteria as a cause of prostate cancer were ever performed during the entire 20th century. However, over the past few years, several investigators have confirmed the presence of bacteria (particularly a species called *Propionibacterium acnes*) in prostate

## Could bacteria in prostate collagen cause the biochemical elevation of the protein antigen detected by the PSA test?

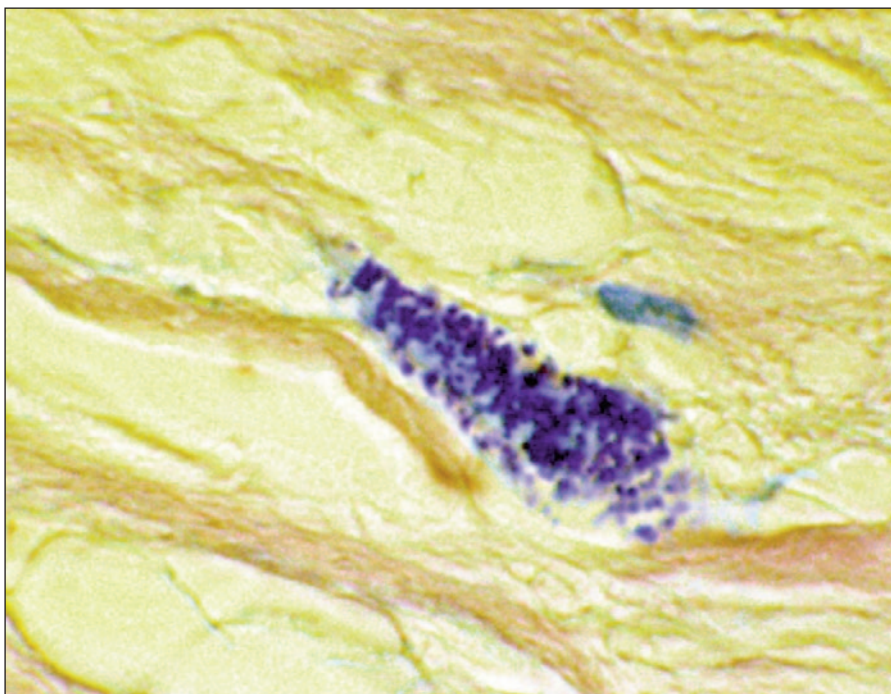


Figure 1. Prostate cancer. Tightly packed cluster of blue- and pink-stained coccoid forms in the connective tissue stroma. Fite (acid-fast) stain, magnification x1000 (highest magnification), in oil.

tissue and in culture. All of them have suggested (despite the taboo against "cancer microbes") that bacteria might be implicated in prostate cancer.

In 2005, an Australian team headed by Dr Ronnie Cohen was the first to culture bacteria from prostate cancer and to suggest that inflammation caused by these bacteria might lead to cancerous changes. A later study, co-authored by Cohen, examined antibody levels to *P. acnes* bacteria. The researchers concluded that high antibody levels might be correlated with prostate disease, cancer and even benign enlargement of the prostate gland, a common finding in older men.

In 2007, the Australian team joined with Swedish researchers, headed by Dr Oleg Alexeyev, to study prostate bacteria further. Using special microscopic techniques, they demonstrated intracellular forms of *P. acnes* and "biofilm-like aggregates" of bacteria in tissue sections of prostate cancer, similar in appearance to those bacteria I previously reported. They concluded that *P. acnes* bacteria could establish a persistent infection in the prostate gland, which could contribute to enlargement and prostate cancer. This full paper is available online for free (see <http://tinyurl.com/bz653v>).

### Cancer and the cancer microbe

The most vocal proponent of bacteria as a cause of cancer was the late Virginia Livingston, MD (1906–1984). In 1950, Virginia Wuerthele-Caspe Livingston and her colleagues wrote a paper entitled "Cultural Properties and Pathogenicity of Certain Microorganisms Obtained from Various Proliferative and Neoplastic Diseases", which was published in *The American Journal of the Medical Sciences*. The characteristics of the cancer microbe in blood, tissue and culture were described in detail. The cancer bacteria were filterable through a laboratory pore designed to hold back bacteria. This indicated that the bacteria had smaller elements which were "virus-sized". In laboratory culture, these viral-like forms were able to revert to the size of conventional bacteria.

The microbe was characterised as pleomorphic; that is, having more than one form and size. The

smallest forms of the organism were virus-like, and the larger bacterial forms were comparable to what bacteriologists call "mycoplasma", "L-forms" and "cell-wall-deficient forms". Livingston believed the organism was closely related to the "acid-fast" mycobacteria. Tuberculosis (TB) and leprosy are two well-known diseases caused by species of mycobacteria. She was the first to show that the "acid-

fast" staining method (used to detect TB bacteria) was essential to colour and identify the cancer microbe in tissue and in culture.

In a series of papers published in the 1950s, 1960s and 1970s, Livingston and microbiologist Eleanor Alexander-Jackson along with cell cytologist Irene Diller and chemist Florence Seibert (famous for developing the tuberculosis skin test) all

continued important cancer microbe research showing the characteristic "connective tissue parasite" of cancer—the germ that could be found inside the cell (intracellular) and outside the cell (extracellular) in all cancers. Livingston always claimed the microbe had an affinity for collagenous (connective) tissue. The photographs of bacteria presented here in prostate cancer confirm that.

Livingston believed the cancer microbe was present in the blood, tissue, excreta and body fluids of all human beings. When the immune system was

**They concluded that *P. acnes* bacteria could establish a persistent infection in the prostate gland, which could contribute to enlargement and prostate cancer.**

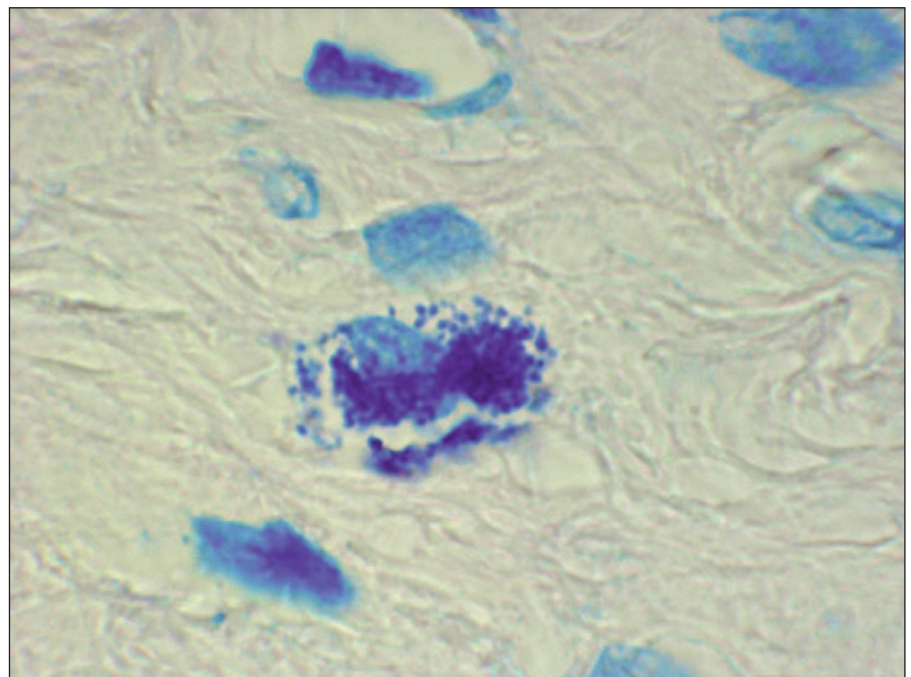


Figure 2. Prostate cancer. Loosely packed intracellular blue-stained coccoid forms. Fite stain, magnification x1000, in oil.

functioning normally, these microbes did not cause disease. But when tissue was damaged or weakened, these microbes became aggressive and pathogenic, producing inflammation and cancerous changes. According to Livingston, the cancer microbe is essential to our life biology. However, when conditions are adverse, it emerges and reverts to its pathogenic form.

When Livingston died in 1990 at the age of 83, she was widely regarded as a quack, particularly by the American Cancer Society which claimed her cancer microbe did not exist. A bulletin published by the National Cancer Institute on 30 November 1990 stated:

"There is no scientific evidence to confirm Livingston's theories of cancer causation."

Details of a century of cancer microbe research can be found in my two books *The Cancer Microbe* (1990) and *Four Women Against Cancer* (2005); in *Cell Wall Deficient Bacteria* (1993) by Lida Mattman, PhD; in *Can Bacteria Cause Cancer?* (1997) by David Hess; and by Googling "cancer bacteria", "cancer microbe" or "cancer-associated bacteria".

References and abstracts on my cancer microbe medical publications can be found at the National Library of Medicine's PubMed website (type in key words "Cantwell AR" and "cancer bacteria"). In addition, my video lecture on the cancer microbe can be viewed online on youtube.com.

### **Why does the medical establishment ignore cancer microbe research?**

Despite a century of credible cancer microbe research by various scientists, the medical profession does not accept bacteria as a cause of cancer.

One exception is the 1982 discovery of certain bacteria (*Helicobacter pylori*) in the stomach that are now accepted as the cause of most stomach ulcers. Sometimes chronic ulcers can progress to gastric cancer and gastric lymphoma. This remarkable discovery completely transformed our understanding of the microbiology and pathology of the human stomach. *H. pylori* can be found in normal as well as diseased stomachs. Prior to this discovery, physicians did not believe that bacteria could thrive in the acid environment of the stomach.

Although physicians easily accept the idea of invisible viruses in cancer, they seem unable to

conceive of a microscopically visible bacterial agent in cancer. Undoubtedly, the acceptance of cancer as a bacterial infection would put cancer research and treatment into a tailspin because the alleged benefits of radiation and chemotherapy would have to be re-evaluated as a rational treatment for bacterial infection. Because current antibiotics cannot rid the body of cancer-causing bacteria, this would necessitate the development of new cancer or immunologic therapies designed to combat these infectious agents.

Cancer microbe research could be perceived as a threat to lucrative prostate cancer treatment. For example, IMRT (intensity-modulated radiation therapy) has become standard procedure in the non-surgical treatment of prostate cancer. The cost is around US\$42,000. If prostate cancer bacteria were to be accepted as a cause of this cancer, this radiation treatment would need to be re-evaluated, particularly when radiation is not considered an ideal treatment for "infection" with bacteria.

As a retired physician and cancer microbe researcher, I will continue to bug (pun intended) my colleagues to consider bacteria as a plausible cause of cancer. "Research" means to search again. After many decades of failure to uncover a cause for prostate cancer, surely it is time for a reappraisal of bacteria that can be easily identified microscopically in this dreaded disease of older men, using the appropriate methods. ∞

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### **About the Author:**

Dr Alan Cantwell is a retired dermatologist. His books *The Cancer Microbe* and *Four Women Against Cancer* are available from Aries Rising Press (<http://www.ariesrisingpress.com>), Amazon.com and Book Clearing House (tel 1800 431 1579) in the USA. His article "Do Tuberculosis-Type Bacteria Cause AIDS?" was published in NEXUS vol. 15, no. 5. Dr Cantwell can be contacted by email at [alancantwell@sbcglobal.net](mailto:alancantwell@sbcglobal.net).

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**Continued on page 80**





# THE *CORDYCEPS SINENSIS* MEDICINAL MUSHROOM

*Modern scientific studies have confirmed and expanded on the findings of traditional Chinese medicine, that the Cordyceps fungus has a multitude of health benefits and can treat a wide range of illnesses.*

**by Richard Alan Miller**  
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## A True Superfood

Since the dawn of shamanic healing over 50,000 years ago, mankind has searched for healing ingredients to concoct the ultimate panacea—a cure-all. One of the most sought-after ingredients was *Cordyceps*, a substance so revered that it was exclusively reserved for use by royalty in ancient China. Chemical analyses have shown that its allegedly remarkable properties are much more than superstition or mere folklore.

*Cordyceps sinensis* is a new generation of mushroom being used by the pharmaceutical industry and also as a dietary supplement amongst more informed consumers seeking alternatives to the more conventional treatments for cancer and AIDS as well as a wide range of other health and immune system issues.

*Cordyceps* is considered a "food" by the US Food and Drug Administration (FDA) and is classified as "generally recognized as safe" (GRAS). A growing number of researchers now consider it to be a "superfood" that can be included in almost every diet. So why are these rediscovered mushrooms now regarded as superfoods?

These medicinal mushrooms are extremely high in both beta-glucans, which have been shown to be useful in cancer therapies, and polysaccharides. Polysaccharides are long sugar chains with many oxygen sections within them. As these sugars are broken down by the body, the oxygen molecules are released and absorbed on a cellular level. We know that all forms of cancer cannot exist in an oxygen-rich environment and that without proper oxygen levels the body is left to fall into degenerative states that encourage cancer, heart disease, immune disorders and diabetes, and also allow many viral diseases such as hepatitis C, Lyme's disease and many others to flourish.

The key is how to deliver oxygen to the body on a cellular level. This host of pharmaceutical mushrooms includes such well-known products as Reishi, Maitake and *Agaricus* which are rich in beta-glucans, known sources for oxygen. This list continues to grow, with clinical studies now including more than 70 different mushroom species. The most interesting one to emerge is *Cordyceps sinensis*, which grows at about 16,000 feet (4,877 metres) in Tibet.

*Cordyceps sinensis* increases ATP (adenosine triphosphate) levels in the body by almost 28 per cent. ATP is the body's energy supply source—the body's battery, so to speak—and is required for all enzyme processes. It is also now believed that ATP is where cold-fusion ("Brown's gas") processes occur in the body on a molecular level. Although the concept of molecular-level cold fusion is not the subject of this article, I believe this is the root of biological energy exchanges, which will be explored in future writings. The impact on the energy state alone would make this mushroom a true superfood, but there is much more to be shared.

What makes *Cordyceps* important for use with cancer is that it contains beta-glucans and polysaccharides. As the sugars break down, the numerous oxygen molecules are released on a cellular level, the result being that cancerous materials present are immediately destroyed. Cordycepin, one of the target compounds (nucleosides), inhibits the DNA repair mechanism and is probably responsible for its anti-viral (HIV) effects.

### Full-spectrum Chemistries

There is a lot of confusion today in the field of pharmaceutical mushrooms as to what form of mushroom product is the best for use. There are various components of the mushroom which have been used as separated compounds. Is it the fruit-body, the mycelium or an extract standardised from some particular compound which is responsible for the mushroom's properties? This question is not as straightforward as it seems.

**Fruit body.** This is the mushroom that you see above the ground. It is the spore-producing portion involved with reproduction. Basically, the fruit body is equivalent to the flower of a plant. Fruit bodies *only* form in response to some stress from the environment.

**Mycelium.** This is the growth form of the organism under the ground where all of the life processes occur: growth, feeding, competing for survival and some forms of reproduction.

**Broth.** In cultivated mushroom products, the mycelium can be grown either by fermentation, in a tank full of liquid "broth", or on a solid substrate of some material that is found in the natural growth condition.

For the production of many mushroom-derived drugs and health supplements, the compounds are extracted not from the mycelium but from the broth in which the mycelium is grown.

As an example, there are a number of pharmaceutical drugs produced from the Shiitake mushroom: lentinan from the fruit body; LEM from the mycelium; and KS-2 from the residual culture broth, an extracellular compound.

To extract lentinan from Shiitake mushrooms is a pretty straightforward chemical process. But what about another compound present in Shiitake, called eritadenine?

This compound is useful in the treatment of high cholesterol levels, while lentinan is used for the treatment of cancer.

If you extract Shiitake compounds using hot water and then use alcohol to precipitate out the polysaccharide fraction, the lentinan is concentrated and the resultant product is effective for cancer treatment or immune system stimulation. However, with this process you lose the eritadenine, and the extract has no effect on blood cholesterol.

Consequently, even though a raw Shiitake product shows great effectiveness in treating high cholesterol, the "standardised extract" available today is useless for this purpose.

So, what is the more valuable product: the raw, full-spectrum Shiitake or the standardised extract? The answer is neither, or both. It really depends on what you are hoping to achieve with the supplement.

For general health-supplement usage, the best product is the one that has the greatest effectiveness over a broad range of conditions. In this example, it makes much more sense to use a full spectrum of products—the fruit body, mycelium and broth.

German precision created the concept of standardised extracts. But now we are beginning to realise that mixed chemistries play a more important role in the effectiveness of how unrelated chemistries might produce specific results. It is a complex form that is still not completely understood but produces clinical results not

available with standardised extracts.

Most pharmaceutical mushrooms are utilised as extracts for their most potent and most successful products and formulas. But these are very specific and targeted extracts, made for the particular purpose of concentrating specific compounds. Additionally, it is because these chemical compounds are produced as extracts that the pharmaceutical medicine industry is allowed to hold patent rights to them. Natural foods cannot be patented.

There are two general categories of bio-active compounds found in pharmaceutical mushrooms:

1. The polysaccharides, which comprise most of the medicinal compounds, are soluble in hot water and not in alcohol. The immuno-stimulant type of action so well known in mushrooms is from this class of compounds. If you are looking for immuno-

**...it is because these chemical compounds are produced as extracts that the pharmaceutical medicine industry is allowed to hold patent rights to them.**

modulation action, then don't use alcohol extracts as they will not be effective.

2. The nucleosides, another class of compounds, are soluble in non-polar solvents like alcohol and hexane. These compounds are usually smaller in molecular size and are more specific in their bio-activity compared with polysaccharides. Nucleosides, deoxynucleosides and most of our antibiotics and antimicrobials fall into this category.

### Health Benefits and Clinical Studies

The medicinal properties of *Cordyceps* are remarkable.

In traditional Chinese medicine (TCM), the main use of *Cordyceps* has been in the treatment of asthma and other bronchial conditions. Modern research now confirms the efficacy of these ancient uses.

Much of what is known in the western world about *Cordyceps sinensis* is due to the work of Dr Georges Halpern, a physician and professor emeritus with the University of Hong Kong and the author of several books about *Cordyceps*.

One of the highlights of modern research has been the discovery of new antibiotics in this mushroom. One of these, cordycepin, is very effective against all sorts of bacteria that have developed, or are developing, resistance to other, more common antibiotics (such as penicillin, a fungus product!).

*Cordyceps* is especially effective against tuberculosis, leprosy and human leukaemia, as shown in many trials in China, Japan and elsewhere.

Some additional health benefits of *Cordyceps* are outlined below.

#### • Enhances physical stamina

The best-known medicinal action of *Cordyceps* is in the increase of physical stamina. In 1993, the Chinese National Games brought this mushroom to the attention of the world's sporting authorities. A group of nine women athletes who had been taking *Cordyceps* shattered nine world records.

There have been many reports of amazing improvements in performance in various sports due to the intake of *Cordyceps*.

There has even been talk of banning *Cordyceps* from sporting events because it may give an unfair advantage to those who can get it!

Most professional athletes who use it now are unwilling to admit that they do, due to the possibility that some sporting authority will outlaw its use. In the other direction, the Canadian Olympic Committee has taken an official stand on *Cordyceps*, ruling that it is allowed in professional competition.

Clinical research has shown that *Cordyceps* use increased cellular bio-energy—ATP (adenosine triphosphate)—by as much as 55 per cent. Increased synthesis of ATP and faster energy recovery have been reported. It would seem that *Cordyceps* improves the internal balance mechanism, thus making the utilisation of oxygen more efficient. These properties may account for the overall physical enhancement, the extra endurance and the anti-fatigue effects that are seen in humans using *Cordyceps*.

#### • Improves respiratory function

Several scientific studies have demonstrated the benefits of *Cordyceps sinensis* in alleviating the symptoms of various respiratory illnesses including chronic bronchitis and asthma.

#### • Increases oxygen absorption

In a double-blind, placebo-controlled study with 30 elderly volunteers, *Cordyceps* was shown to improve significantly the maximum amount of oxygen these people were able to assimilate.

Chinese studies of cardiovascular illnesses have shown that ethanol extracts of *Cordyceps mycelia* and *Cordyceps* fermentation solutions caused

a change in the biological action that allowed for an increase in cellular oxygen absorption by up to 40 per cent. In addition, studies have shown the effect of these compounds in relieving chronic obstructive pulmonary disease.

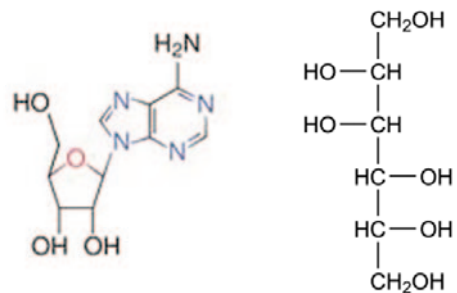
#### • Improves heart function

Numerous studies have demonstrated the benefits of *Cordyceps sinensis* in treating heart rhythm disturbances such as cardiac arrhythmia and chronic heart failure.

#### • Helps maintain healthy cholesterol levels

Four studies have demonstrated that *Cordyceps sinensis* helped to lower total cholesterol by 10–21 per cent and triglycerides (neutral fats) by 9–26 per cent, and at the same time helped to increase HDL ("good") cholesterol by 27–30 per cent.

One of the highlights of modern research has been the discovery of new antibiotics in this mushroom.



Chemical structure of adenosine and cordycepic acid

- **Improves liver functions**

*Cordyceps sinensis* has been shown to improve liver functions as well as help with cirrhosis, sub-chronic and chronic hepatitis and related liver diseases which are more prevalent than most people think.

The liver is the living filter of the body, cleaning the blood and all other fluids of impurities. There is no way for you to survive, much less feel healthy, without a functioning liver.

Clinical trials with *Cordyceps* supplement involving 33 patients with hepatitis B and eight patients with cirrhosis of the liver showed a 71.9 per cent improvement on the thymol turbidity test and a 78.6 per cent improvement on the SGPT test. These are enzyme tests showing changes in liver functions.

- **Improves kidney disease**

A Chinese study has shown a 51 per cent improvement in chronic kidney disease after only one month of dietary supplementation with *Cordyceps*.

- **Reduces tumour size**

Several clinical studies with cancer patients have been conducted in China and Japan, using a therapeutic dose of 6.0 grams of *Cordyceps* per day.

