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THE ALTERNATIVE NEWS MAGAZINE

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Nazca mummies

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the dark side

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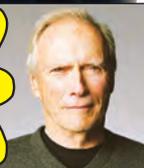
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## EDITORIAL

# 'Facts' and the War on Truth

It was in the mid- to late 1980s, when I was an activist engaged in raising awareness about whaling, logging, water fluoridation, alternative health, suppressed science and so on, that we realised the incredible potential of this new thing called the Internet. Not only could we activists communicate more quickly and easily, but we could make information accessible to the public in a fraction of the time and with less financial cost. Activist groups announced that the Internet was *the* information revolution vehicle that would inspire us and somehow liberate us from mass media enslavement. It would be used to expose the corruption and the lies—and the sleeping masses would wake up and choose peace over war, save our environment and become healthier. Far from it! Instead of helping the public become better informed and smarter about important choices in life, the Internet ultimately has made too many people even more poorly informed and more ignorant overall.

We are now at a key point in human and Internet history. With advances in artificial intelligence (AI) and robotics, we are handing over more and more decisions about law, medicine, insurance, warfare, policing, etc., to technologies—and losing many of our jobs in the process. For AI systems to do their work, they have to be programmed with definitions about everything—not only definitions of words (and their contextual usage) but definitions about such things as microwave radiation safety levels, tax rates for different income brackets, state and national laws, which people are criminals or terrorists, locations and how to get to them, and so on.

All of this is fine if we can actually trust the gatekeepers of the Internet when we do our searches, but it seems we can't. The biggest "gatekeepers" of them all are Google and Facebook. Google is already taking sides on social, political, historical and health issues. If you used Google to search for a list of US presidential candidates in last year's election, you would *not* have found Donald Trump in your results. More recently, Google abandoned any semblance of taking sides with the "left" or the "right" of US politics. It is "demonetising" controversial content and steering search traffic away from anything that is not marching in lockstep with the mainstream media. In other words, Google is now an active player in determining what is correct thinking, which pretty much boils down to supporting the military-intelligence-industrial-media complex—those who profit from armaments and wars, and rig events and reporting to keep conflicts (and our perception of them) alive. The fact that Google and Facebook are demonetising, steering traffic away from alternative news and promoting mainstream narratives suggests that the way is being cleared for unchallengeable war propaganda and false-flag operations.

As an example, for over a decade the USA and its allies have been encircling China with weapons and bases, citing various reasons and excuses, the latest being North Korea's aggression. Those who live in the USA and the UK will be aware of the daily demonisation of Russia in the news media, but make no mistake: it is China that the bloodlined warmongers have in their sights.

NEXUS and NexusNewsfeed.com aim to keep you aware of the *real* facts.

– Duncan

**Google is already taking sides on social, political, historical and health issues...and is now an active player in determining what is correct thinking...**

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## LETTERS

### Homeopathy vs MMR Autism

Dear Duncan: Thank you for giving ample attention in your last NEXUS [24/05] to the link between the MMR [measles-mumps-rubella] vaccination and autism.

May I point out to you that there exists a final piece of evidence that indeed the MMR vaccination is the cause (in many cases) of autism. My friend and colleague, Tinus Smits, MD, discovered a way to treat these children and has helped many of them towards a normal life. His treatment was with a special series of homeopathic potencies of MMR vaccine: 30K, 200K, MK and 10MK. In his book *Autism: Beyond Despair – Homeopathy has the answers* (2010), he explains what he did and saw.

I could not believe him until I treated a deeply autistic child, who gave no contact, with this series and saw him change into a bright and, as was later discovered, superintelligent child who was healed completely. He even gave me a telephone call a couple of years later to tell me how good his condition was. Indeed, I also saw a second (less severe) case that was healed. Then I retired from practice. There is an ancient expression, "He who heals is right". When remedies neutralising the MMR vaccination heal autism, this is the final proof that the MMR vaccine causes autism.

Another fact that clinched the matter is that the authorities tried to prosecute Tinus for his findings. As soon as you see that happening, you know for certain that something stinks to high heaven.

H. C. Moolenburgh, Netherlands

### Eliminating Pathogens

Dear Editor: I read the article by Paul Fassa [Global News, 24/04] with great interest, especially because my eyes went straight to

the famous photo of Royal Raymond Rife (which is reproduced in my *Rife Handbook*).

I agree with Fassa's point that the terrain of the human or animal host can either dissuade or promote the proliferation of pathogenic microbes—that microbes won't multiply if there's no food for them. I also agree with Fassa's statements: that the medical–pharmaceutical cartel relies on fear to promote dangerous drugs that typically don't address the underlying health issues; that in many cases it's difficult to find or identify specific pathogens; and that the recent heavily publicised "epidemics" of Ebola, Zika and various influenzas are nothing more than scare tactics to promote the sale and widespread dissemination of toxic drugs.

However, I don't agree with Fassa's conclusion that if we only cleaned up our diet, we'd all be healthy. The extensive research I've done on how we become ill—which includes the findings of Pasteur, Béchamp, Virchow, Young and more—has led me to decide that although diet and lifestyle are vitally important, they aren't the only contributors to becoming ill or staying healthy. We must also factor in electrosmog, chemical contaminants in our air, water and soil, low oxygen, sleep deficit, abnormal inflammation, and even adverse weather conditions (which affect our voltage or electron supply). In some instances, just one of these conditions can be a life-changer to our detriment.

Our planet has never been so heavily toxified. Genetically engineered [GE] food, air and water pollution as well as nanoparticles added to everything from inks to skin care products are ubiquitous. In addition, GE microbes, which are added to often mandatory vaccines and dispersed through the air via chemtrails, affect everyone, subtly



or overtly. These new, nasty, synthesised pathogens are even patented, indicating efforts to induce a wide range of debilitation quickly in as many people as possible. In all of Earth's history, we have never encountered so many pathogens with such far-reaching and toxic effects for which we have no evolutionary precedent of natural resistance.

At best, Fassa's summary is naïve and incomplete. At worst, it may be construed as blaming those who become sick. Surely we need all the help we can get—so let's devote our resources not only to prevention but also to eliminating pathogens directly, whether it's by using herbs, nutrients or some form of electromedicine such as Rife therapy. Pathogen removal is a valid method in its own right. Eliminating the proliferation of microbes, along with slowing or halting the influx of microbial waste in the body, can go a long way in helping to ease the body's burdens so it can start healing on its own.

Nenah Sylver, PhD, author of *The Rife Handbook of Frequency Therapy and Holistic Health*, email [nenah@nenahsylver.com](mailto:nenah@nenahsylver.com)

### EMFs and Calcium Influx

Dear Editor: The following is an excerpt from the latest edition of *The Magnesium Miracle* (Random House, August 2017). In it, I explain how magnesium can help neutralise the calcium influx caused by electromagnetic fields (EMFs) and help reduce the EMF sensitivity that some people experience.

Appropriate research would test

EMF-sensitive people using an ionised magnesium blood test to see if magnesium deficiency correlates with their symptoms. There is much more in the book that applies, but this section focuses on the work of Dr Martin Pall:

"...A paper by Dr. Martin Pall reviewing twenty-three EMF studies found that the production of EMF side effects has to do with voltage-gated calcium channels (VGCCs).<sup>1</sup> The wide range of actions caused by EMFs are thought to be due to two different pathways for VGCCs. Scientists don't know the cause of EHS [electromagnetic hypersensitivity], but when I see that voltage-gated calcium channels are involved, I nominate magnesium deficiency as a probable cause.

"In chapter 1, I discuss calcium channels and how they are jealously guarded by magnesium. Magnesium, at a concentration ten thousand times greater than that of calcium inside the cells, allows only a certain amount of calcium to enter to create the necessary electrical transmission, and then immediately helps to eject the calcium once the job is done. Otherwise, if calcium accumulates in the cell it triggers hyperexcitability and calcification and disrupts cell function. Too much calcium entering cells can cause symptoms of heart disease (such as angina, high blood pressure, and arrhythmia), asthma, and headaches. Magnesium is nature's calcium channel blocker.

"What are the main symptoms of magnesium deficiency and calcium excess? Headaches, fatigue, insomnia, muscle pain—just like EHS symptoms. My theory is that the negative effects of EMFs occur in people who are magnesium deficient, and their hypersensitivity to EMFs is because they don't have enough magnesium to block the calcium channels stimulated by EMFs. Maybe my theory will be validated in a decade or two; in the meantime, get your Magnesium RBC [red blood cell] test and begin

taking magnesium to prevent upwards of one hundred symptoms, including damage from EMFs.

"Obviously more studies are called for, but Dr. Pall's paper does help vindicate people who feel that EMFs are operating at more than just a heat-producing level."

1. Pall, M., "Electromagnetic fields act via activation of voltage-gated calcium channels to produce beneficial or adverse effects", *J. Cell. Mol. Med.* 2013 Jun 26

Carolyn Dean, MD, ND,  
<http://www.drcarolyndean.com>,  
<http://www.drcarolyndeanlive.com>

### Dirty Electricity Concerns

Dear Duncan: I would like to add my two cents' worth to the debate on dirty electricity (DE). I note the comments by D. Fisher [Letters, 24/05]. I would like to "home in" on a particular frequency band.

Having worked in the field of industrial and domestic electronics for 40 years prior to retirement, I became concerned about the need for extensive shielding of microwave ovens, as the frequency they operate on is known to be very injurious if absorbed into the body (not casting any suspicion on the food in them, as microwave activity does not persist in the food). They operate on a frequency of 2.4 GHz. This is known to be the most efficient frequency to activate, and therefore heat, water molecules.

There are many types of devices used in virtually every home and outside, operating on the same frequency. Some, such as computers, may have adequate shielding because their basic operation does not rely on radiating energy (things such as Wi-Fi®, Bluetooth®, etc. are ancillary). My main contention here is devices which are intrinsically energy radiators. There has been much debate about health issues with mobile phones, even "proof" of Wi-Fi hotspots damaging trees. Some DECT (home cordless phones) operate on 2.4 GHz, and

frankly this worries me.

I don't have access to the necessary measuring equipment, but it would not surprise me to find significant microwave energy "riding" on household power wiring whenever microwave ovens are used. A less obvious source of trouble is the ubiquitous switch-mode power supply (SMPS). This is the biggest DE problem with inverters associated mainly with solar power systems. The rapid switching on and off can create harmonic frequencies well into the ultra-high-frequency (UHF) band.

I'm not pushing any specific product designed to alleviate the above problems, but anything which can adequately shield the device and filter power lines gets my vote. Mobile phones, etc., are a different problem...

Sincerely,

Murray K., Kingaroy, Qld, Australia

### Validation on ET Contact

Dear Editor: I recently watched a NEXUS Conference video on YouTube hosting Mary Rodwell, a British nurse, who conveyed special knowledge about ET contact and contactees and knows that there are many civilisations visiting Earth.

I had a wonderful life-changing event in February. I was taken away to Taurus where I met many different species of sentient life. All of them are very kind and very disturbed about the condition of our environment here on this planet.

Almost every day, every week, they have been in contact with me to reassure me and show me things that I need to accomplish. In one of my communications with them, they told me to look on YouTube *now*, and as soon as I turned on the app I found Mary Rodwell talking about ETs and EDs. It was the most amazing form of validation, as I had thought I was going nuts!

Thank you all at NEXUS Magazine for being unbiased and honest.

David W., Hermosa Beach, California, USA



# Global News from **NEXUS** Newsfeed

## END OF THE PETRODOLLAR? CHINA CONSIDERS GOLD- BACKED OIL BENCHMARK

China is soon expected to launch a crude oil futures contract priced in yuan and convertible into gold in what analysts say could be a game-changer for the industry. The contract could become the most important Asia-based crude oil benchmark, given that China is the world's biggest oil importer. Crude oil is usually priced in US dollars.

China's move will allow exporters such as Russia and Iran to circumvent US sanctions by trading in yuan. To further entice trade, China says, the yuan will be fully convertible into gold on exchanges in Shanghai and Hong Kong.

China has long wanted to reduce the dominance of the US dollar in the commodities markets. Yuan-denominated gold futures have been traded on the Shanghai Gold Exchange since April 2016, and the exchange is planning to launch the product in Budapest later this year.

Yuan-denominated gold contracts were also launched in Hong Kong in July—after two unsuccessful earlier attempts—as China seeks to internationalise its currency. These have been moderately successful.

The existence of yuan-backed oil and gold futures means that users will have the option of being paid in physical gold, said Alasdair Macleod, Head of Research at Goldmoney, a gold-based financial services company in Toronto. "It is a mechanism which is likely to appeal to oil producers that prefer to avoid using dollars, and are not ready to accept that being paid in yuan for oil sales to China is a good

idea either," Macleod noted.

Yuan-denominated gold contracts have significant implications, especially for countries like Russia, Iran, Qatar and Venezuela, said Louis-Vincent Gave, Chief Executive Officer of Gavekal, a Hong Kong-based financial research company. These countries would be less vulnerable to US use of the dollar as a "soft weapon" if they should fall foul of US foreign policy, he said.

"By creating a gold contract settled in renminbi [another name for the yuan], Russia may now sell oil to China for renminbi, then take whatever excess currency it earns to buy gold in Hong Kong. As a result, Russia does not have to buy Chinese assets or switch the proceeds into dollars," said Gave.

China has been indicating to producers that those who are happy to sell to them in yuan will benefit from more business. Producers that will not sell to China in yuan will lose market share.

(Source: *Asia.Nikkei.com*, 1 September 2017, <http://tinyurl.com/ya2afdtw>)

## NEW FOSSIL FOOTPRINTS CHALLENGE THEORIES OF HUMAN EVOLUTION

Newly discovered human-like footprints in Crete may put the established narrative of early human evolution to the test. The footprints are approximately 5.7 million years old and were made at a time when, according to previous research, our ancestors in Africa had ape-like feet.

Ever since the discovery of fossils of *Australopithecus* in Southern and Eastern Africa during the middle years of the 20th century, the origin

of the human lineage has been thought to lie in Africa. More recent fossil discoveries in the same region, including the iconic 3.7-million-year-old Laetoli footprints from Tanzania which show human-like feet and upright locomotion, have cemented the idea that hominins not only originated in Africa but remained isolated there for several million years before they moved into Europe and Asia.

The discovery of approximately 5.7-million-year-old human-like footprints at Trachilos, Crete,



A fossilised footprint found in Crete. (Photo: Dr Andrzej Boczarowski)

overthrows this simple picture and suggests a more complex reality.

"What makes this controversial is the age and location of the prints," said study co-author Professor Per Erik Ahlberg of Uppsala University in Sweden.

These footprints from Crete are younger than the oldest known fossil hominin, *Sahelanthropus* from

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Chad, and contemporaneous with *Orrorin* from Kenya, but more than a million years older than *Ardipithecus ramidus* with its ape-like feet. This conflicts with the hypothesis that *Ardipithecus* is a direct ancestor of later hominins.

Furthermore, until this year's discovery, all fossil hominins older than 1.8 million years came from Africa, leading most researchers to conclude that this is where the group evolved.

However, the Trachilos footprints were securely dated using a combination of foraminifera (marine microfossils) from overlying and underlying beds, and they lie just below a very distinctive sedimentary rock that was formed when the Mediterranean Sea briefly dried out 5.6 million years ago.

"This discovery challenges the established narrative of early human evolution head-on and is likely to generate a lot of debate. Whether the human origins research community will accept fossil footprints as conclusive evidence of the presence of hominins in the Miocene of Crete remains to be seen," Professor Ahlberg remarked. (Source: *ScienceDaily.com*, 31 August 2017, <http://tinyurl.com/yc4crkdn>)

## SECRET LIFE MAY THRIVE IN WARM ANTARCTIC CAVES

A new study led by the Australian National University (ANU) has found that animals and plants may live in warm caves found underneath Antarctica's glaciers. Around Mount Erebus, an active volcano on Ross Island, steam has hollowed out extensive cave systems.

Lead researcher Dr Ceridwen Fraser, of the ANU Fenner School of Environment and Society, said that forensic analyses of soil samples from these caves have revealed intriguing traces of DNA from algae, mosses and small animals.

"It can be really warm inside the caves—up to 25 degrees Celsius in some caves. You could wear a



Antarctic ice caves support life. (Photo: Dr Michael S. Becker)

T-shirt in there and be pretty comfortable."

Dr Fraser stated that most of the DNA found in the caves of Mount Erebus is similar to DNA from plants and animals—including mosses, algae and invertebrates—found elsewhere in Antarctica, but not all sequences could be fully identified.

"The results from this study give us a tantalising glimpse of what might live beneath the ice in Antarctica—there might even be new species of animals and plants," she added.

Dr Charles Lee, a co-researcher from the University of Waikato, New Zealand, commented: "We don't yet know just how many cave systems exist around Antarctica's volcanoes, or how interconnected these subglacial environments might be. They're really difficult to identify, get to and explore." (Source: *ANU*, 8 September 2017, <http://tinyurl.com/y8bphhyx>)

## HEAT THERAPY MAY HELP PATIENTS WITH CANCER, AUTOIMMUNE DISORDERS AND ORGAN TRANSPLANTS

Heat therapy may be a promising treatment in the fight against cancer and autoimmune problems and in efforts to avoid organ rejection in transplant patients, according to researchers at the University of Kentucky. The research team exposed colorectal cancer cells and

T-cells—immune cells that fight disease—to temperatures lower (hypothermic) and higher (hyperthermic) than normal body temperatures.

"It is apparent that high temperature is naturally involved in immune response. As we get sick we normally develop some level of fever, which is involved with the body's normal response to infections. This activates the immune system to attack or eliminate infections," said the study's lead author Dr Mihail Mitov.

"A popular theory in the field of thermotherapy is that prolonged hyperthermia causes cell-cycle arrest in cancer cells. This explains some of the cancer-stopping effects of thermotherapy. But apparently, there are also changes in the energy metabolism of cells and possibly other yet unknown processes that affect the energetic profiles of the cells. These processes could be exploited for the development of new treatments or therapeutic approaches with fewer side effects than chemotherapy," he noted.

Normal function of immune cells, such as T-cells, relies heavily on an activation process that involves increased glycolysis—the breakdown of glucose into pyruvate. Such switches in T-cell metabolism are believed to help boost the cells' ability to fight off infection and disease. Cancer cells are known to be more glycolytic than normal, noncancerous cells.

"These findings provide valuable insights into the metabolic and bioenergetics changes of colorectal cancer cells and human T-cells under hypo- and hyperthermia conditions that could potentially lead to the development of better-targeted and personalized strategies for patients with cancer, metabolic disorders, diabetes or transplanted organs," the research team wrote.

(Source: *ScienceDaily.com*, 30 August 2017, <http://tinyurl.com/ybf5w5te>)

## ARTIFICIAL INTELLIGENCE IN WARFARE: THE BID TO BAN 'KILLER ROBOTS'

Imagine a world where wars could be won by autonomous robots capable of learning from their experiences and adjusting their actions according to enemy tactics.

It sounds like something from the *Terminator* movie franchise, but the truth is that it may well be a consideration for the defence industry. That's why scientists and technology leaders around the world are joining forces to request that "killer robots" be banned from the battlefield.

At the International Joint Conference on Artificial Intelligence (IJCAI) held in Melbourne in August, many of the top robotics and artificial intelligence (AI) companies came together to urge the United Nations to ban the use of lethal autonomous weapons.

In an open letter signed by 116 founders of AI and robotics companies from 26 countries, the industry is urging a move away from lethal AI systems.

However, the UN has delayed meetings to discuss the "robot arms race" until later in the year.

During the opening of the IJCAI conference, Dr Toby Walsh, Professor of Artificial Intelligence in the School of Computer Science and Engineering at the University of New South Wales, released the letter, urging the UN to fight back against the robot arms race.

The letter contains signatures from some of the most well-respected people in the industry, including Elon Musk, co-founder of Neuralink and Tesla, Mustafa Suleyman, co-founder of Google's DeepMind Technologies, Esben Østergaard, co-founder of Universal Robots, and Jérôme Monceaux, co-founder of Aldebaran Robotics.

The letter represents the very first time that robotics companies and AI leaders have taken a joint stand on how they think the industry should progress. In the past, only one



The humanoid robot Atlas, unveiled in 2013 by DARPA and Boston Dynamics. (Photo: DARPA)

company, Clearpath Robotics from Canada, has called for a ban on lethal AI weapons.

The concept of autonomous weapons might seem futuristic, but it's been under discussion for some time now. In fact, 123 member nations from the UN Review Conference of the Convention on Certain Conventional Weapons have agreed to begin formal talks about what lethal autonomous weapons systems could mean for the future of humanity. Of the members involved, 19 nations have already called for a ban.

The IJCAI letter is a response to the dangers of AI to us as a species if automated weapons begin to revolutionise warfare. If AI is used on the battleground, then armed conflict could reach a completely new level, with weapons of terror that we never had the scope to comprehend in the past. Once we've begun to explore the use of AI for lethal purposes, the potential

for destruction is limitless.

The letter produced by Dr Walsh is a plea from the robotics and AI companies of the world to decide that AI will be a force used only for good and for human evolution.

(Source: *Commstrader.com*, 5 September 2017, <http://tinyurl.com/ycaupzuz>)

## DOES ORGANIC MATERIAL OF COMETS PRE-DATE OUR SOLAR SYSTEM?

The *Rosetta* space probe with its lander *Philae* discovered a large amount of organic compounds in the nucleus of comet Chury.

In an article published in *Monthly Notices of the Royal Astronomical Society* on 31 August, two French researchers advance the theory that this matter originates in interstellar space and pre-dates the birth of our solar system.

The European Space Agency's *Rosetta* mission, which ended in September 2016, found that organic compounds make up 40 per cent (by mass) of the nucleus of comet 67P/Churyumov-Gerasimenko (also known as Chury). Organic compounds combining carbon, hydrogen, nitrogen and oxygen are the building blocks of life on Earth.

Yet, according to the researchers, Dr Jean-Loup Bertaux (Laboratoire Atmosphères, Milieux, Observations Spatiales/CNRS/UPMC/UVSQ) and Dr Rosine Lallemand (Laboratoire Galaxies et Étoiles, Physique et Instrumentation, Observatoire de Paris/CNRS/Université Paris Diderot), these organic molecules were produced in interstellar space well before the formation of our solar system.

If cometary organic molecules were indeed produced in interstellar space—and if they played a role in the emergence of life on our planet, as scientists believe today—might they not also have seeded life on many other planets of our galaxy? (Source: *SpaceDaily.com*, 7 September 2017, <http://tinyurl.com/y7vo5ppq>)

## NEW POLICE POWERS MEAN FRIDGES COULD BE TURNED INTO LISTENING DEVICES

One day your refrigerator could be turned into a covert listening device used by police conducting surveillance. The revelation was made during a Queensland Parliament committee hearing on proposed legislation to give police more powers to combat terrorism.

Police Commissioner Ian Stewart said technology is rapidly changing, and police and security agencies could use devices already in place, which are hooked up wirelessly in the connected home, and turn them into listening devices.

The Counter-Terrorism and Other Legislation Amendment Bill 2017 would give police the power to turn existing devices into surveillance devices, including by installing software remotely, during a declared terrorism emergency. The legislation would also allow police the power to search a person or a vehicle without a warrant during a declared emergency. (Update: The Bill was passed on 5 September.) (Source: *BrisbaneTimes.com.au*, 24 July 2017, <http://tinyurl.com/y8b5ouyw>)

## OPIOID PAINKILLER USE AND OVERDOSES SOAR IN UK, USA

Prescriptions written for strong painkillers have doubled in the UK in 15 years. One in 20 people were prescribed opioid painkillers, such as codeine and tramadol, in 2015—twice the amount as in 2000.

The study by the Public Health Research Consortium found that patients were twice as likely to be prescribed opioids than sedative drugs such as benzodiazepines.

The duration of prescriptions has also increased: the average course of addictive drugs in 2000 was 64 days, whereas prescription lengths peaked in 2014 at 102 days.

Meanwhile in the USA, 91 people die every day from opioid overdose. Since 1999, the number of overdose deaths involving opioids (including

prescription opioids such as oxycodone, hydrocodone and methadone as well as heroin) has quadrupled. From 2000 to 2015, more than half a million people died from drug overdoses.

According to the US Centers for Disease Control and Prevention, overdoses from prescription opioids are a driving factor in the 15-year increase in opioid overdose deaths.

The amount of prescription opioids sold to pharmacies, hospitals and doctors' offices nearly quadrupled between 1999 and 2010, yet there has not been an overall change in the level of pain reported by Americans.

(Sources: *DailyMail.co.uk*, 9 September 2017, [tinyurl.com/ybgt3cpf](http://tinyurl.com/ybgt3cpf); US CDC, 30 August 2017, <http://tinyurl.com/h9qlzj9>)

## ALCOHOL INDUSTRY MISLEADS THE PUBLIC OVER CANCER RISKS

The alcohol industry uses distortion, denial and distraction to mislead people about the risks of developing cancer from drinking alcoholic beverages, often employing tactics similar to those of the tobacco industry in misleading smokers, according to a new study.

"The weight of scientific evidence is clear: drinking alcohol increases the risk of some of the most common forms of cancer," said

Mark Petticrew, Professor of Public Health at the London School of Hygiene & Tropical Medicine and lead author of the study.

Among the significant findings is that industry materials omitted or misrepresented evidence on breast and bowel cancers, both of which are linked to drinking alcohol.

Professor Sir Ian Gilmore, chair of Alcohol Health Alliance UK, said the study "clearly shows the alcohol industry misleading the public".

A new US study has found that the rate of alcoholism among adult Americans has climbed by nearly 50 per cent in the first decade of the 2000s, and one in eight or 12.7 per cent of US adults meets diagnostic criteria for "alcohol use disorder". This is while the US Centers for Disease Control estimates that 88,000 US residents die of alcohol-related causes each year, which is more than twice the annual death toll from opiates overdose.

The study's statistics are even more bleak for specific groups. For instance, alcohol use disorders nearly doubled to 92.8 per cent among the African American population and hiked nearly 84 per cent among female subjects. (Sources: *LSHTM*, 8 September 2017, <http://tinyurl.com/ybdbbwyy>; *PressTV.ir*, 9 September 2017, <http://tinyurl.com/ydaeyma9>; *PressTV.ir*, 12 August 2017, <http://tinyurl.com/ybutqvmq>)



Alcohol consumption increases the risk for some cancers.

## HAS INDIA'S NARENDRA MODI SWITCHED SIDES?

by F. William Engdahl

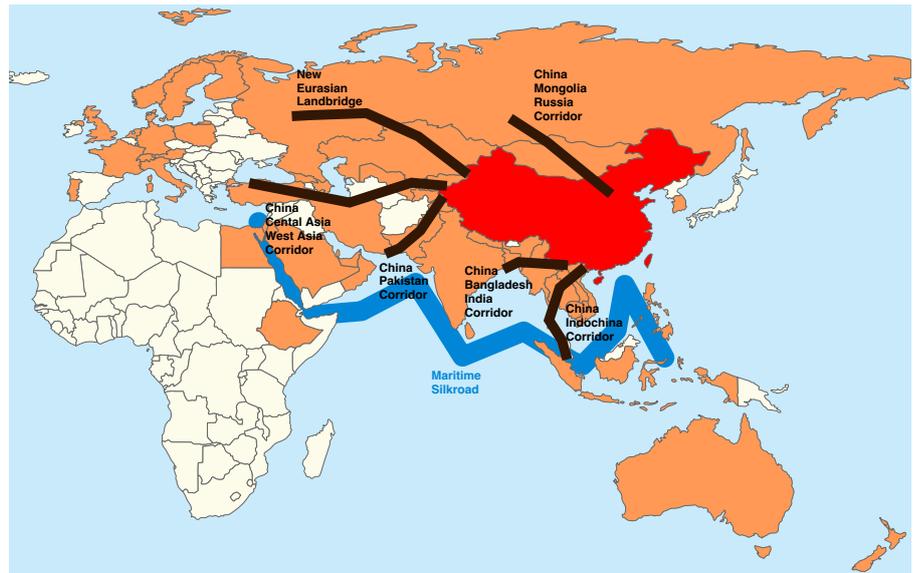
Over the past few months, India has changed its attitude abruptly on several issues. It is as if Prime Minister Narendra Modi is trying to sabotage his rapprochement with China and Pakistan and create artificial conflicts. For F. William Engdahl, this shift would be inspired by Washington and Tel Aviv. — Voltaire Network

It's very disconcerting to see the nation of India, one of the great potential leading countries of the world, systematically self-destruct. Provoking a new war with China over remote chunks of land in the high Himalayas, where the borders of China's Tibet Autonomous Region converge with India and the Kingdom of Bhutan, is only the latest example. The question posed is: who or what grand design is behind India's foreign and domestic policies under Prime Minister Narendra Modi? Has Modi switched sides? If so, to whom?

### Eurasian Harmony?

Only a year ago, all seemed if not serene then on its way to peaceful development with India's Asian neighbours including China and even, cautiously, Pakistan. In 2016, India and Pakistan were accepted as formal members of the increasingly important Shanghai Cooperation Organisation (SCO), of which China and Russia are founding members, raising hopes that the common SCO format would permit peaceful resolution of simmering border tensions created by the 1947 British partition of India into a dominant Muslim Pakistan and a majority Hindu India with several unresolved friction areas including Kashmir, slyly left by Viceroy Lord Mountbatten as future explosion points.

India is a member with China of the BRICS organisation, which has set up its New Development Bank



China's Belt and Road Initiative, its six land corridors shown in black, its maritime routes in blue and AIIB members in orange. (Image: Lommes)

in Shanghai with its first President an Indian. India is also a member of the China-based Asian Infrastructure Investment Bank (AIIB). Until Modi announced India's refusal to join the 14–15 May Beijing conference on China's One Belt, One Road (OBOR) Initiative [now called the Belt and Road Initiative in English], India was also a participant in the vast Eurasian infrastructure project.

How quickly things have changed. Modi announced his refusal to participate in the OBOR conference, citing Chinese investment in the China–Pakistan Economic Corridor (CPEC), a US\$62-billion highway, rail and port infrastructure development between China and Pakistan, part of China's OBOR, which passes through Pakistan-occupied Kashmir.

Then, with surprising haste, India unveiled a vision document for the Asia–Africa Growth Corridor (AAGC) at the African Development Bank Group meeting in Gujarat on 22–26 May in a joint project with Japan's Prime Minister Shinzo Abe. The Indo–Japan AAGC document is an explicit part of the so-called Indo–Pacific "Freedom Corridor" being put in place by India and Japan to counter China's OBOR, using Japanese money and India's established presence in Africa.

Under Shinzo Abe, Japan has signed on to an increasingly aggressive anti-China agenda including over the disputed Diaoyu Islands, or Senkaku Islands as they're known in Japan, in the East China Sea. Japan has also opted to install US missile defence systems, and under Abe is regarded as the strongest US military ally in Asia.

### Trips to Washington and Tel Aviv

Weeks later, on 26 June, India's Prime Minister Narendra Modi met with US President Donald Trump in Washington. That same day, conveniently, the US Department of State announced Mohammad Yusuf Shah, the Pakistan-based Kashmiri leader of the militant Kashmir Valley Hizb-ul-Mujahideen, as a Specially Designated Global Terrorist (SDGT). This permits US sanctions, among other things, against Pakistan.

As a result of the Modi–Trump talks, the US agreed to sell India 22 of its Guardian drones, a so-called game-changer, for up to \$3 billion. Other items include expanded military cooperation and India's agreement to buy US shale LNG [liquefied natural gas].

Modi seemed so pleased with his Washington talks that he invited the President's daughter, Ivanka Trump,

to lead the US delegation to the Global Entrepreneurship Summit later this year in India.

Still glowing from his clear political success in Washington, Modi flew to Israel on 7 July for an unprecedented meeting of an Indian head of government with a Prime Minister of Israel. His talks with Benjamin Netanyahu were hailed in the Indian media as indicating a major shift in India's foreign policy.

Here is where it gets seriously interesting. There exists a secret collaboration between Israel's Mossad intelligence agency and India's Research and Analysis Wing (RAW, established in 1968). In 2008, Mark Sofer, Israel's Ambassador to India, revealed that Israeli Intelligence had provided the Indian Army with vital satellite imagery during India's 1999 Kargil War with Pakistan, which allowed India to bomb the positions of Pakistani troops who had occupied posts in India's Kargil district in the Indian state of Jammu and Kashmir.

### The Dubious Role of Ajit Doval

Modi's July visit to Tel Aviv had been months in the preparation. At the end of February, Modi sent his National Security Adviser Ajit Doval to Tel Aviv to discuss details of the trip. There, Doval met with Yosef Cohen, Director of Mossad, and discussed among other things the alleged support of China and Pakistan along with other states for the Taliban in Afghanistan near the Afghanistan–Pakistan border.

Doval is no softie. In India he is attributed with the so-called "Doval doctrine"—the recent shift in Indian security policy in relation to Pakistan from "defensive" to "defensive-offensive". He is reportedly behind India's surgical strikes on Pakistan in September 2016 and the rise of pro-Indian militants in Kashmir. As

an Indian blog describes it, the Doval doctrine, formulated by Doval in speeches in 2014 and 2015 after he was appointed National Security Adviser in 2014, essentially is aimed at China and Pakistan. It has three themes: "Irrelevance of morality, of extremism freed from calculation or calibration, and reliance on military force." Clearly, Doval has little use for diplomatic solutions.