In one study with 50 lung cancer patients who were administered *Cordyceps* in conjunction with chemotherapy, tumours reduced in size in 46 per cent

of patients. A study involving cancer patients with various types of tumours found that *Cordyceps sinensis* extract (6.0 grams/day for over two months) improved subjective symptoms in the majority of patients. White blood cell counts were maintained and tumour size was significantly reduced in about half of the patients.

Researchers in Japan reported that *Cordyceps* enhances the general reactivity of the immune system in individuals with cancer. To discover this, they subcutaneously injected mice with cancerous (lymphoma) cells and then orally administered *Cordyceps*. This led to a reduction of tumour size and prolonged life. *Cordyceps* also improved the antibody responses in these studies.

- **Enhances immunity and T-cell production**

*Cordyceps* has been found to enhance "natural killer" (NK) cell activity, thus increasing T-cell production which results in expanded muscle mass. Muscle power is improved with the building of young, healthy cells.

*Cordyceps* effectively recharges the protective army of NK cells. The body's ability to fight infections and tumours depends on the availability of NK cells. These are essential as the first line of defence for

maintenance of the body's protection mechanism, commonly known as the immune system.

Several scientific studies of *Cordyceps* have especially focused on NK cells and *Cordyceps*' effect on them as they relate to cancer formation. One *in vitro* study demonstrated that *Cordyceps* significantly enhances NK cell activity in normal individuals as well as leukaemia-stricken people.

In a Chinese study, published in the *Chinese Journal of Integrated Traditional and Western Medicine*, natural *Cordyceps* enhanced the NK cell activity of normal patients by 74 per cent and increased the NK activity of leukaemia patients by 400 per cent. Similar improvements of NK cell activities were found in large melanoma tumours.

- **Assists symptoms of ageing**

Clinical research in controlled studies has revealed that elderly patients suffering from fatigue and senility-

related symptoms reported relief in these areas after using *Cordyceps* for 30 days. Their fatigue was reduced by 92 per cent, their feeling of cold by 89 per cent and their dizziness by 83 per cent. Patients with respiratory/breathing problems felt physically stronger and some individuals were able to jog up to 600 feet (183 metres).

- **Protects against free-radical damage**

Several studies have shown that *Cordyceps sinensis* gave protection against the damage caused by free radicals and had powerful anti-oxidant properties.

- **Helps discomfort from tired legs**

Various studies have shown that *Cordyceps sinensis* improved the flow of blood in the body by relaxing the smooth muscles of the blood vessels and allowing them to expand, and also enhanced the functioning of the heart and lungs.

*Cordyceps* therefore prevents or reduces the contraction of blood vessels which interferes with blood flow in the legs—the main cause of tired legs.

- **Improves sexual function**

Three separate Chinese double-blind, placebo-controlled studies with over 200 men with "reduced libido and other sexual problems" showed remarkably similar results. On average, 64 per cent of the *Cordyceps*-users reported significant improvement at the conclusion of the experimental period compared with 24 per cent of the placebo group.

In another double-blind, placebo-controlled study conducted with 21 elderly women with similar complaints, 90 per cent reported improvements of their condition following the use of *Cordyceps*, compared with none in the control group.

Researchers in Japan reported that *Cordyceps* enhances the general reactivity of the immune system in individuals with cancer.

*Cordyceps* has been shown to improve libido and quality of life in men and women, fight infertility and increase sperm count and survival. Clinical studies involving 189 male and female patients with decreased libido and desire showed improvement of symptoms in 66 per cent of cases. A

double-blind study conducted by the Institute of Materia Medica in Beijing showed an 86 per cent improvement in female libido and desire. The most dramatic physical proof came from a fertility study involving 22 males which showed that, after eight weeks of taking a *Cordyceps* supplement, their sperm count increased by 33 per cent, their incidence of sperm malformations decreased by 29 per cent and their sperm survival rate increased by 79 per cent.

#### • Reverses HIV

In a study in 2004 in Ghana, 3,000 early-stage HIV patients were given a formula with *Cordyceps sinensis* as a primary ingredient. Beyond anyone's wildest dreams, at the end of six months all 3,000 patients showed "no presence in their blood of HIV". When an HIV-AIDS patient took the Immune-Assist drug for cancer, their clinical picture improved dramatically in regard to the HIV infection.

#### Immune Function, Anti-cancer Response and DNA Repair

It has long been understood that the beta-glucan compounds found in many species of mushroom significantly enhance immune function. This class of compounds is the most widely prescribed class of anticancer medications in the world. The pharmaceutical drugs lentinan, PSK and grifolan are examples of these compounds.

There is evidence of another mechanism at play in the *Cordyceps* anti-tumour response besides the well-known immune modulation triggered by the polysaccharide compounds. It is related to the structure of at least some of the altered nucleosides found in *Cordyceps*, exemplified by the cordycepin compound (3'-deoxyadenosine).

This is a molecule almost identical to normal adenosine, with the exception that it is lacking an oxygen atom on the ribose portion of the molecule at the 3' position.

The same lack of this 3' oxygen can be seen in other *Cordyceps* compounds such as dideoxyadenosine. The lack of oxygen at this particular position is thought to

be important in a very specific way. The structure of DNA depends on this oxygen to create the bond between adjacent nucleosides. This bond is between the 3' and the 5' positions on the ribose portions of the nucleosides, effectively forming the "ladder structure" that holds the DNA together.

In the replication of any cell, the first step is the separation of the DNA molecule down the middle, like unzipping, between the pairs of complementary nucleosides.

The next step is the insertion, one at a time, of new-complement nucleosides. These form hydrogen bonds between the complement pairs and phosphate-sugar bonds between the 3' and 5' positions at the outside edge of the molecule, which is the ribose portion.

The synthesis of the new DNA molecules proceeds with the sequential insertion of new-complement nucleosides one at a time into the newly forming DNA molecule until the original strand of DNA is replicated twice, each of these strands being an exact copy of the original and forming the genetic code for a new generation of cells. This synthesis continues to proceed with the insertion of each new nucleoside, unless a 3'-deoxyadenosine (cordycepin) molecule is pulled in.

When this happens, there is no oxygen present at that vital position to form the 3'-5' bond, and the replication of the new DNA molecule stops. Once the DNA synthesis stops, the cell cannot continue to divide and no new cell is formed. (In normal mammalian cells, this insertion of the de-oxygenated adenosine is of little importance,

as healthy cells have an inherent DNA repair mechanism.)

When this sort of error occurs, the altered nucleoside (the cordycepin) is removed from the string of nucleosides and a new segment of adenosine is inserted. However, by their very nature, cancer cells have lost this DNA repair mechanism. (If they could correct their DNA errors, they would not be cancer cells.)

Most bacteria and all viruses (including the human immunodeficiency virus, HIV) lack this DNA repair mechanism.

When we look at the rate at which cancer cells replicate, it is clear how this mechanism could exert a

**There is evidence of another mechanism at play in the *Cordyceps* anti-tumour response besides the well-known immune modulation triggered by the polysaccharide compounds.**

significant anti-tumour response. For example, a normal healthy breast tissue cell has an average life span of about 10 days, after which it reproduces and a new cell is formed. But breast cancer cells multiply much more quickly than healthy cells, reproducing on average every 20 minutes. This means that breast cancer cells replicate about 750 times more quickly than the surrounding healthy tissue. If the cordycepin were equally toxic to both types of cells, it would be killing off the cancer cells 750 times faster than the healthy cells. But because of that DNA repair mechanism in the healthy cells, cordycepin appears not to interfere with the healthy cell replication, and the tumour-cell kill rate is actually much higher than the 750:1 ratio.

The same sort of DNA interruption mechanism is also responsible for the anti-tumour effects of some other chemotherapy agents. This same mechanism of DNA synthesis inhibition is probably the mechanism responsible for the antiviral effects seen with cordycepin.

### Conclusion

The best-known medicinal action of *Cordyceps sinensis* is the increase of physical stamina. Cordycepin is very effective against all sorts of bacteria that have developed resistance to other antibiotics. *Cordyceps* has been shown to improve the internal balance mechanism, thus making the utilisation of oxygen more efficient.

Numerous studies have demonstrated the benefits of *Cordyceps sinensis* on heart rhythm disturbances such as cardiac arrhythmias and chronic heart failure.

Four excellent studies have demonstrated the benefits of *Cordyceps sinensis* in helping to lower total cholesterol and triglycerides and to increase HDL ("good") cholesterol.

Clinical studies involving male and female patients with decreased libido have shown significant improvements in symptoms. The most dramatic physical proof has come from a male fertility study that showed that a *Cordyceps* supplement greatly increased sperm count, decreased sperm malformations and improved sperm survival rate after eight weeks of use.

These properties and others may account for the overall physical enhancement, the added endurance, the libido-enhancing attributes and the anti-fatigue effects seen in humans using *Cordyceps sinensis*.

Worldwide studies have shown that this unassuming fungus delivers even more potentially life-enhancing benefits than claimed. This is a superfood which is just beginning to make itself known in the western medical literature.

The reduction of this active fungal material to nanoparticle size also has great promise, and further research work is being conducted which may lead to additional patented medicines.

More importantly, the full-spectrum of compounds present in the fruit body, mycelium and broth of the natural substance continues to prove once again that ancient knowledge meets the modern test of science. ∞

### About the Author:

Richard Alan Miller is a physicist, herbalist as well as an expert in growing and marketing botanicals. He set up his own production and marketing company, Northwest Botanicals (1212 SW 5th Street, Grants Pass, Oregon 97526, USA). He is the author of diverse papers and books on metaphysics, parapsychology and alternative agriculture. His articles (with co-author Iona Miller) in NEXUS include "The Schumann's Resonances and Human Psychobiology" (10/03), "HAARP's Threat to the 'Voice of the Planet'" (10/04) and "From Helix to Hologram" (10/05). He was a speaker at the NEXUS Conference in 2004 in Brisbane and in 2005 in Amsterdam.

Mr Miller's article in this edition is an extract from chapter one of his book *Power*

*Tools for the 21st Century*, to be published later this year by Earthpulse Press (<http://www.earthpulse.com>). This is the second book from the series "The Non-Local Mind in a Holographic Universe". The first book, *ESP Induction Through Forms of Self-Hypnosis*, is due for publication in July 2009.

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### Editor's Note:

Due to space constraints, we are unable to include endnotes with this article. To view these, and for more technical information and references, please go to <http://pharmaceuticalmushrooms.nwbotanicals.org/> and then <http://www.pharmaceuticalmushrooms.nwbotanicals.org/lexicon/cordyceps/indepth.htm>.

**This same mechanism of DNA synthesis inhibition is probably the mechanism responsible for the antiviral effects seen with cordycepin.**





# SOLAR CYCLES AND EARTH'S WEAKENING MAGNETIC FIELD

*The emerging Solar Cycle 24, combined with our planet's declining magnetic field, may have severe consequences for Earth in terms of climate, electricity grid systems and human behaviour.*

**by Alex Ansary**

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If you were thinking that the only things we have to be concerned about include wars, famines and economic crashes, think again. Recent scientific discoveries are indicating that this next solar flare cycle could be powerful enough to disrupt our planet's entire electric grid. In this report I document a number of changes taking place with the Earth's magnetic field, the Sun and our solar system while explaining some of the concerns that today's leading scientists have voiced. I also examine how humankind may be affected energetically.

## **Our Planet's Magnetic Field**

The magnetosphere is a bubble of magnetism that surrounds the Earth and protects us from solar wind. Fortunately, our planet's magnetic field diverts most particles into a circular path around the Earth. Like weather patterns found on Earth, solar wind patterns can change rapidly.

Luckily, our planet's magnetosphere quickly responds to the threat and absorbs the impact, wiggling and jiggling in the process. Geophysicists call this reaction a geomagnetic storm, but because of how it disrupts the Earth's magnetic field it could also be called electromagnetic pollution. This is when we see the Aurora Borealis in our night skies.

But strange things are happening in both outer and inner space. The Earth's magnetic field has been weakening. This decrease actually began 2,000 years ago, but the rate of decrease suddenly became much more rapid 500 years ago. However, in the last 20 years or so, the magnetic field has become erratic.

Aeronautical maps of the world, which are used to allow aeroplanes to land using automatic pilot systems, have had to be revised globally in order for the autopilot systems to work.

Now, NASA's five THEMIS spacecraft have discovered a breach in the Earth's magnetic field that is 10 times larger than anything previously thought to exist. When this happens, solar wind can flow in through the opening to "load up" the magnetosphere for powerful geomagnetic storms. Exploring the mystery is a key goal of the THEMIS mission, launched in February 2007.

The big discovery came on 3 June 2007, when the five probes serendipitously flew through the breach just as it was opening. Onboard sensors recorded a torrent of solar wind particles streaming into the magnetosphere, signalling an event of unexpected size and importance.

But the breach itself is not the biggest surprise. Researchers are even more amazed and baffled at the unexpected way it forms, overturning long-held ideas of space physics.

"At first I didn't believe it," said THEMIS project scientist David Sibeck of the Goddard Space Flight Center. "This finding fundamentally alters our understanding of the solar wind-magnetosphere interaction."

"The opening was huge—four times wider than Earth itself," said Wenhui Li, a space physicist at the University of New Hampshire, who has been analysing the data. Li's colleague Jimmy Raeder, also of the University of New Hampshire, said: "1<sup>27</sup> particles per second were flowing into the magnetosphere—that's a 1 followed by 27 zeros. This kind of influx is an order of magnitude greater than what we thought was possible."

Space physicists have long believed that holes in the Earth's magnetosphere open only in response to solar magnetic fields that point south. The great breach of June 2007, however, opened in response to a solar magnetic field that pointed north. To the layperson this may sound like a quibble, but to a space physicist it is almost seismic.

### Unexpected Shield Drop

Regarding how our magnetic field is changing, what is understood today in the scientific community is that the solar wind presses against the Earth's magnetosphere almost directly above the equator, where our planet's magnetic field points north. Scientists previously believed that if a bundle of solar magnetism came along and pointed north, too, the two fields should reinforce one another, strengthening the Earth's magnetic defences and slamming the door shut on the solar wind.

In the language of space physics, a north-pointing solar magnetic field is called a "northern IMF" (interplanetary magnetic field) and it is synonymous with "shields up".

The big surprise is that when a northern IMF came along, the shields went down. This has completely overturned many scientists' understanding of things. As researchers investigated the tear in the magnetic field, they discovered that 20 times more solar wind passed into the Earth's protective shield when the magnetic fields were aligned.

Northern IMF events don't actually trigger geomagnetic storms, Raeder noted, but they do set the stage for storms by loading the magnetosphere with plasma. A loaded magnetosphere is primed for auroras, power outages and other disturbances that can result when a CME (coronal mass ejection) hits. This means that the impact of solar flares is 20 times as strong when the magnetic fields are aligned.

The Earth's and the Sun's magnetic fields will be in sync at the peak of Solar Cycle 24, expected in 2012. This will cause an influx of solar particles. What the

scientists didn't discuss is the impact on the human bioelectrical system.

### Earth's Magnetic Field Changes Climate

The Earth's climate has been significantly affected by the planet's magnetic field, according to a Danish study published in January 2009 which could challenge the notion that human emissions are responsible for global warming.

"Our results show a strong correlation between the strength of the Earth's magnetic field and the amount of precipitation in the tropics," one of the two Danish geophysicists behind the study, Mads Faurschou Knudsen of the geology department at Aarhus University in Denmark, told *Videnskab* journal.

The results of the study (also published in the US scientific journal *Geology*) lend support to a controversial theory published a decade ago by Danish

astrophysicist Henrik Svensmark, who claimed that the climate is highly influenced by galactic cosmic ray (GCR) particles penetrating the Earth's atmosphere.

### Geomagnetic Field Reversal

Another recent study suggests that rapid changes in the churning movement of the Earth's liquid outer core are weakening the magnetic field in some regions of the planet's surface.

"What is so surprising is that rapid, almost sudden, changes take place in the Earth's magnetic field," said study co-author Nils Olsen, a geophysicist at the Danish National Space Center in Copenhagen.

The findings suggest similarly quick changes are simultaneously occurring in the liquid metal, 1,900 miles (3,000 kilometres) below the surface, Olsen said.

Fluctuations in the magnetic field have occurred in several far-flung regions of the Earth.

The changes "may suggest the possibility of an upcoming reversal of the geomagnetic field" said study co-author Mioara Mandea, a scientist at the German Research Centre for Geosciences in Potsdam.

Earth's magnetic field has reversed hundreds of times over the past billion years, and the process could take thousands of years to complete.

The decline in the magnetic field is also opening the Earth's upper atmosphere to intense charged-particle radiation, according to scientists.

### Cosmic Rays Slam the Earth

An international team of researchers has discovered a puzzling surplus of high-energy electrons bombarding Earth from space. The source of these

**The Earth's and the Sun's magnetic fields will be in sync at the peak of Solar Cycle 24, expected in 2012. This will cause an influx of solar particles.**

cosmic rays is unknown, but it must be close to the solar system and could be made of dark matter. The results were reported in the 20 November 2008 issue of the journal *Nature*.

"This is a big discovery," said co-author John Wefel of Louisiana State University. "It's the first time we've seen a discrete source of accelerated cosmic rays standing out from the general galactic background."

To study the most powerful and interesting cosmic rays, Wefel and colleagues spent the last eight years flying a series of balloons through the stratosphere over Antarctica. Their NASA-funded cosmic ray detector found a significant surplus of high-energy electrons.

"The source of these exotic electrons must be relatively close to the solar system—no more than a kiloparsec away," said co-author Jim Adams of the NASA Marshall Space Flight Center.

Galactic cosmic rays are subatomic particles accelerated to almost light-speed by distant supernovae explosions and other violent events. They swarm through the Milky Way, forming a haze of high-energy particles that enter the solar system from all directions.

Cosmic rays consist mostly of protons and heavier atomic nuclei with a dash of electrons and photons mixing the mix. Why must the source be nearby? According to Adams: "High-energy electrons lose energy rapidly as they fly through the galaxy. They give up energy in two main ways: (1) when they collide with lower-energy photons, a process called inverse Compton scattering; and (2) when they radiate away some of their energy by spiraling through the galaxy's magnetic field."

High-energy electrons are therefore local, but the researchers cannot pinpoint the source in the sky.

### The Sun's Magnetic Field

The Sun is a massive electromagnetic broadcaster which floods the planets of the solar system with heat, light, UV radiation and electrically charged particles. The Sun itself has a magnetic field, and that magnetic field creates an "egg" around the solar system that is known as the heliosphere. The heliosphere is shaped like a teardrop, with the long, thin end of the drop pointing away from the direction in which we're travelling.

Any changes that occur in or on the Sun will eventually affect every person alive. The solar activity during this last sunspot cycle was

greater than anything ever seen before.

One study, authored by Dr Mike Lockwood and colleagues from Rutherford Appleton Laboratory in Chilton, UK, in 1999, investigated the Sun's activity over the previous 100 years. They reported that since 1901 the overall magnetic field of the Sun has become stronger by 230 per cent. Scientists do not understand what that means for us.

Some of the sunspot activity in this last cycle was greater than anything ever recorded before. But scientists claim that they don't understand what that means, either.

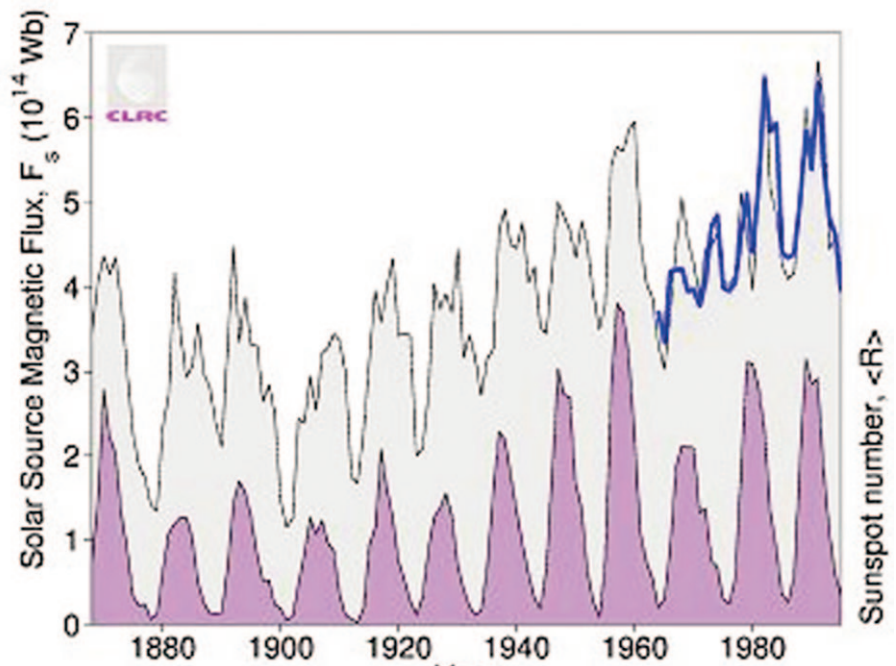
"Obviously, the Sun is Earth's lifeblood," said Richard Fisher, Director of the Heliophysics Division at NASA. "To mitigate possible public safety issues, it is vital that we better understand extreme space weather events caused by the Sun's activity."

### Solar Cycle 24

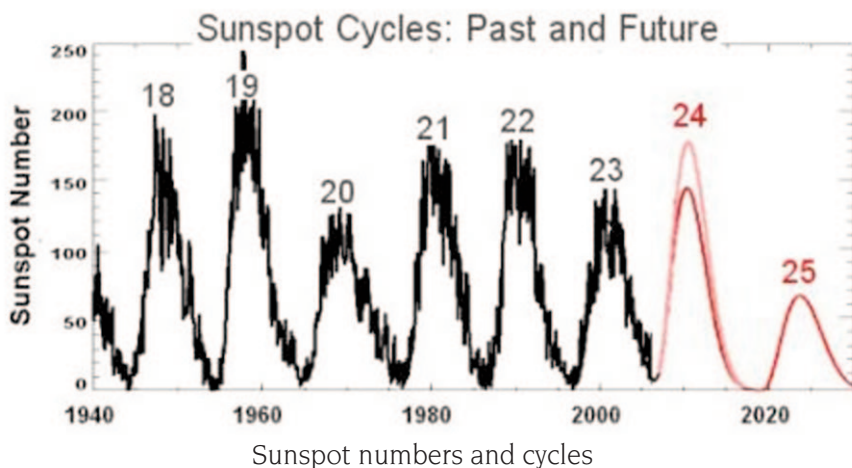
According to NASA, the Sun is beginning another 11-year cycle of activity.

The Sun flips its magnetic poles every 11 years. Considering that the Sun is to blame for some unfavourable climate changes on the Earth, the coming decade could spell more trouble for our planet. The years ahead could be intense.

Jimmy Raeder explained: "We're entering Solar Cycle 24. For reasons not fully understood, CMEs in even-numbered solar cycles (like 24) tend to hit Earth with a leading edge that is magnetized north. Such a CME should open a breach and load the magnetosphere with plasma just before the storm gets underway. It's the perfect sequence for a really big event."



Solar-source magnetic flux and sunspot numbers



to perform one complete circuit. Researchers believe the turning of the belt controls the sunspot cycle, and that's why the slowdown is important.

"Normally, the conveyor belt moves about one metre per second—walking pace," said NASA solar physicist David Hathaway. "That's how it has been since the late 19th century."

In recent years, however, the belt has decelerated to 0.75 m/s in the north and 0.35 m/s in the south.

"We've never seen speeds so low," Hathaway added.

According to theory and observation, the speed of the belt foretells the intensity of sunspot activity approximately 20 years into the future. A slow belt means lower solar activity; a fast belt means stronger activity.

"The slowdown we see now means that Solar Cycle 25, peaking around the year 2022, could be one of the weakest in centuries," said Hathaway.

Every 10–11 years, the number of sunspots found on our closest star rises from zero (as it was in 2008) to a high of over four hundred. While the sunspots themselves don't affect Earth, the solar flares and other disturbances emanating from our Sun during increased sunspot activity result in an increased number of particles (electrons and protons) and harmful light radiation (ultraviolet rays and X-rays), known as solar wind. If it weren't for the Earth's protective magnetic field and atmosphere, this bombardment of particles would burn us to a crisp.

Sunspot Cycle 24, expected to peak around 2012, could be one of the strongest in centuries. It will be 30–50 per cent stronger than the last one and begin as much as a year late, according to a breakthrough forecast using a computer model of solar dynamics developed by scientists at the US National Center for Atmospheric Research (NCAR). Predicting the Sun's cycles accurately, years in advance, will help societies plan for active bouts of solar storms, which can slow satellite orbits, disrupt communications and bring down power systems.

The scientists have confidence in the forecast because, in a series of test runs, the newly developed model simulated the strength of the past eight solar cycles with more than 98 per cent accuracy. The forecasts are generated in part by tracking the subsurface movements of the sunspot remnants of the previous two solar cycles.

### Solar Cycle 25

The Great Conveyor Belt is a massive circulating current of fire (hot plasma) within the Sun. It has two branches, north and south, each taking about 40 years

### Solar Activity's Impact on Earth

The first instruments to measure solar flare activity made their appearance 440 years ago. They showed that our nearest star treats the Earth to more than just solar eclipses. Sunspots, solar flares, faculae and other phenomena affect everything on the Earth from atmospheric events to human behaviour. These phenomena are known collectively as solar activity. This activity, expressing itself

through bursts of solar radiation, magnetic storms or fiery flares, can vary in intensity from very low to very strong. It is the storms that pose the greatest danger to civilisation.

On 28 August 1859, polar lights glowed and shimmered all over the American continent as darkness fell. Many people thought their city was aflame. The instruments used to record this magnetic fluctuation across the world went off their scales. Telegraph systems malfunctioned, hit by a massive surge in voltage. It was perhaps the worst solar storm in the past 200 years. Its results for humankind were small because civilisation had not yet entered a high-tech phase of development. But with the advent of modern power grids and satellites, much more is at risk. Had something similar happened in our nuclear space age, destruction would have been catastrophic.

**NASA is now sounding an alarm because the North American continent is so close to the north magnetic pole and is the most vulnerable to solar activity.**

According to scientific data, storms of such size occur about once in five centuries. But events with half the intensity happen every 50 years. The last one took place on 13 November 1960 and disturbed the Earth's geomagnetic fields, upsetting the operation of radio stations.

Now, our dependence on radio-electronic devices is so immense that increased solar activity could disable life-support systems all over the world, and not only on the surface. Poor space weather makes all orbital systems malfunction. A heavy solar storm can cause disruption to space-based navigation systems.

NASA is now sounding an alarm because the North American continent is so close to the north magnetic pole and is the most vulnerable to solar activity. A study by the Metatech Corporation revealed that an impact similar to that of 1859 would incapacitate the entire electricity grid in North America. Even the relatively weak magnetic storm of 1989, provoked by solar activity, caused an accident at a Canadian hydro-electric power plant that left six million people in the United States and Canada without electric power for nine hours.

A study by the US National Academy of Sciences also outlines grim possibilities on Earth for a worst-case-scenario solar storm. Modern power grids are so interconnected that a big space storm—the type expected to occur about once a century—could cause a cascade of failures that would sweep across the United States, cutting power to 130 million people or more in this country alone, the new report concludes. Such widespread power outages, though expected to be a rare possibility, would affect other vital systems.

"Impacts would be felt on interdependent infrastructures with, for example, potable water

distribution affected within several hours; perishable foods and medications in about 12–24 hours; and immediate or eventual loss of heating/air conditioning, sewage disposal, phone service, transportation, fuel resupply and so on," the report states.

Outages could take months to fix, banks might close, and trade with other countries might halt.

"Emergency services would be strained, and command and control might be lost," according to the researchers, led by Daniel Baker, director of the Laboratory for Atmospheric and Space Physics at the University of Colorado in Boulder.

### Solar Cycles and Human Behaviour

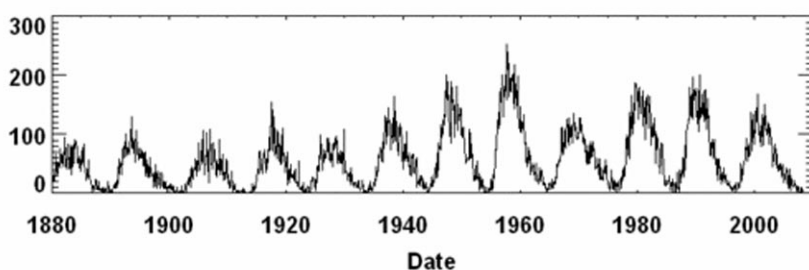
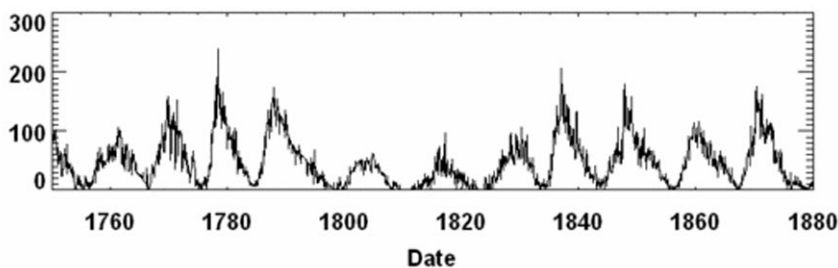
Could cycles of war and peace be tied to cycles of the Sun? Some researchers claim that geomagnetic storms affect brain waves and hormone levels, causing a number of different reactions, predominately in males. While a few women may also experience changes during these storms, they generally seem less affected by the Sun's behaviour. Reacting to changing hormone levels, some men may become increasingly irritable and aggressive, while others may instead become more creative.

An increase in solar activity is found to increase psychotic episodes in individuals who already suffer from unstable psychological states. While we might relate such behaviour to a full moon, in 1963 Dr Robert Becker and his colleague, Dr Howard Friedman, demonstrated that solar changes also lead to a noticeable increase in psychotic activity. Yet these reactions are not simply isolated to a few particularly sensitive or unlucky individuals.

Evidence indicates that wars and international conflicts most often break out when sunspots are rapidly forming or rapidly decaying, as these are times when there are more intense geomagnetic storms. In addition, this increase in solar activity correlates to periods of more accidents and illness as well as an increase in crimes and murders. The entire biosphere is affected by this electromagnetic pollution, and human behaviour seems to react accordingly.

Not all geomagnetic storms are disruptive. But over time, these extremes in solar activity may also affect periods of Earthly conflict. The data on cycles of war and peace extend back at least 2,500 years.

As early as 1915, some scientists were beginning to recognise connections between solar activity and human behaviour. This work began with Russian scientist



Sunspot cycles from 1760

Alexander Chizhevsky, who observed a correlation between mass changes in human behaviour and sunspot cycles.

In the 1930s, Professor Raymond Wheeler, an historian at the University of Kansas, took this observation one step further. His research afforded numerical rankings to the severity of individual battles correlating to solar cycles. His data was statistically analysed by Edward Dewey, who validated the existence of these war cycles. Yet he was unable to make a definite connection with sunspot cycles because the data at that time was insufficient. In the 1980s, with a more detailed analysis of Wheeler's data, the connection became clear.

Upon close examination of the data, it appears that we are beginning to discover a pattern emerging where wars are most likely to start at key points of the sunspot cycle. These are when geomagnetic activity is changing most rapidly on the upsurge of solar activity or on the downward part of the cycle when sunspots are rapidly diminishing. In addition, we can see how this adversely affects physiological mechanisms such as brain rhythms and hormonal levels.

In other words, wars could be a kind of mass psychosis. When we see the connection to physical mechanisms (such as electromagnetic pollution), this gives us some predictive insight into when increased aggressions are likely to start. Calculations indicate that we're due to see another rise in intense solar activity in less than two years' time, around 22 September 2010. NASA predicts that this activity will peak in 2012.

### Solar System Changes

The atmospheres of five of the planets and the Earth's moon are changing. The Earth's atmosphere in the upper levels is forming HO gas that didn't exist in the quantity that it does now. Scientists from the Russian Academy of Sciences say it's not related to global warming, CFCs or fluorocarbon emissions. They claim that the atmospheres of Jupiter, Uranus and Neptune are also are changing.

The Martian atmosphere is getting sizeably thicker. In 1997, the *Mars Observer* probe lost one of its mirrors, causing it to crash. This happened because the atmosphere was about twice as dense as NASA had calculated.

The brightness and magnetic fields of the planets are

also changing. Venus is showing marked increases in its overall brightness. Jupiter's energetic charge has risen so high that there is actually a visible tube of ionising radiation that's formed between the surface of Jupiter and its moon Io. You can see the luminous energy tube in photographs that have been taken recently. Uranus and Neptune also are becoming brighter.

The magnetic fields of Jupiter, Uranus, and Neptune are changing. Jupiter's magnetic field has more than doubled and Neptune's magnetic field is increasing. The Russians say that all three of these planets are becoming brighter and their atmospheric qualities are changing, but they do not explain what this means.

The Russians also report that Uranus and Neptune appear to have had recent pole shifts. When the *Voyager II* space probe flew past Uranus and Neptune, the apparent north and south magnetic poles were sizeably offset from where the rotational pole was in earlier recordings. In one case it was 50 degrees off, and in the other case the difference was around 40 degrees.

This new information about the changes in our solar system comes at an interesting time for our planet. It's possible that, for some time, celestial events have been playing their part in shaping our way of life on the planet, and that these changes we are now seeing with our Sun, the solar system and the Earth's magnetic field may be the very things that transform our world as we know it into something new.

Only time will tell, but it appears that the future may already be here... ∞

**Jupiter's energetic charge has risen so high that there is actually a visible tube of ionising radiation that's formed between the surface of Jupiter and its moon Io.**

### About the Author:

Alex Ansary is an independent journalist from Portland, Oregon, USA, who has been questioning the nature of reality since his early youth. His daily radio show *Outside the Box* (<http://www.oraclebroadcasting.com>) gives voice to those who are normally censored or attacked in the mainstream media. The program aims to connect the dots behind world events and to provide hope during these troubled times. Alex participates in the global battle for freedom via cable television, Internet radio and the web. He can be contacted by mail at PO Box 12743, Portland, Oregon 97212, USA, by email at [alex\\_ansary@hotmail.com](mailto:alex_ansary@hotmail.com) and via his website <http://alexansary.com>.

The complete version of this article, together with links, can be accessed at <http://tinyurl.com/bf6huj>.





# A PERSPECTIVE ON ARCHAEOLOGICAL ENIGMAS

*Numerous megalithic sites around the world bear witness to the existence of an advanced civilisation that flourished before a great cataclysm ended the Pleistocene era around 12,000 years ago.*

**by R. Cedric Leonard**

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From the web page:  
[http://www.atlantisquest.com/  
Archeology.html](http://www.atlantisquest.com/Archeology.html)

Certain ancient ruins and monuments scattered throughout the world stand haunting, mysterious, unexplained. Archaeologists write or speak of them matter-of-factly, unemotionally, as if they presented no problem. Dates and data are bandied about as if everything about the ruins were cut and dried. However, the particular ruins discussed in this article do present problems which to this day have not been solved. A book could easily be written about any one of the ruins selected. Indeed, Posnansky wrote four large volumes on the archaeological, architectural and archaeoastronomical aspects of Tiahuanacu alone. These ruins deserve much more attention than can be allowed here. I will barely touch on some of the enigmas involved with these sites.

## **The Baalbek Acropolis**

Located just across the Leontes mountains from Beirut, Lebanon, the Baalbek acropolis stands as eloquent testimony of the skills and abilities of ancient man. The complex consists of several temples, now in ruins but built originally by the Romans in the classical Corinthian style. The four temples are commonly known as the Temple of Jupiter, the Temple of Bacchus, the Temple of the Muses and the Temple of Venus. Several other impressive buildings are in evidence.

Sir Mortimer Wheeler described Baalbek as "one of the very great monuments of European architecture" (Ragette, 1980). Baalbek is truly both stupendous in its size and magnificent in its classical beauty. Any words in the human vocabulary fall short of describing the wonder of these buildings. No doubt the megalithic platform—already in place when the Romans arrived on the scene—inspired the latter to stretch their abilities to the absolute limits (and they were extremely capable), for they did their finest and most magnificent work here at Baalbek.

It is the so-called Trilithon, the three mammoth stones incorporated into the base of the platform, which commands our attention. Sir Mortimer Wheeler called them "the largest hewn stones in the world" (Ragette, 1980). Each of these measures about 64 feet in length, 12 feet in width and over 14 feet in height, and weighs roughly 800–1,000 tons. A fourth stone, the largest quarried stone in the entire world at almost 70 feet long and weighing 1,000–1,200 tons, still lies in the quarry over half a mile away (Mitchell, 1969).

These massive stones were somehow cut from the bedrock, moved half a mile to the hilltop "acropolis" and placed into position some four courses above ground level atop other stones in the platform under construction. The course of stones lying immediately below the Trilithon contains at least 24 stones, each 30–33 feet in length and weighing up to 450 tons. How were these gigantic stones moved from the distant quarry and positioned so perfectly in place? The hill on which the acropolis was built

slopes away on all sides, making it a puzzle as to how cranes or any other lifting devices could have been positioned. There are no traces of ancient ramps leading to the acropolis.

Was this platform built by the Romans, as some archaeologists believe, or was it already in place when the Romans arrived to take advantage of it? If not Roman, then how old is it? Even more puzzling is the fact that the megalithic portion of these ruins was never finished (Ragette, 1980). What halted the construction? Were the builders interrupted by some tremendous cataclysm? If the Romans really built the platform, why couldn't they also move the monolith still in the quarry? And if they "finished" the project by building the beautiful temples, why would they have wasted the effort expended to cut out this huge monolith, yet fail to use it?

In spite of what some "authorities" have indicated, the platform is thousands of years older than the Roman temple built upon it, as indicated by the extreme weather erosion exhibited on the surfaces—totally absent on the temple ruins above.

Early archaeologists were firmly of the opinion that the platform was far older than the Roman temple built upon it. Louis Félicien de Saukey, a French archaeologist who visited Baalbek in 1851, believed the platform to be pre-Roman. Even the famous scholar Ernest Renan (who intended to prove that the entire complex was Roman) came to agree with earlier opinion after investigating the ruins. Not only did

Renan clearly regard the weather erosion as a deciding factor, he could find "no inherent relation" between the Roman temple and its megalithic foundation (Ragette, 1980). His personal investigation resulted in a complete reversal in his attitude towards the megalithic portion of these ruins.

"Modern" archaeologists have a hard time conceiving that people living thousands of years before the Romans had the know-how to manipulate such massive stones, so they call on flimsy archaeological data to convince themselves that it is all Roman.

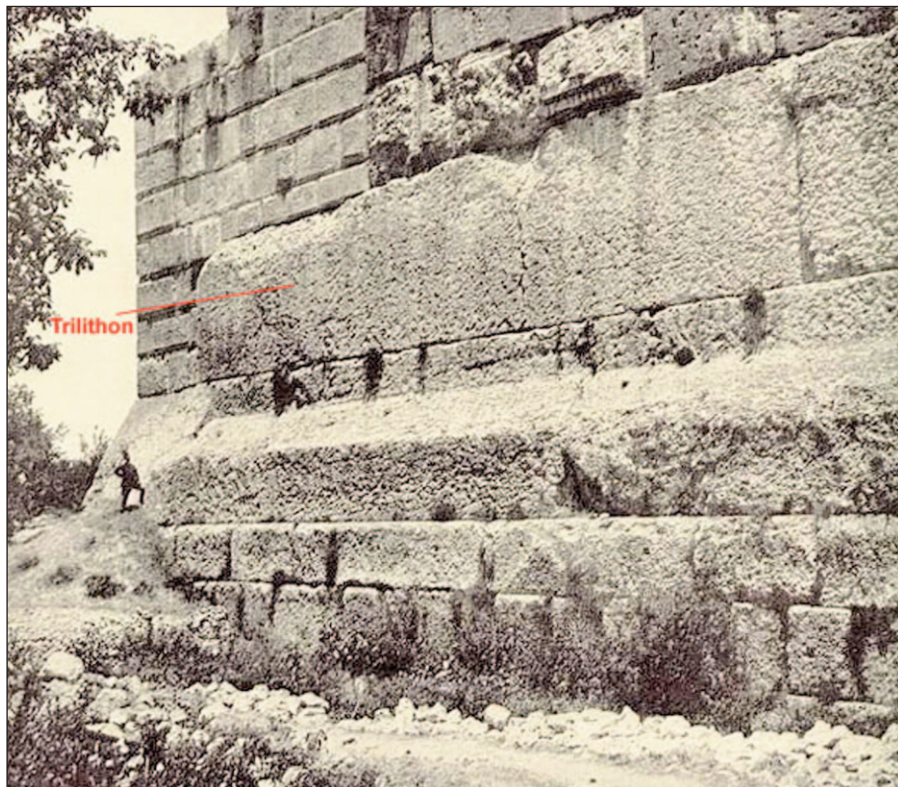
### The Egyptian Sphinx

I have two old history books in my personal library which have photographs of the Egyptian Sphinx covered with sand: one in which the Sphinx is covered up to the neck in sand (West, 1904), and another which shows the Sphinx with the "chest" only partly excavated (Myers, 1904). People used to speculate as to what the body of the Sphinx might look like.

Of course, we now know that the body of the Sphinx is lion-shaped. But why a lion? John Anthony West and Graham Hancock, who allege that the Sphinx has been sculpted by non-Egyptians circa 10,500 BC, say there is good reason for this, and it doesn't have anything to do with the historical Egyptians. They explain that the Sphinx has been covered in sand for most of its long history, and why not? If it weren't continually being cleared by modern workers, it would be buried up to its neck in sand in less than 50 years.

The shifting sand has to be fought back on almost a day-to-day basis. So, if it has been under the sand for most of its existence, why is it so weathered?

West called upon a colleague, Dr Robert Schoch, professor of geology at Boston University, to evaluate the nature of the erosion of the Sphinx. After careful investigation, Schoch concluded that the "weathering" of the Sphinx was done by water, rather than by wind and sand as commonly believed; that it was first created during the alluvial period toward the end of the ice age when Egypt was experiencing copious amounts of rainfall; and that the Sphinx must be *at least* 7,000 years old—a conservative estimate by his own admission (Schoch, 1992). He presented his findings to a large forum of geologists, and his conclusions that the weathering patterns evident on the Sphinx were the result of water erosion, rather than wind, were generally accepted.



Massive foundation stones form the base of the platform at Baalbek.

Egyptologists, however, were outraged—but Egyptologists have never welcomed geologists into their playpen. But what has all this to do with a lion?

It seems that West, following the work of an earlier researcher, Robert Bauval, determined that in the year 10,500 BC, on the day of the Spring equinox, the Sphinx would be looking at its own counterpart in the morning sky, Leo the lion (West, 1979). In fact, they speculate, and rightfully so, that the *original* Sphinx also had the head of a lion.

Colin Reader (1998), a London University geologist, noticed that the Egyptian "pharaoh-like" head we see today is much too small in proportion to the body of the Sphinx, and that, even though it has suffered damage from vandals, the face has not eroded like the body (if the head has always been exposed to the weather, it should be *more eroded* than the body). Reader believes the head of the original Sphinx was *re-sculpted* from an original lion's head into an Egyptian pharaoh-style head (interesting!). Take away the pharaoh-style head and all "Egyptian" traits disappear.

Dr Schoch's conclusion as to the age of the Sphinx is supported by two additional studies by competent geologists: Colin Reader (1998) and David Coxill (1998). All in all, the evidence seems to point to a Sphinx originally sculpted by an unknown culture in the far distant past. Conservative estimates place it at the very beginning of predynastic times.

So why a lion? We know that the *mean* ("central") date of the age of Leo is 9880 BC. We also know that the geological epoch known as the Pleistocene came to a close near that date; that a mass extinction of animals accompanied that end; that all Upper Paleolithic cultures ended on or near that date; that human population was decimated at that time; and that this Great Event was accompanied by worldwide volcanism (Hibben, 1946).

In addition, Manetho, the Egyptian priest-historian, recorded an abrupt interruption in his king-list at that time. In other words, worldwide changes of unimaginable magnitude happened during the age of Leo—events which were centred close to the date of 10,000 BC. This is reflected in the famous Dendera Zodiac which *begins* with the sign of Leo. Did it herald a new beginning?