Donald Trump and Narendra Modi  
(Photo: dailypost.in)

Whatever was privately agreed between Modi and Washington in late June and Tel Aviv in early July, it was in this time frame that the Doklam dispute erupted from India's decision to send troops to intervene forcibly against Chinese construction teams on the sensitive border zone between China, Bhutan and India on the Tibetan Plateau.

China is citing a letter by former Indian Prime Minister Jawaharlal Nehru to Chinese Premier Chou En-Lai in September 1959: "...This Convention of 1890 also defined the boundary between Sikkim and Tibet; and the boundary was later, in 1895, demarcated. There is thus no dispute regarding the boundary of Sikkim with the Tibet region." China also cites a reference of 10 May 2006, besides the 1890 convention and letters of 1959–60, which says: "...Both sides agree on the boundary alignment in the Sikkim Sector." China claims that it "notified" India about the road-

building as a "goodwill" gesture.

At this point, the real issue is not the validity or non-validity under international law of the Chinese arguments. Everything surrounding the recent Doklam dispute between China and India suggests the dark hands of Washington and Tel Aviv in cahoots with the Modi government to use the confrontation to sabotage the progress of China's huge and developing OBOR infrastructure project by attempting to foster another US-instigated proxy war.

The dispute over Doklam need never have escalated on a military front. That was a decision of the Modi government and it clearly bears the fingerprints of Ajit Doval, Modi's National Security Adviser and a former Director of India's Intelligence Bureau.

Has Narendra Modi actually switched sides from being a genuine supporter of the peaceful resolution of Indo–Pakistani and Indo–Chinese border disputes in a spirit of good-willed collaboration within the Shanghai Cooperation Organisation, or has he been Janus-faced in terms of his allegiances since the 2014 onset of his tenure as Prime Minister, a kind of Anglo–American–Israeli Trojan Horse sent to sabotage China's promotion of the new Eurasian Economic Silk Road? The answer is not yet known, at least not by this author.

However, a well-placed Indian source with close ties to the Indian military forces noted to me in recent private correspondence that shortly following Donald Trump's election in November 2016, a senior US intelligence adviser in Trump circles had stated bluntly that there would not be a war between the USA and China but, rather, a war between India and China across the Himalayas. That was in November, at a time when Doklam was completely quiet.

(Source: Edited from *VoltaireNet.org*, 28 August 2017, <http://tinyurl.com/y7zqurdm>)

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# Far-Infrared Healing

Sunlight heats our skin, giving it energy to produce vitamin D, but thermal technologies also have therapeutic benefits.



Photo: Sabine Löwer, pixabay.com

## WHAT IS FAR-INFRARED (FIR) RADIATION AND WHAT DOES IT DO?

Far-infrared rays are energy waves, invisible to the naked eye, which penetrate the surface of the skin, gently elevating the body's surface temperature while activating our systems and functions.

A compilation, September 2017

Our bodies radiate far-infrared energy through the skin at wavelengths of between 3.0 and 50.0 microns or micrometres ( $\mu\text{m}$ ), with most output at 9.4  $\mu\text{m}$ . Our palms emit FIR energy at 8.0 to 14.0  $\mu\text{m}$ .

Palm healing, a tradition that dates back 3,000 years in China, utilises far-infrared rays for their healing properties. Palm healers radiate energy and heat from the palms of their hands in much the same way as Reiki healers do. Research conducted in Taiwan has measured significant levels of far-infrared energy emitted from the hands of Qigong masters. Yogis in India employ palm healing and recommend it especially for relieving eye strain.

## Natural Thermotherapy

Thermal therapy has existed for thousands of years and has been practised by people in civilisations as diverse as the Egyptian and Chinese, the Native American, the Roman and the Finnish.

Humans have long realised that exposure to sunshine enhances and maintains health. Sun therapy is a form of natural FIR thermotherapy and is essential for vitamin D production in our skin, but sunshine is variable according to the season. Far-infrared rays are the invisible rays of natural sunlight with the longest wavelength. We should enjoy sunbathing only in moderation because sunlight contains ultraviolet rays which can burn the skin—and there is no temperature control.

While healing technologies are available that emit far-infrared heat, they do not promote vitamin D production, but at least they don't transmit ultraviolet radiation.

Couples who sleep together act as transmitters and receivers of FIR waves between each other. If you sleep alone, you act as a transmitter of FIR waves but receive none in return. When people sit together, they send and receive FIR vibrations between each other.



An electromagnetic spectrum chart of the different types of electromagnetic (EM) radiation ordered according to increasing frequency level. Frequencies in hertz are given on the scale below. The most familiar form of EM radiation is visible light (centre), with infrared (IR) at its left and ultraviolet (UV) at its right. (Image: US OSHA)

## Thermotherapy Technologies

Over many decades, scientists have found evidence that heat can maintain and enhance the wellness of the human body. They have researched and developed more effective forms of thermal therapy that target specific areas and enable deep heat penetration.

Traditional forms of heat therapy can be hazardous, uncomfortable, unhygienic, inefficient and ineffective. Saunas, for instance, create extremely high temperatures, causing heat stress which can have detrimental effects on health, especially for people who have challenging heart conditions or must sustain their blood pressure. Thermal compressions and wraps can also be problematic: they are difficult to keep in place, don't maintain a constant temperature and lose their heat easily.

Research and development in the 1960s, most notably in Japan and Germany, introduced far-infrared thermal technology and revolutionised treatment with its safe, effective, hygienic and efficient approach. There are now numerous health and medical professionals who use heat therapy technology in rehabilitation, in treating physical problems including sports injuries, and in detoxification. There are also professionals who provide heat therapies for animals. (See the PubMed.gov website for numerous citations of medical publications worldwide.)

## Japanese Far-Infrared Applications

In Japan, researchers have developed a range of far-infrared technologies in the fields of healing, heating, preserving, cooking and drying. Over 150 significant patents were granted between 1977 and 1987. Among the far-infrared products available today are:

- sleeping pads and heaters for instant warmth, even though the air temperature remains cool;
- infrared sauna;
- plastic plates to keep fish and vegetables fresh for longer under refrigeration;
- ovens to replace harmful microwave ovens, allowing more uniform cooking;
- ceramics and ceramic paper;
- fabrics of wool and cotton impregnated with ceramic insulating powder, made into socks, gloves, jackets and car seats; they keep the body warm in a cold climate and provide passive FIR health benefits;

- hairdryers which are cooler, reduce damage to the hair, and dry the hair more quickly;
- panels for incubators used in maternity wards.

## Far-Infrared Medical Healing

In the past 25 years, Japanese and Chinese researchers and clinicians have conducted extensive studies on far-infrared heat therapy, and they report many amazing discoveries. In Japan, an "infrared society" comprising medical doctors and physical therapists is dedicated to advancing research into hyperthermia and the benefits of far-infrared heat. Their findings support FIR thermal therapy as an effective healing method.

Dr Tadashi Ishikawa, who was working in the Research and Development Department at Fuji Medical, was granted a patent in 1965 for a zirconia ceramic infrared heater. The device was used in the first infrared thermal healing systems. Medical practitioners in Japan were the only ones using infrared thermal systems until 1979 when these systems were made available for general use. The technology was further refined into far-infrared systems.

These technologies have been sold in the United States since the 1980s. One application of far-infrared heat in America is in the form of panels used in humidicribs in hospital nurseries to keep newborns warm.

Far-infrared technology has produced outstanding results and is rapidly gaining recognition and acclaim around the world. Its benefits are phenomenal, taking its users beyond initial feelings of wellbeing and relaxation. There have been well over 700,000 far-infrared thermal systems sold in Asia for whole-body treatments. Over 30 million people have received localised FIR treatment in Asia, Europe and Australia with lamps that emit the same 2.0 to 25.0-micron wavebands as employed in a whole-body system.

## Thermal Oncology in Germany

For over 80 years, physicians in Germany have been using an independently developed form of FIR in whole-body therapy.

The Klinik St Georg, a hospital in Bad Aibling, Germany, has a cancer treatment regime consisting of a week of detoxification and strengthening the immune system with

diet and nutritional supplements, followed by two weeks of localised infrared hyperthermia treatment and low-dose chemotherapy. This regime has had positive results in treating cancers. Clinicians at the hospital found:

- FIR heat penetrates the body, raising its temperature to 42 °C (107.6 °F), thus heating cancerous cells; cancer cells die in temperatures above 42 °C;
- FIR heat allows capillaries to expand, thus enabling good circulation and reducing the potential for cancer cells to develop;
- FIR thermal therapy can alleviate pain and prolong life when conventional cancer treatment fails.

### Health Benefits of FIR Therapy

Researchers in Japan and China have reported success in alleviating or eliminating the following health issues using far-infrared therapy:

- arthritis, inflammation, swelling, gout, rheumatism
- asthma, bronchitis, sinus problems
- blood pressure (high)
- cancer, leukaemia, prostate cancer
- carpal tunnel syndrome
- circulation problems
- cirrhosis
- colds, flu, fever
- cystitis
- diabetes mellitus
- headache, earache, migraine
- haemorrhoids
- herpes
- hepatitis
- menstrual problems, premenstrual syndrome, mastitis
- menopause issues
- microorganisms: bacteria, viruses, fungi, parasites
- nephritis (chronic inflammation of the kidneys)
- neuralgia and abnormal nerve function
- nosebleeds
- obesity, cellulite, excess body fat, weight loss
- pain, including back, shoulder, neck and muscles
- paralysis
- sciatica, lumbago
- skin issues: clogged pores, pimples, acne, chapping, wrinkles; damaged, burnt and scarred tissue; elasticity and texture; chilblains; body odour
- sports injuries
- tendonitis
- tinnitus (ringing in the ears)
- toxicity issues
- ulcers (gastric and duodenal)
- uric acid problems
- yeast infections

### Detoxification with Far-Infrared Radiation

Accumulation of toxins is the cause of most physical challenges, including the ageing process and diseases such as cancer. The human body is a reservoir of all kinds

of biotoxins that trigger illness.

An interesting overview of the history and therapeutic value of FIR in detoxification is contained in an article titled "Warming Up to Far-Infrared".<sup>1</sup> Here is an excerpt:

"Randy Gomm of [www.infraredsauna.net](http://www.infraredsauna.net), based in Vancouver, became a distributor of FIR saunas after his life was turned around by detoxification. As a firefighter, his health had begun to deteriorate until he was no longer able to work. He was diagnosed with fibromyalgia, and eventually it was realized that the root of his problem was toxic overload due to occupational exposure. During the eight years he was ill, he says, he had a lot of time to research alternative modalities to regain his health. 'I discovered that leading researchers in fibromyalgia and chronic fatigue syndrome stated that their patients had high toxic loads,' says Randy. 'When their loads were reduced, their symptoms often improved dramatically. It worked for me. Detoxing really helped put me back on my feet.'"



Much of a person's energy is radiated away in the form of infrared energy. Some materials are transparent to infrared light but opaque to visible light (note the plastic bag covering the arm). Other materials are transparent to visible light but opaque to or reflective of infrared light (note the man's glasses). (Image: NASA/IPAC)

Toxic overload is implicated in a wide range of health conditions, from fibrocystic breast disease (FBD) in women to attention deficit hyperactivity disorder (ADHD) in children. Physical symptoms include allergic reactions, chemical sensitivity, dexterity loss, fatigue, frequent colds or flu, headaches, hormone imbalance, insomnia, joint or muscle pain, psoriasis and other skin conditions and sinus congestion. Psychological symptoms include behavioural changes, concentration difficulties, memory loss, mental confusion and mood changes.

Far-infrared radiation is understood to be seven times more effective than conventional heat or steam saunas in detoxifying metals such as aluminium, lead and mercury, alcohol, cholesterol and nicotine, as well as ammonia, chlorine, sulphuric acid and other environmental toxins.

According to Japanese FIR researcher and therapist Toshiko Yamazaki, MD, author of *The Scientific Basis and*

### *Therapeutic Benefits of Far-Infrared Ray Therapy:*<sup>2</sup>

"One of the reasons [why] FIR has beneficial results in a variety of illnesses is the ability of FIR waves to remove toxins, which are often at the core of many health problems. Toxins that cannot be removed immediately after they enter the body are encapsulated by clusters of water. Blood circulation becomes blocked and the cellular energy impaired where these toxins accumulate. However, when a 10-micron FIR wave is applied to water molecules containing toxins, the water begins to vibrate. This vibration reduces the ion bonds of the atoms that are holding together the molecules of water. As the breakdown of the water molecules occurs, encapsulated gases and other toxic materials are released.

"One study done by American researchers showed that the sweat released by users of [an] FIR sauna was different than the sweat of people using a conventional sauna or doing normal exercise. The non-water portion of sweat released in [an] FIR sauna was cholesterol, fat-soluble toxins, toxic heavy metals, sulfuric acid, sodium, ammonia and uric acid."



Far-infrared radiation vibrates water molecules in the body, improving circulation and releasing toxins.  
(Image: Healthandbodystore.com)

### **Therapeutic Effects of Infrared Heat**

This section has been summarised and edited from chapter nine of *Therapeutic Heat and Cold* or concluded from data gathered therein.<sup>3</sup> While it relates to infrared heat treatment, it is of interest in our discussion about the benefits of far-infrared radiation.

Generally it is accepted that infrared heat produces the following desirable therapeutic effects:

**1. Infrared heat increases the extensibility of collagen tissues.** Tissues that are heated to 45 degrees Celsius [113 °F] and then stretched exhibit a non-elastic residual elongation of about 0.5 to 0.9 per cent that persists after the stretch is removed. This does not occur in these same tissues when stretched at normal tissue temperatures. Therefore, 20 stretching sessions can produce a 10 to 18 percentage increase in the length of tissues heated and stretched. Stretching of tissues in the presence of heat would be especially valuable in working with ligaments,

joint capsules, tendons, fascia and synovium that have become scarred, thickened or contracted.

Such stretching at 45 degrees Celsius causes much less weakening in stretched tissues for a given elongation than for a similar elongation produced at normal tissue temperatures. Experiments cited have clearly shown that low-force stretching can produce significant residual elongation when heat is applied together with stretching or range-of-motion exercises. This is safer than stretching tissues at normal tissue temperatures.

### **Heat has been shown to reduce pain sensation by direct action on both free nerve endings in tissues and peripheral nerves.**

**2. Infrared heat decreases joint stiffness.** There is a 20 per cent decrease in rheumatoid finger-joint stiffness at 45 degrees Celsius as compared with 33 degrees Celsius [91.4 °F], which correlates perfectly with both the subjective and the objective observations of stiffness. Speculation has it that any stiffened joint and thickened connective tissues may respond in a similar fashion.

**3. Infrared heat relieves muscle spasms.** Muscle spasms have long been observed to be reduced through the use of heat, be they secondary to underlying skeletal, joint or neuropathological conditions. This result may possibly be produced by the combined effect of heat on both the primary and the secondary afferent nerves from spindle cells and from its effects on Golgi tendon organs. The produced results demonstrate their peak effect within the therapeutic temperature range obtainable with radiant heat.

**4. Infrared heat treatment leads to pain relief.** Pain may be relieved through the reduction of attendant or secondary spasms. At times, pain can also be related to ischaemia (lack of blood supply) due to tension or spasm, which can be improved by the hyperaemia (increased blood supply) that heat-induced vasodilation produces, thus breaking the feedback loop in which the ischaemia leads to further spasm and then more pain. Heat has been shown to reduce pain sensation by direct action on both free nerve endings in tissues and peripheral nerves.

In one dental study, repeated heat applications led finally to the abolishment of the whole nerve response, responsible for pain arising from dental pulp. Infrared heat may lead to increased endorphin production and a shutting down of the so-called "spinal gate" of Melzack and Wall, each of which can reduce pain.

Localised infrared therapy with lamps tuned to the 2.0 to 25.0- $\mu\text{m}$  waveband is used for the treatment and relief of pain by over 40 reputable Chinese medical institutes.

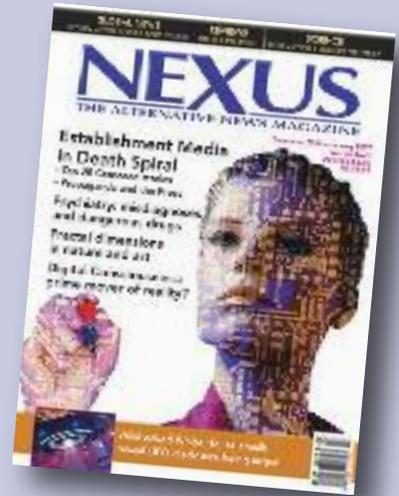
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# The dark side of antibiotics



## Shining a light on adverse reactions and hidden risks

by Stephen McMurray © June–August 2017

One of the definitions of "antibiotic" is "tending to prevent, inhibit, or destroy life".<sup>1</sup> Perhaps we should have taken note of this hint of the dangers of antibiotics before doctors and veterinarians started distributing these drugs like sweets at a children's party.

At least medical professionals have at last woken up to the dangers of antibiotic-resistant superbugs, even if they are only paying "lip service" to resolving the problem.

What the medical establishment doesn't highlight, however, are the serious, and even life-threatening, side effects that users of these potent drugs may be subjected to on a daily basis.

### Dangerous Side Effects

There are numerous classes of antibiotics with different mechanisms of action, and all of them are associated with a variety of serious side effects.

### • Aminoglycosides

The aminoglycoside antibiotics include gentamicin, neomycin and streptomycin, and they work by inhibiting the bacteria's ability to synthesise protein. The adverse effects of these drugs include nausea, ataxia, tinnitus, permanent deafness and renal damage.<sup>2,3</sup>

Moreover, among certain groups of people, the effects are not particularly rare. An article in *Thorax* in 2010 mentions the high risk of side effects for cystic fibrosis patients who take aminoglycosides: "...Observational studies suggest that the morbidity from side effects of aminoglycosides is disturbingly common..."<sup>4</sup>

A paper published in the *Indian Journal of Physiology and Pharmacology* in 1992 quotes very disturbing figures for patients in a study group who were given gentamicin: 13 per cent who were injected with gentamicin showed side effects such as hearing diminution, and 100 per cent

of those who received ear drops displayed side effects.<sup>5</sup>

Gentamicin has also been shown to cause brain lesions<sup>6</sup> and encephalopathy.<sup>7</sup>

A paper in *Otology & Neurotology* in 2004 went so far as to warn: "...There is no safe dose of gentamicin."<sup>8</sup>

Streptomycin is equally dangerous. Its use can result in respiratory paralysis, and there can be a high risk of permanent vestibular damage. The drug can induce coma in very young infants.<sup>9</sup>

Depending on the method of administration, the drug can cause fatality, as emphasised in a paper published in 1990 in the *Indian Journal of Dermatology, Venereology and Leprology*: "When administered intrapleurally or intraperitoneally in large doses, streptomycin causes neuromuscular blockade leading to acute muscular paralysis, apnoea and even death."<sup>10</sup>

Neomycin, another of the aminoglycoside antibiotics, can also cause neuromuscular blockage.<sup>11</sup> It is frequently used in the irrigation of the bowel during surgery, which can lead to kidney damage and permanent deafness.<sup>12</sup>

So potent is this drug that its prescription advice comes with this warning: "...Patients treated with neomycin should be under close clinical observation because of the potential toxicity associated with their [sic] use."<sup>13</sup>

#### • Sulphonamides

Sulphonamides (or sulfonamides) work by stopping the synthesis of folic acid which bacteria need in order to manufacture proteins. Among the listed side effects are thrombocytopenia (a decrease in platelet numbers, reducing blood-clotting ability), anaemia, urinary tract infections and Stevens–Johnson syndrome (SJS), a potentially fatal skin condition.<sup>14</sup>

One antibiotic in this category, sulfatrim, has over 100 known side effects including fever, blindness, irregular heartbeat, difficulty breathing, toxic epidermal necrolysis (TEN) and, once again, SJS.<sup>15</sup>

A potentially serious side effect of sulphonamides is brain damage, as explained in the clinicians' reference source GlobalRPH: "Because sulfonamides displace bilirubin from albumin, kernicterus (brain damage due to excess bilirubin) is an important potential side effect of sulfonamide use."<sup>16</sup> Kernicterus usually occurs in infants but can also affect adults.

#### • Tetracyclines

Tetracyclines have a similar mode of action to that of the aminoglycosides. They are used mainly for urinary and respiratory infections and to treat acne. Key drugs in this class are tetracycline, minocycline and doxycycline. Their known side effects include liver necrosis, renal disease and *Candida* overgrowth leading to oesophagitis and enterocolitis, which could result in death.<sup>17</sup>

Minocycline, a common drug in this group, is used for treating acne and arthritis and has been known to cause pancreatitis, haemolytic anaemia, thrombocytopenia,

hepatitis and occasionally pericarditis.<sup>18</sup>

Minocycline has been known to induce autoimmune diseases, as this excerpt from the information sheet prepared by the US Food and Drug Administration (FDA) shows: "Tetracyclines have been associated with the development of autoimmune syndromes. The long-term use of minocycline in the treatment of acne has been associated with drug-induced lupus-like syndrome, autoimmune hepatitis and vasculitis."<sup>19</sup>

The website Drugs.com states that tetracycline as well as minocycline antibiotics may cause cancer: "...Some related antibacterials (oxyTetracycline, minocycline) have shown evidence of oncogenic activity in rats."<sup>20</sup>

Doxycycline, another tetracycline antibiotic, can cause pericarditis, pancreatitis, liver damage and blindness, and should not be given to children under the age of 12 as it can cause problems with bone development.<sup>21</sup>

**In fact, it can take up to two weeks after finishing a cephalosporin course before it may be safe to consume alcohol.**

#### • Cephalosporins

The cephalosporin antibiotics inhibit the synthesis of the bacterial cell wall. They are mostly used to treat ear, nose, throat, lung and skin infections. Some of the antibiotic drugs in this category are cefazolin, cephalexin, cefaclor, cefotaxime, ceftazidime and ceftriaxone.

The primary side effects of cephalosporins are colitis and other gastrointestinal problems. Associated illnesses include arrhythmia, encephalopathy, nephritis and seizures.<sup>22</sup> In addition, patients receiving cephalosporin treatment can develop autoimmune haemolytic anaemia. This is a disease where antibodies attack the body's own red blood cells and it can often be fatal.<sup>23</sup>

One of the most dangerous reactions occurs if a person drinks alcohol while taking cephalosporins. It is known as a "disulfiram-like reaction".<sup>24</sup> Disulfiram (or Antabuse®) is a drug used to treat alcoholics, and it creates an acute sensitivity to ethanol.

A 2014 Chinese study highlighted the dangers of cephalosporin-induced disulfiram-like reaction, noticing that it makes no difference if alcohol is drunk shortly before or after taking the antibiotic.<sup>25</sup> In fact, it can take up to two weeks after finishing a cephalosporin course before it may be safe to consume alcohol.<sup>26</sup>

The serious and sometimes fatal side effects of this reaction are listed on the US National Library of Medicine's DailyMed website: "Disulfiram plus alcohol, even small amounts, produce flushing, throbbing in head and neck, throbbing headache, respiratory difficulty, nausea, copious vomiting, sweating, thirst, chest pain, palpitation, dyspnea, hyperventilation, tachycardia, hypo-

tension, syncope, marked uneasiness, weakness, vertigo, blurred vision, and confusion. In severe reactions there may be respiratory depression, cardiovascular collapse, arrhythmias, myocardial infarction, acute congestive heart failure, unconsciousness, convulsions, and death."<sup>27</sup>

Extreme vigilance must be taken because there are many products that contain alcohol, such as other types of medications, syrups, fermented vinegars, sauces and lotions.<sup>28</sup> Some mouthwashes and even topically applied aftershaves, perfumes, antiperspirants and hair dyes can initiate the disulfiram-like reaction.<sup>29</sup>

### • Metronidazole

Metronidazole works by disrupting the DNA of the bacteria, and it is used mostly for stomach, vaginal and respiratory infections. This is another antibiotic that has extremely serious side effects including meningitis, liver and kidney damage, vision problems, disulfiram-like reaction and issues associated with the bone marrow.<sup>30</sup>

A letter in the *British Medical Journal* in 1980 records the case of a patient who suffered from bone marrow aplasia after being given metronidazole. The drug had inhibited the production of blood cells in the bone marrow, and the patient subsequently died.<sup>31</sup>

According to the US Department of Health and Human Services, this antibiotic is also carcinogenic. The *8th Report on Carcinogens, 1998 Summary*, states: "...When administered orally, metronidazole induced an increased incidence of lung tumors in mice of both sexes and lymphomas in female mice. Oral administration of the compound also caused mammary fibroadenomas and adenocarcinomas in female rats and pituitary, testicular and liver tumors in [male] rats."<sup>32</sup>

### • Fluoroquinolones

Fluoroquinolones have one of the worst safety records of all classes of antibiotics. This is hardly surprising as they contain fluorine and can have similar effects on the body as fluoride, a compound of fluorine.<sup>33</sup> Fluoride is a neurotoxin and has been shown to cause arthritis, skeletal fluorosis, osteoporosis, cancer, pineal gland calcification and thyroid problems.<sup>34, 35</sup>

These antibiotics are not only dangerous, but their serious side effects are common. In a 2001 study, 91 per cent of patients reported nervous system problems such as weakness, memory loss, anxiety and psychosis; 73 per cent had musculoskeletal complications including tendon rupture; and 36 per cent experienced cardiovascular conditions such as tachycardia, shortness of breath and palpitations.<sup>36</sup> Another two major side effects are aortic dissection and aneurysm—tears and bulges in the aorta which can be fatal.<sup>37</sup>

So serious are the adverse reactions from these drugs that the FDA has issued warnings about their use: "An FDA safety review has shown that fluoroquinolones when used systemically (i.e. tablets, capsules, and injectable)



Fluoroquinolone antibiotics have serious side effects including on mental health.

are associated with disabling and potentially permanent serious side effects that can occur together. These side effects can involve the tendons, muscles, joints, nerves, and central nervous system."<sup>38</sup>

Ciprofloxacin (or Cipro<sup>®</sup>) is the most notorious of the fluoroquinolones. The WebMD site has an extensive list of its side effects including seizures, hallucinations, depression, nightmares, paranoia, suicidal thoughts, low blood sugar, heart rhythm problems, and damage to joints, tissues and nerves.<sup>39</sup>

Levofloxacin (or Levaquin<sup>®</sup>) is another fluoroquinolone. Like ciprofloxacin, it is associated with an enormous array of problems including haemolytic anaemia, pancreatitis, hepatitis, detached retina, liver and kidney failure, and ruptured tendons. The WebMD site lists 100 side effects associated with this drug.<sup>40</sup>

Problems with the central nervous system are one of the main adverse reactions with fluoroquinolones. More worrying still, they can be induced after the very first dosage, as one manufacturer admits in its package insert: "Convulsions, toxic psychoses, increased intracranial pressure (including pseudotumor cerebri) have been reported in patients receiving fluoroquinolones, including Levofloxacin. Fluoroquinolones may also cause central nervous system stimulation which may lead to tremors, restlessness, anxiety, lightheadedness, confusion, hallucinations, paranoia, depression, nightmares, insomnia, and, rarely, suicidal thoughts or acts. These reactions may occur following the first dose."<sup>41</sup>

Fluoroquinolones are so dangerous that many newer types have been withdrawn from the market because of reports of adverse reactions including liver toxicity, cardiac toxicity and hyperglycaemia.<sup>42</sup>

### • Macrolides

The macrolides work by inhibiting protein synthesis by the bacteria. They are used to treat streptococcal and pneumococcal infections, particularly when patients are allergic to penicillin. Major side effects include hearing loss and heart complications.<sup>43</sup>

Erythromycin is the macrolide antibiotic that is most associated with heart problems. The DailyMed website has this warning: "Erythromycin has been associated with QT prolongation and ventricular arrhythmias, including ventricular tachycardia and torsades de pointes."<sup>44</sup> The QT interval is part of the electrical cycle of the heart. A prolonged QT interval is a marker for sudden death by cardiac arrest.

Azithromycin, as with other macrolides, can cause liver damage. Usually it occurs after a few weeks, but it can happen in as little as just a few days into the course of treatment.<sup>45</sup> Additional side effects can include seizures, palpitations, pancreatitis and leukopaenia (a low white blood cell count, impeding the body's ability to fight infection).<sup>46</sup>

As well as causing a variety of physical side effects, the macrolides can have strange, disturbing mental reactions associated with their use. Clarithromycin, another drug in this family, has listed side effects including "confusion about identity, place and time", "feeling of unreality", "feeling that others are watching you or controlling your behavior", "feeling that others can hear your thoughts" and "feeling, seeing, or hearing things that are not there".<sup>47</sup> Terrible though these side effects are in themselves, they could easily lead to misdiagnoses of mental illness and consequently to the prescription of a host of antipsychotic drugs with even more dangerous side effects.

### • Chloramphenicol

Chloramphenicol has a mode of action similar to that of the macrolides. It is used to treat serious infections such as bacterial meningitis, cholera and typhoid fever. It has been known to cause deafness<sup>48</sup> but can have even more devastating side effects.

One of the most dangerous reactions from the drug is the toxic effect on the bone marrow. There are two types of damage. The first is lesions in the bone marrow. The

second, which frequently proves to be fatal, is bone marrow aplasia or hypoplasia in which the bone marrow's capacity to produce blood cells is drastically reduced or ceases altogether.

A paper published in the *Journal of the American Medical Association* in 1970 notes that chloramphenicol-induced toxicity of the bone marrow can produce a "devastating complication characterized by a late clinical onset (three to six weeks after last drug dose), lack of dose-effect relationship, bone marrow hypoplasia or aplasia, pancytopenia [a deficiency of all three cellular components of the blood], and usually a fatal outcome from hemorrhage or infection".<sup>49</sup>

Leukaemia is another serious adverse reaction to chloramphenicol.<sup>50, 51</sup>

In young babies, this drug can lead to a fatal illness called "grey baby syndrome". Indeed, the sole cause of this disease is chloramphenicol. The drug cannot be processed by the liver, and so it accumulates in the body until it reaches toxic levels.<sup>52</sup>

According to the marketing authorisation application granted by the UK Medicines and Healthcare products Regulatory Agency (MHRA): "...A serious side effect of chloramphenicol is Gray [sic] baby syndrome, known to occur if chloramphenicol is given to neonates.

"Chloramphenicol has also been associated with childhood leukemia's [sic] and bone marrow depression. It is likely that systemic absorption of chloramphenicol occurs following ocular administration."<sup>53</sup>

You may think that because chloramphenicol is only prescribed in cases of very serious infections, you have little chance of taking it and suffering from its numerous side effects. However, chloramphenicol is the active ingredient in many eye drops that can be purchased from pharmacies without prescription. Using topically applied chloramphenicol has the same potential for toxicity as taking the drug orally or by injection.<sup>54</sup>



**Left:** Chloramphenicol is the cause of grey baby syndrome, a usually fatal illness in premature and very young babies. (Photo: César Rincón) **Right:** Many non-prescription eye drops contain chloramphenicol.

## • Penicillins

Penicillins inhibit an enzyme which is necessary for the bacteria to form cell walls. They are used to treat a wide range of infections. Some of the side effects are nausea, fever, confusion, headache, vomiting and seizures.<sup>55</sup>

Amoxicillin is a type of penicillin that can cause blood disorders, colitis, and Stevens–Johnson syndrome which results in flu-like symptoms and a severe, peeling, skin rash.<sup>56</sup> It is frequently combined with another drug, clavulanate, and this combination can lead to acute liver damage. An overview article on the US National Library of Medicine website states: "...Amoxicillin-clavulanate is currently the most common cause of clinically apparent, drug induced acute liver injury both in the United States and Europe."<sup>57</sup>

Another penicillin drug is oxacillin, and as with other antibiotics it is toxic to the liver and kidneys. Its side effects include thrombocytopenia, leukopenia, seizures and tissue necrosis.<sup>58</sup>

Methicillin is a penicillin-based antibiotic that was first produced in the late 1950s but is no longer in use. Its side effects include haemorrhaging of the bladder, but despite this extremely serious adverse reaction it wasn't enough to have it discontinued. Methicillin production was stopped only after it was discovered that use of the drug had given rise to antibiotic-resistant bacteria in the form of methicillin-resistant *Staphylococcus aureus* (MRSA), which causes a serious, often fatal, infection.<sup>59</sup>

## Side Effects Common to All Antibiotics

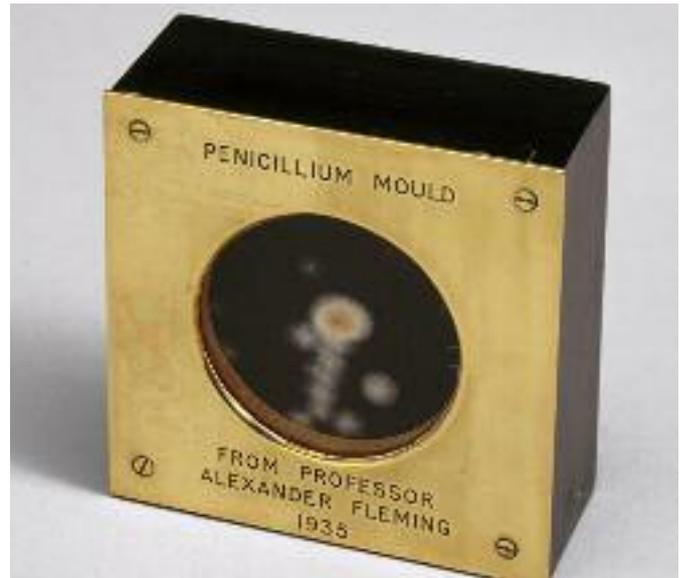
### • Allergic Reactions

There are many side effects that are common to nearly all antibiotics. The most well known are allergic reactions and anaphylaxis. According to California-based allergist and clinical immunologist Daniel More, MD: "Penicillins and cephalosporins are also the most common causes of drug allergy. About 10% of Americans report an allergy to penicillin or a related antibiotic."<sup>60</sup>

Side effects can be mild, such as flaky, red, itchy skin, or they can be more severe, such as life-threatening anaphylactic shock. Anaphylaxis is usually associated with penicillin-based drugs but can be caused by any class of antibiotics. Reported cases were increasing even in 1954 when Farber *et al.* published their paper noting the aforementioned allergic reactions.<sup>61</sup>

Another rare but very serious side effect of antibiotics is toxic epidermal necrolysis where the outer layer of skin blisters and peels off, leaving the person open to severe infections. Stevens–Johnson syndrome is another form of this disease that can be caused by antibiotics. Both conditions can be fatal.