The appearance of the famous lion-sphinx in Egypt was no mere astrological coincidence. I suspect that the ancients knew when the geological cycles were due to occur, and that the Sphinx was a reminder of an event large and significant enough to affect all mankind.

## The Great Pyramid of Giza

The Great Pyramid of Giza (or Gizeh) has always been one of the most controversial ancient monuments in the world. It is definitely different from all other pyramids in Egypt. How so?

First of all, it is completely devoid of any inscriptions. Second, the preciseness of its proportions and orientation exceeds any of the others (even in the Giza group). Third, its chambers and passageways are mostly above ground, and so every block had to be shaped before it was laid to allow for the existence of these features—an extremely complex undertaking. The chambers and passageways of the other pyramids are simple in comparison and mostly below ground level, with a virtually solid pyramid constructed above.

Although certain other pyramids were built as tombs (judging from inscriptions within the burial chambers), there is no indication whatsoever that the Great Pyramid was meant to be a tomb. The so-called "sarcophagus" in the "King's Chamber" (so-named by Egyptologists) is the sum-total of evidence for that theory. Calling it a "sarcophagus"

doesn't make it so. It could have had some initiatory function or some other, yet unknown, purpose. No mummies or human remains were ever found in the Great Pyramid. Nor is there any evidence that it was built by Cheops (Khufu) that will stand up under scientific scrutiny.

The relationship of the Great Pyramid to Atlantis hinges upon the date it was built. Since it is the most perfect, and since Egypt is literally littered with pyramids which are less perfect, we, in our usual "onward and upward" frame of mind, assume the most imperfect of them to be the earlier experimental versions and the best constructed to be the latest. Quite the opposite is more likely. Having a near-perfect example before them, the Egyptians could have been trying to imitate what some advanced civilisation had already accomplished, and the poorly constructed examples found scattered all over Egypt may be the result of their futile attempts to copy that high technology.

It is not widely known to non-professionals that a large number of pyramids in Egypt were built *after* the Great Pyramid; in fact, pyramid building went on for several hundred years afterward. Yet the fact is that *they are all inferior both in size and quality of workmanship* to those of Giza. Why, once they had conquered all of the engineering problems involved, would the Egyptians have suddenly reverted to such shoddy methods? This

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fact in itself is supportive of the theory that the Egyptians never attained the level of expertise required to build the Great Pyramid; that in spite of their efforts to attain that level, they ultimately failed!

What other evidence is there to indicate that the accepted dating scheme of the pyramids of Giza might be faulty? Joseph Jochmans offers the following observation. Recounting the usually accepted sequence of Khufu, Khafre and Menkhare (all pharaohs of the Fourth Dynasty), he points out that the *relative sizes* of the pyramids belie the accepted order of construction. Egyptologists tell us that the first pyramid in the Giza group was built by Khufu. If the "onward and upward" viewpoint has any validity, wouldn't Khafre, who ruled next, have been expected to build a bigger and better one than his predecessor? To do otherwise would have seriously jeopardised his status as pharaoh. Yet the second pyramid is considerably smaller than the Great Pyramid. And shouldn't Menkhare, the next pharaoh to rule, have been expected to outdo both his predecessors? Yet his is by far the smallest of the three, and the one attributed to Khufu is the largest. Although this is patently contrary to human nature, we are asked to buy into the accepted chronology as if it were an established fact.

Robert Bauval and John Anthony West have a much more believable scenario, and theirs is based upon astronomical considerations (frequently used in the erection and orientation of ancient sacred structures) which can be checked and verified by modern science. They have learned that the various sizes and placement of the pyramids of Giza reflect the exact positions and luminosities of the stars in the constellation of Orion. And we have learned from ancient Egyptian texts that Orion represented the deity Osiris, who ruled during the "reign of the gods" some 15,000 years ago.

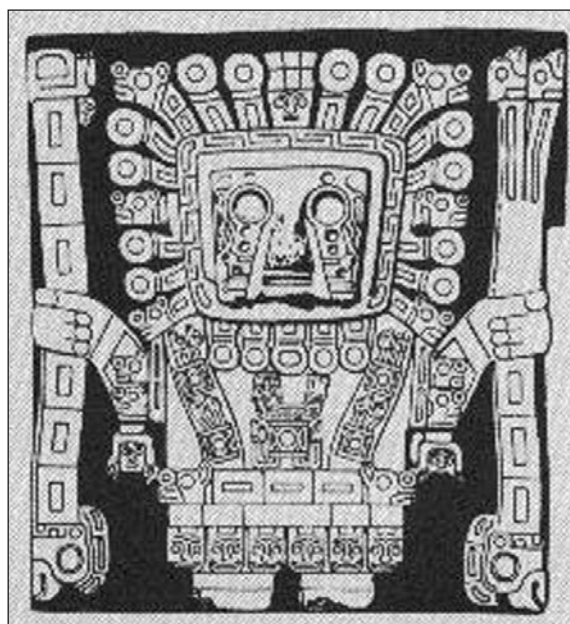
Just as 10,500 BC was found to be the most likely date for the carving of the Sphinx, as if by magic it turns out that the orientation of the passageways of the Great Pyramid point to the very same date (Bauval, 1994). This date was determined by means of modern-day computers which can literally "turn back the clock" and tell us where these constellations were in the sky on any given date. It happens that these fall within the era of Atlantis.

## Tiahuanacu

Tiahuanacu (Tiahuanaco or Tiwanaku) has been called "the Baalbek of the New World". It is a prehistoric ruined city, apparently a harbour (Posnansky, 1945), located in the Bolivian Andes some 15 miles from Lake Titicaca, 12,500 feet above sea level! Why would a seaport be built more than two miles above sea level? There are several theories about this, one of which will be mentioned here.

The port area of Tiahuanacu (once thought to be a separate ruin) is known as Puma Punku ("Port of the Puma"). In this area, close to the marks of ancient shorelines, enormous stone blocks are seemingly scattered hither and yon like matchsticks—except that they weigh variously between 100 and 150 tons. One

block weighs an estimated 440 tons! Geologists have determined that some of the blocks were brought from quarries 200 miles away (Hemming 1979). One wonders, of course, how such blocks were quarried with no metal tools, how they were transported to the building site and how they were assembled to form the piers and docks that once existed. But even more puzzling: how did they get scattered about in such disarray? Did some tremendous geological cataclysm tumble these gigantic monoliths into this horrible disorder?



Sun God carving on the Gateway of the Sun

Then there is the ceremonial centre with its pyramids, temples, stone idols and the 10-ton Puerto del Sol ("Gateway of the Sun"). This large monolith was originally found broken down the middle and almost completely covered in solidified mud. Carved from a single block of andesite, it is about 10 feet high and over 12 feet wide (Mason, 1968). Its upper portion is exquisitely carved with beautiful and intricate designs, including various symbols, condors, toxodons and elephants, and with a human figure in the centre which has variously been thought to represent the Sun God, Viracocha, as well as the "Weeping God" (what appear to be tears are depicted on both cheeks). He is holding a stylised staff in each hand, one of which may represent bolts of lightning. The birdlike figures flanking the central figure are unfinished, leading some of the early researchers (Mason, 1968) to think that the builders were interrupted (due to a catastrophe, perhaps?). The Gateway of the Sun now stands in the northwestern corner of the Kalasasaya Temple (Bennett, 1934).

The centre's several buildings are known as the Kalasasaya Temple, the Semi-subterranean Temple, a so-called "Palace" and the Acapana Pyramid. A few other buildings are in evidence. Many of the building blocks weigh close to 200 tons (Posnansky, 1945). The Acapana Pyramid is a step pyramid and, like the Great Pyramid, is aligned perfectly with the cardinal directions. It was originally covered with smooth andesite stone, only 10 per cent of which is still in place. The ruinous state of the pyramid is due to stone pirates having carried off the stones for building materials in La Paz.

In the centre of the Semi-subterranean Temple was a 24-foot-tall monolithic statue sculpted out of red sandstone. Although carvings cover much of its body, the lower half of the statue is covered with fish scales, reminding one of the Mesopotamian deity Oannes, who conveyed special knowledge to mankind. This huge monolith was unknown until uncovered during Bennett's excavations in 1934. It has since been carried to La Paz and erected in a plaza (Mason, 1968).

Beside the much larger stone monolith, Bennett found a bearded statue. It has large round eyes, a straight narrow nose and an oval mouth, and it stands about seven feet tall. Rays of lightning are carved on the forehead, and unidentifiable animals are carved around the head. His arms are crossed over his ankle-length tunic, which is decorated with pumas around the hem. Serpents ascend on each side, reminding one of Quetzalcoatl, the culture-hero of the Toltecs.

The conventional practice of dating Tiahuanacu is based on carbon dating of numerous examples of pottery, small statues and other artefacts. An obvious fact ignored by orthodox archaeologists is that it is common for late arrivals to be awed by old ruins (attributing their origin to gods or giants) and then to incorporate those very images in their own pottery, textiles, etc. It may be a colossal mistake to fuse the cultures into one, skewing dates of the megalithic stone ruins to match those of later artefacts.

As a result of these problems, several major archaeological authorities describe the dating of the buildings and sculptures at Tiahuanacu as "insecure" (Mason, 1968; Willey, 1971; *et al.*). Stone ruins cannot be carbon dated. The only way that stone buildings can be dated is if, perchance, organic material happened to be mashed beneath stones during the actual erection of the edifices. Carbon-dating techniques may then be applied to such recovered organic material.

The fact that some "renegades" do not apply carbon dates to the stone ruins themselves is no indication that years of archaeological work is being ignored, as some complain. It is the depiction of *extinct Pleistocene animals* (not being addressed by most experts) which prohibits the acceptance of the carbon dates usually applied to the megalithic constructions. How can an animal which has never been seen be carved onto monuments? In addition, there are geological features which are not being faced—and one dare not even mention archaeoastronomy to archaeologists.

The most important edifice for dating purposes is the Kalasasaya ("Place of Vertical Stones"). Rather than being in alignment with the cardinal directions, it is slightly offset to the northwest. In its southwestern corner is a large statue called "The Idol", opposite the Sun Gate. Knowing that many ancient cultures incorporated astronomical alignments into the orientation of their most sacred buildings, the orientation of the Kalasasaya caught the attention of engineer Professor Arturo Posnansky who was studying the ruins (Hancock, 1995).

Since the Earth is tilted on its axis in respect to the plane of the solar system, the resulting angle is known as the *obliquity of the ecliptic*. At present, our Earth is tilted at an angle of 23 degrees 17 minutes—but it was not always so. Earth's axis oscillates between 22

degrees 1.0 minute to an extreme of 24 degrees 5.0 minutes. One complete oscillation takes roughly 41,000 years to complete. Posnansky had a number of astronomers from highly respected institutions check this theory, and they concluded that the Kalasasaya Temple indicated a tilt amounting to 23 degrees 8.0 minutes 48 seconds (Posnansky, 1945). This seemed to point to a date circa 15,000 BC. Of course, the professional archaeologists went into orbit!

Such a date would explain the depiction of animals that have been extinct for 12,000 years. The fact that Tiahuanacu appears to include piers and docking areas for hundreds of ships, yet is now elevated to an altitude of over two miles above sea level, has caused some archaeologists to seek another purpose for these features.

Finally, the transportation of 400-ton stones over immense distances could only have been accomplished by a civilisation (hitherto unknown) with advanced technologies.

It's not out of the question that a worldwide cataclysm could create mountains almost overnight in certain places, thereby raising a seaport high above its original level. Salty Lake Titicaca itself seems to be a

**...the transportation of 400-ton stones over immense distances could only have been accomplished by a civilisation (hitherto unknown) with advanced technologies.**

slowly dissipating remnant of the ocean, its shoreline now lying some 12 miles distant from the docks. Could this same geological upheaval have caused the Pleistocene extinction, ended the ice age, decimated Palaeolithic mankind and sunk Atlantis around 12,000 years ago?

### **Cuzco and Sacsahuaman**

Cuzco was the capital city of the Inca Empire, and Sacsahuaman seems to have been a place of refuge to which the Inca people retreated when attacked. The Inca Empire had only been in existence about 100 years or so before the Spanish conquest. So, what could these ruins have to do with Atlantis?

Even the non-professional visitor to any of these ruins will notice something which jumps out at first glance: the beautiful ashlar blocks for which the Incas are so well known are always sitting directly atop much larger stones, known as polygonal-style (also called megalithic) constructions. Most archaeologists, American and Peruvian alike, agree that while the evenly laid ashlars are classical Inca, the larger, more complex, polygonal blocks belong to an earlier, undated, "megalithic" culture. The archaeological dating of the earlier megalithic ruins "hangs in the air" (Mason, 1968).

It is the "megalithic" parts of the ruins which are of interest here. They have never been dated, and therefore no one knows how long they had been there before the Johnny-come-lately Incas exploited their existence to their own advantage. Most of the Inca-style ashlars weigh two to three tons. The largest megalithic stone at Sacsahuaman weighs in the neighbourhood of 300 tons! A human being is dwarfed standing near one of these Cyclopean giants.

Another impressive fact concerning the megalithic style is that instead of cutting the stone entirely regularly in shape, as in the Inca style, the megalithic builders chose to use very irregular shapes. Incredibly, one very large stone in particular has a total of 32 different angles, yet it fits the stones around it so perfectly on every side that a knife blade cannot be inserted into the joints (Mason, 1968). And it doesn't look as if mortar has been used.

All the stones are slightly convex, giving them a slightly bulging appearance, and they are bevelled at the edges, so they are not rough fieldstones. They have been precision-cut and shaped to fit perfectly at all sorts of angles, and for a very good reason. The Andes region is known for its numerous earthquakes, and these odd-shaped blocks make the walls virtually

earthquake proof, even though many are 60 feet (that's six storeys) high. Again, we have the same mysterious characteristics of massive stone quarrying and transportation (Hemming, 1979).

We also have the same problems in understanding how anyone without cranes and pulleys, etc. (in other words, modern technology) could shape and lay these blocks, often weighing over 100 tons, with such precision (Mason, 1968). Certainly the technology used is beyond that of any South American culture known to us.

### **The Lixus Ruins**

Another interesting ruin is that of Lixus in Morocco, North Africa. Lixus has been largely ignored by archaeologists; only about 20 per cent of the ruins have been excavated. There are no overseeing personnel or facilities anywhere nearby, and tourists are allowed to roam around the premises at will, picnicking, scattering trash and picking up anything they see that looks interesting to them, which is a deplorable situation.

Located between Rabat and Tangier, and perched on a hilltop overlooking the Atlantic Ocean near the meanders of the Loukkos River, Lixus was once a prehistoric seaport. The Carthaginians, building on top of ancient megalithic walls and foundations, occupied this port around 800 BC, but

work needs to be done to determine the date of the older ruins which already occupied this site.

According to Dr Gerald S. Hawkins of the Smithsonian Astronomical Observatory, the lower (megalithic) walls are carefully aligned with the Sun. In fact, the earlier name for the city was Maqom Shemesh, or "City of the Sun" (Hawkins, 1973). The Norwegian explorer Thor Heyerdahl noticed the marked similarity of the polygonal style of masonry with that of Peru and Bolivia. This same style of masonry can also be found in Andalusia in southern Spain and among submarine ruins along both coastlines of the Atlantic.

Stones of various shapes (polygonal) are mixed in with more regular ones, which is one of the masonry techniques used by the ancients to guard against earthquakes. It seems that the jigsaw-puzzle arrangement of the stones breaks up the effect of seismic waves coming from below (each sized stone would respond only to its own frequency), with the result that such walls are all but earthquake proof.

**Lixus has been largely ignored by archaeologists; only about 20 per cent of the ruins have been excavated.**

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## A WATER FUEL CELL BREAKTHROUGH

by Stephen Jones © 2009

Some years ago, while searching the Internet, I came across a device that was claimed to be a free-energy cell, known as "the Joe Cell". Being sceptical, I read with a grin; and the more I read, the more I became intrigued. It was claimed that a person was trying to improve the efficiency of his car engine with some kind of water/steam cell when he stumbled across a configuration that defied the laws of physics. Although he openly stated that he did not know how the cell worked, it did work. As he shared his findings with others, interest in this new phenomenon grew.

The more I looked for information, the more I found. People had written books and made movies on these cells. Many claimed to have had success in running their vehicle on the mysterious energy coming from the cell. Some called it "orgone energy" and others "zero-point energy". An entire industry and culture had grown around it, and yet so much seemed vague and unknown.

Despite being a sceptic, I decided to build a cell of my own. Little did I know it would become an interest that would span years and present challenges I had never imagined.

I started with a basic cell configuration that was presented on the Internet. I purchased components from a local steel supplier and a local hardware store. After going through the charging stages as explained in a book I had purchased, I fitted the cell to my vehicle and in honesty did not expect the engine to run on it; after

all, it would have been running on vapours from water.

It was claimed that when the cell is on your engine, you gradually advance the spark timing to around 70 degrees before top dead centre (TDC). Any mechanic will tell you that your car is not going to idle very well, if at all, with the timing at 70 degrees. In the case of my vehicle, I could not physically turn the distributor far enough but I could turn it enough to know that the engine should have been pinging and running rough. The facts are that it was not.

The other claim was that the engine could idle at a much lower speed than was normally possible, and it did. I was able to get the engine to run at only a couple of hundred revolutions per minute (RPM) and as smoothly as it was at normal idle speed. Now I was moving from being sceptical to amazed.

I also noted an increase in power. This was never measured in any scientific manner, as I did not have the ability to do so.

I often commuted up a long and very steep hill and would always hold up traffic as I struggled to get up the hill in second gear. When the cell was on the vehicle, I went up the hill at the speed limit in third gear with ease. I should point out that the petrol was also on. The information I had read suggested that you run the vehicle on petrol and periodically adjust the timing until the vehicle can run on the cell alone. I had not got to that point.

The effects of the cell were not consistent, the idle speed of the engine was constantly changing, and my cell design and installation were far from what I had read to be

recommended by others.

So, with many years of experience in the design and manufacture of computer control and interfacing equipment, I decided to build a device that would monitor my cell and control its charging. From that concept came a purpose-built interface and dedicated control software that ran my cell. This paved the way to my understanding of what was going on inside the cell and what was needed to make it work more consistently.

I began to meet people involved in cells who kept asking me the same questions, so I decided to write a book and share what I knew.

In this book, I explain how I built the cell and how to process any water, even tap water, to the point where it is ideal for use in a cell. I also explain how to condition a cell for charging and how to charge it; the process of how I modified my engine's ignition timing and electrical system; my latest cell designs and configurations; and the latest methods of connecting a cell to an engine.

### How the Engine Works

First I must clarify that although it states "Free Energy" on the front cover, this only refers to the fact that you do not pay for the energy. The engine still uses energy, and you do not get out more than you put in, therefore it complies with Faraday's laws. The energy is simply derived in a unique way from the components of the air going into the engine.

In the same way that it takes less energy to refine crude oil than is available from petrol, it also takes less energy to create an environment that permits the engine to run on air than is available from the air.

# NEWSCIENCE NEWSCIENCE NEWSCIENCE

## The Water Fuel Cell Explained

The cell is the device that extracts the energy from the water. For this part of the explanation, let us consider the first stage in the extraction to be principally electrolysis, where a voltage is applied to two metal plates immersed in water and a current flows. From conventional science we would expect this action to cause the release of hydrogen and oxygen gases, and it is so.

The plate connected to the positive voltage produces oxygen gas, and the plate connected to the negative voltage produces hydrogen gas. This is the point where I believe a unique action takes place in the water fuel cell. For those who think the cell is just making hydrogen, we are using so little current and at such a low voltage that Faraday's law tells us we could not make enough hydrogen to run the smallest engine. The oxygen gas is released into the area above the water and serves little purpose. The hydrogen gas, however, is of interest to us.

When I say hydrogen, I should point out that I do not only refer to hydrogen as expressed in the normal H<sub>2</sub>O formula; we are more interested in heavy hydrogen (deuterium, found in all natural waters) and also pure hydrogen.

As stated, at the positive plate in the process of electrolysis we generate oxygen gas, and therefore at a molecular level there must be an instant where the remaining molecule against the plate consists of hydrogen. We would assume that the hydrogen molecule travels through the water to the other plate where the hydrogen gas is being

produced. I do not believe this to be the case for all of the hydrogen, especially the heavy hydrogen and possibly pure hydrogen.

It became apparent to me that a small portion of these momentarily unattached hydrogen molecules might in fact be attracted by the applied voltage and migrate into the structure of the metal itself.

Additionally, the nucleus of deuterium, called a deuteron, contains a neutron, whereas the common hydrogen nucleus contains no neutrons. I believe the neutron may play a part in the electrical attraction and migration of deuteron



Stephen Jones's water fuel cell experimental set-up

and hydrogen into metal.

In the preparation of the cell's water we electrically charge the water, giving it a strong negative charge, whereas all natural water has a positive charge. This further promotes the interaction and migration into the metal and permits the water to act as a partial barrier, resisting the hydrogen's attempts to return to a natural state.

At all times, the hydrogen/deuterium is trying to return to a natural state and, given the opportunity, will flow to a negative potential. Therefore it should be considered that there is an optimum

balance where we have suitable electrical potential, be it by the application of voltage across the cell or electrically charged water within the cell, to stop this natural return.

When we talk of an electrical attraction, we are ultimately talking of an attraction to the electrical source. I believe the hydrogen/deuterium enters the metal and migrates through the metal's crystalline structure toward the point where the electrical charge is applied. It is through this attraction that we are able to control and direct the molecules from the cell and into the engine.

By applying a suitable voltage to the engine end of our molecular conduit, we attract the hydrogen/deuterium molecules toward the engine. Then by having a gap at the engine end of the connecting conduit, this is of a sufficient distance to stop conventional electrical current flow entering into the engine but is not great enough to stop the hydrogen/deuterium from crossing to the negative and entering the crystalline structure on the engine.

Although the aforementioned possibly satisfies the explanation of the process, I also believe the cell produces a mild torsion field. This field may well play an additional part in the process. From the Einstein–Cartan theory of 1920, a torsion field is believed to be a rotating energy field that is at an angle to a magnetic field. Torsion fields are said to have speeds of one billion times the speed of light and travel through anything. Although I do not know what part the torsion field plays in the overall process, it may be apparent in the many phenomena experienced when working with these cells.