An article in the *Orphanet Journal of Rare Diseases* in 2010 highlights just how dangerous these two conditions can be: "...SJS and TEN are severe and life-threatening. The average reported mortality rate of SJS is 1–5%, and



This sample of *Penicillium* mould was given by Professor Alexander Fleming to his friend Douglas MacLeod, MS, in 1935. (Science Museum collection, London)

of TEN is 25–35%; it can be even higher in elderly patients and those with a large surface area of epidermal detachment. More than 50% of patients surviving TEN suffer from long-term sequelae of the disease."<sup>62</sup>

It must also be noted that merely handling an antibiotic pill may cause an allergic reaction. So, you may know that you are allergic to penicillin and avoid taking it—but if your dog becomes ill and the vet prescribes a penicillin-based antibiotic, simply touching the pills when giving them to your dog could cause an adverse reaction.

The following warning is from the VetUK website relating to the veterinary antibiotic Synulox®: "Penicillins and cephalosporins may cause hypersensitivity (allergy) following injection, inhalation, ingestion or skin contact. Hypersensitivity to penicillins may lead to cross-reactions to cephalosporins and vice versa. Allergic reaction to these substances may occasionally be serious.

"Do not handle this product if you know you are sensitised, or if you have been advised not to work with such preparations. Handle this product with great care to avoid exposure, taking all recommended precautions."<sup>63</sup>

### • Vanishing Bile Duct Syndrome

Liver damage is a common side effect of all antibiotics, and one of the most dangerous conditions is vanishing bile duct syndrome.<sup>64</sup> This occurs when the bile is blocked from flowing from the liver to the duodenum. It can be fatal or result in the need for a liver transplant.

An article published in *Basic & Clinical Pharmacology & Toxicology* in 2010 reports the case of a 62-year-old man who, after taking azithromycin for only three days, developed Stevens–Johnson syndrome and, a month later, vanishing bile duct syndrome. The authors state: "Unfortunately, the treatment was unsuccessful and he

was listed for liver transplantation which was performed 7 months after the beginning of jaundice." Fortunately, the man fully recovered after the transplant.<sup>65</sup>

In another example, a paper in the *European Journal of Gastroenterology & Hepatology* in 2002 highlights the case of a 45-year-old woman who developed vanishing bile duct syndrome after taking a course of amoxicillin: "The patient died after 18 months from progressive liver failure. This case illustrates that amoxicillin alone can be a cause of progressive and ultimately fatal vanishing bile duct syndrome."<sup>66</sup>

### • Infectious Diseases

Ironically, attempting to eradicate one infection by using antibiotics can then give rise to other infections. Antibiotics kill off a lot of harmless or beneficial bacteria in the microbiome, leaving more resilient bacterial strains to thrive. Harmless in small numbers, they can cause serious health issues when they proliferate.

*Clostridium difficile* infection is the main infectious disease caused by antibiotics, and it is the toxins released by these bacteria that lead to the onset of the illness. Symptoms can range from mild stomach upset to major gastrointestinal problems including fever and kidney failure as well as colitis which could prove to be fatal.<sup>67</sup>

*Clostridium difficile* colitis is also known as pseudomembranous colitis or antibiotic-associated colitis, such is its prevalence among people who take antibiotics. It is estimated that in the USA, 10 per cent of patients who spend two days in hospital acquire this infection.<sup>68</sup> Colitis is a serious condition in itself, but there are other dangers associated with it such as toxic megacolon, where the colon can actually rupture and lead to death.<sup>69</sup> Moreover, pseudomembranous colitis is one of the known causes of the horrific, and often fatal, necrotising fasciitis or "flesh-eating disease".<sup>70</sup>

Unfortunately, the only treatment for antibiotic-induced colitis is an antibiotic course different from that which caused the infection in the first place, with all the resultant possible side effects associated with it. Even then, 20 per cent of patients have recurrences of the infection.<sup>71</sup> The more frequently the infection recurs, the less successful each additional antibiotic course becomes.

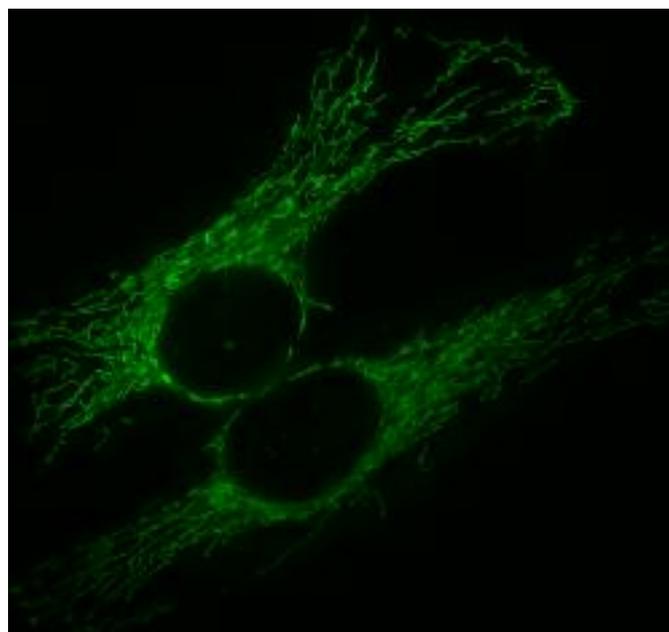
### • Candidiasis

Candidiasis occurs for a reason similar to *Clostridium difficile* infection. However, instead of being caused by bacterial overgrowth resulting from the destruction of good bacteria in the gut, candidiasis is mostly caused by the proliferation of the *Candida albicans* strain of fungus. One of the main contributors is the use of antibiotics.<sup>72</sup>

According to an article posted at the Merck Manual website, the problems associated with candidiasis can be very disturbing: "If the infection spreads to other parts of the body, it is more serious. It can cause fever, a heart murmur, enlargement of the spleen, dangerously low

blood pressure (shock), and decreased urine production. An infection of the retina and inner parts of the eye can cause blindness. If the infection is severe, several organs may stop functioning, and death can occur."<sup>73</sup>

Candidiasis can lead to a host of other problems. As the bacteria in the intestines are decimated, giving the *Candida* free rein to overwhelm the gut, the fungus irritates the gut, causing irritable bowel syndrome. In addition, the filamentous hyphae of the fungus penetrate the wall of the intestines, leading to leaky gut syndrome. When the gut lining is compromised, undigested food particles can enter the bloodstream. When this occurs, the body's defence system targets the particles as foreign material and attacks them. Any subsequent time that this particular food—or any other food which crossreacts with it—is eaten, the body overreacts, causing food allergies and potential autoimmune diseases such as rheumatoid arthritis, ankylosing spondylitis (arthritic inflammation of the spine), multiple sclerosis, eczema, fibromyalgia and Raynaud's syndrome (reduced blood flow caused by spasm of the arteries).<sup>74</sup>



HeLa cells expressing a mitochondrially targeted version of green fluorescent protein.  
(Image: Simon Troeder)

### • Mitochondrial Damage

One of the most dangerous and unavoidable side effects of taking antibiotics is mitochondrial damage. This occurs because it is believed that mitochondria were once bacteria, and so they can be damaged in a similar fashion to bacteria targeted by the drugs. This happens by the excessive production of reactive oxygen species, which are forms of free radicals.<sup>75</sup>

Damage to mitochondria, the powerhouses of our cells, can be devastating. The illnesses that can result from it are listed in an article published in 2008 in the journal

*Molecular Nutrition & Food Research*: "...Damage to mitochondria is now understood to play a role in the pathogenesis of a wide range of seemingly unrelated disorders such as schizophrenia, bipolar disease, dementia, Alzheimer's disease, epilepsy, migraine headaches, strokes, neuropathic pain, Parkinson's disease, ataxia, transient ischemic attack, cardiomyopathy, coronary artery disease, chronic fatigue syndrome, fibromyalgia, retinitis pigmentosa, diabetes, hepatitis C, and primary biliary cirrhosis."<sup>76</sup>

Basically, any time we take antibiotics we are potentially killing our own cells.

### Issues with Hidden Antibiotics

Knowing the potential dangers of antibiotics may well discourage you from taking them, but unfortunately it doesn't help when you don't actually know that you are taking them. Prescription antibiotics are only part of the problem. Another major concern is the prevalence of *hidden* antibiotics.

#### • Antibiotics in the Food Chain

One of the main areas of concern in relation to hidden antibiotics is in the agriculture industry, where the drugs are used not only to treat sick animals but to promote growth in farm animals.

Growth-promoters are used extensively worldwide, although they are banned in European Union countries. However, the EU still allows antibiotics to be employed for veterinary purposes and therefore residues of these drugs end up in the food chain.

One of the antibiotics that is used to promote growth is monensin, which ironically is toxic to cattle<sup>77</sup> and also to dogs, pigs and horses.<sup>78</sup> However, monensin has now been found to be toxic to humans as well, and is known to cause damage to lungs, intestines and kidneys.<sup>79</sup> It can also prove to be fatal. According to a case study reported in the *American Journal of Kidney Diseases* in 2001, after ingesting monensin the person suffered from "severe rhabdomyolysis [skeletal muscle breakdown] followed by acute renal failure, heart failure, and death".<sup>80</sup>

Another veterinary antibiotic is salinomycin, which is toxic to horses<sup>81</sup> but can also affect humans. A paper published in *Analytical and Bioanalytical Chemistry* in 2010 states: "...Exposure of humans to salinomycin via inhalation or ingestion can cause severe toxicity."<sup>82</sup>

The problem with animals which have been fed large amounts of antibiotics is that people who consume their products risk being exposed to the drugs.

Moreover, if the manure from animals which have been fed with antibiotic drugs is used in growing vegetables, the crops themselves can absorb the antibiotics. Studies conducted by University of Minnesota researchers found residues of antibiotics in potatoes, lettuce, green onions, corn and cabbage.<sup>83</sup>



Spraying liquid manure on agricultural land spreads antibiotic residues that contaminate food crops.

#### • Antibiotics in the Water Supply

Of course, the problem doesn't end there. When manure containing antibiotics is spread onto the land, the antibiotics infiltrate the water supply, too. Colorado State University investigators found veterinary antibiotics in just about every waterway tested, and warn of "the potential toxic dangers of these compounds to fish, plants and other aquatic organisms—as well as to humans through drinking water—because water treatment plants generally cannot remove all of these compounds".<sup>84</sup>

Water contamination is also a problem in relation to human antibiotics. Residues of these are excreted and subsequently make their way into our drinking water. A paper published in *Environmental Health Perspectives* in 2009 found contamination in ground, surface, natural and drinking waters, with the main antibiotics present being macrolides, quinolones and sulphonamides.<sup>85</sup>

Continued on page 81



Antibiotics from veterinary and medical treatments infiltrate waterways and drinking water supplies.

# The Animal Communicator DVD

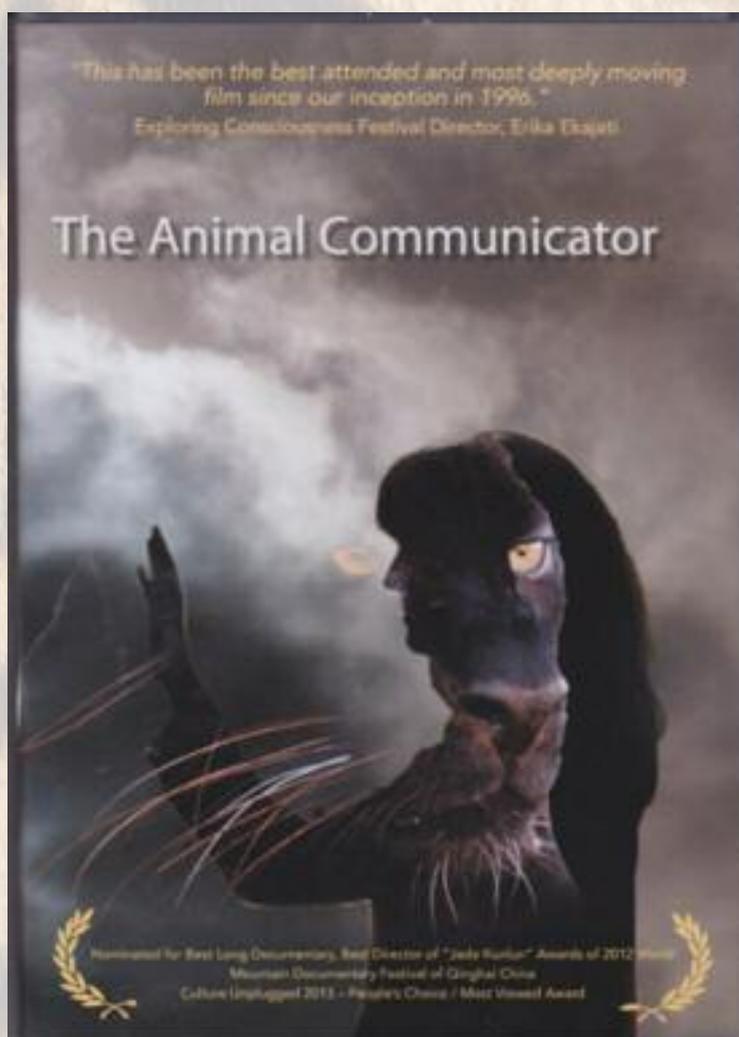
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# Blockchain:

## A tool to save us, or enslave us?

by Karen Mutton © August 2017

Bitcoin and other cryptocurrencies which use blockchain technology have been sold to the public as an anonymous and safe way to store wealth, independent of banks and free from government interference. This article examines the benefits of blockchain technology and exposes its darker side as a potential tool for financially enslaving us through the International Monetary Fund's Special Drawing Rights (SDR) and a little-known Chinese tech company called ACChain which is planning to digitise the world's assets.

In November 2008, a white paper titled "Bitcoin: A Peer-to-Peer Electronic Cash System" by Satoshi Nakamoto, a mysterious person or group, ushered in the blockchain, arguably the most important innovation so far in the 21st century.

The paper's abstract begins: "A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution... The network timestamps transactions by hashing them into an

ongoing chain of hash-based proof-of-work, forming a record that cannot be changed without redoing the proof-of-work."<sup>1</sup>

The nine-page white paper describes eight features of this proposed bitcoin digital currency, which came into existence in January 2009 with the issuance of the first bitcoins. Satoshi Nakamoto mined the first block of bitcoins (the genesis block) with a reward of 50 bitcoins which can never be spent.

Investopedia.com provides a simple description of the



realization of untraceable payments systems which offer improved auditability and control compared to current systems, while at the same time offering increased personal privacy".<sup>3</sup> By 1998, DigiCash was bankrupt.

Beenz.com and Flooz.com, which were founded in 1998 and 1999, designed cryptocurrencies to assist with shopping at certain stores. Flooz.com allowed users to buy its virtual currency which could be used online at dozens of retailers' sites. However, both companies went bust in the 2001 dot-com crash.

In 1999, InternetCash filed several patents to protect its monetary system, based on pre-paid cards. It relied on a network of participating

blockchain technology: "A blockchain is a public ledger of all cryptocurrency transactions that have ever been executed. It is constantly growing as 'completed' blocks are added to it with a new set of recordings. The blocks are added to the blockchain in a linear, chronological order. Each node (computer connected to the Bitcoin network using a client that performs the task of validating and relaying transactions) gets a copy of the blockchain, which gets downloaded automatically upon joining the Bitcoin network..."

"...A block is the 'current' part of a blockchain which records some or all of the recent transactions, and once completed goes into the blockchain as permanent database. Each time a block gets completed, a new block is generated. There is a countless number of such blocks in the blockchain... [The blocks] are linked to each other (like a chain) in proper linear, chronological order with every block containing a hash of the previous block."<sup>2</sup>

If we compare the blockchain to conventional banking, the blockchain is like a full history of banking transactions. Bitcoin transactions are entered chronologically on the blockchain as per individual bank transactions, and blocks are akin to individual bank statements.

In the nine years since Satoshi created the blockchain and the bitcoin, over 900 cryptocurrencies have been launched, leading to applications in banking, record-keeping, government and healthcare as well as other areas which have barely been touched.

### Pre-Blockchain Digital Currencies

Satoshi Nakamoto did not invent digital money, but his paper was the first to propose the use of the blockchain for cryptocurrencies.

In 1990, cryptographer David Chaum created DigiCash using his Blind Signature Technology, which "allows

merchants who would redeem the "cash". It also failed during the dot-com crash.

Although cryptocurrencies are presented as alternatives to the financial and banking systems, the US National Security Agency's influence in their genesis needs to be touched on briefly. A June 1996 report, "How to Make a Mint: The Cryptography of Anonymous Electronic Cash", was written by the NSA's Cryptology Division. The authors comment in their conclusion: "This report has described several innovative payment schemes which provide user anonymity and payment untraceability. These electronic cash schemes have cryptographic mechanisms in place to address the problems of multiple spending and token forgery..."

### Bitcoin transactions are entered chronologically on the blockchain as per individual bank transactions, and blocks are akin to individual bank statements.

"Because it is simple to make an exact copy of an electronic coin, a secure electronic cash system must have a way to protect against multiple spending..."

"...Anonymity can be provided at varying levels, but increasing the level of anonymity also increases the potential damages. It is necessary to weigh the need for anonymity with these concerns. It may well be concluded that these problems are best avoided using a secure electronic payment system that provides privacy, but not anonymity."<sup>4</sup>

Although this white paper does not lay out a blueprint for the blockchain, it does discuss measures to replace cash with digital cryptocurrencies.

## Bitcoin and Ethereum

It is beyond the scope of this article to discuss the two most well-known cryptocurrency systems, Bitcoin and Ethereum, in any detail. However, their properties and applications are pertinent to the study of the blockchain and how it is being used to usher in a new world currency.

Although the Bitcoin network is a peer-to-peer digital payment system that doesn't use an intermediary, the bitcoin unit can be exchanged for other currencies, products or services. Bitcoin does not need a central authority, and funds are not tied to real-world people but, rather, to Bitcoin addresses. However, all transactions on the blockchain are public.

Scarcity partly accounts for the rapid appreciation of bitcoin and other cryptocurrencies over the past year. Satoshi only ever created 21 million bitcoins that can be mined by programmers, a process which involves solving a difficult mathematical puzzle on the current block in the chain. A new block is added to the blockchain every 10 minutes or so and is 1.0 MB in size, equivalent to seven transactions per second. In comparison, Visa processes 2,000 transactions per second.

Opposition by a number of the currency's developers to the small block size and slow transaction speed led to the Bitcoin Hard Fork on 1 August 2017, which saw the bitcoin split into two separate cryptocurrencies, the new one being Bitcoin Cash. The forked currency means that although a new cryptocurrency is created, it duplicates the original blockchain so that, theoretically, a bitcoin owner possesses the two currencies.

Ethereum, the second most popular cryptocurrency, was proposed by cryptographer Vitalik Buterin in late 2013 and went live on 30 July 2015. Its currency, the ether, is listed as ETH on cryptocurrency exchanges. In 2016, the network split into two blockchains, Ethereum and Ethereum Classic, after \$50 million in ether was stolen by an anonymous entity. Its core innovation, the Ethereum Virtual Machine, is a complete software that runs on the Ethereum network and allows anyone to run any program, regardless of the programming language.

According to the website Ethereum.org: "Ethereum is a decentralized platform that runs smart contracts: applications that run exactly as programmed without any possibility of downtime, fraud or third party interference.

"These apps run on a custom built blockchain, an enormously powerful shared global infrastructure that can move value around and represent the ownership of property. This enables developers to create markets, store registries of debts or promises, move funds in accordance with instructions given long in the past (like a will or a futures contract) and many other things that have not been invented yet, all without a middle man or counterparty risk."<sup>5</sup>

Although Bitcoin and Ethereum both utilise blockchain technology, they have different applications. While the Bitcoin system aims to revolutionise online banking and

disrupt PayPal, Ethereum's goal is to use the blockchain to replace Internet third parties, particularly those that store data, keep track of complex financial instruments and transfer mortgages. Even this brief description of Ethereum should alert the reader to the staggering potential of this cryptocurrency over the next few years.

Even though the blockchain was invented for bitcoin, its applications reach far beyond this cryptocurrency to provide secure private-transfer networks which can also be used for anything of value, including stocks, bonds or even real estate deeds.



Bitcoin key fobs with an Ethereum collectible coin  
(Photo: BTC Keychain, flickr.com)

Avid supporters of the Bitcoin system say that the cryptocurrency is safe, is protected from government interference and gives the citizen a place to store wealth beyond the reach of any central bank or the International Monetary Fund (IMF). They also extol its anonymity.

Sadly, the 2016 heist of \$50 million in ether and the 2014 disappearance of millions of bitcoins from the MT.GOX registry in Tokyo indicate that some cryptocurrencies have problems with security and anonymity.

## Banks and Corporations Adopt the Blockchain

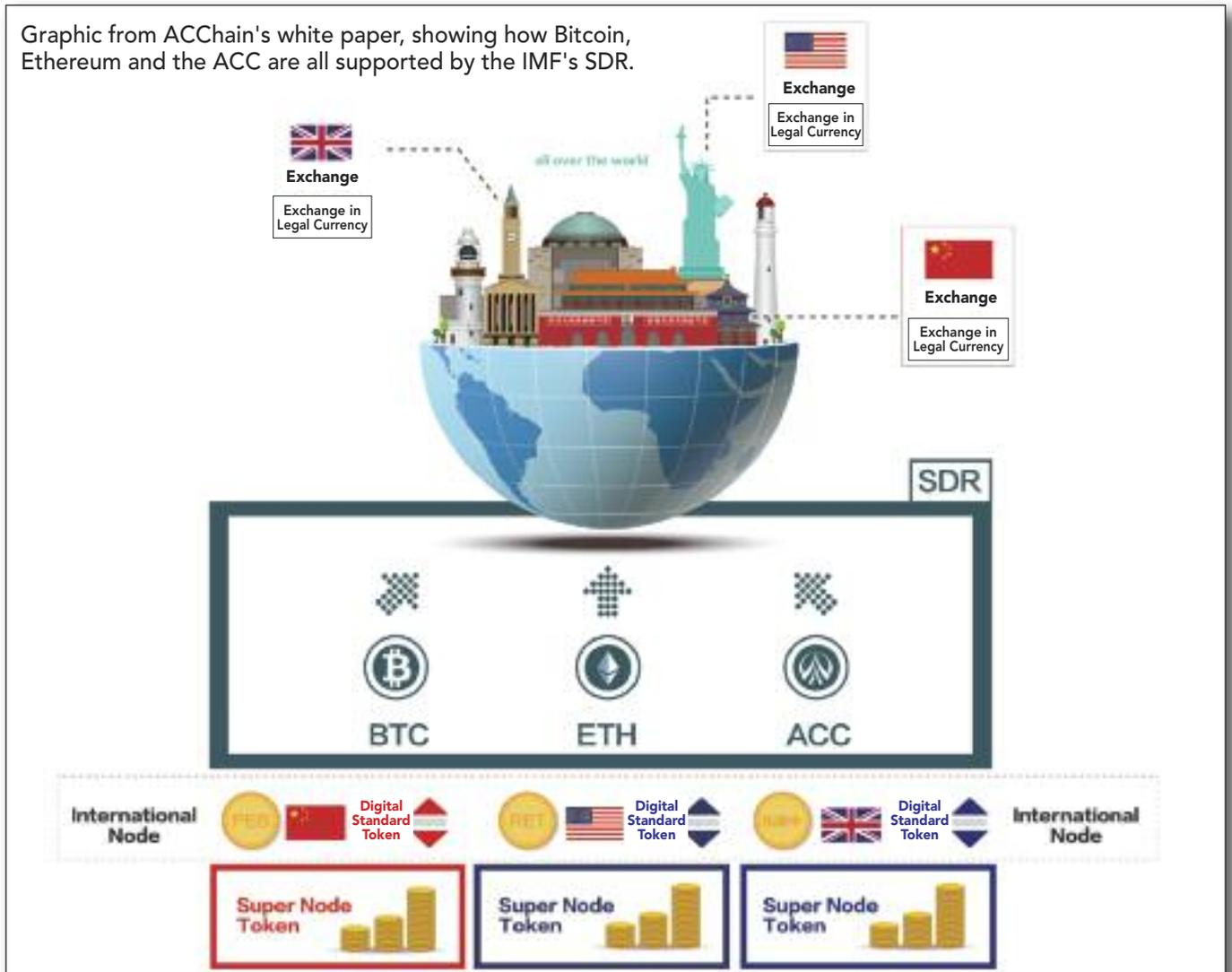
Contrary to the idea that banks are being left behind by cryptocurrency and blockchain technology, many of the world's largest banks are embracing it.

- The Bank of England in its February 2015 "One Bank Research Agenda" Discussion Paper investigated the possibility of minting its own cryptocurrency.<sup>6</sup>

- The Federal Reserve System in the USA, as currency analysts Doug Casey and J. P. Koning claim, is planning not only to issue its own cryptocurrency, called Fedcoin, but to make sure that Americans use it.<sup>7</sup>

- Business Insider reported in September 2016 that the USA has signalled its support for digital currencies: "The US House of Representatives has passed a nonbinding resolution that highlights the positive potential impact

Graphic from ACChain's white paper, showing how Bitcoin, Ethereum and the ACC are all supported by the IMF's SDR.



digital currencies and blockchain technology could have on legacy financial systems...

"Blockchain technology has the potential to transform the way information is exchanged. Blockchain can improve trust and security in industries like financial service and payments by making it easier and more secure for people and firms to exchange information, including personal and financial details. This is because blockchain ledgers are tamper-proof, and blockchain-based transactions are capable of holding large amounts of data. Blockchain ledgers can also require each party to verify a transaction, ensuring that information is not passed on to a third party without all participants' authorization."<sup>8</sup>

Large commercial and investment banks are also embracing blockchain technology.

- In September 2014, CBW Bank and Cross River Bank became the first American financial institutions to adopt Ripple's blockchain protocol.<sup>9</sup>

- Blythe Masters, a former Managing Director of JPMorgan Chase, has started up Digital Asset Holdings

to design "software that will enable banks, investors, and other market players to use blockchain technology to change the way they trade loans, bonds, and other assets".<sup>10</sup>

- In March 2017, a consortium of Japanese banks announced that it would be using the blockchain (Ripple technology) for domestic and international payments.<sup>11</sup>

- CNBC reported in June 2017 that "IBM is building blockchain technology that will be used by seven of Europe's largest banks, including HSBC and Rabobank, to facilitate international trade for small and medium-size enterprises".<sup>12</sup>

- In July 2017, Goldman Sachs welcomed blockchain technology by dedicating a web page to it.<sup>13</sup>

### China's Blockchain Technology: ACChain

In the past few years, China has embraced blockchain technology not just in the financial sector but in order to realise its Smart Cities in China concept. According to The CoinTelegraph in February 2016: "Factom has announced a deal with iSoftStone to begin researching

and implementing Blockchain solutions in 80 urban areas across China... Factom was an excellent choice as it has been successfully experimenting with optimizing land registries using the Blockchain technology."<sup>14</sup>

The CoinTelegraph's legal expert, Dmitri Machikin, comments: "The project to transfer the land cadastre into [blockchain] technology is fully justified from the state and legal point of view. The land registry, including [in] China, refers to a systematic set of documented information on natural, economic and legal status of land. Practically, it is a kind of map showing online...the legal status and boundaries of land. China is the most technologically advanced country in the world; the growth of the infrastructure of this state is accompanied by an active change of lands status." Machikin adds that with the introduction of the full-length blockchain, time can be significantly saved, economic costs can be reduced to a minimum, and the corruption factor and various forms of fraud can be eliminated."<sup>15</sup>

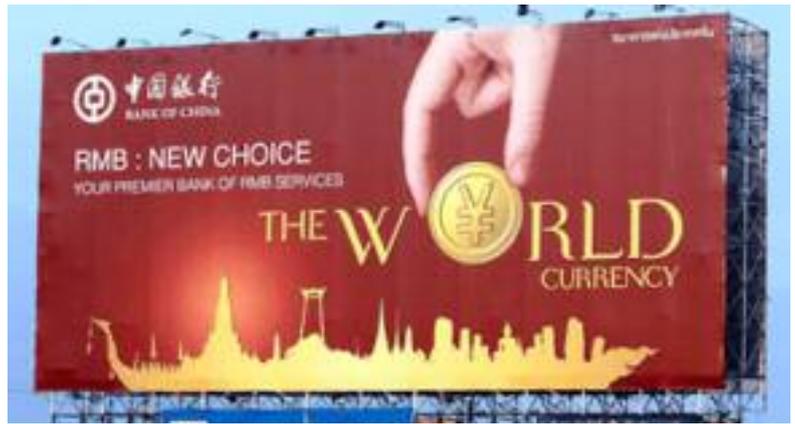
In May 2017, the Chinese company ACChain (Asset Collection Chain) burst onto the scene with an Initial Coin Offering (ICO), using blockchain to digitise and generate tokens to trade various hard assets such as real estate. Its white paper begins: "Modern society is experiencing a great asset migration, and establishing a digital world. Blockchain technology is building an asset-sharing distributed ledger between different nodes, institutions and industries. After the digitization, tokenization, and symbolization of material assets, all assets can be mapped and segmented, in order to realize tangible assets registration, issuing, and trading on Blockchain."<sup>16</sup>

The ACC is the standard token in ACChain, designed for all exchanges and circulation and supported by the Real Estate Token (RET) and the regional General Ledger Token (GLT). A graphic in the white paper shows the world's assets being supported by Bitcoin, Ethereum and ACChain under the umbrella, surprisingly, of Special Drawing Rights (SDR)—the IMF's currency.

The ACChain white paper notes that "AACHAIN is the tool of asset digitization for the global applications" and is launching international supernode networks in the USA and China. It adds: "...ACC...will jointly form the digital asset interchange object—SDR digital currency... [T]hus, the digital currency SDR will be the main exchange token along with tokens of each international node's general ledger token in the international exchange."<sup>17</sup>

The implications of ACChain are disturbing, with its claimed ability to digitise and exchange hard assets on a global scale while working in tandem with the IMF's new digital currency, the SDR!

ACChain launched the RET at Fort Worth, Texas, on 23 May 2017 with this announcement: "...The ACC ICO aims to structure...international supernode networks of



A Chinese billboard with a not-so-subtle message

digital assets, and establish a digital currency 'Special Drawing Rights' (SDR). The SDR will help in populating ACC and form a more stable global digital finance and asset system for businesses and consumers across the Acchain. The digital currency SDR also supplements the traditional SDR to help establish a new order in the financial world."<sup>18</sup>

The RET, issued by the Hong Kong-based Meiyingju Group (MGI), is backed by a US\$655-million residential project in Fort Worth called Sendera Ranch, a 2,385-home community. MGI's token offering in Hong Kong is available only to non-US investors and can be purchased through ACChain's supernodes.<sup>19</sup> The ramifications of a Chinese company selling real estate in Texas only to non-Americans should be ringing alarm bells.

According to the ACChain website<sup>20</sup>, Huayang liquor and Ning'hong gan'hong tea in addition to the Sendera Ranch are digitised asset tokens on the ACChain.

### Special Drawing Rights: The IMF's Currency

Since 1969, the International Monetary Fund has sparingly issued its own digital currency, Special Drawing Rights, exclusively to central banks and governments in times of economic crisis. The SDR is known as a "basket of currencies" because it is comprised of five currencies with these weightings: USD 41.73%, Euro 30.93%, RMB 10.92%, Japanese yen 8.33% and British pound 8.09%. However, until 1 October 2016 the Chinese renminbi (RMB) or yuan was not even represented in the basket, which indicates how far China has come in a short time in its quest to seek global financial prominence.

A 2011 IMF paper looks at different ways for the IMF to increase SDR usage. The inclusion of China in the basket of currencies as well as extra allocations of SDR to many countries was accomplished in 2016. The paper recommended that the SDR could be expanded for commercial and private use: "...Allowing private sector holding (and trading) of official SDRs would enhance their reserve asset quality as central banks could use them directly to intervene [in] or extend liquidity to the market, instead of having to go through the Fund's voluntary

market or designation mechanism to exchange their SDR holdings for useable currency, a transaction that can take several days to complete. It could also help spur development of a market in other SDR-denominated assets and contribute to the development of other reserve currencies. Private sector institutions could be interested in holding official SDR based on a calculation that the market may develop further and for the potential benefits of SDR as a source of liquidity."<sup>21</sup>

In August 2016, the People's Bank of China approved The World Bank's first issue of SDR (M-SDR) bonds worth US\$2.8 billion in China's domestic market<sup>22</sup>, and the China Development Bank said it plans to issue between US\$300 million and US\$800 million in SDR notes.<sup>23</sup>



By late 2016, the Chinese were calling for the SDR to be blockchain-based as an electronic SDR (eSDR) to address the expected liquidity shortage in 2017. At the 2016 China Shenzhen FinTech Summit in December, Chinese think-tank scholar Liang Haiming explained: "Blockchain-based eSDR has three major advantages. First of all, the fluctuation-proof feature of SDR remains unchanged. Countries that [adopt] SDR as the primary settlement means instead of USD may dodge the risk like exchange rate fluctuations, credit crisis, devaluation crisis and the risk arising from the US's attempt to shift financial crisis. Secondly, eSDR based on...blockchain technology provides a strong support of trust with the 'decentralized authentication mechanism', which requires no union to guarantee its immutability. Thirdly, the eSDR can be decentralized so that the payer and the payee can trade

directly on peer-to-peer financial networks, excluding third-party interventions and blockages."<sup>24</sup>

It is extraordinary that in 2017, while the IMF and insiders like Jim Rickards and Warren Coates debate the possibility of creating eSDR, the Chinese appear to be in the process of creating it through ACChain.

## The evidence presented so far indicates that China is going to be at the forefront of the new economic order in what has been called the Global Currency Reset.

### The New World Currency

The 1988 front cover of *The Economist* magazine portrayed a phoenix hovering above burning currency with a gold coin or token around its neck. The headline reads "Get ready for a world currency", and the golden token has the date 2018 with the value of 10 phoenix. The circle in the middle of the token has a diagonal line through it, very reminiscent of digital coins and tokens which in 1988 did not exist.

The article begins: "Thirty years from now, Americans, Japanese, Europeans, and people in many other rich countries...will probably be paying for their shopping with the same currency. Prices will be quoted not in dollars, yen or D-marks but in, let's say, the phoenix. The phoenix will be favoured by companies and shoppers because it will be more convenient than today's national currencies..."

"...The phoenix would probably start as a cocktail of national currencies, just as the Special Drawing Right is today. In time, though, its value against national currencies would cease to matter, because people would choose it for its convenience and the stability of its purchasing power."<sup>25</sup>

After describing how governments would have to give up their autonomy and ability to print their own currency, the article concludes: "Pencil in the phoenix for around 2018, and welcome it when it comes."<sup>26</sup>

No one is suggesting that the phoenix will become a world currency, but analysts and insiders such as Jim Rickards are alerting us to the SDR becoming the new world currency. On 16 January 2016, Rickards tweeted "Could IMF use blockchain digital SDRs, give to banks, & replace US dollar? Yeah, that works".<sup>27</sup>

A year or so later, with no IMF announcement, China's ACChain is basing its own tokens on assets and eSDR.

### Tying It All Together

The SDR is already the world's de facto currency but the IMF, by including China in the basket of currencies and allowing it to issue the first SDR bonds, is setting up

China to challenge the USA for financial leadership.

Unofficially, China probably also possesses the world's largest supply of gold, although its official reserves are rather modest. The USA's 8,000 tons of gold haven't been audited for decades and may not even exist. If the SDR ends up being backed by gold, or if gold is digitally entered into the blockchain, China will have a distinct advantage in the IMF. China is also head of the BRICS alliance of nations, which one day will be strong enough to challenge the IMF and The World Bank.

Furthermore, China is the country most enthusiastic to embrace blockchain technology. The Chinese company Factom is digitising all property assets in China, and ACChain plans to digitise the world's assets including property, businesses, land, resources, vehicles and so on. Once digitised, these assets can be tokenised (given a value) and (presumably) traded.

The evidence presented so far indicates that China is going to be at the forefront of the new economic order in what has been called the Global Currency Reset. Cryptocurrencies, based on blockchain technology, will play a huge role in this reset. Over the past few years, the IMF and other international bodies have been calling for the abolition of cash. Many countries have already eliminated large-denomination notes, while banks are reducing the amount of cash that a person can withdraw from their own account in a single action. Such methods are herding the population towards digital currencies and cryptocurrencies, which are rapidly increasing in value. But do we really know if the shift to digital currency will benefit humanity or enslave it?

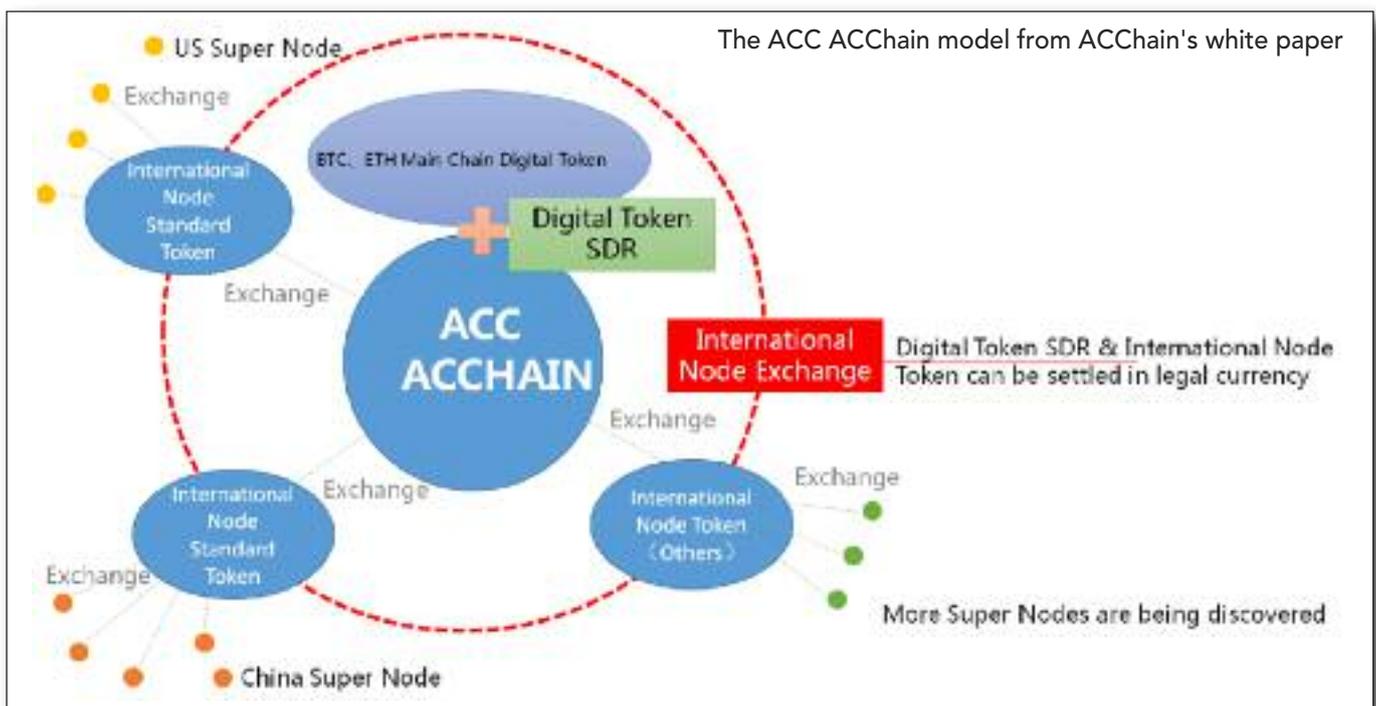
The origins of Bitcoin and the blockchain have also come under scrutiny of late. The Daily Economist poses

this question in its article titled "Is Bitcoin and other cryptocurrencies the result of a government experiment imagined 12 years before the Satoshi white paper?".<sup>28</sup> Considering that Satoshi's paper appeared at the height of the global financial crisis and that the real Satoshi has never come forward, it is plausible that cryptocurrencies were invented by the NSA or another alphabet agency (e.g., the Defense Advanced Research Projects Agency, DARPA) in order to create a new global currency.

In two insightful YouTube videos, Lynette Zang, Chief Market Strategist at ITM Trading, outlines the dangers of the AACChain mission to digitise the world's assets.<sup>29, 30</sup> Zang has studied the ACChain website, video and white paper, and believes that they present a very convincing scenario for global enslavement via the blockchain. She also believes that ACChain is the instrument created to steal the world's private assets by digitising and monetising them on the blockchain. Her concerns are well founded and beg these questions:

- Why has the IMF not announced or confirmed the eSDR and its inclusion in ACChain?
- How far has ACChain's digitisation of international property advanced?
- What will happen to our title deeds if they become digitised by ACChain?
- Will all our assets be pooled so that our liabilities are taken directly from this pool?
- Will we be coerced to place our assets on ACChain's blockchain?
- How will ACChain obtain information on our assets?
- What will happen to debts like mortgages and loans?

Fortunately, ACChain is only in the planning phase of implementing its blockchain applications, apart from in



liquor, tea and Texas real estate. This gives us time to research, disseminate information and protest before it becomes too powerful.

The Global Currency Reset is being established, and it involves digitising all currencies, gold reserves and assets and putting them on the blockchain where they can be traded. While the blockchain is extremely useful and is capable of creating great wealth, it also has the power to enslave us financially when it's used by unscrupulous governments and corporations.

This slogan from ACChain's promotional video aptly describes the blockchain: "The devil uses it to destroy the world. The god uses it to benefit of mankind."<sup>31</sup> ∞

### About the Author:

Karen Mutton is an independent researcher and retired history teacher living in Sydney, Australia. Her current research effort is focused on the tenuous state of the global economic and banking structures and how a future collapse will affect our lives and finances. Her most recent article "Black Swans Circling Over European Banks" was published in NEXUS 23/06; other articles appeared in 22/04, 21/03, 21/02 and 20/05. Her book *Threats to Our Wealth* was reviewed in 21/06; the 2017 edition is available as a paperback or pdf: for details, contact Karen Mutton at kazganymede@yahoo.com.au or visit <http://karen-mutton.com>. For more information, visit Karen Mutton Author on Facebook.

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# North American

# Mound Culture



Image: Comfreak, pixabay.com

## Excavations of many ancient earthworks reportedly uncovered huge skeletons. Did a race of Giants create these mounds?

by Thomas Karl Dietrich © June 2017

American pioneers and several US Presidents were amazed by the extraordinary sizes, dimensions and numbers of works of the ancient North American Mound Builders. When amateur archaeologists and treasure-hunters dug into the earthen structures, they failed to find golden ornaments; instead, they found the skeletons of giants between seven and 15 feet in stature. The grave-robbers were easily able to fit the large skulls over their own heads. Unfortunately, many of the skulls were shattered when the roofs of the burial chambers collapsed, and the greater part of the bones turned to dust in the fresh air outside.

Many of the early land-surveyors were captivated by the beauty and size of the mounds, pyramids, barrows

and effigy figures. Moreover, they were taken aback at the perfection of the circles, squares and angles which were laid out in geographic feet and sacred astronomical numbers. These exact squares and circles covered areas as large as 27 to 50 acres within complexes that extended several square miles in area.

It has been suggested that the Smithsonian Institution, soon after its founding in 1846, quickly swooped in and spirited away the interesting artefacts, remaining giant skeletons and intact skulls. Very soon, smaller mounds were ploughed over and towns and cities were erected directly upon the sites of these ancient Mound Builders. A few concerned citizens and communities made efforts to conserve these stunning edifices, but on the whole the



Artist's conception of the Poverty Point archaeological site near Epps, Louisiana, at its height. The site was declared a UNESCO World Heritage Site in 2014, the 22nd in the United States to be added to the World Heritage List and the first in Louisiana. (Illustration: Herb Roe)

states and the federal government neglected them. Any mention of the huge size of the skeletons was dropped from reference notes of mound digs by universities and academic institutions, which curiously had fallen under the clandestine directives of the Smithsonian. One can only wonder: "Why the cover-up, and why the silence and falsehood?" The Secretary of the Smithsonian hinted at something about Mormons and religious concerns.

Significant figures in early American history, including William Penn, Roger Williams, Benjamin Franklin, Thomas Jefferson, Ezra Stiles of Yale University, Noah Webster, Andrew Jackson and William Henry Harrison, commented on the Mound Builders. Botanist and physician Benjamin Smith Barton, MD, wrote in *New Views of the Origin of the Tribes and Nations of America* (1798) that the mounds indicated a higher degree of culture. Penn said that the works were of Canaanite-Phoenicians, from whom the Aztec and Maya may have originated.

Indeed, trans-Atlantic travel proved to be no obstacle to the Tobacco Lords of Glasgow of the early 1700s, who exploited the ocean currents by Scotland to ship textiles and rum to Africa, trade in the Cape Verde Islands for slaves to deliver to American landowners, and then sail home via the Gulf Stream with sugar, tobacco and cotton.

The Phoenicians had many trading centres in Morocco. Frank Joseph in *The Lost Treasure of King Juba* details communications between the African coast and the Mississippi Valley. But these ancient mercantile routes paint a picture of the same Old World Order of rich traders exploiting the resources of the rest of the world.

America was reshaping its image into a New World ethos based on the revolutionary ideals of *liberté, égalité, fraternité*. So the Smithsonian Institution, American intellectuals and academia decided to throw a blanket over the entire Mound Builders question which brought up too many complicated themes concerning the Age of

Giants, Canaanites and Old Testament religions, such as King Solomon's connection with the Phoenicians and the King of Tyre. The New American Dream was much more important than those dusty old relics!

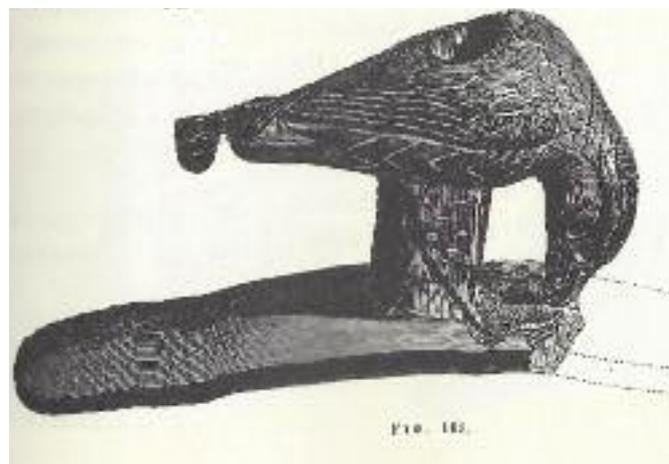
### Size, Skills and Antiquity of the Mound Culture

The Mound Culture is associated with a race of Giants who built great earthworks using astronomy, cosmology and metrology, representing one of the early foundations of scientific enlightenment. The excavations and terraces at Poverty Point, Louisiana, for instance, covering 910 acres or 1.42 square miles, are among the largest man-made earth-sculpting sites on our planet.

The scope and extent of this culture is incredible. The *Charleston Daily Mail* (23 September 1923) commented on a Smithsonian field report of 1883 which estimated that 100,000 mounds existed in the eastern portions of the United States. This represents the work of millions of people of many nations and tribes over a very long time. The *Oakland Tribune* of 20 December 1925 reported: "The United States Geological Survey has made a map of the eastern half of the United States showing the entire area sprinkled with red dots, each one standing for an ancient mound or group of mounds."

Richard J. Dewhurst in *The Ancient Giants Who Ruled America* tells us (p. 177) that Native American tradition holds that these Giants were of a unique race and culture: "The local Indians' claim that giants were responsible for the clearing of forestland and construction of huge earthworks [in Pennsylvania] is echoed throughout the United States by widely separated, unrelated [modern] Indian tribes."

The Mound Builders had a well-developed knowledge of astronomy, the arts, pottery-making, mining and trade networks. They knew how to manufacture red-clay bricks and a stucco-like mortar. They had specialised artefacts including arrowheads inclined at 45 degrees for spearing fish. They incorporated dams, underground aqueducts



Drawing of a bird sculpture  
(Source: Squier and Davis, *Ancient Monuments of the Mississippi Valley*, figure 165, page 259)

and sewers in their cities. They forged copper, created sophisticated images in stone, made exceptional textiles and covered their holy landscape with effigy mounds of snakes, humans and thunderbirds. There is even an instance of machined stonework. Poverty Point, located along three miles of the Mississippi River, was a copper-manufacturing and trading centre that had roads, gates, walls, forges, canals and sewage systems. Newark, Ohio, boasted a labyrinthine structure containing some 15 miles of embankments.

Blond-, brown- and red-haired mummies found in caves and bog mummies retrieved from lakes and swamps in Florida retained flesh and brain matter that has been examined by X-ray, CT and MRI scans. DNA testing of the mummies found genomes containing haplogroup X, a marker found in some populations of Europe, North Africa and the Horn of Africa, the Near East as well as in Native Americans. Further testing from many sites has revealed burials dated to 7,500, 16,000 and 30,000 BCE.

### Astronomy and Metrology

Ephraim Squier and Edwin Davis in *Ancient Monuments of the Mississippi Valley* mention numerous astronomical alignments delineating solstices and equinoxes as well as cardinal directions with a general two- to five-degree shift from north, indicating a former, distant period of time.

Worldwide cosmological tradition recognises circles as symbols of Heaven and squares as symbols of Earth. The Mound Builders consistently used circles and squares, showing their belief in the dichotomy and wars between Heaven and Earth and their sacred unions over time. They laid out their buildings and enclosures according to whole integers, reflecting astronomical and metrological knowledge. They employed many similar, exact squares of 1,080 feet per side, symbolic of the radius of the Moon in miles ( $1,080 \times 2 = 2,160$  miles, the diameter of the Moon;  $1,080 \times 4 = 4,320$  years, or two zodiac signs in the precession of the equinoxes).

The Mound Builders exhibited a great ability to survey and construct geometrically perfect squares, circles, octagons, polygons and ellipses. But what is even more incredible is the exceptional size of these works, some covering 27 to 50 acres. They employed geographic feet, inches, furlongs and miles in the same manner as we do in modern Britain and America. Their mile was 5,280 feet, an ancient cosmic and metrological number evenly divisible by the numbers 1 to 12 (except by 7 and 9). A great many of the circles were 210 feet in diameter, which when multiplied by  $44/14$  (ancient  $\pi$ ) equals 660 feet, a furlong or  $1/8$ th of a mile ( $8 \text{ furlongs} \times 660 \text{ feet} = 5,280 \text{ feet}$ ). Some rectangles had sides of 1,320 feet, or two furlongs. There were circles with circumferences of  $4/5$ ths of a mile or 4,224 feet; multiplied by  $44/14$ , this gives a diameter of 1,344 feet (Stonehenge's outer ditch is only 320 feet in diameter). There were circles of 2,880 feet in circumference; divided by 8, representing the

eight cardinal directions (the eight winds), this gives 360 degrees in a circle. The furlong of 660 feet  $\times 12 = 7,920$ , close to the number of miles in the Earth's diameter.

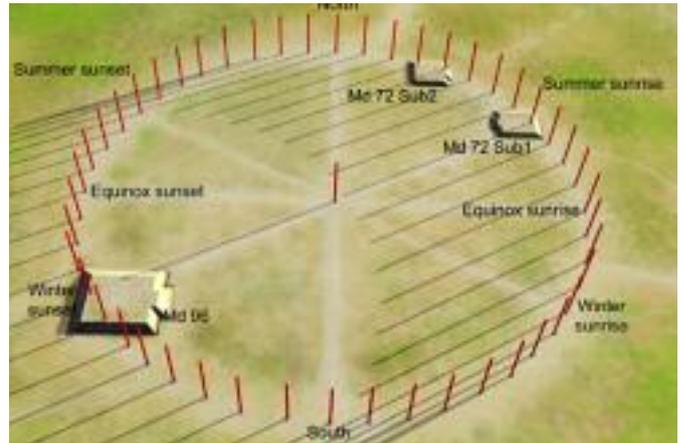


Diagram of the solstice and equinox sunset and sunrise positions at the Mound 72 Woodhenge at the Cahokia Mounds site near Collinsville, Illinois. (Illustration: Herb Roe)

In 1811, American lawyer and journalist Henry Marie Brackenridge wrote in his diary that these native peoples made measurements in feet and designed numerous structures according to astronomical alignments with solstices and equinoxes, just as at Stonehenge.

### The Spread of Smithsonian Dogma

British mineralogist James Smithson (c. 1765–1829), who funded the eventual creation of the Smithsonian Institution in 1846, stated: "Every man is a valuable member of society who by his observations, researches and experiments procures knowledge for men." Thus, the founding mission of the Smithsonian was to be "an establishment for the increase & diffusion of knowledge among men", as Smithson requested in his will.

Dewhurst writes (pp. 4-5): "After the Civil War the Smithsonian began to adopt a policy of excluding any evidence of direct foreign influence in the Americas prior to Columbus... Others have pointed to the expansionist policies incorporated in the doctrine of manifest destiny and the desire to obscure the origins of the tribes being displaced and annihilated by westward expansion. Still others have alleged that it was a direct religious policy adapted to counter the growing problem with the Mormon religion and its assertions that the lost tribes of Israel were to be found in America.

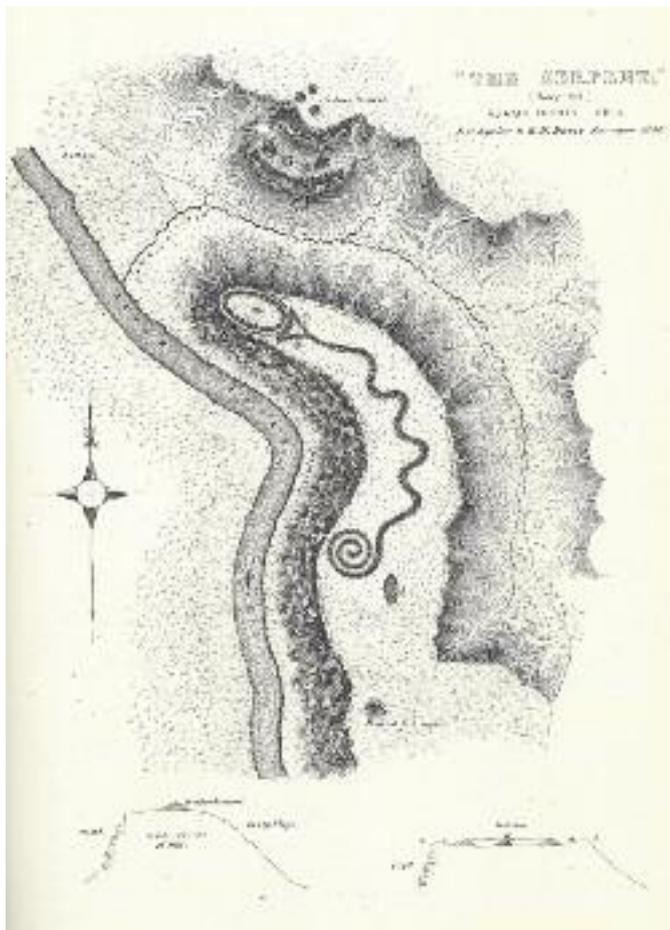
"All of these policies can be directly traced to Major John Wesley Powell and his tenure at the Smithsonian from 1879 to 1902."

Powell's first report to the Secretary of the Smithsonian Institution in 1879 was titled "On Limitations to the Use of Some Anthropological Data". One theory that Powell adopted was *progressive evolution*, where each "new" man became bigger and smarter than the last. Another

theory that he held was *uniform gradual history* without geological catastrophes. He also embraced the Beringia land-bridge theory.

As Dewhurst writes (pp. 11-12), Powell pontifically decreed that "it is illegitimate to use any pictographic matter of a date anterior to the discovery of the continent by Columbus for historic purposes". Charles Doolittle Walcott, Secretary of the Smithsonian from 1907 to 1927, steadfastly upheld the "Powell Doctrine", which became the Smithsonian's "official dogma" for the entire 20th century. All major universities in the United States were exhorted to comply with this outrageous policy, making it impossible to study factual history and receive grants or funding for genuine research into the Mound Culture.

In his conclusion, Dewhurst laments the hypocrisy of the Smithsonian and its academic partners who profess that they abhor bias in scientific and academic studies—and yet live by their own prejudices and dogma. He states that students and scholars live in ignorance of their academic indoctrination and that we are hypnotised by our own lack of knowledge, believing that atomic energy and digital electronics represent the epitome of human development. Dewhurst asserts in his final paragraph: "The stories of myth and antiquity are real."



Map of the Serpent Mound, Adams County, Ohio  
(Source: Squier and Davis, plate XXXV, facing page 96)

Online sources reflect an ongoing battle between information and disinformation. Yet countless newspaper reports and accounts from private journals, published papers, testimonials, surveys and investigations from all around the country for over 160 years provide solid data.

A major clue to this conundrum of belief versus disbelief comes from the attitude of the one-armed Civil War hero and late-1860s–1870s Colorado River–Grand Canyon explorer, Major John Wesley Powell himself, who conjectured theories about humans and climate. When US Congress passed the first Homestead Act of 1862, which granted 160 acres of land to each homesteader, this began to make public land available in the West. However, Powell validly argued that in the drier midwestern prairies and the very arid western states, agriculture would become a doomed activity, opening up legal battles over water rights. Because he wished to control expansion in the West, Powell battled with Congress, railroad companies and western land interests, resulting in defeat and exhaustion, after which he sought refuge with the Smithsonian. As head of the Bureau of Ethnology under the Smithsonian from 1879 to 1902 and Director of the US Geological Survey from 1881 to 1894, Powell was the most powerful scientist in the nation. However, he decided to play it simple and safe in his new (and most unsuitable) career as a museum curator. The dictum of the pre-Columbus boundary allowed him to enjoy intellectual serenity and freedom from conflict.

The cover-up of vast populations of Giants, whose huge skeletons have reportedly been found from coast to coast, seems to be a disservice to anthropology, natural science, history and philosophy. The literature from antiquity, including the Bible, the Irish *Lebhar Gabhála Éireann* and the Hindu *Ramayana*, speaks of Giants. And there are hundreds of reports from nearly every state in the USA of skeletons from seven to 15 feet in length. These discoveries affect all the sciences as they hold information that's incredibly important in formulating cogent theories about humanity and the cycles of life and nature, of progress and devolution, of the rise and fall of civilisations.

### The Mound Builders' Cosmic Order

I've spent my lifetime assembling facts from myths and traditions as well as from astronomy in order to create cosmological–chronological models that compare zodiac cycles, ancient myths, geographies and climates. These models show that the Mississippi Valley and the East Coast of America are located under the celestial signs of Scorpio and Sagittarius and the rulerships of Mars and Jupiter. Populations of Giants in this geographical region vindicate the validity of a great portion of my research.

The monumental pyramids of Egypt and the massive stones of the Temple Mount in Jerusalem and of Baalbek, site of the largest quarried stones in the world, were constructed under the influence of the signs of Pisces and

Aries (ruled by planets Jupiter and Mars) and provide tales and traditions of Giants.

In my view, the withholding of historical information is the same as falsifying or destroying historical information. The Mound Builders were able to survey large designs and measure angles for precise squares, circles and rhomboids in sacred numbers of feet, inches, fathoms, furlongs and miles, and they had knowledge of  $\pi$  as 44/14—all of which shows a complete connection with our own scientific culture. Many of their great squares and circles occupied 27 acres (1,176,120 feet), which shows their ability to compute in the millions. Their determination of cardinal points, showing a consistent change from two to five degrees from true north, suggests that the Mound Builders may have created these works many tens of thousands of years ago.

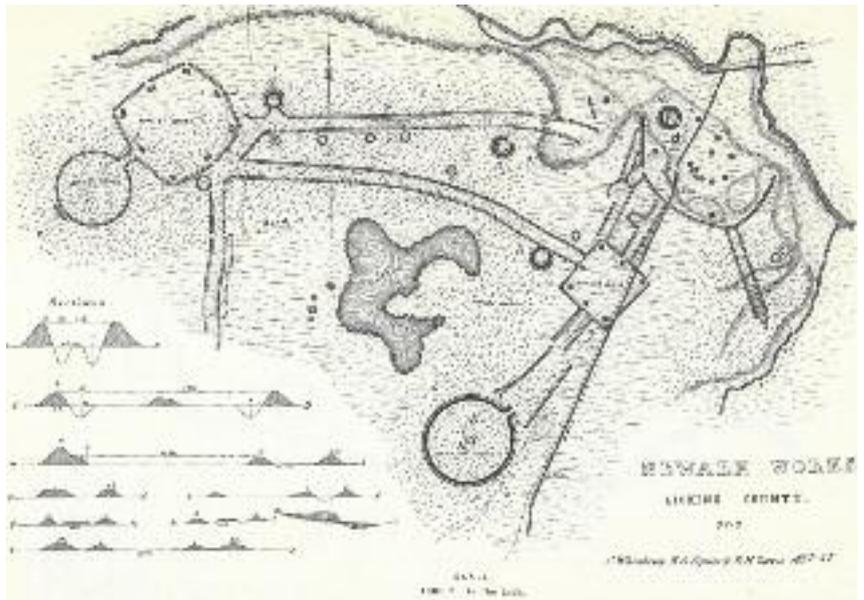
Many of the earthworks site plans are exactly similar in layout, and even when larger or smaller they maintain the same proportions. The huge squares and circles are similar in many sites and they repeat cosmological numbers over and over again. And as I've already mentioned, the Mound Builders were even able to compute a perfect circle with a circumference of 4/5ths of a mile. The Newark Works are so complicated that they cannot be described without referring to the site plans (see map, above right).

Squier and Davis include numerous surveys of the great sites of the Mound Builders, and they write (p. 82): "Whatever may have been the divinity [their God] of their belief, order, symmetry, and design were among his attributes..."

### Sacred Sites and Energy Healing

The Mound Builders founded their holy sites over Earth energy fonts. Frontier and modern farmers who took over these ancient enclosures reported higher yields and better grazing within the perimeters of these sacred squares and circles. This "sweet grass" phenomenon is also known in Ireland. Many of the clay-faced mounds were burned with fire to bake the outer clay covering and promote hardness. Some were also lined with stones, which were pilfered by frontiersmen of the Mississippi Valley region of stone-poor, rich alluvial soil.

Native American mounds are still valuable, functional, healing sites for today's citizens because of their position above health-giving Earth energy fonts. Later Native Americans continued to use these ancient mounds for ceremonies and cures, such as at the energy-rich Indian Springs thermal volcanic mud baths in Napa Valley, California. The energy fonts also contributed to the preservation of their bodies after death. In other cases,



Map of the Newark Works, Licking County, Ohio  
(Source: Squier and Davis, plate XXV, facing page 67)

layers of bat guano in the energy-rich Spirit Cave in Nevada acted as a preservative. In the Florida swamps, the neutral acidity of bogs helped preservation in pond-water burials over energy fonts. Native Americans so firmly believed in these energy sites that when under attack they fought their final battles around their beloved energy mounds.

### North America's Giant Skeleton Discoveries

The true story of Giants in North America includes testimony, artefacts and photographs collected over more than 160 years from places as diverse as Isle Royale in Lake Superior off Michigan, the Channel Islands off California, Spirit Cave in Nevada, the Serpent Mound in Ohio (see map, previous page) and the Kincaid Mounds site in Mississippi. Fritz Zimmerman in his two-part book *The Nephilim Chronicles* focuses on the metrological and astronomical numbers evident in every early survey and modern examination of these monuments.

The following is a list of authenticated giant skeleton finds in North America.

- **Canada**

**British Columbia:** Great Fraser Midden

**Ontario:** Dunnville; Toronto

- **USA**

**Alabama:** Moundville (400 skeletons, 33 mounds)

**Arizona:** Walnut Creek

**Arkansas:** Arkansas County; Chickasawba Mound (long-necked carafes, hieroglyphs)

**California:** Channel Islands: Santa Catalina Island (3,781 skeletons of blond-haired Giants, stone pillars of the Temple of Chinigchinich, 134-pound machined stone urn, flutes, ancient slate map; artefacts at the Catalina Island Museum, Avalon); Santa Rosa Island;

Santa Barbara Island; San Nicolas Island  
 Death Valley, bordering Nevada, Temple of Giants  
 (32 caves across 180 square miles); Wingate Pass  
**Georgia:** Cartersville; Golden Isles: St Simons Island,  
 Sea Island; Greene County; Oconee River  
**Illinois:** Area within the Illinois and Mississippi rivers  
 between Galena and Cairo is honeycombed with  
 mounds; Carthage; Dickson Mounds (3,000 burials);  
 Lake County, south of Waukegan River  
**Indiana:** Eagle Lake near Warsaw; Jennings  
**Iowa:** Eagle City, Hardin County  
**Kentucky:** Sparta Cave, Pulaski County; Kingston  
 Mound; Lewis Plantation; Petersburg  
**Maryland:** Antietam; Point of Rocks, Potomac River  
**Minnesota:** International Falls Dam; Winona  
**Mississippi:** Cartersville  
**Missouri:** Clay County mounds; Poplar Bluff (100  
 skeletons and Sun Temple)  
**Nevada:** Fallon (red-haired, blue-eyed, Caucasian-  
 Ainu Giants mummified by bat guano, 7400 BC); Lake  
 Lahontan (duck decoys); Lovelock Cave; Spirit Cave  
**New Mexico:** Guadalupe County; Mesa Rica;  
 Silver City  
**New York:** Long Island; Lower Hudson Valley;  
 Staten Island  
**North Carolina:** Caldwell County (42 skeletons);  
 Yadkin Valley  
**Ohio:** Estimated to have had 10,000 mounds  
 including at: Ashtabula County; Chillicothe (Giant  
 with pearls); Cincinnati (Cincinnati Museum of Natural  
 History & Science); Fort Hill; Muskingum County;  
 Little Miami River Valley (evidence of cranial surgery);  
 Newark (Holy Stones and Keystone artefacts); Salem  
**Oklahoma:** Grand River Dam, Langley  
**Pennsylvania:** Elrama Mound, Pigeon Creek; North  
 East village (150 giant skeletons)  
**Tennessee:** Augusta; Cumberland; Duck River; Little  
 Harpeth River; Little Tennessee River; Natchez  
**Texas:** Victoria County  
**Utah:** Jordan River near Salt Lake City  
**Virginia:** Shenandoah River  
**West Virginia:** In 1883, Colonel P. W. Norris and



An illustration of an avian-themed Mississippian culture sandstone tablet incised with a Southeastern Ceremonial Complex "Birdman". The tablet was found in 1971 during excavations into the east side of Monks Mound at Cahokia. It is approximately four inches (10 cm) in height. (Illustration: Herb Roe)

Professor Cyrus Thomas for the Smithsonian investigated 50 mounds and numerous giant skeletons (6'7" to 7'6"), notably at Charleston, Moundville (an 8'-tall queen with 656 ivory beads), South Charleston and Wheeling; "The Giant Town", Horseshoe Bend, Cheat River, Tucker County  
**Wisconsin:** Doty Island, Menasha; Fox River; Merton; Pelican Lake; Stoddard

The following is a list of United States sites where height data of giant remains was not recorded.