Through the initial process of electrolysis, we cause a hydrogen/deuterium doping of the metal that forms the cell. We then attract these molecules to the engine by a voltage and provide a path for them to attempt to return to a natural state by entering the crystalline structure of the metal in the engine. The hydrogen/deuterium may not be consumed in the process of running the engine; it simply provides an environment that facilitates the nitrogen/oxygen (air) fuel mix.

To maintain the condition, we periodically replace the water in the cell with freshly charged water. The interval of maintenance has not been determined but is thought to be many months or even years.

## Implosion and Explosion Phases

Having entered the crystalline structure of the engine, a relatively slow process of doping occurs until there is a presence of hydrogen/deuterium molecules on all surfaces of the engine, especially those of the intake manifold and combustion chamber(s). I say "relatively slow" due to the fact that the effects of the cell can take hours to occur in an alloy engine and longer in an iron engine. Once this has happened, I believe that when air is compressed to as little as two atmospheres and ignited in the encapsulation of a hydrogen/deuterium doped chamber, a unique reaction occurs that allows the nitrogen to become our primary fuel in what is initially an endothermic reaction.

Endothermic reactions are implosions that draw everything in, including the heat of the reaction itself. An endothermic reaction is a well-documented phenomenon.

When an internal combustion engine is running on a fuel that combusts (petrol or LPG, etc.), we ignite the fuel when the piston is at

the top and the resultant explosion forces the piston downward.

With the new phenomenon, we start with an implosion. If that were not the case, there'd be no way that an engine could idle with a spark advanced to 70 degrees. I believe the implosion not only causes the piston to be drawn up but the valves to leak and more air to be drawn into the combustion chamber. I also believe this conclusion to be further supported by the fact that an engine running on a cell appears to have little or no compression when pull-starting it and why it can idle at such a low speed. I have had my engine running smoothly at only a few

**This dual process of implosion and explosion may also explain the increase in power that has been widely reported.**

revolutions per minute; the compression stroke alone should make this impossible under normal conditions.

I believe the implosion phase of the cycle only lasts a few degrees; then, as the piston continues upward, compressing the remainder of the air in the chamber, some of the energy of the endothermic implosion, including some of the heat, is released, and at about the top of the stroke an explosion occurs. This explosion may be assisted by the presence of the hydrogen/deuterium doping of the combustion chamber. It should also be considered that the remaining atmosphere in the chamber may have an altered ratio of nitrogen and oxygen as a result of the initial endothermic reaction.

Also supporting my theory is the fact that an endothermic reaction draws in or consumes the heat. I and many others have found that engines running on a water fuel cell run cold. In my case, it's simply warm, but I have read and heard of occasions where frost has formed on components of the engine and even the exhaust.

This dual process of implosion and explosion may also explain the increase in power that has been widely reported. Power variations must also be related to the different energies obtained from the atmospheric fuel.

It is important to note that for the successful operation of an engine exhibiting these phenomena requires all surfaces to be doped with the hydrogen/deuterium, and in some instances a voltage needs to be applied to the turning crankshaft to promote the initial migration from the cylinder walls to the pistons. This is done by applying a voltage and arcing the turning crankshaft pulley or flywheel for a very short period of time.

This procedure can be very dangerous, and serious injury or death can occur should you become entangled or should the object used become a projectile if caught by a moving surface of the engine. Only ever arc on a surface turning away from you, and be cautious of all moving parts including electric or thermal fans that may start without notice. The only reason for arcing the turning crankshaft is that it reduces the possibility of damage to the engine's bearings and cylinder bores by the current flow. ∞

## About the Author:

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# EXPLORING THE ORBS PHENOMENON

*Luminous spheres are increasingly being photographed with digital cameras and are often observed to have similarities with plasma balls and to interact with human consciousness.*

by John Pickering  
© February 2009

Website:  
<http://www.lights2beyond.com>

In July 2008 my partner Katie and I, along with other researchers and presenters from around the world, joined together in Glastonbury, England, for a conference entitled "Orbs: Interacting with Other Realms". Earlier in the year we had made a presentation in Palm Springs, USA, on the same subject and were amazed at the positive interest now shown in this phenomenon from all strata of society. Orbs have caught the imagination of people around the planet. Whatever we may think about them, orbs are an undeniable phenomenon. Thousands of people worldwide are now photographing these strange circles of light. But what are they really?

For the past two years, we've had a full schedule of conference presentations and interviews on the subject of orbs, but five years ago neither of us had any idea of the effect orbs would have on our own lives or on the lives of thousands of others around the globe.

Our own acquaintance with orbs began in 2002, when one afternoon we happened to photograph a strange ball of light against a tree, after which orbs began to appear regularly on our photographs. We'd had a digital camera for two years and had never before taken anything resembling an orb, so we set out to discover what was happening. After four years of experiences and hundreds of hours of photographing and researching orbs and related phenomena, we produced our book *Beyond Photography* (published by O Books, December 2006). Since publication, we have received many hundreds of emails, photographs and communications on orbs from people all across the world.

When we began to photograph and study orbs, we really had no preconceptions as to what they were. Orbs ranged from the very large to the very small. Some looked like faded concentric-ring patterns of a gossamer thinness, while others were brightly coloured or opalescent. As we became more familiar with the phenomenon, we divided it into two distinct categories:

1. **Orbs**—the disc-like images which appear on photos but which are mostly invisible to the naked eye.
2. **Luminosities**—moving luminous spheres which are often visible. Sometimes small, sometimes large, they can be picked up by camcorders, using night vision, as fast-moving objects.

For the purposes of this article, I use the term "orbs" to refer to both aspects of the phenomenon.

## Investigating the realm of orbs

Let us take a rational look at the orbs phenomenon. Here, a few questions may be helpful:

- **Can orbs be adequately explained by normal phenomena?**

Sunlight, flash feedback, raindrops and small reflective particles in the

air can all, at times, under certain conditions, show up on photographs as circular or orb-like images. However, the critical point here is that they do not do so consistently or in the vast majority of cases. Undoubtedly some orb-like images *are* due to natural effects. But it does not take more than careful observation and common sense to realise which photo-anomalies are the result of ordinary events. In that context, what I define hereafter as an "orb" is that phenomenon which cannot be adequately explained in such terms.

• **How do we know that orbs are not the result of digital processing faults?**

A widespread misconception is that orbs can only be photographed with digital cameras. This is a complete fallacy. Orbs have been photographed with all kinds of cameras. Indeed, we and many others have SLR (single-lens reflex) film negatives of photos taken years ago on which orbs can clearly be seen.

Another popular misconception is that orbs are the result of CMOS (complementary metal-oxide semiconductor) errors in digital cameras. This is completely unfounded but is so pervasive that four key facts are worth noting here:

1. No one has ever been able to explain this anomaly in technical terms.

2. People who have used digital cameras for years have never taken a photo of an orb.

3. Orbs have been regularly photographed by film cameras.

4. Orb-like images have been recorded since the early days of photography.

Realistically, the fanciful notion that the very same digital error affects every make of camera in the entire world so that they *all* photograph orbs is about as unlikely as the Moon being made of green cheese!

Whilst digital cameras see further into the infrared spectrum than do film cameras, they merely translate higher-wavelength infrared colours into visual-spectrum wavelengths. All cameras, both film and digital, only reproduce colours in the visual spectrum.

The simple truth is that the proliferation of digital technology has meant that more people are taking photographs than ever before, so this is why the majority of orb photos today are taken with digital cameras.

But this does not categorically mean that orbs are digital artefacts or errors. In photographs that we and others have taken, orbs can clearly be seen *behind*

elements in an image. The clear inference here is that anything behind an object in a photograph is part of the world outside the camera and is not a digital processing anomaly.

• **If orbs really are paranormal, how is it possible to photograph them?**

Anything and everything which we can normally see or photograph falls within the visible-light wavelength of 4,000 to 7,000 angstroms, between ultraviolet and infrared in the electromagnetic spectrum (see fig. 1).

Wavelengths too short for us to see are bluer than blue; this is ultraviolet light. Wavelengths too long for us to see are redder than red; this is infrared light.

Our graph of the electromagnetic spectrum gives some small indication of the comparatively narrow band of what we can actually see, and yet even that is a bit like putting your thumb over a pocket atlas map of

Australia. The reality is vastly different to the representation.

In terms of frequencies, the visual spectrum is huge. For example, red light is emitted at 428,570 billion cycles per second, so every time you look at red light your eye receives over 400 billion waves every second! For anything to be seen or photographed, it has to be—if only for a fraction of a second—part of our visual spectrum. Therefore, it is part of the normal world.

This raises the question as

to whether any photograph of ghosts, UFOs, orbs, whatever, can truly be said to be "paranormal" because, at the very moment we photograph them, they are already part of normal physical reality. It calls into question the whole idea of the so-called "supernatural" as opposed to the "natural" world. However, in the universe currently being revealed by quantum physics, such dualistic distinctions are rapidly becoming as irrelevant as Ptolemy's Earth-centred cosmology.

As to whether or not phenomena such as orbs are generated from, or by, an aspect of Reality beyond our normal level of perception, this is another matter entirely. We can certainly photograph these visual manifestations as orbs, but whatever it is that generates this visual interface with our reality is beyond detection by methods currently available to us. In that sense, orbs may legitimately be considered to be a "paranormal phenomenon"—whereas the actual act of photographing orbs occurs within the constraints of normal reality. Orbs, like the electromagnetic spectrum in which they manifest, have many more levels than meet the eye.

**We can certainly photograph these visual manifestations as orbs, but whatever it is that generates this visual interface with our reality is beyond detection...**

• **What is the unique, distinguishing fact about orbs?**

The one incontrovertible fact about orbs is the consistent ubiquity of the phenomenon. This is the case across all types and makes of camera and video camcorder, thus contradicting the preposterous notion that orbs are exclusively the result of digital CMOS errors.

In order to expand our enquiry, here is a short list of some common aspects of the orb phenomenon.

1. As mentioned above, the most notable aspect of orbs is their ubiquity. Thousands of individuals all over the world are photographing the same phenomenon with different cameras in widely different conditions.

2. The vast majority of orbs cannot be adequately explained in prosaic terms; that is, they are not dust, moisture, the planet Venus, weather balloons, etc.

3. There is evidence of a definite interactive aspect to the orbs phenomenon, often relating to people as specific individuals.

4. In psychological terms, the circular image of the orb recalls the archetypal symbol of Unity or Oneness. Coincidentally, this inherent symbolism is appearing at a time when the concept of Oneness is critically meaningful to us in planetary terms and is also particularly significant in light of the new perspective of a connective quantum reality underpinning our physical universe.

5. Orbs cross religious and cultural boundaries. All over the planet, there is increasing interest in orbs among people of all (or no) beliefs.

6. Incidents of synchronicity are regularly reported as being experienced by those who photograph orbs.

7. Many individuals from a variety of professional backgrounds report both purpose and intentionality associated with the visual phenomenon.

All the above points suggest an existent consciousness inherent in the orbs phenomenon.

**Speculation on orb manifestations**

So, what are orbs? Ideas vary according to individual experiences and beliefs, but, in the context of all the above observations, my suggestion would be that *orbs are the visual indicators of another aspect of Reality—perhaps even evidence for the existence of an intelligent "other" consciousness.*

Before continuing with this proposition, I must point out that this is my *opinion*. I offer it as informed opinion, but, nevertheless, it is *not* a fact. The reason why I stress this is because with orbs, as much as with any other paranormal subject, we inevitably encounter sceptics or others who either do not know or deliberately blur the distinction between "fact" and "opinion". We have to be aware that in the mysterious world of unexplained phenomena there are far more opinions than there are facts. And that is a fact.

Orbs can be different things to different people, depending on their point of view. The meaning of orbs to individuals can be as varied as the people who photograph them.

What does this tell us? I suggest it indicates that we are dealing with a generalised visual phenomenon which is non-specific and which responds to individual human consciousness. In that context, we cannot with any degree of certainty be too prescriptive about proclaiming that orbs are definitely angels or faeries, etc. They may be anything we believe them to be—but equally they may not be. There is no solid evidence available at the moment by which to define orbs exclusively as any of the popular celestial or psychic entities familiar to us. This is partly what has informed my proposition.

In further considering this, let us look at two key aspects of the orbs phenomenon: the ubiquity of the photographable manifestations, and personal interpretation of orbs as they relate to us as individuals. I consider the second point here.

Essentially, all experience of Reality is subjectively perceived and interpreted. This is particularly so in the case of

paranormal or extraordinary phenomena. Generally, we are all inclined to interpret such phenomena according to our individual preconceptions or experiences. In this sense, it is easy to see why some may believe orbs to be angels or elemental spirits whilst others may regard orbs as unborn or departed spirits.

According to the many cases we have studied, it seems that in general, when someone begins to photograph them, orbs are soon seen as having a particular meaning for that individual, but this may be different to the meanings derived by other individuals. This could be due to the nature of individuated consciousness itself, to the orb phenomenon or to a

**...in the context of all the above observations, my suggestion would be that orbs are the visual indicators of another aspect of Reality—perhaps even evidence for the existence of an intelligent "other" consciousness.**

combination of these and other factors. At the moment, we simply do not know. What is important here is not our individual beliefs that orbs are angels or spirits, etc., but the fact of a contemporaneous phenomenon which interacts with human consciousness.

### **Purposeful interaction**

To illustrate this aspect, here is an example from personal experience. Early on in our acquaintance with orbs, for many months Katie and I could only photograph them in one room of the house. We just couldn't get them anywhere else, indoors or outside, no matter what we tried.

One evening we had family over for dinner and amongst them were two ardent sceptics, both of whom were convinced that our orbs were the result of

reflections from the large mirror in that room. They were keen to test this theory and we were happy to let them. After dinner, we took down the mirror and we all took photographs with three different cameras. No orbs. The sceptics were delighted. Here was the final proof: no mirror, no orbs!

However, Katie and I, knowing the phenomenon a little better, suggested that we should all try another few shots. This time we got three or four orbs. Katie's brother, who was the main sceptic at the time (though no longer, it must be added), stared at the images and almost grudgingly said: "Yes, well, I'd be more impressed if you got a whole roomful..." Seconds later, on the very next shot, there was literally a whole roomful of orbs! This was such an unequivocal response that even our sceptics got goosebumps! But most important was the fact that on no subsequent shots that evening did any of us photograph even a single orb. It was almost as if something (or someone) had made its statement and that was that.

Since then, we have experienced many other incidents of apparently deliberate responses by this phenomenon. Many people all across the world have also reported similar tales of intentional or purposeful behaviour by orbs. In this context it seems that the photographic images, like green shoots in Spring, are merely the visual tip of other, deeper, processes at work.

Further to this, and particularly relevant here, we have seen one of the most impressive pieces of moving footage of orbs/luminosities, taken by someone (we shall call him Peter) who at the time did not believe

that the phenomenon was anything but dust, moisture or reflections, etc.

One weekend, Peter and his partner Sally went to stay at a hotel in the Lake District. Sally, who had become interested in psychic phenomena and in fact was evidencing psychic abilities herself, was taking photographs of orbs and also claiming to be able to see them. Peter did not believe any of this but knew that his partner did, so although he could not summon up much enthusiasm he did try to be understanding. When his partner said that she could see orbs in their hotel room, he had to point out that he could see nothing, because, in reality, there was nothing there except perhaps an overactive imagination. Sally responded by saying that she would ask the orbs to become visible so that Peter could also see them. After concentrating for a couple of minutes, she

exclaimed: "One is going to come out of the wall now. Quick, take a shot now!"

All Peter had at hand was his mobile phone. The resulting video footage shows a luminous ball of light emerging from the wall and growing larger as it moves towards the camera in a curving arc to disappear over Peter's left shoulder. It was a startling occurrence for the two who had witnessed it. Everyone who has viewed this film has been equally

impressed. Peter's mobile phone video clearly demonstrates that this phenomenon is responsive, interactive and purposeful.

However, this is not unusual. Many other people we know are also able to be specific about where orbs/luminosities will appear. We know of many cases in which similar luminous spheres (we call them *luminosities*) have been recorded appearing or moving as predicted or requested.

Scientists and others known to us have clocked orbs travelling at over 200 mph (~322 kph) between two points. Dust doesn't travel that quickly; nor does it respond to requests.

For me, the observed interactive and purposeful nature of this phenomenon indicates the probability of consciousness. What is happening here goes far beyond the photographic images. This, of course, is not something recognised by any kind of orthodoxy.

### **Plasma theory and orbs**

As stated above, there is evidence to suggest that orbs have a relationship to consciousness, but, when it comes to the ubiquity of the phenomenon and the actual physical nature of the manifestations, there is

**Seconds later, on the very next shot, there was literally a whole roomful of orbs! This was such an unequivocal response that even our sceptics got goosebumps!**

one very pertinent question we need to ask in the context of our enquiry: when we photograph an orb, what exactly are we photographing? If not mundane objects or ghosts, angels or spirit beings, what is it that is appearing on our photographs? Is there some reasonable theory as to the likely physical properties of orbs which makes them photographable in the first place?

Here, as with most other areas of enquiry, the best tools we have are an open mind and a critical faculty. Wonder must be balanced by reason, and here it is useful to bear in mind the basic principle of rational enquiry: that any theory is to be held only until empirical evidence outweighs its credibility; then it is either modified or discarded. To discover the truth of anything, it is important that our theories or beliefs are a dynamic springboard for investigation and do not become a chain to restrict progress. We must always allow for the possibility of other, more credible, perspectives.

Out of the small handful of theories as to the physical properties of orbs, the one theory which seems, from my point of view, to match most elements of the phenomenon is the notion that orbs may be *plasma concentrations* akin to ball lightning.

Ball lightning is well recorded all across the world and the most widely credible explanation for it, so far, seems to be plasma. According to the textbook definition, plasma is an electrically neutral, highly ionised gas composed of ions, electrons and neutral particles. The air around us always contains both uncharged molecules and positively charged molecules of gases.

Normally these positively charged particles, or ions, are widely interspersed, but during an electrical storm, for instance, the number of ions may suddenly increase to form a spontaneous cloud of electrified particles whose reactive motions generate a self-illuminating glow. Ball lightning is usually seen as a luminous sphere, ranging in diameter from a few inches to a few feet (or a few centimetres to a metre or more).

These spheres are variously coloured and described as gliding, hovering, floating and drifting. They are also reported as being able to change shape, and have been witnessed performing almost instantaneous directional changes and sudden stops. These kinds of

manoeuvres would seem to indicate the properties of essentially weightless, electrically propelled plasmas—all characteristics which have been observed and recorded by many people who are studying orb phenomena.

The basic premise of the plasma theory of orbs is that orbs are complex plasma structures which may become visible when exposed to electromagnetic energy or large quantities of photons such as are emitted by a camera flash.

The instant you fire your flash, electrons in any facing plasma concentration move instantaneously to a higher energy orbit when struck by the photons from the flash. When these now highly charged electrons return to their original orbit, new photons (light) are instantly released.

This phenomenon is known as *luminescence*. All this happens within microseconds, and the luminescent plasmas are captured as orbs by the fortunate photographer. In terms of a purely physical explanation, this seems reasonably credible.

#### **Small transient lights**

What the plasma idea does not explain, however, is the aspect of conscious purpose exhibited by orbs and experienced by a vast number of people.

As Katie and I have witnessed, orbs respond to individual humans, exhibit purposeful behaviour and often manifest on request to be recorded on camera or filmed on video as moving luminosities.

Something which may have a bearing on both the plasma notion and the conscious aspect of orbs is a little-understood phenomenon which Katie had

been seeing for years—a phenomenon that we call *small transient lights*. We discovered that when she sees these tiny lights, if we take a shot in the same direction we can actually photograph them as orbs. I touch on this only briefly here, but it is not unique to Katie; many healers and psychics are familiar with this phenomenon.

Large numbers of these little lights have often been reported as common during healing sessions or times of meditation.

Some refer to them as *prana*, whilst others know them as the visual effect of *ch'i* energy. This merits further study and suggests to me that, to understand

**The instant you fire your flash, electrons in any facing plasma concentration move instantaneously to a higher energy orbit when struck by the photons from the flash.**

**Continued on page 82**



# THE STARCHILD SKULL TEN YEARS ON

*Having been put through different stages of genetic testing over the last decade, the Starchild skull will soon have its genome mapped to determine whether or not it has alien heritage.*

**by Lloyd Pye**  
© February 2009

Websites:  
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<http://www.starchildproject.com>

## Examining the Skull

As these words are being written, it is almost exactly 10 years to the day since I first laid eyes on the Starchild skull. It was February 18, 1999. I will never forget the breathtaking moment when I first held it in my hands and immediately knew something was seriously "wrong" with it. It was too light—much too light for a typical human skull, even one with the slightly reduced size of an average twelve-year-old. It felt more like a dried gourd than a skull, and at first glance I couldn't see anything normal about it. It was just plain weird.

Its owners, Melanie and Ray Young of El Paso, Texas, had invited me to come there specifically to examine it and tell them what I thought. I had some expertise regarding skulls due to my extensive research into the truth about human origins, much of which I based on contrasting the many differences between humans and so-called "pre-human" skulls. But I soon realised that Melanie knew even more than I knew. For many years she had been a neonatal nurse, seeing a wide range of human skull deformities and keenly aware of the technical aspects of what went into creating such aberrations.

The word that came to mind was "impossible", yet there it was, cradled in my hands, so I had to settle for "incredible". The eye sockets were wildly different from normal. My father was an optometrist, so I knew about eyes. The neck opening, the foramen magnum, was well out of place. The lower rear area was without the small bump on every human's head (or chimp's or gorilla's, for that matter); it had noinion. The entire rear area of its head was flat, but there was no evidence of manipulated flattening. No cradleboarding caused that flatness; it had grown that way, as had the eyes, neck and inion.

A crease-like dent in the upper rear of the head clinched it for me, just as it had for Melanie and Ray. Humans do not exhibit that, no question. Humans are rounded in that area. However, something else does have such a crease, something familiar to everyone in the field of UFO–alien research.