**Arizona:** Lee Canyon  
**California:** Concord Mound in Contra Costa County; Carpinteria; Emeryville Shellmound, Temescal Creek; West Berkeley Shellmound, Strawberry Creek; Taft  
**Florida:** Little Salt Spring; Naples; North Port; Republic Grove, Hardee County; Sarasota; West Bay; Windover Pond, Titusville (bog mummies water burials perfectly preserved, dated to 12,000 BCE)  
**Nevada:** Gypsum Cave near Las Vegas  
**New York:** Phoenix, Oswego River Valley  
**North Dakota:** Mandan; Caney Fork  
**Oklahoma:** Thunderbird  
**Pennsylvania:** Delaware Valley; Avella Cave,



Monks Mound, located at the Pre-Columbian Cahokia Mounds complex near Collinsville, Illinois. In 1982, UNESCO designated the Cahokia Mounds site as a World Heritage Site. (Photo: Tim Vickers)

Washington County  
Tennessee: Cumberland  
Caverns near Cairo  
(mummies in pyramidal  
baskets)  
Texas: Waco  
Virginia: Front Royal

## The Cahokia Mounds

The Cahokia Mounds State Historic Site originally covered an area of approximately six square miles and included up to 120 mounds. It may have had a population of up to 50,000 in its heyday. The site is located in the southwest of Illinois near Collinsville across from St Louis at the American Bottom—a fertile area of approximately 175 square miles—at the confluence of the Mississippi, Missouri and Illinois rivers.

The complex includes Monks Mound, a stepped rectangular earthwork measuring 100 feet high with a base 951 feet long by 836 feet wide and covering an area of 13.8 acres, slightly larger than the base of the Great Pyramid of Giza.

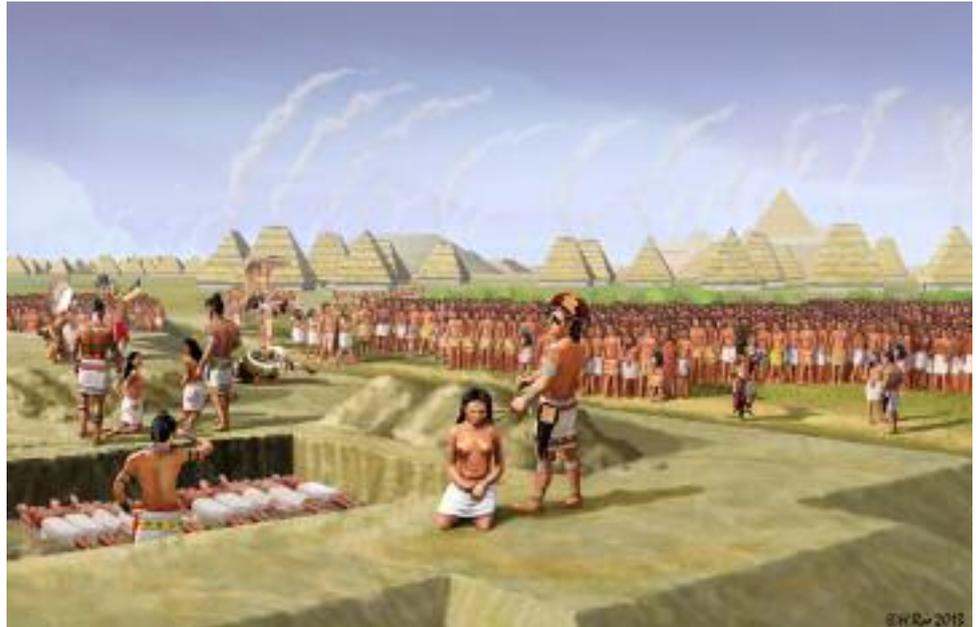
The Mound 72 Woodhenge consisted of 48 posts placed upon a circle 412 feet in diameter. A thunderbird or falcon image composed of 20,000 beads was found with the "Birdman" burial at the site. The henge was publicly desecrated and destroyed, with more than 100 skeletons lost, hidden or removed without record.

Most sources reference the Cahokia complex as being six square miles in area. This is very interesting because ancient holy sites around the world had precincts based upon the measure of six straight miles (not square miles). Six times 5,280 or four times 7,920 equals 31,680, the number of miles in the sublunar atmosphere perimeter, or the Earth's halo in ancient cosmology, the sphere of life surrounding Earth. Also significant is that Cahokia is located at a longitude of 90.06 degrees west, close to the celestial-terrestrial boundary of Scorpio-Sagittarius.

## Countering the Corruption of History

Most importantly, these mounds are in fact scientific instruments that must be preserved sedulously because they are sited upon Earth energy portals that produce heat, healing and inspiration. The scientific ramifications and uses of these energy sites are beyond telling.

The presence of a vast empire of large populations of scientifically astute people able to survey exact squares and circles, calculating in feet, furlongs and miles to create cardinal and astronomical alignments and whose gigantic stature connects them to extremely ancient ages



An illustration of the ritual sacrifice by strangulation of 53 young women (aged 15 to 25) at the Mound 72 burial of an important person, now referred to as the "Birdman" because of the falcon-shaped arrangement of beads around his body. Mound 72 is a ridgetop mound at the Cahokia Mounds site, a large Mississippian culture centre located in today's Madison County, Illinois. (Illustration: Herb Roe)

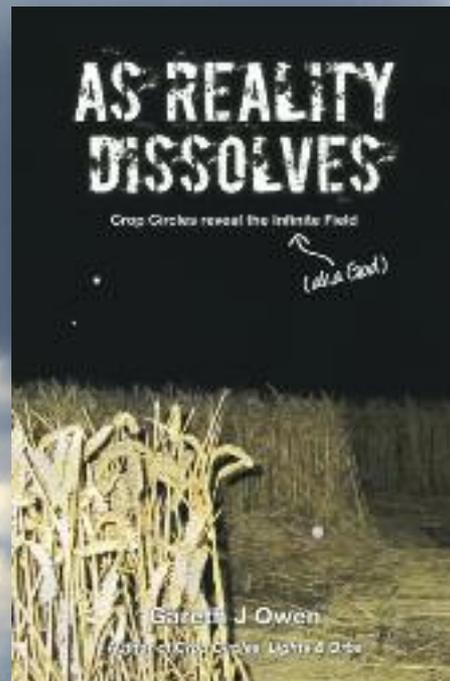
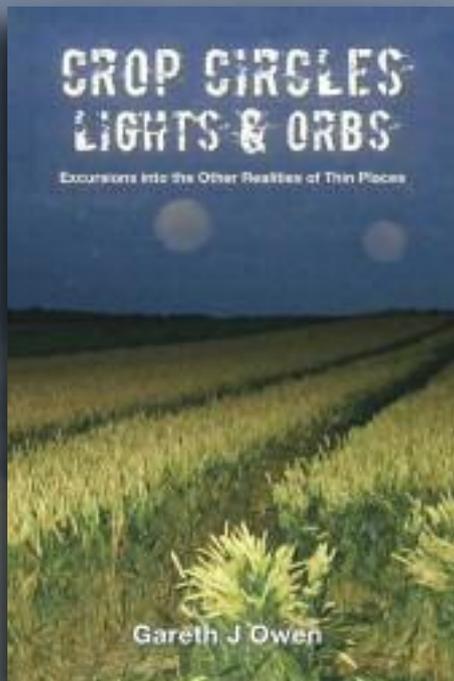
of time, constitutes a vitally important period in human development affecting all of the sciences. By specifically not recognising the historical importance of the mounds, the Smithsonian allowed them to be ploughed and pillaged of ancient skeletons and artefacts supporting the mounds' authenticity and time periods. Considering the presence of 100,000 mounds, it seems incredible how few articles were brought to light. The lack of recognition and protection of these sites in effect opened the door to their eventual eradication.

The Smithsonian Institution and its fellow conspirators in academia decided to hide information (the same as destroying it) and control our knowledge and perception of history and world-shaking discoveries. And if the Smithsonian and academia were hiding this information, what else are they still hiding? We should be outraged. Every falsification, distortion, obfuscation and subterfuge intimately harms history, logic, science and our worldview.

It is a disservice to history to deny American Mound Culture its place in the world's archives. Many countries recall myths and traditions as well as structures from the Age of Giants. The Great Pyramid is said to stem from the Golden Age of Giants before the Great Flood. The consequence of this denial is to abrogate sequential episodes in the development of cosmic cycles. It allows educators and politicians to control the straight-line theory of humanity's development without reference to the cyclical ups and downs of all civilisations. Every act of book-burning and burying of philosophers has resulted in the rise of false rulers and fascist politics.

**Continued on page 82**

# Back into the crop circles and beyond...



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# Science News

## WHAT ARE SCALAR WAVES?

by Dr Horst Eckardt © 2012–2017

There is widespread confusion in serious and less serious electrical engineering literature on what scalar waves are. In this paper we explain that these types of waves are longitudinal waves of potential.

It is shown that a longitudinal wave is a combination of a vector potential and a scalar potential. There is a full analogue to acoustic waves. Transmitters and receivers for longitudinal electromagnetic waves are discussed.

With the appearance of experiments on non-classical effects of electrodynamics, authors often speak of electromagnetic waves *not* being based on oscillations of electric and magnetic fields. It is claimed that there is an effect of such waves on biological systems, in particular on the human body. Even medical devices are sold which are assumed to work on the principle of transmitting any kind of information via waves which have a positive effect on human health. In all cases, the explanation for these effects is speculative, and even the transmission mechanism remains unclear because there is no sound theory on such waves, often subsumed under the notion of "scalar waves". We try to give a clear definition of certain types of waves which can serve to explain the observed effects.

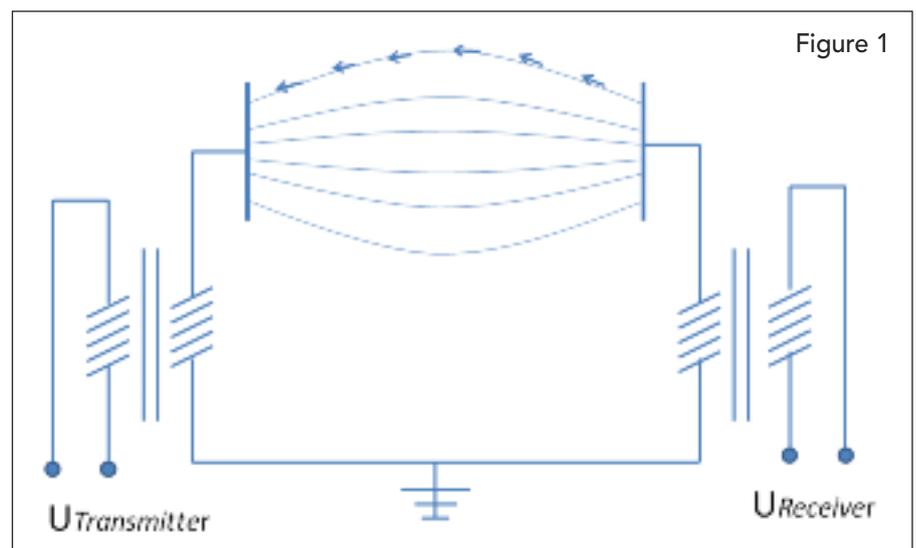
Before analysing the problem in more detail, we have to discern between scalar waves which contain fractions of ordinary electric and

magnetic fields and such waves which do not and therefore appear even more obscure. Often scalar waves are assumed to consist of longitudinal fields. In ordinary Maxwellian electrodynamics, such fields do not exist; electromagnetic radiation is said to be always transversal. In modern unified physics approaches such as the Einstein–Cartan–Evans (ECE) theory<sup>1,2</sup>, however, it has been shown that polarisation directions of electromagnetic fields do exist in all directions of four-dimensional space. So, in the direction of transmission, an ordinary electromagnetic wave has a longitudinal magnetic component, the so-called  $B^{(3)}$  field of Evans.<sup>3</sup> The  $B^{(3)}$  field is detectable by the so-called inverse Faraday effect, which has been known experimentally since the 1960s.<sup>4</sup>

Some setups, for example the magnifying transmitter of Tesla<sup>6,7</sup> or the experimentation model of

Meyl<sup>8</sup>, are claimed to utilise these longitudinal components. They can be considered to consist of an extended resonant circuit where one capacitor plate is displaced to the transmitter site and one to the receiver site (figure 1). In an ordinary capacitor (or cavity resonator), a very-high-frequency wave (GHz or THz range) leads to significant run-time effects of the signal so that the quasi-static electric field can be considered to be cut into pulses. These represent the near field of an electromagnetic wave and may be considered to be longitudinal. For lower frequencies, the electric field between the capacitor plates remains quasi-static and therefore longitudinal, too.

We do not want to go deeper into this subject here. Having given hints for the possible existence of longitudinal electric and magnetic fields, we leave this area and concentrate on mechanisms which allow the transmission of signals



Propagation of longitudinal electric waves according to Tesla and Meyl

even without any detectable electromagnetic fields.

### Longitudinal Potential Waves

In this section, we develop the theory of electromagnetic waves with vanishing field vectors. Such a field state is normally referred to as

a "vacuum state" and has been described in full relativistic detail by Eckardt and Lindstrom.<sup>5</sup> Vacuum states also play a role in the microscopic interaction with matter. Here we restrict consideration to ordinary electrodynamics to give engineers a chance to fully

understand the subject. With **E** and **B** designating the classical electric and magnetic field vectors, a vacuum state is defined by:

$$E = 0 \tag{1}$$

$$B = 0 \tag{2}$$

The only possibility to find electromagnetic effects, then, is by the potentials. These are defined as vector and scalar potentials to constitute the "force" fields **E** and **B**:

$$E = -\nabla U - \dot{A} \tag{3}$$

$$B = \nabla \times A \tag{4}$$

with electric scalar potential *U* and magnetic vector potential **A**. The dot above the **A**, as in  $\dot{A}$ , denotes the time derivative. For the vacuum, the conditions of equations 1 and 2 lead to:

$$\nabla U = -\dot{A} \tag{5}$$

$$\nabla \times A = 0 \tag{6}$$

From equation 6, it follows immediately that the vector potential is vortex free, representing a laminar flow. The gradient of the scalar potential is coupled to the time derivative of the vector potential, so both are not independent of one another.

A general solution to these equations was derived by Eckardt and Lindstrom.<sup>5</sup> This is a wave solution where **A** is in the direction of propagation, i.e., this is a longitudinal wave. Several wave forms are possible, which may even result in a propagation velocity different from the speed of light. As a simple example, we assume a sine-like behaviour of **A**:

$$A = A_0 \sin(k \cdot x - \omega t) \tag{7}$$

with direction of propagation **k** (wave vector), space coordinate vector **x** and time frequency  $\omega$ .

Then it follows from equation 5 that:

$$\nabla U = A_0 \omega \cos(k \cdot x - \omega t) \tag{8}$$

This condition has to be met for any potential *U*.

We make the approach:

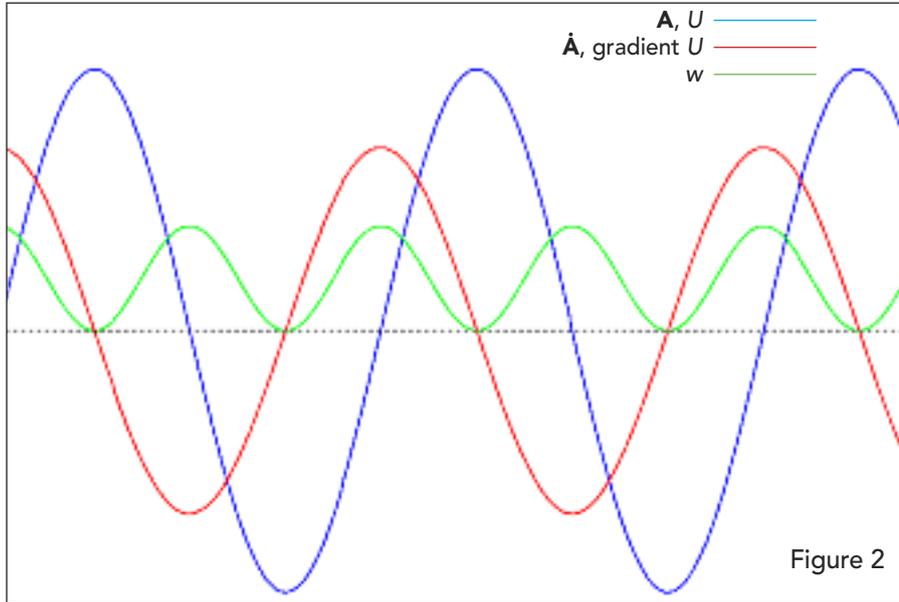


Figure 2

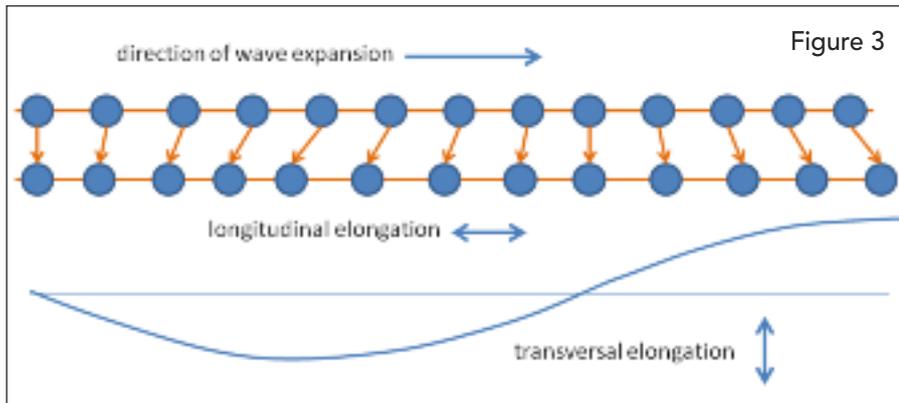


Figure 3

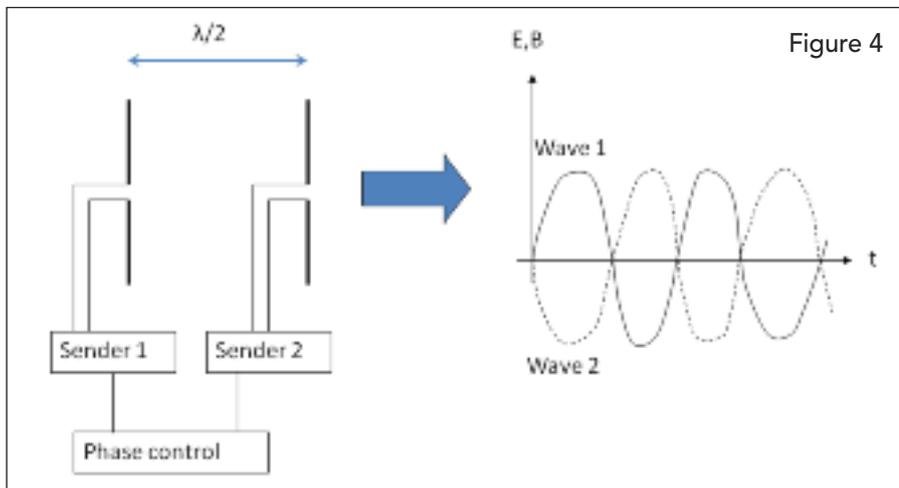


Figure 4

**Figure 2:** Phases of potentials **A** and **U**, and energy density *w*

**Figure 3:** Schematic representation of longitudinal and transversal waves

**Figure 4:** Suggestion for a transmitter of longitudinal potential waves

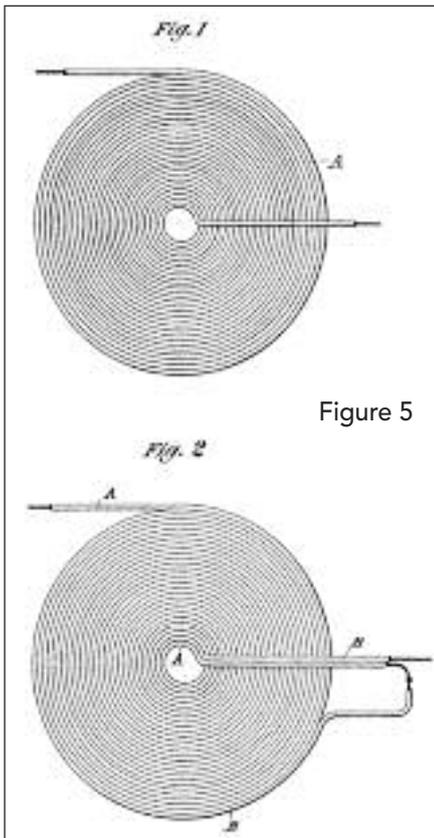


Figure 5

Tesla coils according to the patent<sup>7</sup>

$$U = U_0 \sin(k \cdot x - \omega t) \quad (9)$$

to find that:

$$\nabla U = k U_0 \cos(k \cdot x - \omega t) \quad (10)$$

which, compared to equation 8, defines the constant  $A_0$  to be:

$$A_0 = k(U_0/\omega) \quad (11)$$

Obviously, the waves of  $A$  and  $U$  have the same phase.

Next we consider the energy density of such a combined wave. This is, in general, given by:

$$w = (1/2)\epsilon_0 E^2 + 1/(2\mu_0)B^2 \quad (12)$$

From equations 5 and 6, it is seen that the magnetic field disappears identically but the electric field is a vanishing sum of two terms which are different from zero. These two terms evoke an energy density of space where the wave propagates. This cannot be obtained out of the force fields (these are zero) but must be computed from the constituting potentials. As discussed in Eckardt and Lindstrom<sup>5</sup>, we have to write:

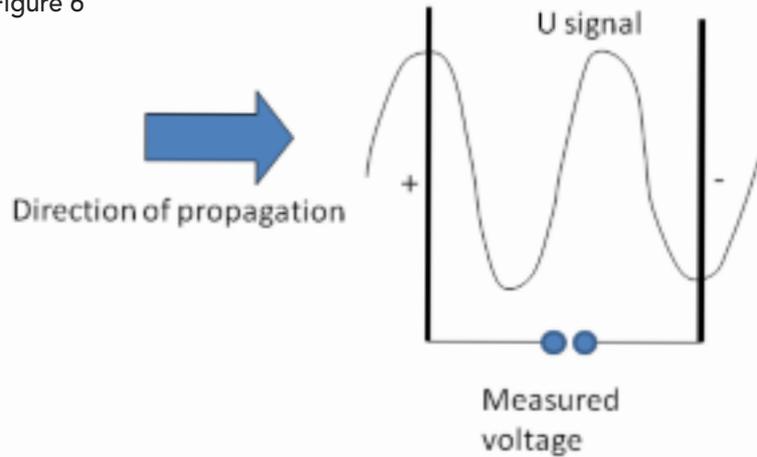
$$w = (1/2)\epsilon_0(\dot{A}^2 + [\nabla U]^2) \quad (13)$$

With equations 7 and 9, it follows:

$$w = \epsilon_0 k^2 U_0^2 \cos^2(k \cdot x - \omega t) \quad (14)$$

This is an oscillating function,

Figure 6



Suggestion for a receiver of longitudinal potential waves (capacitor)

meaning that the energy density varies over space and time in phase with the propagation of the wave. All quantities are depicted in figure 2. Energy density is maximal where the potentials cross the zero axis. There is a phase shift of 90 degrees between both.

There is an analogy between longitudinal potential waves and acoustic waves. It is well known that acoustic waves in air or solids are mainly longitudinal, too. The elongation of molecules is in the direction of wave propagation, as shown in figure 3. This is a variation in velocity. Therefore the magnetic vector potential can be compared with a velocity field. The differences of elongation evoke a local pressure difference. Where the molecules are pressed together, the pressure is enhanced, and vice versa. From conservation of momentum, the force  $F$  in a compressible fluid is:

$$F = \dot{u} + \nabla p / \rho \quad (15)$$

where  $u$  is the velocity field,  $\dot{u}$  its time derivative,  $p$  the pressure and  $\rho$  the density of the medium. This is in full analogy with equation 3. In particular we see that in the electromagnetic case, spacetime must be "compressible", otherwise there would be no gradient of the scalar potential. As a consequence, space itself must be compressible, leading us to the principles of general relativity.

### Transmitters and Receivers for Longitudinal Waves

A sender for longitudinal potential waves has to be a device which avoids producing  $E$  and  $B$  fields but sends out oscillating potentials. We discuss two propositions as to how this can be achieved technically.

In the first case, we use two ordinary transmitter antennas (with a directional characteristic) at a distance of half a wavelength (or an odd number of half-waves). This means that ordinary electromagnetic waves are cancelled out, assuming that the near field is not disturbing them significantly. Since the radiated energy cannot disappear, it must propagate in space and is transmitted in the form of potential waves (figure 4).

A second, more common example is a bifilar flat coil; see Tesla's patent<sup>7</sup> (figure 5). The currents in opposite directions annihilate the magnetic field component, while an electric part may remain due to the static field of the wires.

Construction of a receiver is not so straightforward. In principle, no magnetic field can be retrieved directly from  $A$  due to equation 6. The only way is to obtain an electrical signal by separating both contributing parts in equation 3 so that the equality (equation 5) is outweighed and an effective electric field remains which can be detected

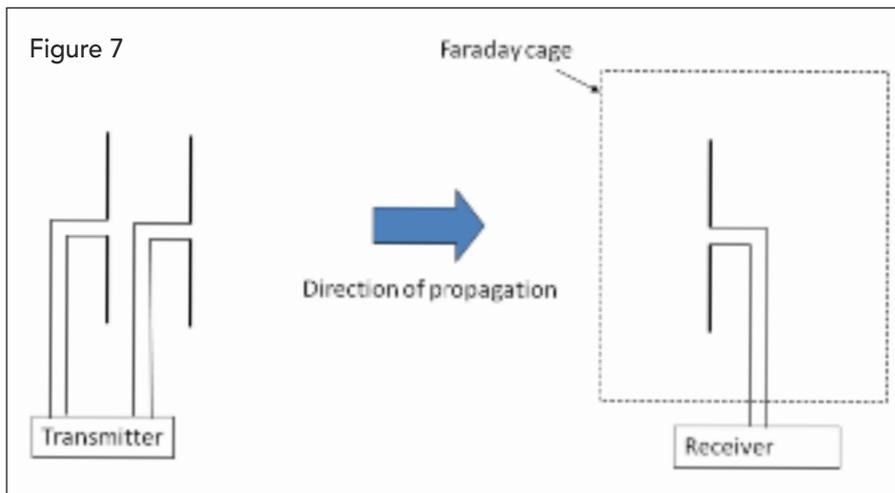


Figure 7  
Suggestion for a receiver of longitudinal potential waves (Faraday cage)

by conventional devices.

A very simple method would be to place two plates of a capacitor at a distance of half a wavelength (or odd multiples of it). Then the voltage in space should have an effect on the charge carriers in the plates, leading to the same effect as if a voltage had been applied between the plates. The real voltage in the plates or the compensating current can be measured (figure 6). The "tension of space" operates directly on the charge carriers while no electric field is induced. The  $\dot{A}$  part is not contributing because the direction of the plates is perpendicular to it, i.e., no significant current can be induced.

Another possibility for a receiver is to use a screened box (a Faraday cage). If the mechanism described for the capacitor plates is valid, the electrical voltage part of the wave creates charge effects which are compensated immediately due to the high conductivity of the material. As is well known, the interior of a Faraday cage is free of electric fields. The potential is constant because it is constant on the box's surface. Therefore only the magnetic part of the wave propagates in the interior, where it can be detected by a conventional receiver (figure 7).

Another method of detection is using vector potential effects in

crystalline solids. As is well known from solid state physics, the vector potential produces excitations within the quantum mechanical electronic structure, provided that the frequency is near to the optical range. Crystal batteries work in this way. They can be engineered through the chemical vapour deposition of carbon. In the process, you get strong, lightweight, crystalline shapes that can handle lots of heat and stress (by high currents). For detecting longitudinal waves, the excitation of the electronic system has to be measured, for example by photoemission or other energetic processes in the crystal.

All these are suggestions for experiments with longitudinal waves. Additional experiments can be performed for testing the relationship between wave vector  $k$  and frequency  $\omega$  to check if this type of wave propagates with the ordinary velocity of light  $c$ :

$$c = \omega/k \quad (16)$$

where  $k$  (the modulus of  $k$ ) is defined from the wavelength  $\lambda$  by:

$$k = 2\pi/\lambda \quad (17)$$

As pointed out by Eckardt and Lindstrom<sup>5</sup>, the speed of propagation depends on the form of the waves. This can even be a nonlinear step function. The experimental setup of figure 6 can be used directly for finding the  $\omega(k)$  relation because the wavelength

and frequency are measured at the same time.

There are rumours that Eric P. Dollard found a propagation speed of longitudinal waves of  $\pi/2 \cdot c$ , but there are no reliable experiments on this reported in the literature.

The ideas worked out in this paper may not be the only way as to how longitudinal waves can be explained and technically handled. As mentioned, electrodynamics derived from a unified field theory<sup>1</sup> predicts effects of polarisation in all space and time dimensions and may lead to a discovery of even richer and more interesting effects.

### August 2017 Update

Since this 2012 paper was written, the Alpha Institute for Advanced Studies has made much progress in research into electromagnetism. It has been found that longitudinal electromagnetic waves are fully valid solutions to Maxwell's equations. In particular, so-called Beltrami fields (see the paper at <http://tinyurl.com/yd5q3714>) are good candidates for effects often attributed to scalar waves. These are solutions where magnetic and electric fields and current densities are all in parallel. These fields have been known to mathematicians for over 100 years.

Figure 1.2 (page 44) of the reference above depicts a structure which should be able to serve as an antenna for Beltrami fields. These are standing waves where only one end of the wave has to be fixed. This is an astonishing revelation for scientists.  $\infty$

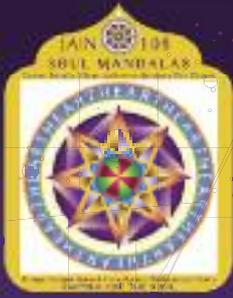
### Author's Acknowledgement:

My thanks to F. Amador and D. W. Lindstrom for valuable technical hints.

### About the Author:

Horst Eckardt, PhD, is a German theoretical physicist who studied solid state physics and theoretical chemistry. After this, he worked in

**Continued on page 84**



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# Crop Circles of 2017

Photo: Crop Circle Connector

by Andy Thomas © August 2017

## Challenging media myths: alternative enquiry lives on in the fields

### Attack of the Drones

Imagine this. A group of drone-owning "scammers" make, or commission the creation of, an elaborate crop formation. Once the design is constructed, they fly their drones over it and take videos. They then post the footage online and make large sums of money from advertising revenue, thus justifying the whole enterprise.

Such was the scenario painted this summer as the one major piece of publicity that the crop circle phenomenon received in the mainstream press, and it was promoted as unquestionable fact. In a season where the UK was blessed with many ambitious and stirring designs in the fields, the media merely responded by reducing them to the level of "fake news" clickbait. Derisory comments were included from the police as well as the National Farmers Union, which said that "crop circles posed a 'considerable nuisance' and members of the public

should refrain from giving vandals the desired publicity" (*The Daily Telegraph*, 13 July 2017).

The small-minded presumptions and the glaring inaccuracies made in the near-identical reports which appeared across news outlets reflects the paucity of journalistic imagination which surrounds unexplained mysteries in these times—and some crop circles *do* remain unexplained mysteries, however many might be made in the manner described.

As for drone operators making significant amounts of money from online advertising, anyone who tries to get rich this way knows that one needs a *lot* of views to pay for anything much beyond petrol and batteries.