The so-called "Grey" aliens are reputed to have such a dent in the top rear of their heads, giving them a distinctive "heart" shape—a dented crown and a bulbous cranium above a small upper face that narrows to a very small lower face.

I held in my hand the detached piece of upper right jaw (maxilla), found separately from the cranium (which was also minus its entire lower jaw). It was the size of an infant's, if that large. This being clearly had an extra-small lower face, and the attachment points for its chewing muscles bore that out, being greatly reduced from where they normally are on a human.

I realised I might possibly be holding the preserved skull of a Grey alien. Anyone with an understanding of basic human anatomy and of how Greys

are supposed to look would make the same staggering connection. They'd have no choice.

It was all I could do to hold it steady in my hands as I looked at Melanie and Ray and told them what I thought, which in so many words was that it could possibly be the skull of a Grey. It was so incredibly far from normal that such a wild speculation was conceivable. Nonetheless, I couldn't initially make myself believe it was, in fact, such a stupendous discovery. I urged them to assume it was a bizarre deformity and to maintain that view until they secured solid proof to the contrary. To emphasize my doubt, I pegged the chances at 80 per cent deformity and 20 per cent alien, but that 20 per cent would remain huge until they could prove it belonged on the 80 per cent side of the ledger. On hearing that, they asked if I would undertake to establish scientifically their weird skull's heritage, whether human or alien, which began my quest that continues to this day.

Now, however, I can assure all fans of this amazing relic that we are at last closing in on a conclusive determination of its genetic origin. If all goes as scheduled, in 2009 the skull's DNA will be analysed with a new technique that was unavailable in 2003 when its DNA was recovered and analysed. This new test will get to the heart of what makes the Starchild skull so special, and it will comprise the scientific core of what should prove beyond doubt that the skull is not entirely human.

Before I discuss the revolutionary test that will be conducted this year, let's revisit what happened in 2003; this is necessary to understand why the Starchild stands on the threshold of making history as big as history can be made.

### The First Five Years

Anyone interested in following the ins and outs and ups and downs of the various scientific tests the Starchild was put through in its early years can acquire my book *The Starchild Skull* (2007). It recounts the major events that occurred during those years—from the surprising radiographic X-rays, the reassuring CAT-scan results and the carbon-14 dating of death at 900 years ago, to the disaster of an initial forensic DNA test and the stunning results of a clandestine analysis with a scanning electron microscope...they're all there in full detail and don't need to be reviewed here.

The bottom line is that at every turn, after every valid test, the results kept shifting my initial percentage of doubt away from "human deformity" toward an "alien" interpretation.

In 1999 there were only half a dozen labs that could analyse "ancient" DNA, which was defined as older than 50 years. At 900 years since death, the Starchild more than qualified. However, among those half a dozen labs, none would touch the Starchild with the proverbial 10-foot pole. They wanted nothing to do with a skull that was being touted as potentially alien. "Doing that," one wrote to me, "would be bad for business." Facing such a stonewall, I decided to take a chance on a much-less-controlled forensic test designed for DNA less than 50 years old. It was a complete botch that left us in the lurch until 2003.

By 2003, when we were finally able to arrange a comprehensive and reliable test for the Starchild's ancient DNA, my thinking was that we were almost certainly looking at an alien skull. I had swung completely around and now believed it was a percentage split of 80 per cent alien and 20 per cent deformity, which probably was being conservative. I realised that an alien skull's falling into my hands was comparable to the Dead Sea Scrolls being found by a goatherd. Nonetheless, he did what he did and I was doing what I was doing, finding out what I was finding out, and I knew what the results meant.

Nothing was testing out as typically human. The bone itself was too light and much too durable to be purely human. It was more like tooth enamel than bone. The brain's volume was entirely too large for the skull encasing it. Inside the Starchild's cranium was a brain one-third larger than normal. Where did all that extra brain go? How did it all fit in there? Better yet, with such a high and steep rear angle canted toward the spinal opening, how had the brain's matter not been squeezed out to distend the foramen magnum? This list of physiological differences was extensive, with over two dozen major points. It skewed as far from a normal human skull as did that of a chimp or gorilla.

### DNA 101

No matter how many physiological differences we came up with, experts from mainstream science could thwart us at every turn simply by quoting their

**The bottom line is that at every turn, after every valid test, the results kept shifting my initial percentage of doubt away from "human deformity" toward an "alien" interpretation.**

Darwinist mantra that, when it came to nature, absolutely anything was possible. Therefore, we couldn't show them any physical variation that they couldn't explain by calling upon the unlimited power they themselves had assigned to nature. It was like trying to argue with religious zealots. No, it might have been worse. We certainly couldn't find any room for flexibility, so in the end it all came down to DNA analysis—the premier tool of scientific certainty. People ended up on death row because of DNA evidence, just as it saved others from wrongful convictions. DNA was the weapon of choice for those wishing to make a case against closed minds and cowardly spirits.

DNA has two basic types: mitochondrial and nuclear. In nearly every cell in an animal's body, which can amount to trillions, there is a small core, called the nucleus, surrounded by a jelly-like substance, called cytoplasm. Imagine a golf ball with its cork core, its surrounding twine and its durable "skin". This analogises a living cell perfectly: nucleus, cytoplasm and outer wall.

Floating around in the cytoplasm like raisins in pudding are mitochondria, which are small packets of what are called base pairs, the smallest units of matter that make up genes which combine to form chromosomes. In each mitochondrion there are about 16,000 base pairs. Keep that number in mind.

Inside the cell nucleus is the entire genome of the individual, containing all the chromosomes given to it by its parents. In humans, that is 23 from Dad and 23 from Mom—a total of 46 chromosomes. Incredibly, our closest genetic relatives, chimps and apes, with whom we supposedly share a very close biological "descent" from a remote common ancestor, have 48 chromosomes. This is beyond bizarre, and I discuss it extensively in my work regarding human origins, though it plays only a peripheral role in the Starchild's case.

The total genome of a typical human is made up of those 46 chromosomes comprised of roughly 25,000 genes, which are subdivided into roughly three *billion* base pairs. So remember that number, too, and compare it with the 16,000 base pairs in each mitochondrion floating in the cytoplasm outside the cell's nucleus. The floating mitochondria are like tiny grains of sand in relation to the basketball-sized nucleus.



The Starchild skull, showing some of its external anomalies.

Mitochondria are passed down intact from generation to generation solely by females. They change only slightly over the centuries, with a mutation here and a mutation there, but by and large they stay the same. Whether you are male or female, you have essentially the same mitochondria possessed by 100 or more generations in your family line, back to the first female in your line. Thus, they are easy to track throughout the course of genetic testing.

The DNA inside the nucleus of cells is much harder to recover intact than the DNA inside mitochondria because it is much larger and far more fragile and because there is so incredibly much more of it to degrade. Also, because it comes from both parents it is never the same in any two individuals. There will always be a large amount of mixing and matching of the base pairs, genes and chromosomes between couples who produce offspring. Each new mating is unique, and even identical twins will exhibit subtle variations.

### **The Starchild's Mitochondrial DNA**

We took the Starchild skull to Trace Genetics in Davis, California, in the middle of 2003. The first thing we discovered was how hard and dense its bone was. The geneticists had to struggle to cut it with a high-speed Dremel blade that sawed through normal

human bone with relative ease. The next step was to dissolve a shard of the Starchild's bone in a standard solvent called EDTA. The bone was put into a test tube in a rocker arm, and after one week it should have been dissolved. It wasn't, not even slightly. A powerful detergent had to be added to break it down—something never needed with normal human bone.

Once the Starchild's DNA was recoverable, the geneticists went through their processes with it. They found that the DNA was well preserved and quite easy to recover from the solution in which it was dissolved. Its 900 years buried in a mine tunnel had left it in an almost pristine condition: it was never oxidised by scorching sunlight or leached by rainwater soaking it.

It was much like a relatively fresh burial, as opposed to what the geneticists normally had to deal with. (Our geneticists had worked on the famous Kennewick Man, the 9,000-year-old skeleton discovered in 1996 in Washington. They found that all of its DNA was hopelessly degraded by exposure to the elements.)

The Starchild's mitochondrial DNA was easily recovered and came up bright and clear in the gel sheets used to reveal its make-up. It turned out to have a human mother from what is known as Haplogroup C, which is a type of Amerindian common to both North and South America. There was nothing unusual about it. However, this discovery ruled out a couple of key assumptions that we had made about the Starchild and its genetic heritage.

We knew that the Starchild had died 900 years earlier and seemed to have been buried by a human female who then lay down beside its grave and committed suicide. Their skeletons were found and their skulls recovered by a girl exploring a long-abandoned mine tunnel in Mexico around 1930. We made the natural assumption that the human female had a very close relationship to the child: she was probably its mother, whether natural or adoptive. We could think of no other relationship they might have had that would warrant the ultimate sacrifice of her own life.

When the human female's DNA was recovered and

her mitochondrial DNA was tested, it was found to be from Haplogroup A, another common type of Amerindian. This meant that the Starchild and the woman who chose to commit suicide and die beside it were not genetically related. Perhaps she was an adoptive mother, or a close friend or caretaker, or lover or even its partner in life. We had no way to answer those questions or any number of others.

Finding out that the Starchild had a human mother also forced us to drop the idea that it might be a pure Grey alien. Now, the most we could assume was that it might be a hybrid with a human mother and an alien father.

This led to another assumption. If it was a



Comparison of the adult female skull with the Starchild skull

human-alien hybrid, it was in all likelihood the result of genetic engineering rather than a normal sexual union. We based that assumption on the admittedly anecdotal evidence from many women of today who swear they've been abducted by Greys, made pregnant by them in some "unnatural"

manner, and then in the fourth month of their pregnancy had their foetuses removed and raised to birth weight in test tubes that many women see later when being introduced to their own living hybrid children. If such a program is occurring now, then why could it not have occurred 900 years ago?

Following the revelations of the Starchild's mitochondrial DNA would be the analysis of its nuclear DNA, which could easily be the end of the line for us. Five years of effort would be riding on this one make-or-break test. With the Starchild's mother unquestionably a typical Amerindian, if the father's DNA showed up in the search for the nuclear DNA then we would close our case. The Starchild would have had two human parents, and that would be the end of it. No matter how unusual its physiological traits might be, if its genes showed two human parents then turn out the lights, the party's over.

### The Starchild's Nuclear DNA

To secure the recovery of DNA in 2003, geneticists had only one technique available: the use of primers,

previously coded strings of base pairs that are common to all humans. Those strings can go on for hundreds or a few thousand base pairs and are like keys that fit precisely into locks. The soup of dissolved DNA can be imagined as an accumulation of those locks. The primer keys are swirled into the soup to find their specific corollary locks and, when they do that, those lock-and-key alignments can then be extracted and analysed by putting them into "gel sheets". Everyone has seen those small bars that are created to represent someone's DNA. (A photo/diagram of the Starchild's is included.)

When the Starchild's nuclear DNA was filled with primer keys, those keys went looking for locks that were combinations of both its mother and father.

By that point, those of us inside the Starchild Project were soundly rattled by the mother's turning out to be human. Half of what we were betting, that the Starchild might be a pure Grey alien, was now off the table.

So with bated breath, we awaited the first test result...and it was nothing, *nada*, no recovery, not even a whisper of a recovery, which could mean one of two things: (1) the Starchild's nuclear DNA was too degraded to permit a recovery; or (2) the recovery couldn't occur because the father was not entirely human.

We felt we could rule out the first possibility based on the ease with which the human's mitochondrial DNA and nuclear DNA had been recovered. Her locks and keys were bright and clear in her gel sheets, indicating that she hadn't degraded much—which, as noted earlier, was logical for bones entombed in a mine tunnel for 900 years: no wind, no rain, no sun-bleaching. And the same was true for the Starchild. Its mitochondrial DNA had come up very easily on the first attempt to recover it. So the odds had suddenly swung in our direction. If the Dad was human, we should have had a routine recovery.

The second test also came up empty, as did the third, fourth, fifth and sixth. That was enough for the geneticists. Dad's DNA was not letting the primers connect, and six tests meant there was no possibility of laboratory error. If Dad was a normal human, one of those six attempts would have found him. Thus, only one stark conclusion could be drawn: Dad was not a human!

Unfortunately, this did not mean we could loudly

announce that we had secured iron-clad proof of an alien form of life on this planet at least once, 900 years ago. As we began breaking into a victory dance, the geneticists turned down the music and explained to us that the fat lady was off in the distance warming up, but she wasn't on stage yet. We still had more to do.

### The Fat Lady Arrives

Our geneticists told us the only thing they could officially state about the Starchild's DNA tests was that they couldn't recover nuclear DNA in six tries. The fact that the other recoveries were easy and quite clear in the gel sheets was highly indicative, but not proof of anything. The only way we would get proof, they explained, was when a new recovery technique only then on the horizon finally became available. That technique would do away with primers entirely and go about recovery in a very different way. It would entail recovering each and every base pair in an entire genome so there could be absolutely no doubt about how that genome was constructed.

This new technique, when it became available, would allow the Starchild's entire package of DNA to be recovered, and then it could be compared to a normal human to see how close or how far away it was from those norms. They assured me that the new technique would require three to five years of further research and development.

Sure enough, exactly three years later the world learned that a company called 454 Life Sciences in the USA had created the breakthrough that would

allow full genome recovery using only base pairs, all three billion of them in the case of humans. Wait One was over.

Wait Two was that we couldn't afford the new technology. In any case, it was being applied to the Neanderthal genome because that was an answer science was anxious to have; consequently, the millions of dollars needed to get that answer were made available through science's myriad grants. But no such money was available to secure an answer for something like the Starchild, which nobody in science wanted to know in case it overturned their world view.

We were told that time and rapid advances in the new technology would bring it into our reach within a couple of years, which turned out to be true.

So here we are, 10 years gone, having spent the first

**If Dad was a normal human, one of those six attempts would have found him. Thus, only one stark conclusion could be drawn: Dad was not a human!**

five years waiting for our first DNA test, which made it blindingly obvious that we were on the right track, then having waited three more years for the 454 technology to be created, and then two more for it to come within our financial reach. A decade of life...what a grind it's been.

As of now, the cost of the 454 test has dropped from several million dollars to about US\$200,000. That drop has put it within the reach of a documentary production company in London that contacted me in late 2008 with a proposal. If they paid for the critical testing, would I participate in an hour-long film special about it? They wanted to delve into the Starchild's background, relating how it came to be where it is now, but focusing on the testing itself, waiting for the "Eureka!" moment when we'd all know for certain whether or not the bizarre relic was entirely human or, if not human, how far from human.

Understand how this will work. We know that chimps are only three per cent different from humans. Gorillas are only five per cent different. And we should know in the next few months how different Neanderthals are. Early reports say less than one per cent, but as of this writing that's merely rumour. It could end up more or less. However, that leaves a clear playing field for the Starchild, which could end up being very close to humans or quite far away. Only this one expensive, extensive test (three to four months in duration) using 454 equipment will let us know.

If the Starchild is, say, 0.5 per cent different, that is, one-half of one per cent, does that mean it had an alien father? Yes, of course. If it's not human to a range of 99.99 per cent, which is how astonishingly little we differ among ourselves, then it isn't human. (Humans are, in fact, not far from clones. There is more genetic variation between two randomly selected chimps from the same inbred group than exists among all of humanity, from Pygmies to Eskimos. This also is from my human origins work and only peripherally relates to the Starchild.)

So, where do we draw the line? Where do we call the Starchild itself an alien, even though it had a human mother? Would one per cent difference from a normal human be far enough away? How about three per cent away? Or five per cent away, as far as a gorilla? Would that be far enough? It's an interesting question to posit at this point, before the test result is known; but whatever it turns out to be, the fact that it won't be entirely human should be enough to carry the day and make history on a scale few of us alive have even

imagined. I'm quite certain about that.

Based on the astonishing array of the Starchild's physiological differences—at least two dozen major ones—relative to normal humans, we have to say that those differences were caused by variations in the genes that told it to grow in those unusual ways. And with the skull alone exhibiting so many distinct anomalies, we can easily imagine a similar percentage throughout the rest of the Starchild's body, which was described as "misshapen" by the girl who found it. Thus, with its badly misshapen skull and misshapen body, I feel comfortable going out on a limb and predicting that the Starchild's DNA should be well beyond one per cent different from that of all humans. More likely, it will be so far away that no one can draw any conclusion other than that its father was purely an alien and it, too, was far more than half alien.

The documentary is scheduled to be filmed during 2009 and should be available for viewing all around the world by the end of the year. We would like it to be available before the Christmas holidays so that everyone who lives on this magical, mystical planet can ring in a new year, 2010, that will be like no other. We will have irrevocably shifted our place in the cosmos. We are confident that this will happen, and we ask you all to stay tuned. ∞

**More likely, it will be so far away that no one can draw any conclusion other than that its father was purely an alien and it, too, was far more than half alien.**

#### **About the Author:**

Lloyd Pye is a researcher and lecturer with over 30 years of experience in writing and speaking about the origins of life (humans and hominoids in particular) and alternative knowledge. He is a leading proponent of the Intervention theory of human origins, which stands in sharp contrast to the theories of Darwinism, Creationism and Intelligent Design. He is also the caretaker of the famous Starchild skull.

Pye is the author of *Everything You Know is Wrong: Origins of Life and Humans* (Bell Lap Books, revised and updated edition, 2007) and *The Starchild Skull: Genetic Enigma or Human–Alien Hybrid?* (Bell Lap Books, 2007, <http://www.belllapbooks.com>) (reviewed in NEXUS 14/05; available from <http://www.nexusmagazine.com>). Lloyd Pye's articles "Evidence for Creation by Outside Intervention" and "Darwinism: A Crumbling Theory, Parts 1 & 2" were published in NEXUS 9/04 and 10/01-02 respectively.

For more information and to contact the author, visit the websites <http://www.lloydpye.com> and <http://www.starchildproject.com>.

NB: Readers in Australia and New Zealand can obtain Lloyd Pye's book through NEXUS Magazine.





## LIFE WAS NOT A WALKABOUT FOR VICTORIA'S ABORIGINES

by Dr Graham Phillips, edited from *The Age*, Melbourne, 13 March 2003

According to Heather Builth, western Victoria's Aborigines were not nomads; they lived in villages. This conclusion, which contradicts the long-held belief that Aborigines existed solely as wandering hunter-gatherers, is the result of investigations carried out by the researcher from Flinders University, South Australia, over the past eight years.

Builth says that the Gunditjmara people in the Lake Condah region of western Victoria were also farmers and that they modified more than 100 square kilometres of the landscape to breed eels. They constructed artificial ponds across the grassy wetlands and dug channels to connect them. The whole scheme was systematically punctuated with eel traps.

"The area was naturally a wetland, with natural swamps, but they modified these with weirs, channels and dams to make the whole landscape eel-friendly," says Builth.

Some of the modifications were impressive. In parts, the channels were dug through rock to allow water to flow from swamp to swamp.

Some of the chains of channels and ponds stretched more than 30 kilometres.

But Builth's research revealed something more remarkable. She estimated the output from these eel farms could have fed up to 10,000 people. On the basis of this research, she believed this was more an ancient fishing industry than a subsistence farm, and she set out to prove it.

She had noticed the landscape was scattered with burnt, hollowed-out trees that were often next to the eel traps. Could the structures have been ancient smokehouses? Smouldering fires could have been lit in the bases of the trees and the freshly caught eels hung up above, to be preserved by the smoke.

To confirm the theory, Builth took soil samples from the bases of four trees. Laboratory analysis revealed that the samples did contain traces of eel fat.

"Suddenly the whole picture changed. The Gunditjmara weren't just catching eels, their whole society was based around eels. And that to me was the proof," she says.

The villages associated with the Lake Condah fish farm, she says, were actually more like company towns, with dwellings built to house the people who worked the farms. "It's like you have your council houses for the factory. That's what was going on here," says Builth.

Archaeologists know a society undergoes a quantum leap in sophistication when it can produce a surplus of food, because the community has more time to devote to pursuits other than basic survival.

"This puts the people here in a different category than we've generally put Aboriginal groups."

Aborigines are usually thought of as living in small communal bands, where power and wealth are shared relatively equally. But Builth believes the Lake Condah farmers lived in a much more complex society.

"I think what we had here was a hierarchical, structured society. We

had chiefs, for example, with lots and lots of power."

Perhaps the biggest surprise about the Gunditjmara prehistoric fishing society came when Builth asked Monash University geologist Peter Kershaw to try to put a date on it. He drilled into some of the ponds that still have water today (much of the area was drained in the 1800s) to take cores of soil from the muddy bottom. Kershaw was able to drill 13 metres before hitting the bedrock, which produced a core that stretched all the way from the present day down to soil made 18,000 years ago.

Like a forensic scientist, Kershaw hoped to date the eel farm from indirect evidence. Eventually he found the region of the core where the plant species abruptly changed. The vegetation had gone from being dominated by plants that preferred a drier environment, to water-loving aquatic species.

"This doesn't occur naturally," says Kershaw. "It had to have some help. People have been here—that is the most likely explanation. And those people could well have been human eel farmers flooding the area with an artificial ponding system."

But the most dramatic finding was when Kershaw radiocarbon-dated the part of the core showing the abrupt change. It was 8,000 years old, making the fish farming industry at Lake Condah one of the most ancient.

The only comparable group at this early time were the indigenous people on America's northwest coast, who caught salmon as they naturally migrated up the rivers. But the Gunditjmara's farming practices were far more developed.

They actually brought the young eels in from the ocean and trapped them in their artificial waterways for up to 20 years.

Builth also suspects that the Gunditjmara traded the smoked eels across Victoria and South Australia.

The famous escaped convict William Buckley, who lived with Aborigines for many years, mentioned eels from western Victoria in his diaries, as did Victoria's first Protector of Aborigines, George Augustus Robinson.

Builth was originally attracted to Lake Condah because of the boulders scattered all over the ground. Many of them seemed clumped into circular patterns. Since the 1970s, people had argued that these were the remains of the village huts' stony foundations, but the claims had always been controversial.

In 1990, the Lake Condah stone circles were officially surveyed, and the conclusion, after just a 40-day study, was that most of the circles were not hut foundations at all.

This was too much for Builth, and she began her Lake Condah research. This research eventually ended with a highly praised PhD thesis that demolished the Victorian Archaeological Survey's negative conclusions.

To prove that the circles of stones were not natural formations, Builth painstakingly measured and weighed each of the rocks in them. She then performed a statistical analysis and showed that the chance of their coming together in this way naturally was almost zero. The only likely

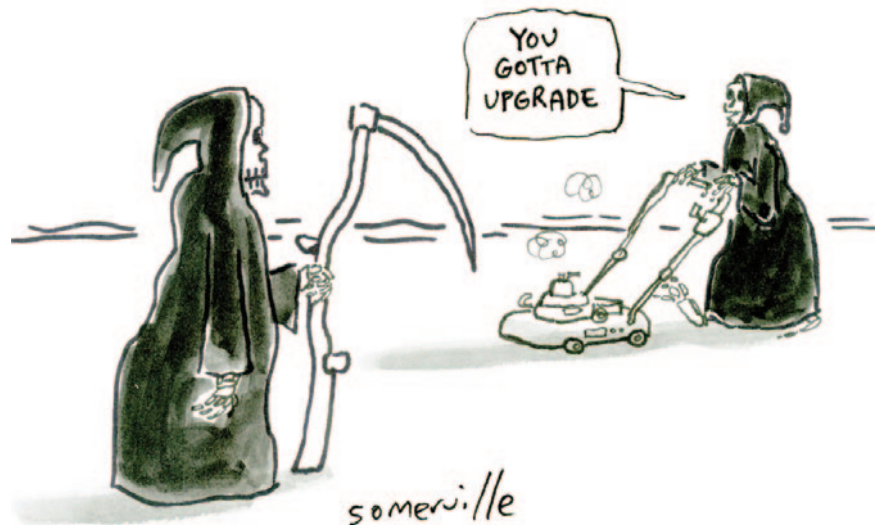
remaining explanation was that the circles were the stone foundations of huts.

So how could previous archaeologists have missed all this, given the scale of the operation and that the fish farms would still have been operating when Europeans arrived? Builth suspects that it is because the Gunditjmara disappeared quickly after white settlers came.

"History tells us, many [of the settlers] had a military background and they knew tactics, they knew how to survive, they knew how to win, and they knew how to get rid of Aboriginal people pretty quickly."

By the time archaeologists had arrived in Australia, the only Aboriginal people still leading traditional lifestyles in significant numbers were the ones living on the less desirable land.

"Most studies, certainly anthropological studies, focused on people dwelling in desert in semi-arid conditions, because they were the last people to live in their traditional land. These people [the Gunditjmara] were the first to lose their land; that's the difference." ∞  
(Source: The Age, 13 March 2003, <http://www.theage.com.au/articles/2003/03/12/1047431092972.html>)



## WAS THERE A SECOND SPHINX AT GIZA?

by Antoine Gigal © February 2009

*Antoine Gigal has unearthed historical evidence which shows that, until the 11th century AD, a second Sphinx existed on the Giza Plateau but has since been dismantled.*

— Histories & Mysteries

<http://www.histories-mysteries.com>

23 February 2009

In 1858, François Auguste Mariette was asked by the Duke of Luynes to verify the proposition of Pliny the Elder that the Sphinx had been constructed and was not monolithic.

Mariette opened a trench near the Pyramid of Khufu (Fourth Dynasty; 2589–2566 BC), and in a sanctuary of Isis (dating from the first century BC) he found the so-called Inventory Stele. The stele states that “during the reign of Khufu, he ordered the construction of a monument the length of the Sphinx”. The logical conclusion is that the Sphinx was already there, and that the standard theory, which is that the Sphinx was contemporary with Khafre (Fourth Dynasty; 2520–2494 BC), is incorrect.

No wonder, therefore, that the

majority of Egyptologists try to turn their attention away from the Inventory Stele: it poses too many problems. Some prefer to affirm that this stele was inscribed with a list of the inventory of the Temple of Isis and that it therefore dates from the Twenty-sixth Dynasty only. Maybe, but Mariette, its discoverer, spent more than 10 years researching the Giza Plateau and walked away with the conviction that the stele was erected by Khufu himself.

It was Captain Giovanni Battista Caviglia who, in 1816, cleared the Sphinx and its surrounding temples from the sand and attributed the construction of the Sphinx to Khafre because of the proximity of his pyramid to the Sphinx. However, not a single inscription has confirmed this link and the Sphinx is not even in alignment with this pyramid.

There is also a text from Pharaoh Amenhotep II (circa 1448–1420 BC), in which the Sphinx is mentioned and is labelled as “older than the pyramids”.

Then there is the famous Dream Stele of Tuthmosis IV (Eighteenth Dynasty; 1420–1411 BC). Certain Egyptologists all too quickly believe that they have seen the name of

Khafre on a piece of the inscription (today no longer present) on the stele, in the praises to a deity, even though the name is not there in reality but is only in the outline of a single syllable, which is far from conclusive. Furthermore, they have inserted into the translation a second syllable that does not exist on the stele itself!

The story goes that after a hunt, Tuthmosis IV (who was only a prince at the time and was not heir to the throne) reposed in the shadow of the head of the Sphinx, which was the only part of the monument that was still above ground, the underlying structures being covered by sand.

In his sleep, he had a dream in which the Sphinx asked to be uncovered from the sands. In return, the Sphinx would give him power and fortune. Indeed, Tuthmosis decided to carry out the request and soon afterwards became pharaoh as well as very rich.

However, what is particularly interesting on the Dream Stele is the representation of the Sphinx. There are two! Equally, one can see that the two Sphinxes sit on architectural constructions, i.e., a small temple with a gate.

The usual interpretation by Egyptologists is that these temples were merely the representation of what was present in front and to the south of the Sphinx. However, such a conclusion fails, as it is well known that the rules of perspective for the ancient Egyptians were very strict and no official artist would allow himself to deviate from reality to such an extent.

Most importantly, in the Inventory Stele there is mention of a lightning strike that struck the cap of a second Sphinx as well as a sycamore tree—a sacred tree in those days—which was burned by the same lightning strike. The lightning strike marked the beginning of the end of this second Sphinx.



According to archaeologist Michael Poe, who refers to papyrus fragments from the Middle Kingdom, the second Sphinx was located face to face with the still-existing Sphinx. It was located on the other side of the Nile and was destroyed by a violent rising of the river Nile circa 1000 AD. The local people took stones from the structure to rebuild their villages.

This thesis is confirmed by other texts, such as those of the great Arab geographer and scholar Al-Idrisi (1099–1166 AD) in his two geographical encyclopaedias (*Kitab al-Mamalik wa al-Masalik* and *Kitab al-Rujari*). He mentions the presence of two Sphinxes at Giza—monuments he describes in great detail. One is in a very bad state, licked by the waters of the Nile, and several stones are missing.

Other authors also mention the existence of two Sphinxes. The famous historian Al-Musabbihi writes about a “sphinx smaller than the other” (likely because the other one had deteriorated badly by that time) on the other side of the Nile, made from bricks and stones (*Annals of Rabi II*, circa 1024 AD).

In total, these accounts present conclusive evidence that once there were two sphinxes: the Sphinx which still exists; and a second Sphinx on the opposite side of the Nile, made from bricks, which sustained damaged and in relatively modern times, the 11th century, was used as a quarry, resulting in its complete dismantling.

As to the precise location of the second Sphinx, there are three possibilities. The work is made especially hard as the area has many modern buildings. We only know that the Sphinx was on the other side of the Nile—a river that was much wider in those days, especially at the times of the inundations.

Note that in the 10th century CE, the greatest Arab chroniclers and historians mentioned the existence of gates that provided access to subterranean galleries under the Sphinx. This, however, is a different story. ∞

## About the Author:

Antoine Gigal is a French researcher/writer and the Egyptian correspondent for the French magazine *L’Egypte*.

Gigal spent her early years in Africa and South America, where her father worked as a journalist and a diplomat, and thus had the opportunity to explore diverse cultures and civilisations. She studied at Sorbonne Paris III University and the National Institute of Oriental Languages and Civilisations (INALCO), where she graduated in Chinese and Japanese languages and civilisations.

Speaking Arabic, Spanish, Italian and French, Gigal has lived mainly in Egypt for the last 20 years and calls Paris her second home. She lectures extensively

on ancient Egypt and leads several study tours of Egypt every year. She travels even to the most remote archaeological areas and is able to gain access to monuments not open to the general public.

For more information and photos, visit Antoine Gigal's website <http://www.gigalresearch.com>.

(Source: Edited from the *Histories & Mysteries* web page <http://www.histories-mysteries.com/2009/02/23/a-second-sphinx-at-gizeh/>)



The Dream Stele, photographed at the Rosicrucian Egyptian Museum, San Jose, California, USA.

The all-important questions, nevertheless, are these... Why has there not been more written about this second Sphinx? What is there to hide? Why not mention its deconstruction together with the removal of the outer lining of the Great Pyramid, which was used by the people of Cairo for their homes? Perhaps the reason is more complex. Maybe these Sphinxes hid/hide a means to gain access to something underneath the Giza Plateau.





# REVIEWS

## BOOKS

Reviewed by Ruth Parnell

### **CHEMICAL FREE KIDS: Raising Healthy Children in a Toxic World** by Dr Sarah Lantz, PhD

Joshua Books, Qld, Australia, 2008  
ISBN 978-0-9805473-2-0 (233pp tpb)  
Available: [www.JoshuaBooks.com](http://www.JoshuaBooks.com)

You'd think twice about buying particular personal care products, clothing, toys and and foods if you knew the impact they would have on you and your children. Dr Sarah Lantz, a Brisbane-based mother and a researcher with a background in organic chemistry, public health and sociology, lays the truth on the line in *Chemical Free Kids*. She firmly believes in conscious, compassionate parenting and is committed to a living, organic lifestyle that will be sustainable over the generations.

Dr Lantz tackles such issues as the impact of chemicals on the body, what the cosmetic companies don't want us to know, what's really on our dinner tables, the problems with the pharmaceutical approach to treating "disordered" children, and the toxins that the authorities don't want us to know are in vaccines. She refers to scientific studies and statistics, and slams assumptions about product

safety and regulation. While her research is Australian-oriented, it has implications for people everywhere.

She closes with 10 pointers for living in wellness in a toxic world, e.g., making industry responsible for its messes. An empowering book.

### **COMMUNICATION WITH ALL LIFE**

by Joan Ranquet

Hay House, UK, USA, Aust, 2008  
ISBN 978-1-4019-1613-8 (248pp tpb)  
Available: [www.hayhouse.co.uk](http://www.hayhouse.co.uk), [www.hayhouse.com](http://www.hayhouse.com), [www.hayhouse.com.au](http://www.hayhouse.com.au)

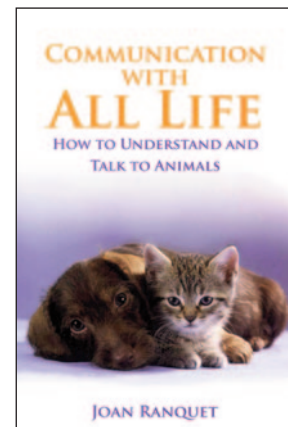
In this heart-warming, instructive guidebook, "animal psychic" Joan Ranquet brings a higher dimension to understanding and communicating with our animals, whether they be horses, dogs, cats or birds, and forming stronger relationships.

Those of us who have animals in our care already tune in to them, and Ranquet shows by example how to improve our interactions using feelings, images and words in an enhanced telepathic communication. As a facilitator, she shows how people can learn to decode what their animals are trying to tell them and set up a two-way connection that's based on tapping into One Mind. Her stories are extraordinary: instances of animals that decry an

owner's lack of humour, that reinforce bad behaviour due to the wrong emotional signals being transmitted, and that mirror an owner's ill health.

Ranquet works with each owner to make them aware of their animals' thoughts, feelings and needs, both physical and emotional, and gives guidance on appropriate responses including developing the means to ensure domestic peace and harmony. Ranquet has much experience, too, in working with trainers, breeders and animal healthcare practitioners and has inspired them in their work. She has great advice on nutrition as well.

One of the secrets is to have an open, compassionate heart and to trust yourself: your pets will respond likewise and make your encounters all the more rewarding.



# REVIEWS



## MEDICINE, MIRACLES, & MANIFESTATIONS

by Dr John L. Turner

Career Press, NJ, USA, 2009

ISBN 978-1-60163-060-5 (254pp tpb)

Available: [www.careerpress.com](http://www.careerpress.com)

Dr John Turner, from the Big Island of Hawaii, has had a 20-year career in neurosurgery as well as a long-time interest in non-traditional healing techniques. To him, such metaphysical phenomena as near-death experiences, remote viewing, astral projection and even divine intervention are not to be ignored but to be explored. He takes seriously this interface with universal consciousness and has found it can help his patients during and after surgery and also resolve questions that physical science alone can't.

Dr Turner applies empirical research to alternative modalities that support the body-mind-spirit link and which also happen to be at the heart of traditional Hawaiian spirituality and healing. He makes a case for how alternative treatments work, not if they work. He also maintains that it's the outcome of the treatment, not the method of operation, that's crucial. We are one with the energy and with all things, he says, in this mindful book that also touches on his own edifying life journey.

## THE HOLOGRAPHIC CANVAS

by Sonia Barrett

Timeline Publishing, CA, USA, 2008

ISBN 978-0-6151-7355-9 (202pp tpb)

Available: [orders@timelinepublishing.com](mailto:orders@timelinepublishing.com); [www.spiritinform.com](http://www.spiritinform.com)

Humanity is bound to a "linear Htime" consciousness, and, to overcome it, we as individuals must learn to transcend the external programming that makes up our consensus reality. That way, we can connect to the matrix of the "holographic canvas", says holistic consultant Sonia Barrett.

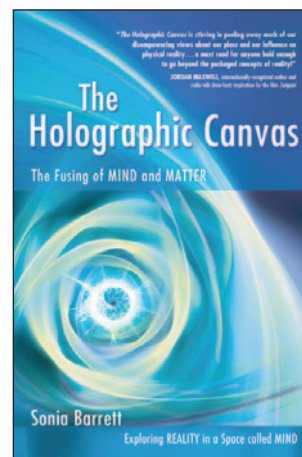
To become awakened beings at one with the Source, we need to shift our beliefs and perceptions, she says, and this requires movement: an increase in vibration; in fact, a shift of energy at cycles per second—the real meaning of the ascension process. It is our destiny to move to the next level of growth, but we can't do so without coming to terms with the social, religious, political and economic systems that have been holding down humanity for millennia.

In Barrett's view, which is informed by quantum physics, each of us is the Source and our sovereignty is an expression of the infinity of creation, an unfolding of spiritual freedom through love's empowerment. We do indeed create our own reality, and it's

time to reawaken to cosmic science.

Here, she covers perspectives on time harmonics and travel, accessing higher dimensions in the holographic matrix, taking responsibility for our emotions, and even programming stem cells. She encourages us to find our own truth and not accept anything that's thrown at us—and that means not being attached to notions of what may happen in 2012. Our DNA is already encoded with a "time release capsule" of "future memory", but it won't open unless we dissolve the veils of separateness.

Barrett's take has similarities with the thoughts of the great sages and quantum thinkers, and it embraces spirituality and science in a way that can engage today's seekers.





# REVIEWS

## SECRETS OF THE LIGHT

by Dannon Brinkley with Kathryn Brinkley

HarperCollins, New York, 2008  
ISBN 978-0-06-167176-0 (209pp hc)  
Available: [www.harpercollins.com](http://www.harpercollins.com)

Long-time NEXUS readers may recall Dannon Brinkley's article "Prophecy Countdown 2000" back in 1995 (see 2/24) and his books *Saved by the Light* and (co-written with Paul Perry) *At Peace in the Light* (see 2/24 and 3/03). One thing that sticks in the mind is that Brinkley was struck by lightning back in 1975—and lived to tell of the valuable insights he received as a result of this trauma.

Since then, he's had two more near-death experiences and has been sent back here to impart transformational knowledge to those of us who are receptive, and maybe some who aren't. He's done amazing work in palliative care environments including recruiting and training volunteers to care for dying American war veterans—"spiritual activism in its highest form". Together with his wife Kathryn, he's toured the world, helping to transform the consciousness of everyday people.

His deeply uplifting book gives guidance on successful living and dying and on how to fulfill our true purpose. He reveals that a loved one

who's in a coma can still hear you speak to them, that there's no Hell below us but there are seven levels of Heaven, and that as part of a collective consciousness we are in the process of creating peace or war as our future. As for the prophecies, he claims that 110 of the 117 revelations have come to pass so far.

Brinkley talks about the "fourfold path to power" that encompasses love, choice, belief and prayer, and encourages the daily practice of "life review" that reminds us to be thankful, truthful and kind.

## VISION OF ALBION: The Key to the Holy Grail

by Barry Dunford  
Sacred Connections, UK, 2008  
ISBN 0-9541873-1-8 (464pp tpb)

Available: [sacredconnections.co.uk](http://sacredconnections.co.uk)

In *Vision of Albion*, Barry Dunford extends the argument he put forward in *The Holy Land of Scotland* (review, 10/01), with thanks to the mystic poet William Blake to whom Albion, the British Isles, was the "true Holy Land of Christ". Informing him is his uncovering of a groundswell of esoteric truth behind the existence and mission of Christ on this Earth.

Dunford's starting point centres around the 1906-dated stained glass window in Kilmore Church on the

Scottish Isle of Mull, which depicts a haloed Jesus with a pregnant, girdled woman, apparently Mary Magdalene. Such depiction pre-dates latter-day discussion that the two were married.

Dunford examines the Christ lineage in Scotland, the travels of Joseph of Arimathea in southwest England, the establishment of the Celtic Church, the true Grail, the enigmatic Rosslyn Chapel in Scotland, sacred geography of the British Isles, the Hollow Earth mystery, Britain's Shambhala World Axis and more. He assures us that we can look forward to the Second Coming as the awakening of the unified consciousness in all human hearts and a raising of vibrational frequencies in our physical forms. This is the *real* message of Jesus Christ, Dunford insists.



# REVIEWS



## A WORLD OF UFOs

by **Chris A. Rutkowski**

Dundurn Press, Toronto, Canada, 2008  
ISBN 978-1-55002-833-1 (315pp tpb)

Available: [www.dundurn.com](http://www.dundurn.com)

Whether you're steeped in UFO lore or have never ventured into the literature, this book provides key highlights as well as little-known details for the initiated and a broad overview for the novice. Chris Rutkowski, a science/astronomy writer and a UFO researcher since the 1970s (see *Abductions and Aliens*, 8/03), aims to show in *A World of UFOs* that the phenomenon is truly global in nature and has been increasingly prolific since at least the 1940s.

Having to start somewhere in describing phenomena involving UFOs, ET encounters and alien abductions, Rutkowski chose to divide the first part of his book into three categories: the most famous, the most bizarre and, in his opinion, the most interesting cases. The Roswell crash, the Manhattan abductions of Linda Napolitano and the Belgian flying triangle sightings are among 15 incidents summarised.

For the second part, he selected key cases from each continent (including Antarctica) to prove his point about the ubiquity of UFOs, yet many of these incidents are not well known.

For the third section, Rutkowski compiled an A-Z of sorts, from alien abductions and government knowledge to media reporting, science fiction and humanity seen as a zoo by some ETs. Admitting that he's never seen a UFO, he reiterates his keenness to follow up witness testimony and encourages readers to do their own research. He closes with tips on how to report a sighting. Explanations may be elusive, but he takes delight in the wonders.

## STRANGE & MYSTERIOUS ANOMALIES

by **Ian Ross Vayro**

Joshua Books, Qld, Australia, 2008  
ISBN 978-0-9804551-8-2 (314pp tpb)

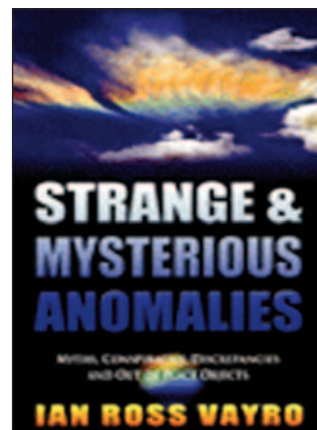
Available: [www.JoshuaBooks.com](http://www.JoshuaBooks.com)

NEXUS readers are used to stories of the strange, mysterious and anomalous, so will appreciate this compendium by Ian Ross Vayro (*They Lied to Us in Sunday School*, 13/06). With the author's long-time interest in theology and archaeology, it's understandable that he features a fair few religious oddities, from cults to relics, as well as out-of-place artefacts such as modern-era objects found in ancient rock strata.

Being an Australian, Vayro is compelled to include coverage of island-continent strangeness, from

the Min Min lights and old Aussie yarns to the explorations by ancient Egyptian, Phoenician and Chinese expeditions. Yet he has a global perspective which takes in anything from angels, world mythologies and the Pythagorean golden mean to crypto-creatures, miracles, UFOs and conspiracy theories. Concerning the latter, he looks into the JFK assassination, the death of Diana, Princess of Wales, the 9/11 attacks and the "wrong Saddam" executed.

Vayro has a free-form way of organising the material, but the reader can pick up his book at random and gain insights. The items listed under odd facts, trivia and anecdotes have good entertainment value. Amaze your friends with your grasp of the unusual!





# REVIEWS

## **THE PHILOSOPHERS' STONE: Alchemy and the Secret Research for Exotic Matter**

by **Joseph P. Farrell**

Feral House, WA, USA, 2009

ISBN 978-1-932595-40-6 (350pp tpb)

Available: [www.feralhouse.com](http://www.feralhouse.com);

Consortium, tel (651) 221 9035

The alchemical workings of the mediaeval period have their counterparts today in frontier physics, says Joseph P. Farrell in *The Philosophers' Stone*. The author of such books as the *Giza Death Star* series (see 11/02, 13/01), *The SS Brotherhood of the Bell* (13/05) and *Nazi International* (16/02), Farrell has a firm grasp of the links between the science and meaning of ancient esoteric traditions and the secret space programs started by the Nazis and taken over by NASA.