Farmers are understandably concerned about damage to their crops from visitors to formations, but spreading unprovable assertions is not the solution.

In truth, the drones news story was a further sign of the

current silent coup against free speech and the flow of information. The story's implied linking of crop circles with money-making "fake news" is just another way of closing down legitimate alternative enquiry.

## Opening Weeks

So, whether the crop circles are the work of drone scammers or the mysterious "something else"—be it extraterrestrial, extradimensional, psychic or spiritual—that many believe explains the more ambitious creations in the landscape, how did this season unfold? With global numbers having receded in the last few years for reasons unresolved, we begin with the best of the UK formations, which although fewer in number still remain at the hub of the phenomenon and compensate with their remarkably consistent quality.

The earliest arrival, on 16 April (pretty much the usual opening period for English activity), lay in bright yellow rapeseed (canola) just below the famous stone needle and White Horse atop the crest of Cherhill in Wiltshire. A crescent with a long spur leading to a slightly off-centre small circle, its crisp layout was distinguished by internal narrow standing paths which provided a skeleton for the whole design. A further crescent in rapeseed appeared, accompanied by two small circles, two days later near Cherlington in Gloucestershire.

The first distinct mandala of the year, again formed in rapeseed, was found near Avebury on 22 April: a clean six-petalled flower with a central "cube", seen as if in perspective. This was followed two days later by one of the more unusual designs of the season, on the top of Oliver's Castle near Devizes in Wiltshire (scene of the controversial video which shows a formation appearing, produced an incredible 21 years ago and still never fully explained for all of the arguments). Although mostly comprised of empty space, this very wide ring with no central motif had 27 small ringed circles arrayed around its inner circumference.

## A Busy May

May can be a quiet month for the phenomenon, but this year it confounded expectations by producing nine formations, most of them noteworthy. These appeared during the weeks of frantic political activity in Britain as it prepared for an unexpected general election, with the defending Prime Minister aptly named Theresa May.

A curious design in rapeseed on 4 May at Mere in Wiltshire, comprising two seven-circled arms either side of a triplet dumbbell, suggested some kind of swinging pendulum gauge—which may, or may not, have had something to say about the way the election would go!

However, this season's first pattern formed in grain, at Stitchcombe in Wiltshire on 21 May, seemed to promise a brighter future, being a striking motif of 12 smaller "sun rays" within 12 larger ones.

Ancient sacred sites have long been attractors (or



Cerne Abbas,  
Dorset, 22 May

generators, according to the Earth-energy theory) of crop circles, and one of this year's more notable examples was the fittingly vulva-shaped vesica piscis design which arrived adjacent to the well-endowed male Giant chalk carving at Cerne Abbas in Dorset on 22 May.

At Marazion in Cornwall on 24 May, a late rapeseed crop glyph was received within view of another historic landmark, the sacred island of St Michael's Mount. It resembled a decorative glider plane or perhaps a flying fish. St Michael's Mount is very near the western end of the "Michael and Mary" ley lines which are said to run from Norfolk to Cornwall, with Avebury close to their centre. This was one of two patterns to appear within sight of the sea this season, a fairly rare occurrence. The other arrived at Climping Beach, Atherington, in West Sussex on 19 July and comprised a cross of multiple rings with a chequerboard "basket weave" lay at its centre.

One standout formation materialised at Alton Barnes in Wiltshire on 25 May, near the White Horse overlooking



Climping Beach,  
West Sussex, 19 July



Alton Barnes,  
Wiltshire, 25 May



Broad Hinton,  
Wiltshire, 28 May

the Vale of Pewsey which has seen so many crop circles in the last three decades. This cross, with elements similar to the first Cherhill glyph, had thin standing paths and rings delineating the overall pattern. Small standing centres punctuated each of the four outer circles, with only the central circle laid entirely flat. The lay was very neat and crisp, and a "fan" shape with seven semicircles adorned part of the outside of one circle.

Also on 25 May, near the Winchester Science Centre and Planetarium in Hampshire, a Celtic cross design with a central motif akin to a dartboard with segmented curved blocks made its presence known.

On 28 May, Broad Hinton in Wiltshire received two complex formations: one an elegant six-petalled flower of very thin paths and rings with a small circle nearby, and the other a rather different five-pointed star studded with many tiny circles. At Chicklade, Wiltshire, on 30 May, another sixfold flower pattern was found, this time with much wider paths in the central area and six circles arrayed on the outside.



Chicklade,  
Wiltshire, 30 May

of earlier years. Essentially a circle with five semicircles touching its inner circumference, its clever standing areas implied a chunky pentagon "hiding" behind the semicircles. Its central circle was attractively laid in a pentagon shape in the basket-weave style with a small circular area in the very middle. A notably similar weave was the main feature of a single circle that appeared at West Kennet on 21 June, broken up only by an intriguing central swirl and a splay which extended itself as a ghostly path towards the outer edge of the circle, all within the flattened lay.

Followers of mystical traditions were delighted to see the return to the fields of the kabbalistic Tree of Life, at Badbury Rings in Dorset on 16 June, a theme which has

### June Developments

The next month began simply on 3 June near Avebury, Wiltshire, with a perfect ringed circle of the classic variety. Greater complexity followed as Oxfordshire entered the picture the next day with a striking sixfold emblem of multiple rings and circles at Ashbury.

In Wiltshire again, moving on from straightforward circular elements, the pattern which arrived at Maiden Bradley on 9 June recalled the more overt geometric play



West Kennet, Wiltshire, 21 June

occurred a number of times since 1997 when it made its debut. This version added sharp-angled outside paths, suggesting an evolution of consciousness with its extended branches.

Another old crop circle setting was revisited on 17 June when Cheesefoot Head in Hampshire received a sharp-looking wheel of 18 triangular "blades", set at an angle like a circular saw disc, enclosing a standing crescent at the centre.

The final entry for the month was on 26 June at East Kennett, Wiltshire, with a clearly impressed pictogram in a style reminiscent of those of the early 1990s. Its three circles in a line—one fully flattened, a smaller one with a standing centre and another with a large standing circle within it (or a thick ring, if one prefers)—were beautifully laid and partly encompassed by thin paths which seemed to hold all of them together in a manner very pleasing to the eye.



Cheesefoot Head,  
Hampshire, 17 June



East Kennett,  
Wiltshire, 26 June

### July Astonishments

The "cube" emblem, first seen this season in the 22 April Avebury formation, returned for its second foray at Lockeridge, Wiltshire, on 1 July, this time encased within a sevenfold flower of standing petals surrounded by thin rings. The cube would see its ultimate 2017 expression just a few weeks later.

For decades, Warminster in Wiltshire has been the site of an ongoing UFO "flap", and its landscape has been peppered with crop circles many times. The first of this year's two stunning entries there was discovered on 5 July near the ancient site of Battlesbury Hill in the form of a very chunky Celtic cross, each circle ringed and with smaller circles and additional paths within it giving a lovely flowing impression.

Back at Broad Hinton on 8 July, this time near another carved chalk horse at Hackpen Hill (also a familiar area for the circles), a stunning sixfold motif of "shattered" triangular elements saw the season move up a gear. The components were grouped together with six semicircles in the same style within a ring, but the artistic intent was at first puzzling to the eye. Looked at more closely, however, the elements resolved themselves into more coherency, revealing the genius behind the layout.

Returning to Warminster, on this occasion beneath the imposing Iron Age hillfort of Cley Hill, what was generally agreed to be the most astonishingly striking design of the UK summer was reported on 18 July. Building on the aforementioned cube theme, the climax in this trilogy was



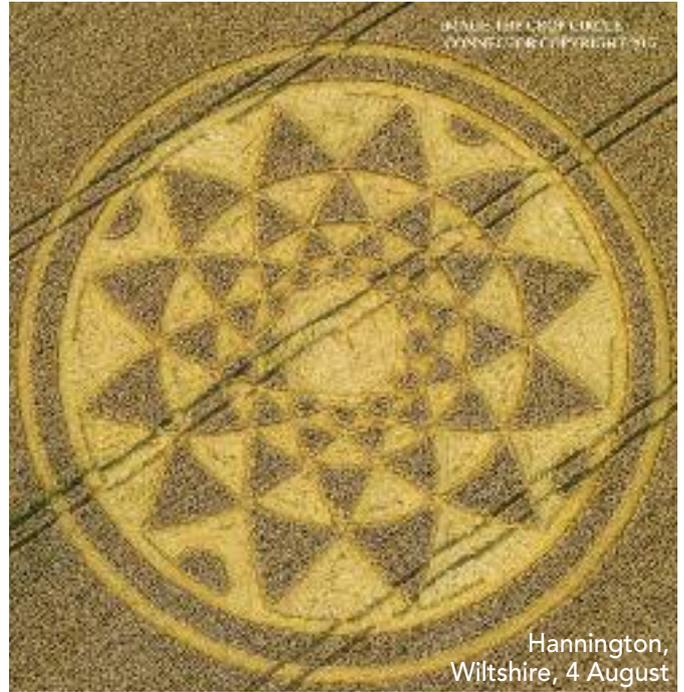
Badbury Rings,  
Dorset,  
16 June



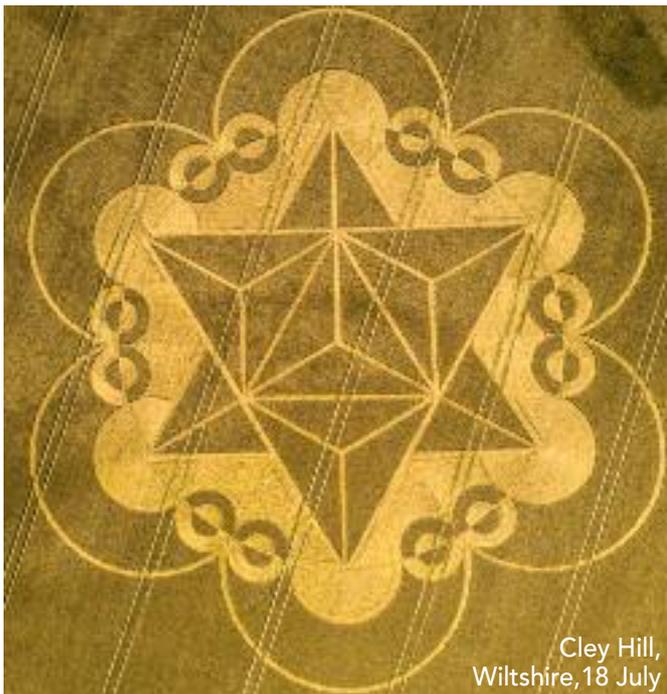
Lockeridge,  
Wiltshire, 1 July



Battlesbury Hill,  
Wiltshire, 5 July



Hannington,  
Wiltshire, 4 August



Cley Hill,  
Wiltshire, 18 July



Little Compton,  
Oxfordshire, 5 August

an expansion featuring a complex six-pointed star surrounding the cube, looking as if rendered as a three-dimensional geometric model. Encompassing both, a multiplicity of rings and circles, some part laid and part standing, completed the effect to create an exquisitely beautiful and precise achievement on a par with many past masterpieces.

### The August Foursome

The numbers of new events slowed down considerably in August, but the four that occurred were worthwhile, beginning with an impressively elaborate 12-fold flower at Hannington, Wiltshire, on 4 August. It was comprised of four bands of curved petals, becoming smaller and flatter towards a central swirl and encircled by a ring touched by four small standing semicircles, all enclosed within a larger ring. This highly ambitious design was also a vote-winner among enthusiasts.

However, Wiltshire would be deserted in favour of other counties for the final agriglyphs of the summer. On

5 August, an exquisite mandala arrived at Little Compton in Oxfordshire near another ancient site, the charming Rollright stone circle, host to a number of crop circles in years past. This fascinating endeavour exhibited four five-pointed stars, seen as if in stretched perspective, with an unusual octagon in the centre. The octagon's main outer edge was laid in a basket-weave style, with a more conventional swirl and a thin standing ring in the middle.

Wootton Wawen in Warwickshire provided a curious and effective innovation on 7 August. At first glance a simple ringed circle with a pointed spur leading to a tail of several circles of diminishing size, the formation showed its true qualities in its complicated lay. An offset radially laid circle with a standing centre within a swirled ring was surrounded by a circle which itself radiated 16 thin paths, like rays, with the crop between them swept straight across. The overall effect was like looking at a strange sea creature swimming across the field.

The final UK circle event at the time of writing occurred on 17 August near Rochford, Essex, site of several glyphs in the last few years. The main body of this design was a neat standing crescent within a large ring, made more peculiar by a grid of radiating lines and symbol-like squiggles which emanated from an arc of the ring close

to the crescent. The grid seemed to lack the finesse of the crescent and was suspected by some to have been added afterwards by pranksters, although there are no photographs showing the pattern without it. Thus it was the perfect, bamboozling close to another season of stunning, bizarre and sometimes provocative pictograms in the English fields, leaving more questions than answers, as ever.

### Events Abroad

What of the rest of the world, which seems to have fallen so quiet with its circular contributions in recent times?

The question of why so much activity is centred in England has never been settled. Occasional years have seen other countries threaten to match or surpass the traditional heartlands in terms of numbers, but the challenge rarely lasts long and the patterns themselves often seem less robust in their construction, with a few exceptions. Are we looking at a geological phenomenon at work (the majority of English formations notably cluster around the chalk aquifers) or the selection of one nation to be the centre of something that simply doesn't need to operate everywhere else to the same degree? Or does the UK simply host the best artists, ethereal or human? We simply don't know. Yet 2017 did see at least a little global action.

Argentina started the international season with three thin rings formed in grass at Carmen de Areco, near Buenos Aires, on 11 March.

The Netherlands began its usual run of slightly odd and rather scrappy formations (now dismissed as dubious by most researchers) with a single circle at Bosschenhoofd in the Noord-Brabant province on 10 April. While the glyphs are often centred around Hoeven in the same region and are frequently made in grass, this year some of the circle designs progressed into various crops as the summer went on, but none was of any great spectacle.

Italy was once a burgeoning country for inventive crop circles, but this year it only managed to come up with an elaborate but known art project design created by a team at Scalenghe, Piedmont, on 27–28 May, and just one more, of an indeterminate origin, at an unrevealed location on 5 July in the form of thin rings within a triangle and three extending arms of three circles each.



Rochford, Essex,  
17 August

Germany, another previous hotspot, produced nothing at all this season.

France was gifted with two interesting designs this year. The first one arrived at Crézancy-en-Sancerre in the Cher area on 2 June and comprised a neat if slightly eccentric complex of circles bound by thin rings and a crescent at strange angles to each other, rather like a mutated Celtic cross. The second entry, on 18 June at Vieux-Lixheim in Moselle, had an astronomical flavour, featuring a large circle with two thin outer rings superimposed with other rings and circles, suggesting some kind of orbital diagram.

Switzerland generated a small but curious design at Delley-Portalban, Fribourg, on 27 June, in the form of a neatly laid circle with three standing "blades" broken into thin fragments. This was followed by a single circle with a slight bulge on one side at Val-de-Ruz, Neuchâtel, some time in mid-July.

Bulgaria and Poland received a single formation each in July. The Bulgarian pictogram, in Sofia City

Province on 5 July, was an attractive sixfold flower with an internal standing ring within a thick ring, with three small circles perched on the outer circumference of three of the very thin petals, rather like a demonstration of atomic physics. Poland's pattern was somewhat simpler, being a classic circle with double outer rings at Białystok, Podlaskie, on 29 July.

And that was it for documented activity beyond the UK in 2017, as this article was being compiled in late August: just eight formations and the usual collection of small Dutch oddities.

### A Good Season

For all the apparent slumber of the rest of the world, with 32 UK events of mostly ambitious and impressive quality it still feels as if we had a good crop circle season, even though numbers were down on the previous year. Certainly, the National Farmers Union and the police felt moved to act, which is telling.

Newcomers to the phenomenon continue to be amazed and are drawn into the same journey of wonder that has transformed others before them, which may explain why this very persistent mystery keeps going.

**Continued on page 82**

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# Unearthing the Nazca

## mummies



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by Linda Moulton Howe © June–August 2017

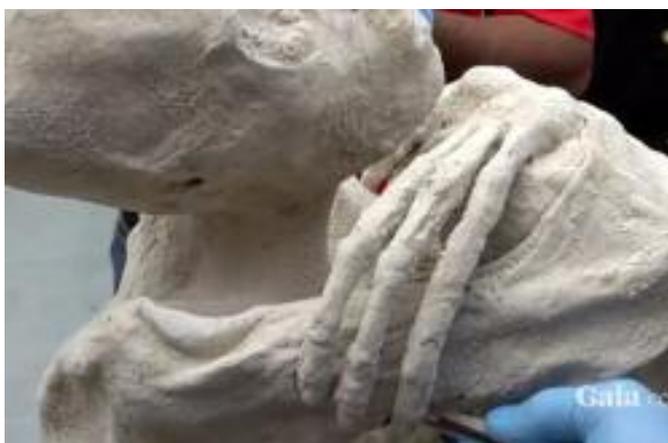
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Mary Jesse, MD  
Assistant Professor, Radiology–Diagnostics  
School of Medicine  
University of Colorado, USA

### A Compelling Investigation

On Tuesday, June 20, 2017, Gaia.com in Louisville, Colorado, released a video on YouTube entitled "Special Report: Unearthing Nazca".

In the [northern hemisphere] spring of 2017, Mexico City–based investigative journalist Jaime Maussan, who produces *Tercer Milenio* TV, contacted Gaia about his learning that "a bunch of weird bodies" had been found underground, not far from Nazca, Peru. The bodies were weird because they had no ears, just holes in the sides of their elongated heads, the narrow hands had only three long fingers and the feet had three long toes.



**Top:** Medical specialists examine the humanoid mummy, thought to be a five-foot-six-inch [ $\sim 1.7$ -metre] female, coated in "white dust" (later identified as diatomaceous earth). The mummy has three long fingers on each hand and three long toes on each foot. The earless head is more elongated than most *Homo sapiens sapiens* heads. The mummy was allegedly exhumed from an underground burial chamber near Nazca, Peru, where several smaller, three-fingered, three-toed mummies, again covered with white powder, were also found. **Centre:** Close-up of the mummy's two feet, each with three long toes. **Below:** Close-up of three long fingers, each with six bones and human-like fingernails. (Source: Video frames from Gaia's "Special Report: Unearthing Nazca", YouTube, 20 June 2017)



Gaia crew and examiners surround the humanoid mummy after it was lifted out of a black container. Samples of tissues and the white powder covering the body were collected for analysis. Unlike most ancient mummies in which internal organs were removed to help prevent internal rot, this mummy still contains its internal organs. (Source: Video frame from Gaia's "Special Report: Unearthing Nazca", YouTube, 20 June 2017)

Melissa Tittl, Gaia's Director of Original Content, was given information that a Peruvian archaeologist had a contact for the bodies. Could they be primitive humans with a developmental deformity? Or could the strange humanoids be evidence of a non-human species that existed in the past or could even exist some place now? The Peruvian archaeologist had no other precedent for such mummies in Peru or anywhere else in the world.

So Melissa decided: "It could be something crazy. It could be something real. Whatever it was, we wanted to go to Nazca to see for ourselves and do our own story."

In the spring of 2017, Melissa travelled to the Nazca region with a camera crew to investigate the "weird" mummified bodies found in a tomb, which has not yet been shown by Gaia.

The first YouTube video, "Special Report: Unearthing Nazca", begins with the lifting of an all-white mummy from a black container. The mummy's legs are drawn up towards the chest, and the arms cross each other in front of the chest with the long, three-fingered hands each holding on to the opposite shoulder. So far, there is no laboratory report about what the white substance is that covers the body.

The ancient Egyptians at times used natron, a naturally occurring mixture of sodium carbonate, like soda ash mixed with sodium bicarbonate, during mummification ceremonies because natron absorbs water and is a drying agent. However, there is no example from Egypt or South America or anywhere else so far known in which the entire body is coated with a white substance, as is the

case with the Nazca mummy in the first Gaia YouTube video and the other smaller mummies found in what is described as an underground tomb.

## The Famous, Mysterious Geoglyphs and Lines of Nazca, Peru

The name "Nazca" comes from the Nazca culture that flourished on Peru's Pacific Coast desert, one of the driest regions on Earth, between 100 BC and 800 AD. Most of the geoglyphs and lines are dated from 200 BC to 500 AD. Is it a coincidence that the white mummy has been carbon-dated to the period of 245 AD to 410 AD?

This very dry Peruvian plateau, located 250 miles [400 kilometres] south of Lima, is covered with strange, large, land glyphs and lines situated between the towns of Nazca and Palpa to the northwest. Pilots say there are land glyphs located even much higher in the hills rising towards the Andes. Were they created by the Nazca natives or by something else?

On June 25, 2017, I recorded the following interview with Melissa Tittl of Gaia in Louisville, Colorado.

— Linda Moulton Howe  
Reporter and Editor, Earthfiles.com  
27 June 2017

### Interview: The Nazca Mummies

**Linda Moulton Howe (LMH):** Melissa, I did a search today for YouTube videos containing three-fingered hands and came up with two: from January 15, 2017, on *Beyond Science TV*, and from a February 17, 2017, presentation by long-time South America explorer Brien Foerster. Both videos show a whitish hand not connected to a body, which has three long fingers that contain six bones, and a close-up of one finger showing a human-looking fingernail. What is the relationship between these and what you are uncovering in the Nazca region?

**Melissa Tittl (MT):** No, that's a different hand. We got word of that, too, and I believe that hand is even longer than the hands on the mummy we've been showing in our Gaia promo. But that is not part of what we are doing. Jaime Maussan gave us the lead on the bodies we are investigating. We have found more things that will come up in other updates, but the January–February 2017 YouTube hand is a different hand.

**LMH:** Is it true that you have found multiple bodies mummified like the first one?

**MT:** We have. We have found multiple bodies, and I think the next Gaia.com update coming out is going to show and explain some of those other bodies that have been found. But I can't share the details yet.

**LMH:** When does the next update air?

**MT:** We are hoping to have it out next week—possibly Thursday, June 29, 2017.

**LMH:** How many bodies, and are they all the same?

**MT:** They are different. I can't really comment on how many bodies have been found, but there are more than



The mysterious Nazca lines and geoglyphs stretch over the dry plateau between Nazca and Palpa by some 30 miles [48 kilometres] and extend up into the lowlands of the Andes in a 170-square-mile [440-square-kilometre] canvas of puzzling animal, insect and geometric shapes as well as miles-long, perfectly straight "runways".



If these laser-straight runways were constructed by the Nazca natives about 1,800 years ago, what purpose did they serve? Aerial photographs taken close to the ground show that the lines and patterns are pressed deeply into the dry soil by many inches. The originally accepted explanation in the 1930s, when the Nazca lines and patterns were first reported to the world, was that humans had trudged them with their feet.

(Photo: Pierre André Leclercq)

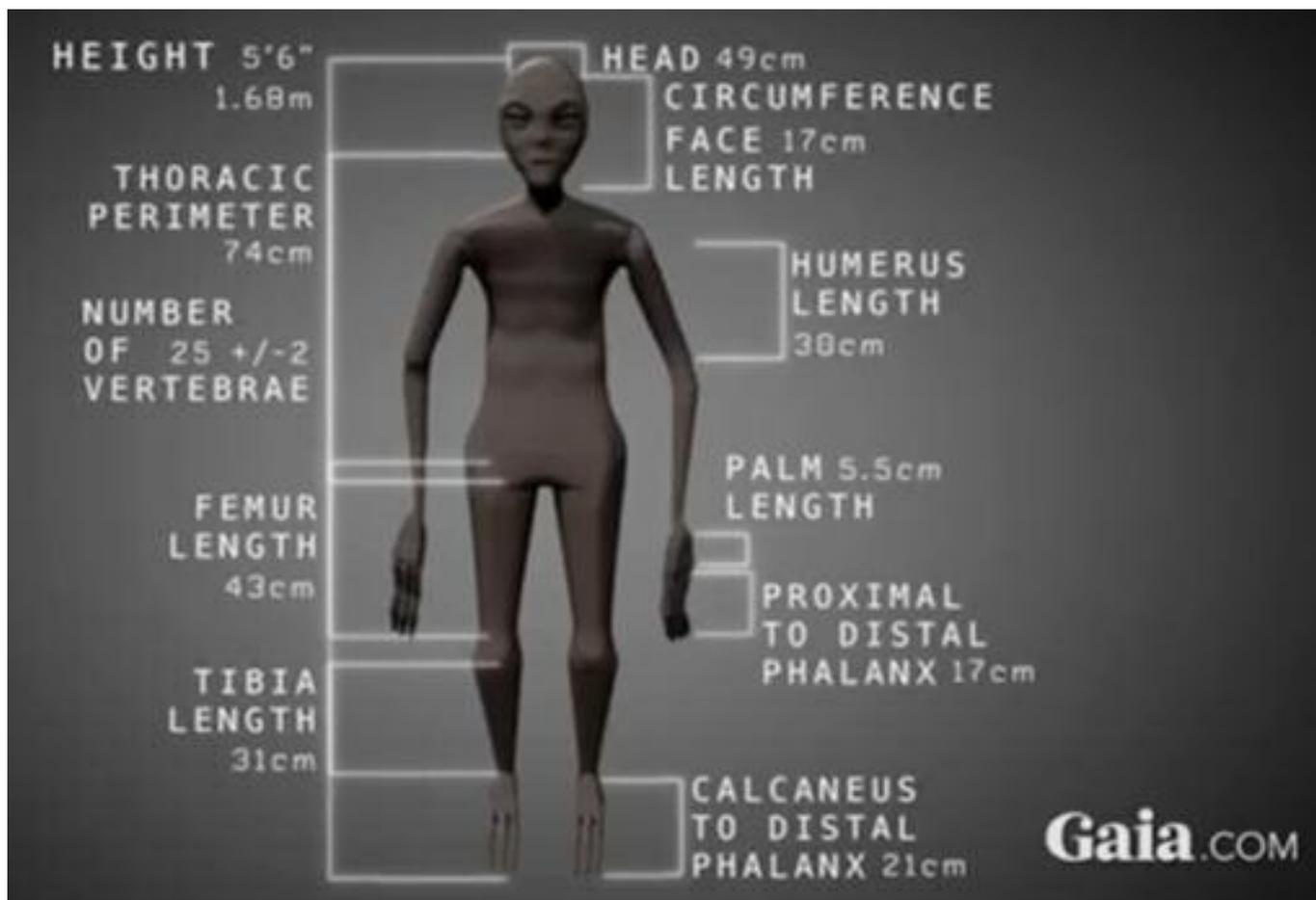
one and they are a little bit different than the one in the first Gaia promo.

**LMH:** Do they all have three long fingers?

**MT:** They do, which relates them even though they are slightly different.

**LMH:** What are the differences?

**MT:** The one that we've been showing, which is a bigger body [five foot six inches (~1.7 metres)], when compared to a human...the anatomy seems quite close



Video frame from Gaia's "Special Report: Unearthing Nazca", YouTube, 20 June 2017, <http://tinyurl.com/y8sjfsn6>

to a human, except for the three long fingers and three long toes. And the head. The face and head shape are a bit different from humans. But in comparison to the other bodies that we've found, the others are like a different type of species.

**LMH:** Are you talking about something that is taller and something else that is shorter that's in the hybrid category? Or children?

**MT:** This whole investigation is so fascinating because we don't really know what they are, and that's the point of our investigation. From what I've seen and whom I've talked to and the information that's about to come out next Thursday, June 29, 2017, they are *not* cloned. That makes it more difficult to say that this is some kind of creation that somebody just made up. The bodies all have differences like you would if you were a human. Not all human bodies are exactly the same.

They have a prototype, but they are slightly different. So that's what I find really interesting about those other bodies compared to this one in our promo.

**LMH:** So it's definite that some bodies are taller and some are smaller?

**MT:** Exactly. Some are taller and some are of a smaller build.

### Several White-Covered Mummified Bodies Found Together Underground—In A Tomb?

**LMH:** Because there are several bodies together, do you think you've got a graveyard?

**MT:** I don't know. It's very strange. I think it's a tomb. It seems to be set up more like a tomb and that certain creatures were preserved. And for what purpose, we don't know. It's like a special place where the bodies were put.

**LMH:** Like an underground enclosure for a family?

**MT:** It's an underground space with several bodies in it, but I don't know. It's been said that's true, but we haven't been able to go to the tomb yet, which is another part of the investigation. That will help us get other answers to how the bodies were placed. We have an archaeologist helping us, who specialises in burials and has been in Peru for 10 years. As a professional, he wants to know more about the tomb setting, too. So we want to go forward with that, if we can.

**LMH:** Who has the control over the tomb?

**MT:** I can't really say right now, but it's not us at Gaia. We're not Peruvian, so we can't control another piece of property in another country. Again, we are investigators there.

**LMH:** But is the control going to prevent you from getting into the tomb?

**MT:** I don't think so. I think eventually we'll be able to get there. I think right now things are a little dicey. We came out with the report, and Peru did their own report. The Peruvian government, wherever they might be in the process, want to make sure that everything is done correctly. So I think we just need to wait a little bit.

**LMH:** Is anybody watching the body you videotaped to see if there are any skin or other changes now?

**MT:** Yes, definitely, but I don't know if there have been any changes.

**LMH:** Are the other bodies still buried?

**MT:** That's to be discovered. We are like flies on the wall investigating to see what it is, and everything we're reporting about is there in Peru. And we will have further Gaia updates.

**LMH:** Are there any glyphs or straight lines anywhere near the tomb?

**MT:** Not that I know of. The Nazca lines...we don't know where they came from or where they lead to, or what they are trying to tell us. They could be connected to the mummies. But what are they preserving there that they, long ago, want us to look at, to see, to dig deeper? I don't want to draw a direct line but I'm saying that the area is just mysterious, and the fact that the mummies have been found in the same area of those glyphs and lines is something to consider.

### Testing the White Powder and Tissue Samples

**LMH:** Why would any mummy or mummies dated to about 1,800 to 1,600 years ago, according to the 245 AD to 410 AD carbon dating, be covered all over by the grey-white substance that looks like chalk and is called "white dust" in your promo?

**MT:** There are more questions than answers. I can't stress enough that our team finds it weird and we are looking into it. We want people to be patient with us. We've taken all these samples of the white dust from the bodies to see what it is. We haven't got the results back yet. But I think the most important thing is to get the white powder and body tested at a certified lab and then see what the results are. What could it be? Otherwise, until that's done, everyone is just speculating, which is where we're all at right now.

However, Professor Konstantin Korotkov, PhD, who is Professor of Computer Science and Biophysics at the St Petersburg Federal Research University of Informational Technologies, Mechanics and Optics, Russia, and his team have started the full DNA sequencing and have begun to get some results back. When they started the process, they had to put in some liquid to separate the DNA sample. And when they did that, they smelled an herbal smell. They couldn't figure out what it was, but they definitely smelled something herbal. That, to me, says that it's evidence of some kind of resin. In Egypt,

they used resin made out of trees and plants, too, not only to perfume the body but also to help preserve it.

The white powder is still a mystery, and I'm in the same boat that you are. I would like to know what it is. We are getting it tested.

**LMH:** Could the white powder be a natron substance, the soda ash and sodium bicarbonate mixture that the ancient Egyptians used in some mummification rituals? I've been doing a lot of reading and I cannot find any mention of natron used for mummies in South America. Have you researched natron?



The Spider geoglyph, approximately 150 feet or 47 metres in length, is a well-recognised feature of the Nazca desert plateau in southern Peru.

**MT:** I have, and I've come to the same conclusion that you have. I haven't found any natron in the Peruvian burial practices. We really need to figure out what that white stuff is and where it came from. So, I don't have an answer for the white powder at this moment. But it does look like, according to the one lab from Russia, that there was some kind of burial practice that used some kind of herbal ointment or liquid or wash of some sort.

The more experts that we have from different science specialties, the better. And we are 100-per-cent open to that. This is like an invite to anyone who wants to be involved. We would love to work with them because it's all about trying to figure out what the mummies are. That's the most important thing, and to do it right and get scientists the right samples.

**LMH:** If you can work with an American DNA expert, would you be able to get the body from Peru to a US laboratory? Or would DNA scientists have to go to Peru?

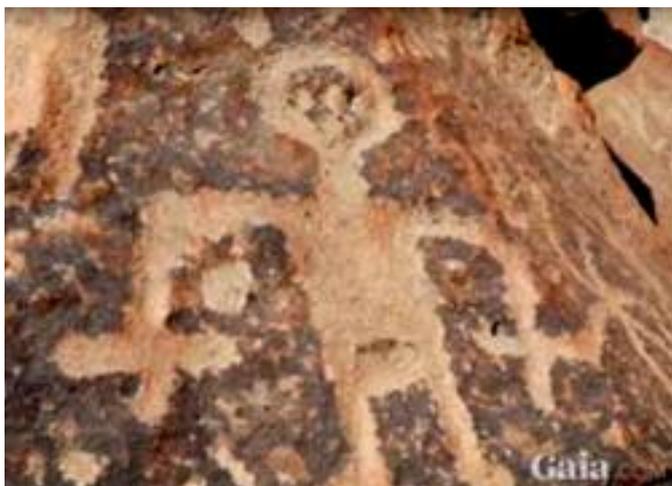
**MT:** That's something we would have to figure out. Right now, I don't have an answer for that.

### More Questions about the Mummies

**LMH:** My mind leaps to the next questions. How many other white mummies are there? Why are they near Nazca and all its centuries of land-glyph mysteries? Are they a human variation? Or are they non-humans, maybe

even extraterrestrials that were based in Peru about 2,000 years ago? Are there any references in the archaeological literature to three-fingered hands and feet, or mummies all covered in white powder?

**MT:** No, we haven't found any, but maybe this will open up more information about how this could have happened or where they came from. Maybe there are things we haven't dug up or even realised before. This has just started and we have a lot more information that's coming out in further weeks. But it's strange and doesn't fit into what we've known thus far, so we'll just see what more we can find. I've never found any three-fingered beings before, but that doesn't mean they aren't out there, even if they haven't been discovered.



This petroglyph of a being that appears to have three fingers on each hand was discovered near Nazca, Peru. (Source: Video frame from Gaia's "Special Report: Unearthing Nazca", YouTube, 20 June 2017)

**LMH:** Three fingers and three toes came up in the Puerto Rico chupacabras mystery of 1995 to 1996. I went there to investigate all the bloodless puncture wounds in goats, chickens, dogs, cattle and horses, and talked to eyewitnesses who had seen a strange entity that could stand up on two legs and then jump eight or nine feet [~2.4 to 2.7 metres] in the air over fences. The entity was described as having three fingers and three toes, but the eyewitness illustrations in my Earthfiles.com chupacabras reports don't look like the Nazca mummy.

### Diagnostic Imaging Can't Prove a Hoax

**LMH:** What is the strongest data you have so far that the mummies are real?

**MT:** I can't speak for myself, but I can speak for the experts we have talked to who have started to analyse this, such as Mary Jesse, MD, Assistant Professor of Radiology-Diagnostics at the School of Medicine at the University of Colorado. She is someone who is not into this stuff at all, but was kind of blown away by the fact that she could not figure out how it was not real, meaning

she expected to prove a hoax and has not been able to.

Dr Jesse explained that if the bones were kind of glued together, as some people speculate out there, you can take pieces of different bodies and glue them all together and you have strange bodies. But she said: "I couldn't find one piece of that [white mummy] body that looked like it was put together. There are certain marks on the bone of how that would happen."

I'm not a musculoskeletal radiologist, but according to Dr Jesse you can tell the following:

1) If the bone is fake, it has a different lightness to it in the CAT scans. It looks different than the other bones.

2) There are also markings that would mean the bones could be fake. There wasn't any of that.

3) Also, the hand is a pretty complicated mechanism and she was explaining that if someone really replicated this three-fingered hand, they would have to know so much about anatomy that they would have to be doing that for a living. She said they have every little tiny piece of that hand in there, even to the tip, which is just like a human finger [except that the long three-fingered hand has six joints per finger]. The tip is just a little bone that sits at the end of your finger. She was just blown away by the fact that she *couldn't really find* something that said to her that this could be fake. ∞

### Author/Interviewer's Note:

If anyone has more information about the three-fingered and three-toed mummies covered in white substance and discovered in a tomb near Nazca, Peru, please contact [Investigate@gaia.com](mailto:Investigate@gaia.com). To keep up with Gaia updates on research into the Nazca mummies, go to the website <http://www.gaia.com/nazca>.

### About the Author/Interviewer:

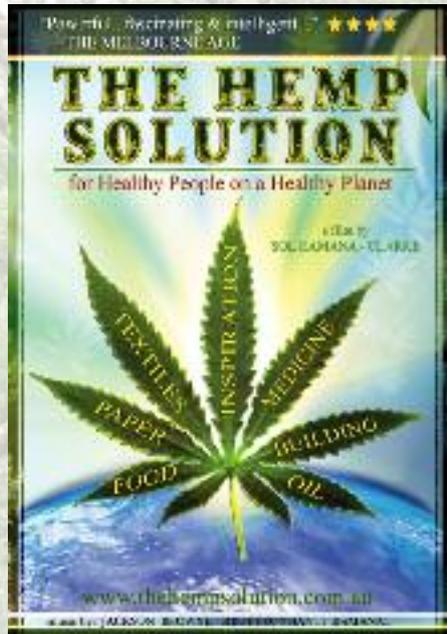
Linda Moulton Howe is an award-winning investigative journalist and documentary filmmaker based in New Mexico. She reports for, produces and edits the news website [Earthfiles.com](http://www.earthfiles.com), and is the author of four books including *An Alien Harvest* and *Glimpses of Other Realities*. She has a TV series, *Truth Hunter*, on the Gaia digital network, and presents news reports on a monthly three-hour radio program on *Coast to Coast AM*. For more details, go to <http://www.earthfiles.com/bio.php>.

The original version of this article-interview is on the Earthfiles.com website at <http://tinyurl.com/y7hy2zoq>.

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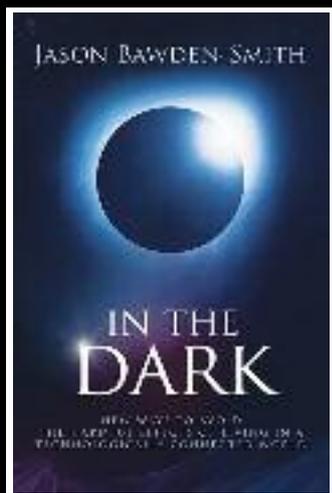
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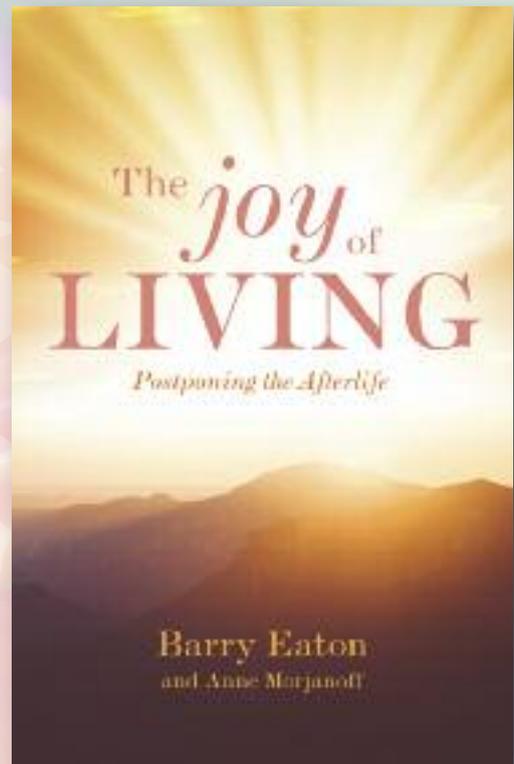
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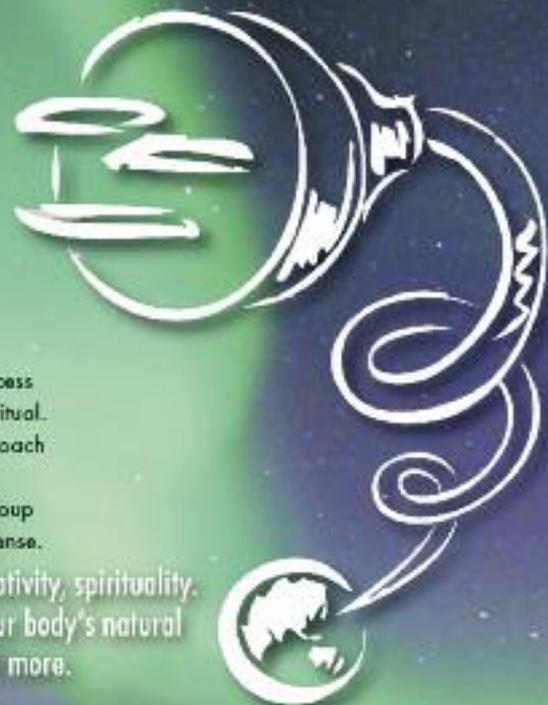
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# Strange Times...

## LEGACY OF KÁSSKARA: HOPI HISTORY, SPIRITUALITY AND SYMBOLISM

by Shawn Hamilton  
© September 2017

Hopi elder Oswald "White Bear" Fredericks (1905–1996) was the main consultant for Frank Waters' *Book of the Hopi*. As a member of the dominant Bear Clan, White Bear possessed a comprehensive knowledge of his tribe's history—a lineage that he traced back many thousands of years.

### From Third to Fourth Worlds

Hopi elder White Bear's account of Kásskara, the original Hopi motherland in the Pacific, may force a change in our perceptions of Atlantis and ancient history generally.

Archaeological convention has insisted for years that it was the thawing of the northern ice sheet that presumably allowed the first people to cross the Beringia land bridge and venture into North America. While this may be partly true, White Bear insisted that this influx of humanity happened many thousands of years *later* than the Hopi ancestors' arrival. When the ancestors reached North America, the ice sheet was near what is today's Canada–USA border. Further confounding conventional anthropologists, the Hopi maintain that their ancestors came not from the north but from the south!

To recap some details covered in previous articles in this series [see 23/02, 23/05, 24/02], Atlantis, which

the Hopi call Talawaitichqua or Land of the Morning (or Eastern) Sun, declared war on Kásskara. Clearly the aggressors, the Atlanteans employed some very sophisticated technologies, including spacecraft, which they had not invented but had taken from the "otherworldly" beings known as Kachinas.

White Bear said that in ancient times when the Third World was created, the people of Atlantis associated with Kachinas, but the Kachinas left the Atlanteans after they'd become malicious.

The Atlanteans' plans for conquest were dramatically thwarted, however, when a series of powerful earthquakes suddenly wiped out their lands as part of a major global upheaval.

Kásskara was also sinking, but more slowly, allowing some of the groups a chance to survive. White Bear explained that while the Hopi progenitors shared a common relationship through Kásskara, not all Kásskarans would become Hopi. This is an important distinction.

White Bear revealed that as Kásskara was sinking into the Pacific Ocean, the Hopi ancestors migrated to South America via a series of islands, Easter Island being the only one on their route that's still above water. The Kachinas guided and protected these immigrants, each group having a Kachina assigned to it, helping the people locate islands on their journey to the west coast, mainly to what we today know as Bolivia, Peru and Ecuador.

The Kachinas were spiritual *and* physical entities. White Bear stressed their physicality, noting that the Kachinas flew in "flying shields"

(spacecraft), which would indicate that they had physical form.

The Kachinas brought refugees to Tāotoóma, known as Tiwanaku in today's Bolivia, which at that time was closer to sea level. Tāotoóma was the first city built in the Fourth World (Toowakachi), White Bear pointed out. It was constructed by the Kachinas, whose scientific knowledge vastly exceeded that of the Earth people. The new Fourth World location had been developed over many years, and the migrations took place in three stages.

Later, the Hopi ancestors began to travel into Central America after Tāotoóma was destroyed in a massive earthquake. [See more details in part three in 24/02.]

### Mysteries School at Palatquapi

When the Hopi ancestor clans were still migrating through South America into Central America, long before the Clan of the Bear settled



Kachina doll (Photo: Daderot)

in Oraibi in today's Arizona, USA, many of the clans expressed a wish to reunite. White Bear recounted that they'd remembered the destruction of their first city, Táotoóma, and wanted to live again in harmony with the great mind, Taiowa. They had disobeyed their Creator, lost their way spiritually and scattered in all directions. The Kachinas, however, persuaded them to return to the right path.

clans and that of the previous world. "The upper floors were the most important. On the second floor, the pupils were educated in all that relates to the plan of life. They learned everything about Nature that surrounds us, through both theoretical and practical teaching: how flowers grow, where insects come from, and how the birds, reptiles, mammals and sea creatures develop. Here, pupils were urged

prayer so that they understood and acknowledged that what they took was a gift. This way, they did not upset Nature's balance. They accepted the gifts, and the life that surrounded them remained such as it was. Still today, each spiritually educated Hopi will request and thank; that is important, and our people should always do it. This second phase was in fact the true beginning of their studies, and all this knowledge accompanied them throughout their lives.

"On the third floor of the building were the young people who had passed the first two stages of education. They were between 12 and 20 years old. Before reaching the third stage, they had the possibility to know various people, mentalities and thoughts. They were ripe enough to make their own observations and experiments. At this point, they had to learn about the human body, the spirit and our divine origin. Initially they dealt with the head. The Creator gave us a marvellous instrument: the brain. There, all the thoughts coordinate with the physical aspect of the human being.

"The pupils also studied the structure of the spirit and how the Creator acts on humanity and all that exists in the universe. He who knows everything perfectly no longer experiences any language barriers. He can communicate with the plants, the animals and each creature of our world. That constituted a part of what was taught on the third floor: to harmonise this marvellous spirit with that of God, as you say, or with our Creator, as our people say."

Hopi spirituality has a different perspective on sound and speech, as White Bear commented.

"The sound waves that we produce affect not only those who listen to us but the entire universe, and for this reason speech must be harmonious. In that way, we praise the Creator. This is why the Hopi in their ceremonies use song to praise



The palace complex at Palenque, Chiapas, Mexico (Photo: Daniel Armesto)

Those of the chiefs who could still make use of their third eye (the brow chakra, associated with the pineal gland and spiritual insight) gathered the clans in order to create an educational centre to promote advanced spiritual knowledge. White Bear said that this centre had been set up in a great city established by the Hopi ancestors. Called Palatquapi, it was built at what we know as Palenque in southern Mexico. This institution taught the basics of life on Earth, such as how the divine spirit manifests into form. The students were grounded in awareness that the physical state is a glorious, yet usually imperfect, reflection of the original divine essence.

White Bear described the mystical school's unique structure.

"On the ground floor, young people learned the history of their

to open and use their third eye. They also learned about the chemical elements on which our life is based. The body is composed of elements that come from the Earth. If we do not obey the laws and we mistreat the Earth, we suffer not only psychologically but physically. The diseases that strike the human body are caused by the fault of people themselves.

"Apart from studying, the pupils also grew food for the community. The food of the spirit was complemented with food for the body. This way, young people had great esteem for all that surrounded them. They learned that, according to the order established by the Creator, they could use the plants and the animals for their food and to build their houses. They had permission to use them, but they were to request them through

Nature and the elements that surround them. All that we say is continuously recorded, but everything that a human being says during his life does not take more room than a pinhead.

"Everything that was said during the Third World is kept in a cave somewhere in South America. My grandmother spoke to me about it one day, but she also said that nobody knows the location of this cave any more."

### Relations between the Clans

White Bear added to his previous statements about the clans of the Hopi ancestors.

"The clans that started from Palatquapi built many cities. Some ruins of these cities were later found, and more will be discovered in the future. This way, there will be more evidence of our traditions.

"The capital of the Clan of the Bow was the great capital centre at Tikal [in today's Guatemala].

"There was found a sculpture of a stone head with a snake in its mouth. It portrays the Saaviki divinity. Yucatán [in southeastern Mexico] was populated by the very powerful Clan of the Snake. There, too, many cities were built. Chichén Itzá was its capital. On many rocks, a serpent with feathers is visible.

"The chiefs of these clans had left Palatquapi because they wanted to reign, and soon they felt themselves as strong as the leader of Palatquapi. So eventually there was dissension and another war.

"The Clan of the Snake and the Clan of the Bow—the parts of these clans that had left Palatquapi—fought each other. Finally, as a consequence of the wars, the cities were destroyed.

"The continual attacks against the divine laws had caused such a perversion of the social order that people no longer wanted to live there in this degraded atmosphere, as nobody could correctly fulfil their religious obligations. They could only leave again in migration.

"Some of these clans settled here in Shongopovi, then in Oraibi, and finally in Hotevilla-Bacavi [all in Navajo County, Arizona]," White Bear said. "This is why still today in Hotevilla-Bacavi we celebrate the feathered serpent."

### Hopi Ancestor Symbolism

White Bear felt compelled to convey important information about the symbolism of the Hopi and their ancestors.

"When we settled in South America, we started to document our presence. We expressed our historical and spiritual knowledge through symbols. We do it still today because we inherited these symbols from our fathers and we understand the figures and lines. We know what they mean and can express ourselves through these symbols," White Bear explained.

"We left our symbols everywhere we lived or migrated to. One can find the evidence of our knowledge in all of South America up through North America: in drawings, ceramics, buildings, and so on. People say that we did not have writing. But the symbols are precisely our writing, and these are the messages which are present everywhere on the two continents and which are not yet destroyed.

"We wrote our symbols on rock because it is not easy to destroy them over time. We decorated our ceramics with symbols, and we still



An example of a typical Hopi "keyhole" doorway, representing the nine worlds that humans must traverse to become united with the Creator.

use them today. Each time we left a provisional settlement during our migrations, our children broke all the ceramics in the village and left them as a legacy. Ceramics cannot be destroyed. One can break a ceramic item, but the pieces always remain. Other people and future generations will come and will find them, and they will know that we were there before them," White Bear added.

"Then there are the buildings and the ruins. If one pays attention to some characteristic signs, one can find them everywhere from South America to here. For example, there are circular and square towers. The round tower is the female symbol; the square tower the male symbol. The 'T-form' or 'keyhole' is very important. We have used it since the First World. This form is a symbol for the plan of the Creator.



White Bear said that the round tower is a female symbol and the square tower male. The photograph of the round tower (far left) was taken in 1941 by Ansel Adams. Note the "T-form" or "keyhole" doorway near the top of the square tower (left). Both towers are located at Cliff Palace, Mesa Verde, Colorado.

This is why the foundations of our kivas have this T-form.

"And as I speak about the kivas, I want to add some other symbolic meanings found in these constructions. The lower floor represents the First World, the upper floor the Second World, and the entire construction from the back to the front represents the Third World. The elevated platform on the flat roof represents our current world, the Fourth World. Now you can understand why the kivas are so important to us.

"Naturally, there are the large buildings of the past. The references to the multiple worlds are evident. So much symbolism and knowledge are expressed through them, in the number of floors within the pyramids and the number of doors in the roofs of the buildings: the three worlds of the past, the Fourth and current world, the Fifth World, and in total the seven worlds which humanity must cross. Even the nine worlds are mentioned, these other two worlds belonging to the Creator.

"Consider the sculptures and the positions of the buildings. We could write a book about the significance of the discoveries in the Central and South American ruins. All these things have a significance, and the history is registered everywhere. We are people having a spiritual orientation, and the historians and the archaeologists must realise that they initially will have to understand us before being able to explain the ruins," White Bear advised.

"Today we carry these symbolic figures with us—or, rather, *in us*. Not in a material form, but in a more subtle way. For example, during a ceremony when the Kachinas dance on the village square, they form their groups at



Kachina dancers of the Hopi pueblo of Shongopovi, Arizona, photographed some time between 1870 and 1900.

only three places to show the three worlds which we crossed. They cannot form a fourth group since the Fourth World is not finished.

"I must also mention the songs that we sing during the ceremonies. Such a song comprises five stanzas, which means that we will go into the Fifth World. As you see, the Hopi know exactly where they are located in the plan of the worlds: between the Third, which was destroyed, and the Fifth, the next world that we must reach. We know that we are in the Fourth World, located in the middle of seven worlds which we must cross. We do not need to say it because everything is expressed symbolically in our ceremonies.

"All the symbolism used by the Hopi points out the truth to us that we learned a long time ago. But only we Hopi know and understand this symbolism; no other tribe can approximate our understanding, even if many of them use Hopi symbols now. They only see the outside and do not really understand them. If you see our symbols somewhere in South America, in Central America or here in North America, realise that we still know what they mean today.

"And do not forget that the knowledge of the Hopi is even

wider. Know that our voices, even without sound, are recorded in the atmosphere and are indestructible! Rocks and ruins can disappear one day, but what we say and what occurs in our hearts on a higher level will never be destroyed," White Bear assured.

"I spoke to you much about our history, the history of the Hopi people. I know that it may not correspond to your current beliefs. Naturally, the scientists will want to correct us as they always do. They do not understand us and therefore cannot understand our history and opinions. But we Hopi recognise in the events of today the same things as they happened towards the end of the Third World. We see what occurs in the world: corruption and killings, and we know that we are on the way towards destruction. We can avoid this terrible end if we return to the path of the Creator, but I do not believe it will happen. The next great catastrophe is not that far away—only a few years. That must seem strange to you in your world, but we know it. We Hopi know it." ∞

#### About the Author:

Shawn Hamilton is a writer, teacher and reporter based in Sacramento, California. He covered the California State Capitol for Pacifica Radio's KPFA, received a Project Censored award in 2010 and writes poetry. As a teenager, he was introduced to Oswald "White Bear" Fredericks by his high school anthropology teacher Henry Denny and became intrigued by indigenous cultures.

Hamilton's previous articles, "The Mysterious Past of the Hopi: From Kásskara to the Americas", "Earth Cataclysms and the Hopi Kachinas, Saviours from Space" and "Kásskara, Sunken Land of the Hopi Ancestors", were published in NEXUS 24/02, 23/05 and 23/02 respectively.

Shawn Hamilton can be contacted at Pahana@protonmail.ch. To read other articles and postings, visit his website <http://theswillbucket.com/>.



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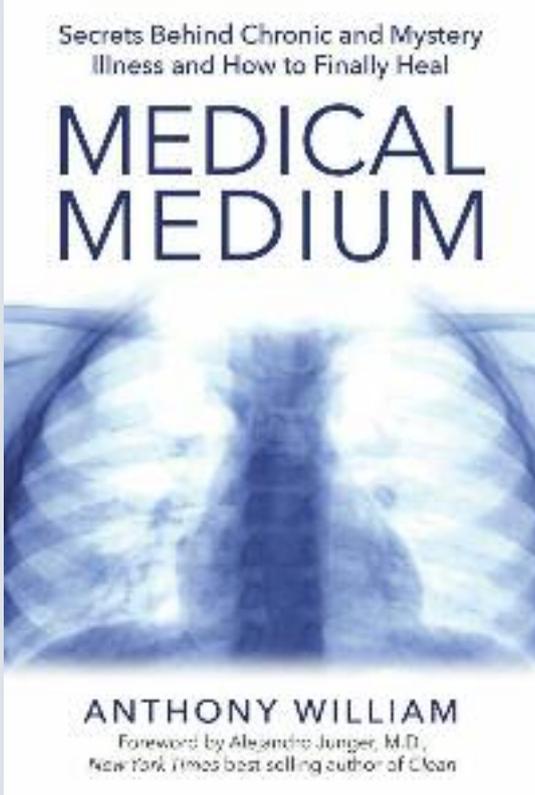
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William has advice on good gut health, detoxification, and foods to avoid or eat regularly (yes, fruit). He sets out a 28-day healing cleanse program, offers meditations for soul-healing and suggests how to ask for help from "essential angels". His diverse case histories attest to the success of his protocols.

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**WHAT'S THE MATTER WITH MEAT?**

by **Katy Keiffer**

Reaktion Books, London, UK, 2017  
ISBN 978-1-78023-760-2 (193pp)  
www.reaktionbooks.co.uk

By writing this book, Katy Keiffer, host of the US-based weekly radio podcast *What Doesn't Kill You*, didn't intend to stop us from eating meat. Instead, her wish was that we become more aware of the hidden costs of industrial-scale meat production, dominated now by just a handful of multinational corporations. Her well-documented study covers developments in the USA, Asia and Southeast Asia, Europe, the UK and Australia.

For far too long, consumers in the developed world have taken for granted the ready availability of meat, expecting to pay as little as possible for it. But Keiffer warns that as developing countries raise their levels of meat consumption, soon there won't be enough arable land for growing the feed crops to sustain livestock production.

Keiffer tackles a range of topics including the business of genetics, animal diseases, environmental

degradation and labour conditions. While animal welfare has improved and the use of antibiotic growth-promoters has been decreasing, Keiffer reminds us that we have the power to demand further changes.

**MEDICAL MEDIUM  
LIFE-CHANGING FOODS**

by **Anthony William**

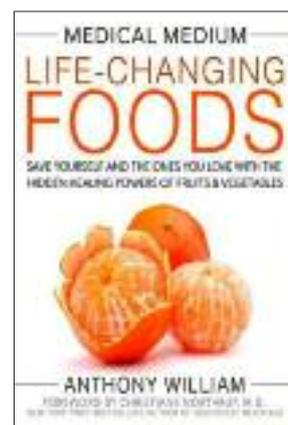
Hay House, CA, USA, 2016  
ISBN 978-1-4019-4832-0 (332pp hc)  
www.hayhouse.com

His first book, *Medical Medium*, is still making a positive difference for people seeking answers to their mystery illnesses (see excerpt and review in 24/02). Anthony William has followed up with *Life-Changing Foods*, in which he highlights the physical, emotional and spiritual attributes of 50 fruits, vegetables, herbs and spices, and wild foods—the Holy Four, as he calls them. Again his information comes from the Spirit of the Most High who speaks to him, and it's different from standard nutritional advice. The Holy Four counteract the Unforgiving Four—radiation, toxic heavy metals, viruses and DDT/pesticides—whose influence can be

passed on through the generations.

William writes about overcoming adrenaline addiction, stress and cravings, the importance of having adequate sunlight, the miraculous properties of mineral salts and living water, the benefits of growing your own fruit and vegetables, and more. He presents tips on how best to use these health-giving foods, as well as recipes for making delicious treats.

Finally, William discusses fertility issues, harmful trends, foods to avoid, and how to contact angels that support our sustenance. His index serves as a guide for looking up specific ailments. He adds to his life-enhancing advice with a note about rediscovering compassion.



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## GARDASIL:

### Fast-Tracked and Flawed by Helen Lobato

Spinifex Press, Australia, 2017  
ISBN 978-1-74219-993-1 (136pp)  
[www.spinifexpress.com.au](http://www.spinifexpress.com.au)

Helen Lobato, an Australian health researcher with a critical-care nursing background, makes a strong case for the lack of a direct link between human papilloma virus (HPV) and cervical cancer. She says there is no evidence that the Gardasil® and Cervarix® vaccines have prevented even one case of cervical cancer, which had been declining anyway for decades in developed nations. These vaccines are given to girls, and now boys, to fight a disease that has not been proved to be sexually transmitted.

What is on the rise since the introduction of these HPV vaccines in 2006 is the huge number of adverse reactions including pain, fatigue, anaphylaxis, paralysis, seizures, autoimmune illnesses, premature ovarian failure and even death, and the case studies Lobato presents are very disturbing. Her update at [www.helenlobato.com](http://www.helenlobato.com) notes over 73,000 adverse events and 324 deaths worldwide so far.

Lobato details the flawed science, egotism, Big Pharma profiteering, political manoeuvrings and media

failures behind this dangerous HPV vaccine that was never properly tested. She calls on concerned citizens to publicise the truth, and for moratoriums, independent inquiries and compensation to be put in place. A powerful rallying cry.

## MASTER MANIPULATOR

### by James Ottar Grundvig

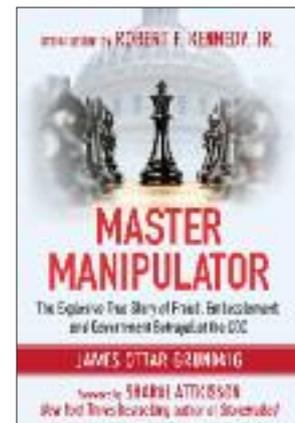
Skyhorse, New York, USA, 2016  
ISBN 978-1-5107-0843-3 (280pp hc)  
[www.skyhorsepublishing.com](http://www.skyhorsepublishing.com)

Aware of the alarming rise in the AUS autism rate in the 1990s, the Centers for Disease Control and Prevention (CDC) wanted to show there was no link between autism and vaccines containing mercury (thimerosal) as an adjuvant, and at the same time stay in the vaccine-makers' good books. One way was to support studies that would allay safety doubts. As revealed by New York-based investigative journalist James Ottar Grundvig, who has an autistic teenage son, the CDC needed a fall guy: visiting medical researcher Poul Thorsen, MD, PhD, whose main expertise was in rifling the Danish Health Registries data.

With multimillion-dollar funding in 2000–2009, Thorsen did the CDC's bidding by "disproving" any link between autism and immunisation with thimerosal-laden vaccines. But

the agency hadn't foreseen that by 2004 Thorsen would start to fake invoices and divert US\$1 million of CDC grant monies to his accounts at the CDC's own credit union, using them for his personal financial benefit. The CDC as well as Thorsen's associated academic and government institutions were none the wiser to his scamming, not having monitored his accounts.

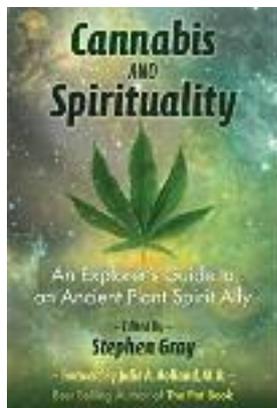
In *Master Manipulator*, Grundvig covers not just Thorsen's role in this massive fraud but a large cast of characters, including conspirators and whistleblowers, in what amounts to a classic morality play. Thorsen, for his part, is facing 22 counts of wire fraud and money laundering, levelled by the US Department of Justice in April 2011, as well as extradition from Denmark. An eye-opening exposé.



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**CANNABIS AND SPIRITUALITY**  
 edited by Stephen Gray  
 Park Street Press, VT, USA, 2017  
 ISBN 978-1-62055-583-5 (277pp)  
 www.ParkStPress.com



In these slightly more enlightened times, cannabis has become recognised and its use legally permitted in some countries for its medicinal properties. Humans have co-evolved with the plant for many millennia at least. So now is an ideal time to review cannabis for its potential to awaken the psychic and spiritual aspects of our being, says Vancouver-based author Stephen Gray, who has written extensively about sacramental and entheogenic medicines and participated in time-honoured devotional disciplines.

For this compilation, editor Gray selected 17 contributors, each with a different perspective. Psychiatrist and psychopharmacologist Julie Holland, MD, prepared the foreword. Gray introduces us to "a renaissance of the people's plant", and supplies chapters covering cannabis as a spiritual ally, group ceremonies, interviews with cannabis shamans, and words of advice about obstacles on the path.

Among the collaborators are ethnobotanist Kathleen Harrison on the personification of cannabis, scholar Chris Bennett on religious traditions, therapeutic activist Joan Bello on the body-mind link, ganja yoga pioneer Dee Dussault on spiritual acceleration, and a cannabis grower on his sacred relationship with the plant. Former Rasta Church member Jeff Brown

writes of ganja's ritual and religious use in Jamaica, former *High Times* editor-in-chief Steven Hager lists the "commandments" of the "pot illuminati", and others offer musings on cannabis wisdom, creativity and the universal spirit of love.

Gray closes with his take on the transformation of consciousness, and says it's no accident that we've been given cannabinoid receptors.

### INTO THE GREY ZONE

by Adrian Owen

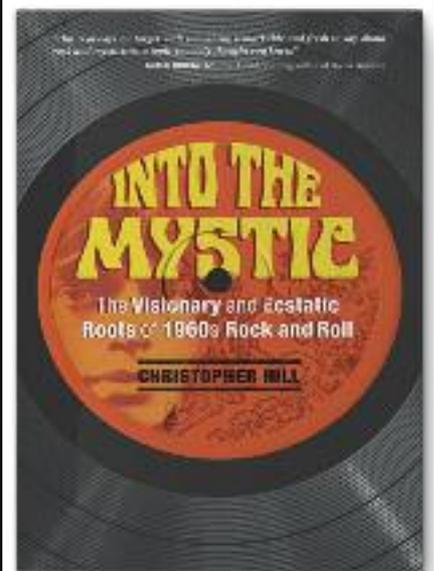
Guardian Faber, London, UK, 2017  
 ISBN 978-1-78335-098-8 (320pp hc)  
 www.faber.co.uk  
 www.Owenlab.org

In over two decades of cognitive neuroscience research, Dr Adrian Owen has been studying "grey zone" patients with brain injuries who are in a supposed "vegetative state" between life and death. First working in his native England and now based in Canada at The Brain and Mind Institute at Western University, since 1997 he has been using neuroimaging technology and devising testing protocols to explore consciousness conditions.

Owen relates heartfelt stories of his landmark patients and of how he and his colleagues came to realise that some of those considered to be "vegetative" are completely conscious, experiencing thoughts, emotions and feelings but without being able to express them—until enabled by his ingenious tests. Indeed, he's found that 15 to 20 per cent of such brain-damaged patients are fully conscious and self-aware. Amazingly, a couple of his "grey zone" subjects recovered and could recount to him what they had experienced during their tests.

In his thought-provoking book, Owen touches on social and ethical dilemmas as well as the nature of consciousness. His findings will improve scientific understanding of many challenging conditions such as Alzheimer's and Parkinson's diseases, let alone open up communication channels with people existing in the "grey zone".