Here he's concerned with the theme of exotic matter, the idea of the non-locality of the physical medium and its hyper-dimensional properties, and the notion of torsion as representing the folding that occurs in a spiralling, rotating system of space—all known to the ancients. The alchemical matter that occupies his focus here is part and parcel of torsion physics and includes the high-spin-state "serum" of the Nazi Bell antigravitational device, the "red mercury" of Soviet

ballistic technology, and the monatomic "white powder gold" rediscovered by American David Hudson in the early 1980s. And just as the ancient knowledge was carefully guarded in its day, so too is the lost science that's being recovered; indeed, certain shadowy groups have a vested interest in monopolising it.

In closing, Farrell goes full circle by comparing the view of space as a lattice of information or a "crystal", whose defects are the physical forces, with the idea of Great Pyramid as a "massive crystal of the greatest alchemical, hyper-dimensional machine of mankind". He brings the true meaning of the Holy Grail to the fore in this far-reaching book.

## **THE 9/11 MYSTERY PLANE and the Vanishing of America**

by **Mark H. Gaffney**

Trine Day, Oregon, USA, 2008

ISBN 978-0979-9886-0-8 (336pp tpb)

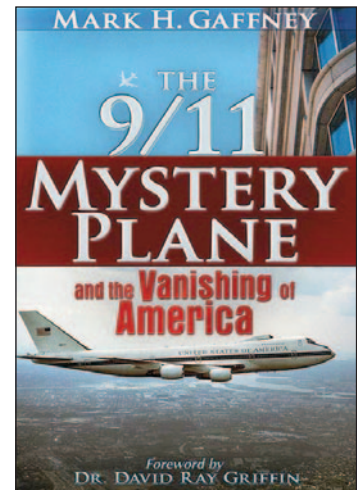
Available: [www.trineday.com](http://www.trineday.com);

<http://the911mysteryplane.com/>

Peace activist and environmentalist Mark Gaffney is not the first to suggest that the official narrative of what really happened on 9/11 is deeply flawed. However, he has put his finely honed research skills to the task to present hard evidence on

what most likely transpired on that fateful day with the attacks in New York, at the Pentagon and over Pennsylvania. His investigation is damning, coming down not on so-called "terrorists" but on perpetrators within the American state.

Gaffney is certain that the same powerful interests that subverted the 9/11 Commission will use all their influence to block or at least control any new investigation. If "the great unravelling" indeed eventuates, it will implicate the CIA, the Pentagon, NORAD, key members of the Bush administration and more, and Gaffney is adamant that the future of the American nation will hinge on the outcome.



# REVIEWS



## BEHIND CLOSED DOORS:

### The Power and Influence of Secret Societies

by Michael Streeter

New Holland Publishers, UK, 2008

ISBN 978-1-84537-937-7 (272pp hc)

Available: [newhollandpublishers.com](http://newhollandpublishers.com);  
[www.amazon.com](http://www.amazon.com)

Humankind throughout its history has valued secrecy and privacy, so it's no wonder that secret societies have flourished for various purposes, whether to hold ideas dear, to foment revolution or to protect spiritual or religious truths. Here, investigative journalist Michael Streeter takes us "behind closed doors" to examine how secretive groups have played their part in shaping the world in their times and beyond.

Secret societies in many cases have been feared and misinterpreted, often unjustifiably and sometimes with due cause says Streeter in this serious and sensible examination. Included in his coverage are the sacred mystery schools of the Egyptian priests and of the Greek mathematician Pythagoras, the Knights Templar and the Cathars who so incensed the Roman Catholic Church, the Freemasons (the most famous, he suggests, being George Washington), apparently enlightened magicians like John Dee and his ilk, and the so-called Illuminati established by Adam Weishaupt.

His overview of more modern times includes Cecil Rhodes with his elitist British imperialist ambitions, the Bilderberg Group, the orthodox Catholic Opus Dei, benevolent Odd Fellows, the so-called Church of Scientology and criminal societies such as the Mafia, whether in Italy, America or Russia. As for the Bilderbergers, Streeter questions the motives of its wealthy, powerful members in comparison with other secret societies that formed to counter the actions of the wealthy and influential of their day.

Streeter's exposé is thoughtful, stripping away the paranoia to try to get to the truth of the matter.

## POLITICS AND THE OCCULT

by Gary Lachman

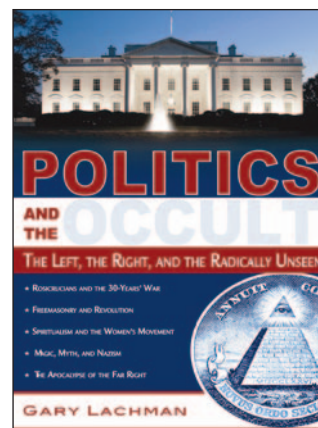
Quest Books, Illinois, USA, 2008

ISBN 978-0-8356-0857-2 (276pp tpb)

Available: **Aust**—Brumby Books, tel (03) 9761 5535; **USA**—[questbooks.net](http://questbooks.net)

The occult or hidden, esoteric aspect of politics is not the exclusive domain of the right wing, nor is it associated only with fascism. Countercultural critic Gary Lachman proposes that there is also a progressive, left-wing occult political stream that has sought to influence the fate of societies. However, nothing is clear-cut in this occult world, where even spiritually oriented individuals can hold right-wing views and where radical extremes of left and right may share a common disdain for modernity and believe that an elite vanguard must steer the masses towards a new golden age.

Lachman selects key occult movers and shakers from the early 1600s onwards, including the Rosicrucians, the British Royal Society, the Freemasons, Swedenborg and his erotic esoterica, the Illuminist Adam Weishaupt, occultists on both sides of the American and French revolutions, Theosophist Helen Blavatsky, Nicholas Roerich and his mystically inspired peace initiatives, and Nazis steeped in esotericism. He warns of the rising tide of Christian fundamentalism in America, and favours the pursuit of personal freedom even amidst a numbing popular culture. A fascinating work that's a breath of fresh air.





# REVIEWS

## THE HOUSE OF WISDOM

by Jonathan Lyons

Bloomsbury Publishing, London & New York, 2009

ISBN 978-1-4088-0031-7 (248pp tpb)

Available: [www.allenandunwin.com](http://www.allenandunwin.com); [www.bloomsbury.com](http://www.bloomsbury.com)

Western civilisation owes a huge debt of gratitude to Arab and Islamic philosophers, physicians, scientists and scholars. Following the fall of the Roman Empire, much of what we know of as the West was in the grip of the Dark Ages while Arab culture was nurturing a powerhouse of intellectual exploration. Yet word was filtering out to adventurous Western thinkers.

Jonathan Lyons, a former foreign correspondent for Reuters and now a PhD candidate in the sociology of religion at Monash University, Melbourne, reveals the extent of Arab thinkers' influence on the West and eventually on what we call the Renaissance which ultimately led to the scientific revolution.

Starting out with Peter the Hermit's reprehensible pre-Crusades barbarism across Europe and into Constantinople, Lyons goes on to describe how the Muslims inevitably responded in kind with a return to fundamentalist values. But not before they gave the world the mathematical techniques of algebra and trigonometry, geographical advances such as the ability to measure the Earth's circumference and map its lands (at a time when westerners regarded the Earth as being flat), breakthroughs in medicine and pharmacology, translations of important classical Greek texts, useful technologies in paper and lenses, and a real understanding of the magical world minus the superstition.

Lyons acknowledges the importance of Islam in the development of Arab science, and one can't help but conclude that the so-called "war on terror" which demonises Muslim "infidels" today is as much a mistake as were the Crusades.

## THE SPHINX MYSTERY

by Robert Temple w. Olivia Temple

Inner Traditions, Vermont, USA, 2009

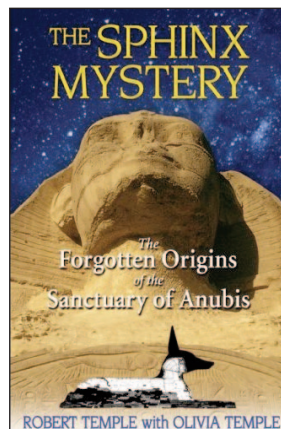
ISBN 978-1-59477-271-9 (565pp tpb)

Available: [www.deep-books.co.uk](http://www.deep-books.co.uk); [www.InnerTraditions.com](http://www.InnerTraditions.com)

In the revised edition of his best-selling book *The Sirius Mystery* (1998; 5/04), Robert Temple gave clues to a completely different interpretation of the Great Sphinx. Here, he expands upon these amazing assertions.

Chief among them is that, contrary to long-time consensus belief, the body of the Sphinx does not portray a lion at all; it's a crouching wild dog, or at least a jackal, and it represents the god Anubis (or Anpu). Anubis guarded the dead and thus had an important role on the Giza Plateau necropolis as part of a pharaonic resurrection cult. Furthermore, during the Old Kingdom, the Anubis monument was surrounded by a moat filled with water that formed what the ancient Pyramid Texts called Jackal Lake. While it's accepted that the disproportionately small head of the Sphinx was recarved into human form, it did not portray Cheops or Chephren but a much later pharaoh, Amenemhet II of the Twelfth Dynasty.

Temple analyses ancient texts, commentaries, later eyewitness accounts and early photographs, uncovering overlooked details. He discusses now-sealed secret chambers and his exploration of a tunnel at the rear of the structure (see [www.sphinxmystery.info](http://www.sphinxmystery.info)). This is indeed a monumental work!



# REVIEWS



## DVDs

Compiled by Duncan Roads

### ANCIENT TECHNOLOGY IN EGYPT

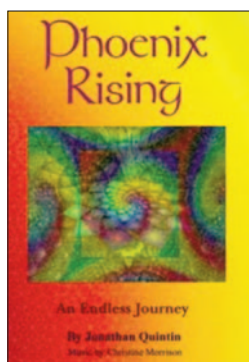
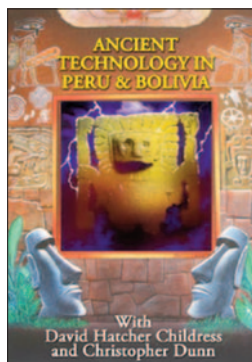
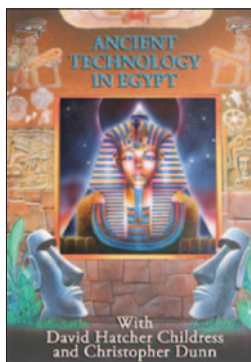
with David Hatcher Childress and Christopher Dunn  
© Adventures Unlimited Media, 2008,  
[www.adventuresunlimitedpress.com](http://www.adventuresunlimitedpress.com)

Available: Adventures Unlimited, PO Box 74, Kempton IL 60946-0074, USA, tel (815) 253 6390

Join David Hatcher Childress in Egypt where he meets up with British engineer Christopher Dunn to explore Dunn's theory of the Giza Power Plant and his view that

the ancient Egyptians had power tools including electric saws and drills. Childress and Dunn journey to the Great Pyramid, Abu Garab, the Serapeum and other areas in search of the secrets of the past.

This is an instructive DVD with extra features and lots of great footage showing Egypt's unusual megalithic constructions and technologies. If you can't be there in person, it's definitely the next best thing.



### ANCIENT TECHNOLOGY IN PERU & BOLIVIA

with David Hatcher Childress and Christopher Dunn  
© Adventures Unlimited Media, 2008,  
[www.adventuresunlimitedpress.com](http://www.adventuresunlimitedpress.com)

This is the second documentary in the *Ancient Technology* series. Childress and Dunn journey to Cuzco and other ancient South American

cities and megalithic quarries where they examine saw-marks, advanced lifting and moving techniques as well as evidence of pre-Incan megalith builders at Machu Picchu and Ollantaytambo. They continue on to Lake Titicaca where they investigate strange megalithic towers and a "stargate" cut into solid rock. Finally, they examine the huge granite edifices at Tiwanaku and Puma Punku. Awesome stuff!

### PHOENIX RISING: An Endless Journey

Visuals by Jonathan Quintin © 2007,  
[www.jonathanquintin.com](http://www.jonathanquintin.com)  
Music by Christine Morrison © 2007,  
[www.christinemorrison.com](http://www.christinemorrison.com)  
Available: [www.sacredgeometry.com.au](http://www.sacredgeometry.com.au)

Sacred geometry is a truly universal language that describes the inner workings of nature and the intrinsic order of the universe. It is the natural sanction that unites all forms of life—from microbes, plants, animals and humans to the planets and stars—in their actions and motions.

For *Phoenix Rising*, New Zealand artist Jonathan Quintin teamed up with

Christine Morrison and together they have created an amazing DVD full of spectacular fractal imagery and unique sound. The images are not static but are continuously moving and evolving with the music.

The presentation is so visually and sonically absorbing that it would be hard to imagine it could serve as mere "background". It needs to be appreciated in the right atmosphere. It's a feast for the senses.



# REVIEWS

## MUSIC

Reviewed by Richard Giles

### LAYA PROJECT

by EarthSync

EarthSync Music, Australia, 2008

(2CDs 95mins + DVD 67mins)

Distributors: **Australia**—The Planet Company, tel (02) 9283 8250;

www.earthsync.com

The *Laya Project* album arose out of an interest to collect the music of the lands hit by the 2004 tsunami. It's a tribute to the resilience of the human spirit and the survivors of the great wave that swept thousands to their deaths. The team recorded performances in six countries that suffered the tsunami and produced the album in Chennai, India. It's a mixture of folk, fusion, classical, devotional and Middle Eastern forms. So far, the *Laya Project* DVD has won four film awards. Snap up this one.

### NINE HEAVENS

by Niyaz

Six Degrees, 2008 (2CDs, 92mins)

Distributors: **Australia**—Fuse Music, tel (02) 9699 7555; **USA**—Six Degrees Records, tel (415) 626 6334,

www.sixdegreesrecords.com

Following its self-titled 2005 debut album, this second effort from Niyaz is an amazing one that features Persian and Indian influences. A double-CD set, it presents acoustic and electronic styles with a blend of Sufi mysticism and trance music. The songs are inspired by traditional folk forms and spiritual poems and are presented in simple as well as electric versions to please all tastes. This is ancient music with a modern trance sound that takes you right into the mystical. A stand-out album.

### INTRODUCING DOZAN

by Dozan

World Music, UK, 2008 (40mins)

Distributors: **Australia**—The Planet Company, tel (02) 9283 8250;

**UK**—World Music Network, tel (0)20 7498 5252, www.worldmusic.net

This album highlights the sounds of Arab classical music and Sufi-influenced songs that have been handed down through generations of musical culture. Dozan, based in Jordan, was founded by the Jordanian vocalist Shireen Abu-Khader, and its seven musicians come from Palestine, Syria and Jordan itself. The group is named for the Dozan wa Awtar Music Establishment, founded by Abu-Khader. She heads the Department of Fine and Performing Arts at King's Academy in Madaba, directing choirs and composing music. The neat arrangements and voice harmonisations sometimes suggest madrigals. A useful album for someone from a white Euro-background wanting to feel their way into Middle Eastern music.

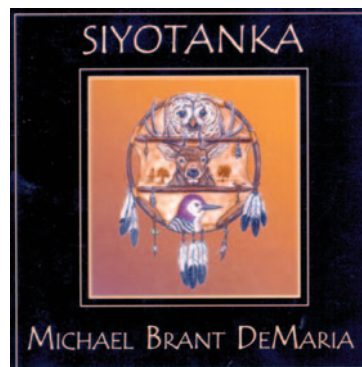
### SIYOTANKA

by Michael Brant DeMaria

Ontos Music, USA, 2008 (69mins)

Distributor: **USA**—Ontos Music, tel (415) 459 1892, www.ontos.org

An ancient Native American legend explains the origin of the flute. It's a coming-of-age story of a boy's vision quest and his personal "soul song". The word *siyotanka* is Lakota for "flute", but literally means "great song". Flautist Michael DeMaria drew on his work as a psychologist and wilderness vision quest leader in his musical re-creation of the legend. DeMaria has performed with accomplished musicians in the Native American and New Age musical genres such as Carlos Nakai, Jeff Ball and Coyote Oldman. An entrancing album of flute music.





### Continued from page 15

The economic prospects are terrifying. Bankruptcies in the United States, Canada and the European Union are occurring at an alarming rate. Country-level exports have collapsed, leading to a contraction of international trade.

Reports from the Asian economies indicate a massive increase in unemployment. In China's Pearl River Basin in southern Guangdong Province's industrial export processing economy, some 700,000 workers were laid off in January. In Japan, industrial output has collapsed by more than 20 per cent since December. In the Philippines, exports collapsed by more than 40 per cent in December.

There are no solutions under the prevailing global financial architecture. Meaningful policies cannot be achieved without radically reforming the workings of the international banking system.

What is required is an overhaul of the monetary system including the functions and ownership of the central bank, the arrest and prosecution of those involved in financial fraud both in the financial system and in governmental agencies, the freezing of all accounts where fraudulent transfers have been deposited, and the cancellation of debts resulting from fraudulent trade and/or market manipulation.

People across the globe must mobilise. This struggle to democratise the financial and fiscal apparatus must be broad-based and democratic, encompassing all sectors of society at all levels in all countries. What is ultimately required is to disarm the financial establishment. We need to:

- confiscate those assets which were obtained through fraud and financial manipulation;
- restore the savings of households through reverse transfers;
- return the bail-out money to the

Treasury and freeze the activities of the hedge funds;

- freeze the gamut of speculative transactions including short-selling and derivatives trading. ∞

### **About the Author:**

Professor Michel Chossudovsky is Professor of Economics at the University of Ottawa and Director of the Centre for Research on Globalization, Montreal, Canada ([www.globalresearch.ca](http://www.globalresearch.ca)). He is editor of and a regular contributor to GlobalResearch.ca, the group's online presence. He is the author of *The Globalisation of Poverty and the New World Order* (1997) and *America's "War on Terrorism"* (2005).

The complete version of Prof. Chossudovsky's original article "America's Fiscal Collapse", with documents and tables, is available at the web page <http://www.globalresearch.ca/index.php?context=va&aid=12517>.

## The Prostate Cancer Link to Bacteria

### Continued from page 20

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Continued from page 44

When I saw the ruins in 1975—via the Morocco Exploration, sponsored by Europa House at the University of Illinois—my investigations revealed that there are clearly and indisputably three levels, representing three totally different cultures.

The top layer (the most recent) is Roman; the layer beneath it is Carthaginian; but the lowest level is what attracted my interest: stone masonry representing some totally unknown, prehistoric culture.

This bottom level literally jumps out at the observer, since it incorporates massive stones and the peculiar polygonal style similar to that used in prehistoric South America.

The question which occurs to me is: what are these similar masonry styles doing on opposite sides of the Atlantic Ocean?

### More Evidence for Atlantis?

There are other specific ruins scattered about the world which could possibly be associated with Atlantis, some of which I have visited and some not. Since these are several in number, I merely list them:

- megalithic ruins on the island of Malta, with "ruts" going into the Mediterranean Sea;
- various underwater ruins in the Aegean Islands;
- underwater ruins near the Bahama Islands in the Atlantic Ocean;
- reported ruins in Atlantic waters offshore near Cádiz, Spain;
- underwater ruins located off Morocco in 50–60 feet of water;
- mysterious ruins on the sea floor near the Canary Islands;
- the stone circles of Brittany, which trail off into the Atlantic.

Several of these are totally underwater, while others are only partially submerged. Some appear to be ports having harbours. Since nobody in their right mind would

suggest that the ancient builders originally built the structures under the waters, the only other option is that the rising sea covered them—and this would have happened 10,000 ( $\pm$  3,000) years ago, so they would have to be at least that old.  $\infty$

### About the Author:

R. Cedric Leonard, based in the USA, is a retired electronic technician and an amateur archaeologist with a Bachelor of Arts in anthropology and an interest in classical languages and ancient cultures, particularly vestiges of Atlantis. He has written several books and scientific papers on such subjects. In his extensive travels he has visited numerous archaeological sites.

Mr Leonard can be contacted via his website <http://www.atlantisquest.com>.

For the complete version of this article, including photographs, maps, endnotes and bibliography, go to the web page <http://www.atlantisquest.com/Archeology.html>.

### Continued from page 55

what orbs really are and what they mean, we may need to take a wider view and a closer look at these small transient lights, at *ch'i* energy and at current theories about the quantum nature of Reality.

### Consciousness and the cosmos

As a species, we are on the verge of a totally new view of the universe which will be as radically different to orthodox scientific views as Darwinian evolutionary theory was to the rigid dogma of the fundamentalist creationists of the late 19th century.

In the last 10 years, advances in neuroscience have brought us new revelations about the human mind, added to which quantum physics has revealed a dynamic new universe where mind and matter are inextricably connected.

In this new universe it is apparent that consciousness, not matter, is

the foundation of everything which exists.

Everything is interconnected by thought and intentionality.

We live in a synchronistic, conscious cosmos, in a quantum universe which has more in common with ancient metaphysical concepts such as the Tao and *ch'i* than it does with the particle-based world of Newtonian physics.

It is in this conceptual framework that I believe we must view the phenomenon of orbs, for according to the evidence it touches directly upon the existence of this greater Reality, perhaps even upon the nature of consciousness itself.

Our own experiences and those of many others indicate that orbs are dynamic entities which evidence conscious purpose. In terms of the interconnectedness of all things, orbs are perhaps reminding us all individually that we are not alone—and never were! ∞

### About the Author:

John Pickering, based in rural England, is a writer, graphic designer and part-time cartoonist, an educator and a former art therapist.

He and his partner Katie Hall, a contemporary artist, are authors of *Beyond Photography*, published in December 2006 by O Books (<http://www.o-books.net>). See review in NEXUS vol. 14, no. 2. The book is distributed in Australia by Brumby Books (email [sales@brumbybooks.com.au](mailto:sales@brumbybooks.com.au)), in the UK by Orca Book Services (email [orders@orcabookservices.co.uk](mailto:orders@orcabookservices.co.uk)) and in the USA by National Book Network (email [custserv@nbnbooks.com](mailto:custserv@nbnbooks.com)). It is also available online from <http://www.amazon.co.uk>.

John Pickering and Katie Hall are currently finalising their follow-up book *Beyond Reality: Consciousness & the Paranormal in the Quantum Universe*, which is due to be published later in 2009.

For more information and to view a multitude of orb images, visit <http://www.lights2beyond.com>.