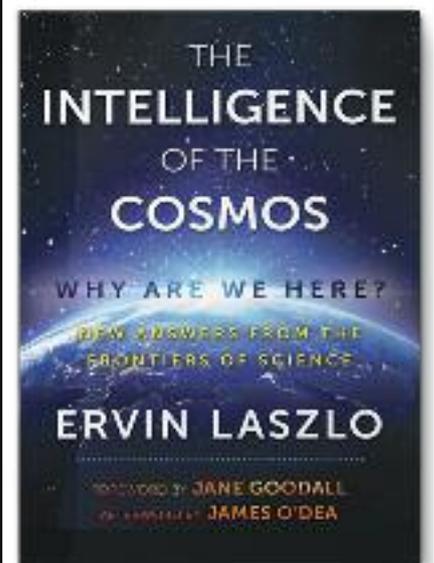
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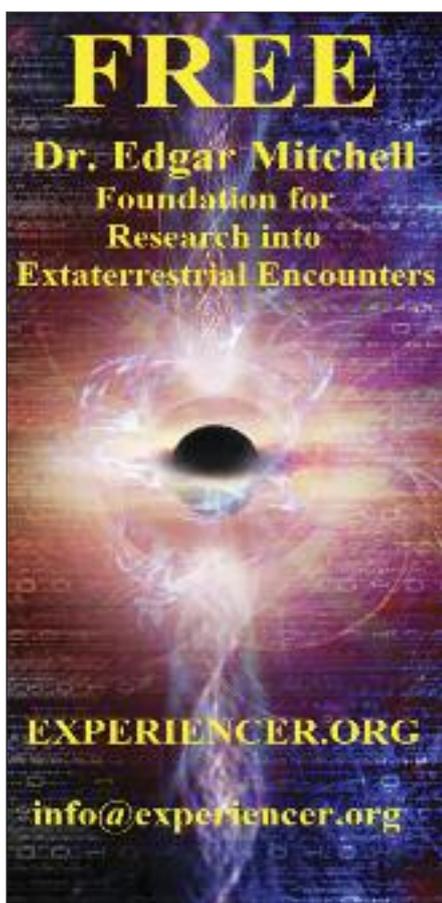
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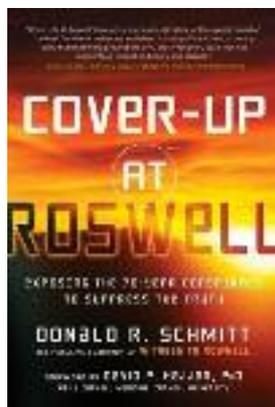
## COVER-UP AT ROSWELL

by Donald R. Schmitt

New Page Books, NJ, USA, 2017

ISBN 978-1-63265-105-1 (218pp)

[www.NewPageBooks.com](http://www.NewPageBooks.com)



Seventy years on from the July 1947 Roswell incident, there's still more to be revealed—and more that probably will never come out, either because witnesses have stuck to their secrecy oaths or because the US military won't come clean on what it knows or is hiding. So the cover-up of this alleged UFO crash in New Mexico continues, but it hasn't stopped keen investigators like Don Schmitt from trying to uncover more facts surrounding the crash and the retrieval of debris and up to seven alien bodies. Schmitt is co-author with Thomas J. Carey of *The Children of Roswell* and *Witness to Roswell* (see 23/03, 16/05), but Carey wasn't available to co-write *Cover-up at Roswell*.

Here, Schmitt unearths further disturbing details about the lengths that the military's top brass went to in silencing civilian witnesses and the media and keeping personnel in the dark about what happened at the crash and debris sites and what was being transported in trucks and aircraft—extraordinary considering the weather balloon cover story.

Schmitt reports on the role of two intelligence officers in the original on-site reconnaissance, topological and archaeological surveys, and the mysterious disappearance of a metal sample while it was being tested. He tenders "smoking gun" evidence of high-resolution scans of

the telegram that General Ramey held in his left hand when he was photographed on 8 July 1947 with the "balloon wreckage".

The appendices have a timeline of events, answers to the 20 most-asked questions, and reprints of key documents. Schmitt remains convinced that the Roswell incident is "still the granddaddy of them all".

## WE ARE THE DISCLOSURE

by Miguel Mendonça

CreateSpace, UK, 2016

ISBN 978-1-1534997233 (257pp)

ISBN 978-1-539047063 (283pp)

[www.wearethedislosure.com](http://www.wearethedislosure.com)

The UFO phenomenon subset—contact with extraterrestrial and non-human intelligence—is often unacknowledged within ufology circles. In his book published in two parts, Anglo-Azorean social scientist and writer Miguel Mendonça shares views from 27 diverse contributors. (Mendonça is co-author with Barbara Lamb of *Meet the Hybrids*; see 23/05.) A common pattern is that researchers, eyewitnesses, contactees, abductees and even people who classify themselves as alien-human hybrids are advancing ufology beyond its confines. Some of them consider that they are the disclosure, expanding knowledge and bringing in a new era of cosmic evolution and understanding.

Interviewees in Part 1 include Lyn Buchanan, Michael Cremona, Klaus Dona, Robert Fullington (see his story in *Meet the Hybrids*), Rey Hernandez (see 24/03), C. B. Scott Jones, Juju Kuita (also in *Hybrids*) as well as Barbara Lamb. Part 2 features Jim Marrs (who, sadly, died in August), Mary Rodwell, Lee Spiegel, Leo Sprinkle, Clifford Stone, Alfred L. Webre and others.

As Mendonça concludes, this "bottom-up Disclosure" at the grassroots level is more available and authentic than "top-down Disclosure", taking us into a deeper perception of reality and self and into metaphysical and spiritual dimensions. These are influential outlooks in the new paradigm.

## CRISIS OF CONTROL

by Peter J. Scott

Nitrosyncretic Press, CT, USA, 2017

ISBN 978-0-96798743-9 (251pp)

[www.Nitrosyncretic.com](http://www.Nitrosyncretic.com)

[www.HumanCusp.com](http://www.HumanCusp.com)



If Bill Gates, Stephen Hawking and Elon Musk are all worried about the rise of artificial intelligence and its impact, so should we be. Peter Scott, an IT professional, former NASA contractor and business coach, is concerned, and thinks we need to prepare urgently for when machine intelligence develops a consciousness of its own.

Artificial narrow intelligence (ANI) is now with us, and it won't be long before professional drivers are made redundant, yet we don't have any strategies to cope with this eventuality, warns Scott. Within 10 to 20 years, 47 per cent of work functions, even in computer code writing and programming, will be automated. Next is artificial general intelligence (AGI), able to perform intellectual tasks with the prospect of self-awareness. Hard on its heels is artificial superintelligence (ASI), which could pose a risk to our connected infrastructure if not to the survival of humanity itself.

Scott gives historical perspective that's relevant as the Information Revolution evolves. He aims to stir up debate about what kind of future we want to live in—or have thrust upon us—while examining critical issues to do with ethics, power politics, democracy and human rights. He revisits Isaac Asimov's three laws of robotics that are being

challenged by ongoing advances in software, and ponders whether the marketplace will favour conscious AI, forcing us to live in peaceful coexistence. We must confront these scenarios before it's too late, says Scott in his visionary book.

## COSMOSAPIENS

by John Hands

Duckworth Overlook, UK, 2016

ISBN 978-0-7156-5121-6 (674pp)

[www.ducknet.co.uk](http://www.ducknet.co.uk)

In attempting to answer the age-old questions of what we are, where we came from and why we exist, former physics academic John Hands embarked on a decade-long mission to research and write *Cosmosapiens*, also consulting experts who gave suggestions and criticisms. He scrutinises scientific knowledge about the emergence and evolution of matter, life and the human race, concluding that much of what is assumed to be true cannot be proved. This applies as much to theories like the Big Bang and dark matter as to how life emerged from the "primordial soup" and why humans came to be.

The key determinants are cooperation, complexification and convergence. When we changed from being hunter-gatherers to adopting agriculture and building settlements, it made sense to cooperate, not compete. Hands concedes that this dualistic interplay is still a dominant theme, but suggests that our progress depends on cooperation and altruism. What makes us unique is our self-reflective consciousness which helps us make evolutionary leaps, as we've done in our ways of thinking from the superstitious to the philosophical to the scientific.

Hands summarises the limitations of science in terms of observation, measurement, subjectivity and untestable theories, and reflects on our evolution as an inevitable cosmic process, ultimately leading to our "*Cosmo sapiens*" status. His massive, heavily referenced book inspires us to augment our being.

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## FILM

REVIEWED BY RICHARD GILES

### **INJECTING ALUMINUM: How Toxic Are Vaccines?**

**directed by Marie-Ange Poyet**  
Cinema Libre Studio, Los Angeles,  
CA, USA 2017 (90mins)  
[www.injectingaluminum.com](http://www.injectingaluminum.com)

Aluminium (aluminum) is widely recognised as a neurotoxic agent, but what are the side effects when it's an adjuvant (designed to enhance immune response) in vaccines and is injected into us?

In this documentary, French journalist Marie-Ange Poyet covers the history of aluminium in vaccines and its potentially devastating effects. It turns out that aluminium as an adjuvant was never properly tested before it was used in vaccines. Yet in the USA, children receive up to 4,925 micrograms of aluminium from vaccinations in their first 18 months of life. The film also examines a mysterious muscular disease, macrophagic myofasciitis, that surfaced in France in the early 1990s. Doctors in Paris discovered that its severe symptoms are caused when aluminium hydroxide adjuvant remains embedded in muscle tissue and creates an immune reaction.

The film includes interviews with

scientists, doctors, politicians and patients, and brings the human experience of the debilitating effects of aluminium adjuvants to public attention. More must-see revelations about vaccine contents.



### **UNACKNOWLEDGED: An Exposé of the World's Greatest Secret**

**directed by Michael Mazzola**  
Auroris Media, Norfolk, VA, USA,  
2017 (100 mins)  
[www.siriusdisclosure.com](http://www.siriusdisclosure.com)

The film *Unacknowledged* focuses on the historic files of Dr Steven Greer's Disclosure Project and how UFO secrecy has been ruthlessly enforced. We also learn why this cover-up was enacted. The best

evidence for extraterrestrial contact dating back many decades is presented, with military, corporate and intelligence whistleblower testimony, classified documents and UFO footage. The behind-the-scenes research and the high-level meetings convened by Dr Greer expose the covert operations at the centre of the UFO cover-up. From briefings with the CIA Director as well as Pentagon generals and admirals to leaks from President Obama's adviser, John Podesta, the film lifts the veil of concealment, taking us into the corridors of real power where UFO truths reside.

The documentary explains that a silent *coup d'état* occurred in the 1950s, and that US Congress, the President and world leaders have been sidelined by criminals within the military-industrial-financial complex. It also gives details of unacknowledged special access programs (USAPs) involved with UFO-ET technology, zero-point energy and antigravity propulsion. *Unacknowledged* highlights the most convincing evidence on UFO secrecy and the consequences of imposing it. A riveting, timely film.

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## MUSIC

REVIEWED BY RICHARD GILES

### TRO

by **Gwyneth Glyn**

ARC Music, UK, 2017 (49mins)

[www.arcmusic.co.uk](http://www.arcmusic.co.uk)

[www.savd.com.au](http://www.savd.com.au)

Welsh singer Gwyneth Glyn has released her third album, *Tro*, meaning "turn". It reflects her roots in Cardiff and her native Eifionydd in North Wales, tracing the journey of her heart and soul. Guests include Senegal's famed kora player Seckou Keita, and BBC Radio 2 Folk Award winner Rowan Rheingans on banjo, bansitar and vocals. It's a strongly emotional album, with the honest telling of intimate truths and songs of beauty and poetry steeped in Welsh culture. Elegant and poignant.



### 1000 CAN DIE

by **King Ayisoba**

GlitterBeat Records, Germany, 2017 (44mins)

[www.glitterbeat.com](http://www.glitterbeat.com)

[www.theplanetcompany.com](http://www.theplanetcompany.com)

His name is Albert Apoozore, but he's better known in Ghana as King Ayisoba. Born in the Upper West Region of Ghana, he studied the kologo, a traditional two-stringed lute, before moving to the capital, Accra, to progress his talents. His instrument provides backing for his strident new album which fuses Ghanaian percussion with electronica and influences from hiplife music. The producer is Zea (Arnold de Boer) from The Ex, a legendary Dutch post-punk band. There is a range of styles, from full-

tilt chant to acoustic numbers like "Grandfather Song". The album conveys the intensity of King Ayisoba's insistent vocals with their infectious choruses and verses.

### SEEN ONE EARTH

by **Pete Bardens**

MVD Audio, USA, 2014 (34mins)

[www.MVDAudio.com](http://www.MVDAudio.com)

[www.theplanetcompany.com](http://www.theplanetcompany.com)

Pete Bardens, who died in 2002, made unique music. This album, originally released in 1987, has been reissued by Talking Elephant. It's mellow and pleasantly different with its piano and keyboards hybrid jazz mix. Concerned with themes of space and celestial worlds, it's an earlier, creative, new-age style of music using synthesisers to conjure ethereal feelings. Two tracks in particular, "Seen One Earth" and "The Stargate", evoke these galactic impressions. An historical and interesting retrospective.

### BEAUTIFUL WORLD

by **Elemotho**

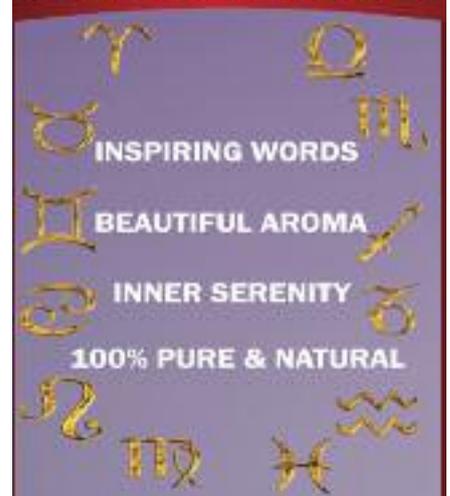
ARC Music, UK, 2017 (53mins)

[www.arcmusic.co.uk](http://www.arcmusic.co.uk)

[www.savd.com.au](http://www.savd.com.au)

Elemotho Gaalelelekwé Richardo Mosimane is an award-winning Namibian musician and singer-songwriter. He recorded the title track of *Beautiful World* with Samuel Batola in the wilderness outside Windhoek, Namibia. His album features Batola (guitar, vocals) and other Namibian artists Fernando Pio Paulus (drums), Tilie Nanghama (vocals) and poetess Naita Hishoono. International musicians include Diego Galaz (violin), Jorge Arribas (accordion), Matthieu Saglio (cello), Yaron Bichacho (percussion) and Terry Lewis II (saxophone). Elemotho sings in English, Setswana and other Namibian languages, with great harmony vocal work. Gorgeously inspiring and relaxing.

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**[PAID LETTER TO NEXUS]: The Constitution 1901 of Australia orders:**

A s.128 Referendum in 1988 ordered that local government in Australia has “no establishment or continuance”, so have no Constitutional authority to grant Australian citizenship to foreigners. The Constitutional courts authorised are peopled by s.80 and a JP. In 1900 and 1999 a s.128 Referendum ordered Australia is a Constitutional Monarchy, so citizenship requires allegiance to the Constitutional Schedule [s.34(ii)] as a statement of allegiance to “the blessings of Almighty God” (Clause 1 Preamble) and his appointed monarch (2 Samuel 7:8, 16), Queen Elizabeth and her flag of King David. This statement of allegiance is repeated in the Holy Bible in all criminal courts, and by all those employed in the Parliament (ss.7,24), and Public Service (ss.42,52,61). Majority rules in Australia since 1999 and a minority of vocal liars cannot overrule s.128 with claims of ‘democracy’, ‘multiculturalism’, ‘republics’ etc. All banks in Australia are now owned by foreign oligarchs from the City of London. There is a promise (Deut. 15:6) these would always rule the world by government and money (Rev 2:9) the root of all evil (1 Timothy 6:10).

The Powers of the Parliament (s.51) are Exclusive (s.52) and these assets cannot be sold by those declared in 1984 in “Metwally” HC (1984) to be artificial entities representing only the people (s.128). Sale of any of the Powers of the Parliament must be authorised by s.128 or it is treason [s.44(ii) and 1900 Crimes Act] The Constitution 1901 now has no banking by the unconstitutional sale of the Commonwealth Bank. s.115 appoints the Parliament to coin and distribute for Legal Tender gold and silver coins for the payments of debts; property cannot be claimed for debt. Gold and silver coins are minted by the government [s.51(xii)(xiii)] and sold as souvenirs in Australia Post offices. This prevents bankruptcy of Australia by residents supporting families overseas. Land tax cannot be levied by anyone (s.114) Colonial assets became the assets of the Commonwealth in 1901 (s.84) Other currency is not s.128 authorised. England was bankrupted in medieval times by foreign oligarchs, via land tax and usury, which allowed them to claim the City of London as their capital since those times. The Mayors of all local councils in Australia wear the same ceremonial dress as the Lord Mayor of the City of London. [The Queen cannot enter the City of London without the invitation of the Lord Mayor of the City of London. The Westminster system of government does not have s.128 approval to operate in Australia.

## Far-Infrared Healing Continued from page 16

5. **Infrared heat increases blood flow.** Heating one area of the body produces reflex-modulated vasodilators in distant body areas, even in the absence of a change in the core body temperature. Heat one extremity and the contralateral extremity also dilates; heat a forearm and both lower extremities dilate; heat the front of the trunk and the hand dilates. Heating muscles with infrared heat produces an increased blood flow level similar to that seen during exercise. Temperature elevation produces an increased blood flow and dilation directly in capillaries, arterioles and veinules, probably through direct action on their smooth muscles. The release of bradykinin as a consequence of sweat-gland activity produces increased blood flow and vasodilation. Whole-body hyperthermia, with a consequent core temperature elevation, further induces vasodilation through a hypothalamic-induced decrease in sympathetic tone on the arterio-venous anastomoses. Vasodilation is also produced by axonal reflexes that change vasomotor balance.

6. **Infrared heat assists in resolution of inflammatory infiltrates, oedema and exudates.** Increased peripheral circulation provides the transportation needed to help evacuate oedema, which can assist with inflammation, decrease pain and help speed healing.

7. **Infrared heat introduced in cancer therapy.** More

recently, infrared heat has been used in cancer therapy. This is a new experimental procedure that shows great promise in some cases when used properly. American researchers favour careful monitoring of the tumour temperature, whereas the successes reported in Japan make no mention of such a precaution.

8. **Infrared heat assists soft-tissue injuries.** Infrared healing has become a leading-edge treatment for soft-tissue injuries, promoting relief in chronic or intractable "permanent" cases as well as accelerating healing in newer injuries. ∞

### Editor's Note:

This article is compiled and edited from several online sources, in particular <https://www.bio-mats.com/dr-says> and <http://www.chimachine4u.com/fir.html>.

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## The Dark Side of Antibiotics Continued from page 25

### • Antibiotics in Vaccines

One hidden source of antibiotics, which most people are unaware of, is vaccines. Aminoglycosides such as gentamicin, streptomycin and neomycin are ingredients in many vaccines such as chickenpox, hepatitis, influenza, measles-mumps-rubella, meningitis and pertussis.<sup>86</sup>

Because the vast majority of vaccines are administered to children, their antibiotic content can cause a range of serious health issues. As mentioned earlier, streptomycin can induce coma in infants and gentamicin can cause encephalopathy. There are no safe dosages. Any form of encephalopathy is dangerous, but is even more so in children. According to a study in *Archives of Disease in Childhood* in 2012: "Childhood encephalopathy is an uncommon but significant paediatric presentation and is associated with significant mortality and long-term morbidity in survivors."<sup>87</sup>

Another antibiotic used in vaccines is polymyxin B. Polymyxins work by making the bacterial cell walls more permeable. Its numerous associated side effects include anaphylaxis, neurotoxicity and kidney damage.<sup>88</sup>

### Use Antibiotics Only as a Last Resort

Antibiotics cause a host of health problems. As well as giving rise to resistant superbugs, their use can lead to heart failure, liver and kidney damage, toxic epidermal

necrolysis, serious infections, mental health conditions, cancer, anaphylaxis and death. Every effort should be made to prevent them from entering the food chain and the water supply and to remove them from all vaccines.

Rather than being viewed as a panacea for all forms of infection, to be handed out as a first line of defence, antibiotics should be considered as extremely dangerous drugs that should be used only as a very last resort. ∞

### About the Author:

Stephen McMurray is a full-time civil servant in Northern Ireland with diplomas in phytotherapy and naturopathy. He is co-founder and a trustee of the 7th Heaven Animal Rescue Trust and co-founder of the Association for the Protection of Family Health, which helped prevent the fluoridation of Northern Ireland's water supply. He encourages people to take responsibility for their health and do their own research instead of blindly accepting the misinformation put out by the media, mainstream medicine and pharmaceutical companies. He can be contacted by email at [s.mcmurray1@btinternet.com](mailto:s.mcmurray1@btinternet.com).

### Editor's Note:

See page 96 for full endnotes not included in hardcopy NEXUS Magazine due to space constraints.

## North American Mound Culture Continued from page 43

It could be said that the Smithsonian Institution has perpetuated a conspiracy to deceive us and confiscate an important piece of the history of the world and the American people—especially as the USA portrays itself as a world leader in politics and scientific advancement. The same pressures of big government, corporate greed and private land interests that exhausted John Wesley Powell are forcefully at play in our modern world, which is filled with hidden agendas, corruption and greed. Unfortunately, the truth about Giants and the North American Mound Culture contains too many ramifications that would expose hypocrisy and deception throughout US education and government. This matter will continue to remain unresolved as it is slowly distilled from the memory of the American people. ∞

### About the Author:

Thomas Karl Dietrich, who was educated in philosophy and classical studies, divides his time between Northern California and Ireland and explores ancient sites. He is the author of *The Origin of Culture* (2005), *The Culture of Astronomy* (2011) and *Temple of Heaven & Earth: Guide to Earth Energy and Inspiration at Sacred Sites* (2016). He is the secretary of the Save Our Sacred Sites

Society. He can be contacted at [atlas@cosmomyth.com](mailto:atlas@cosmomyth.com). For more articles, visit <http://www.cosmomyth.com>.

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## Crop Circles of 2017 Continued from page 55

The reality is that if many of the crop patterns we've seen in 2017 had appeared back in, say, 1990, the season when the first pictograms exploded into the headlines, they would have been greeted with utter astonishment and a furore, surmounting anything we actually did have in that year, impressive though those pictograms seemed at the time. It is all relative and we should cherish what we have right now, while we have it.

### The Value of Free Thinking

In a world in which free speech and free thinking are under increasing threat, there is something subversively liberating about this determined, slightly mischievous, phenomenon. The crop circles seem to lie outside the normal controls of authority, hence the desperate press releases berating people for being interested in them. Moreover, they inspire (or should inspire) critical thinking and a spirit of enquiry in a way that currently appears to be discouraged by the powers that be, seemingly keener for us to be kept docile and ignorant of anything outside the narrow channels they define. Anything which bucks this trend should be held dear.

The main achievement of the circles, regardless of their origin, has always been the expansion of consciousness through the journey of open-minded questioning that they inspire. We may need their lessons more than ever in the coming years of increased manipulation, before

inevitable cycles turn against suppression to bring more enlightened times where debates are once again opened up rather than closed down. When society revalues and restores free thinking and unrestrained discussion, within wise and reasonable boundaries agreed by all, the world will be a happier place. ∞

### About the Author:

Andy Thomas is a leading mysteries researchers and the author of the acclaimed book *The Truth Agenda: Making Sense of Unexplained Mysteries...* (Vital Signs Publishing, 2009–2013; Adventures Unlimited Press, 2015; see NEXUS 19/04, 16/06) and *Conspiracies* (Watkins Publishing, 2013; see 20/05). He is also the author of five books on the crop circle phenomenon, including *Vital Signs* and *An Introduction to Crop Circles*, considered by many to be definitive guides. He lectures widely around Britain and the world, and has given numerous TV and radio interviews. For more details, visit his websites <http://www.truthagenda.org> and <http://www.vitalsignspublishing.co.uk>. Andy Thomas can be contacted at [info@vitalsignspublishing.co.uk](mailto:info@vitalsignspublishing.co.uk).

### Editor's Note:

All the photographs used in this article are sourced from Crop Circle Connector © 2017. These and other images can be seen at <http://www.cropcircleconnector.com>.

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Amanda Moss, via Facebook

## What Are Scalar Waves? Continued from page 48

industry on digital technology for decades.

Dr Eckardt is primarily interested in new insights in physics and practical applications such as new energy sources. He is a well-known author/co-author of many of the Einstein–Cartan–Evans (ECE and ECE2) papers that can be accessed from the websites of the Alpha Institute for Advanced Studies at <http://www.aias.us> and the Unified Physics Institute of Technology at <http://www.upitec.org>. He is a leading scholar in the field of ECE unified physics, a subject popular in expert groups for about 15 years.

Dr Eckardt can be contacted by email at [mail@horst-eckardt.de](mailto:mail@horst-eckardt.de).

### Editor's Note:

This article is edited from Dr Horst Eckardt's original paper published on 2 January 2012, available from the AIAS website at the web page <http://tinyurl.com/d4g28g6> and also

from AtomicPrecision.com at the link <http://tinyurl.com/ydhwf6tv>.

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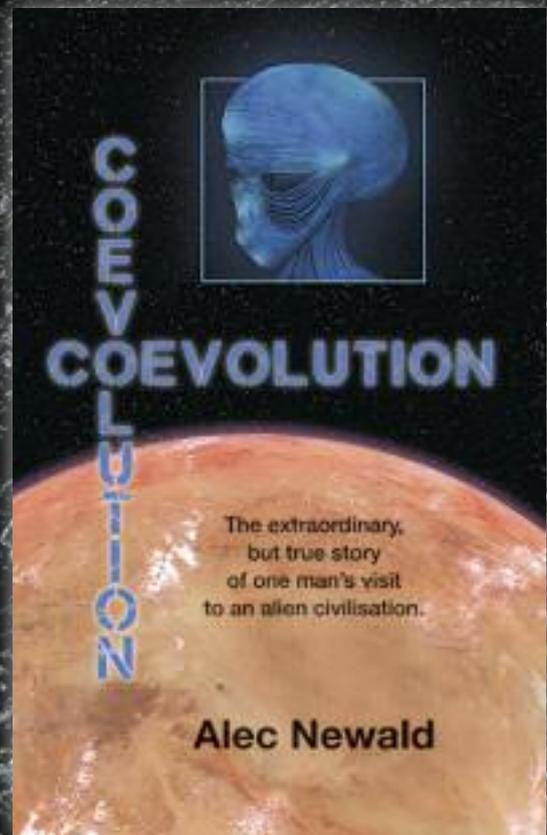
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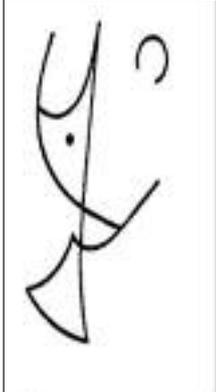
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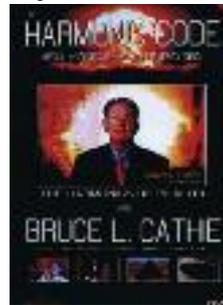
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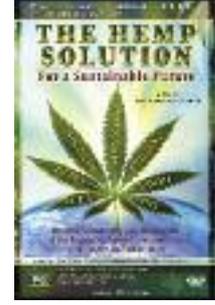
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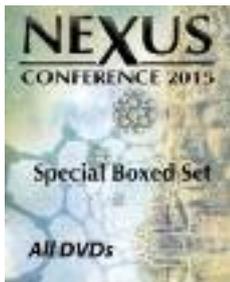
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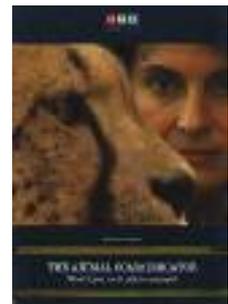
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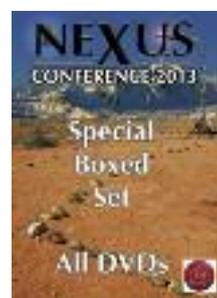
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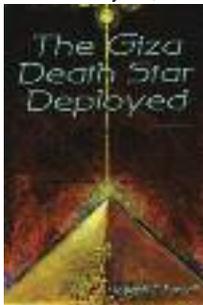


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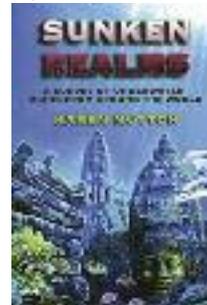
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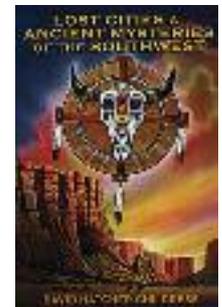
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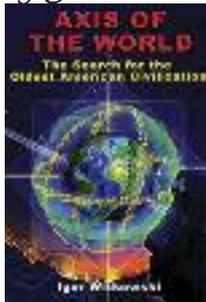
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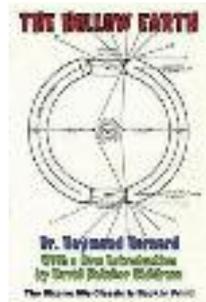
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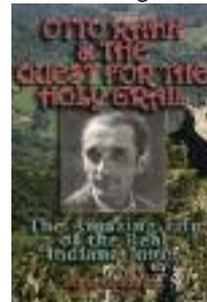
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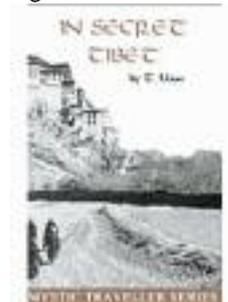
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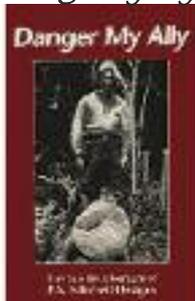
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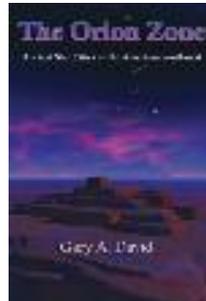
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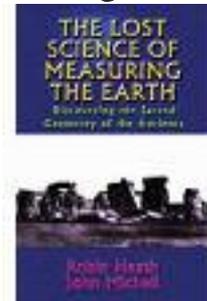
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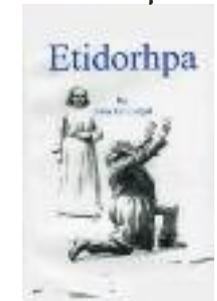
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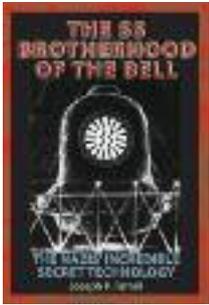
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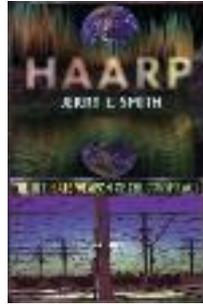
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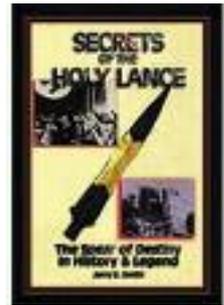
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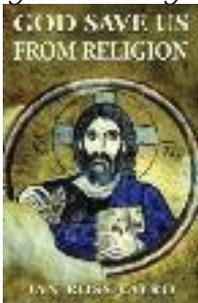
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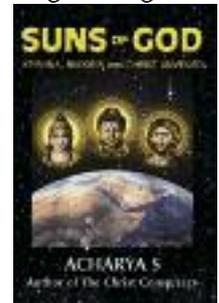
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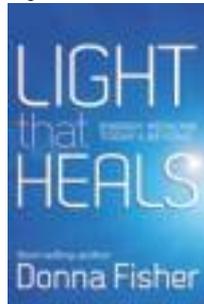
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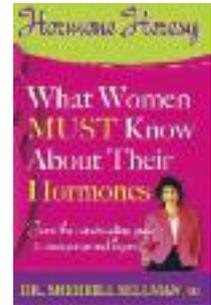
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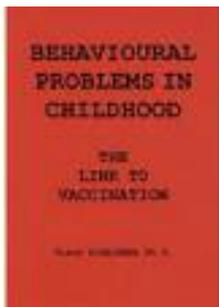
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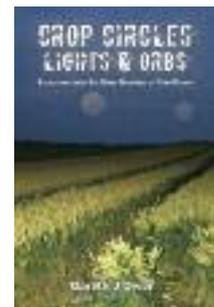
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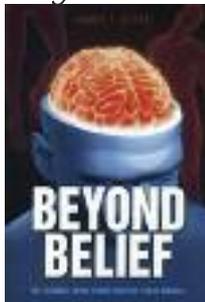
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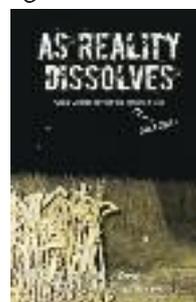
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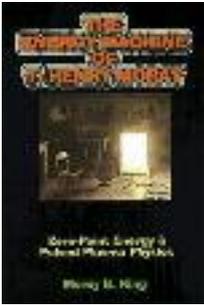
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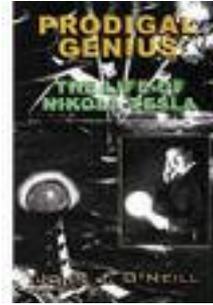
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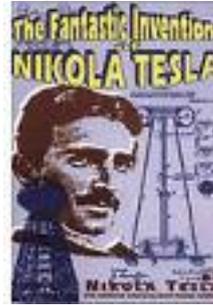
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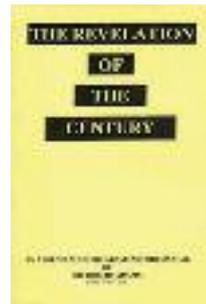
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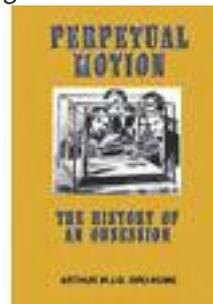
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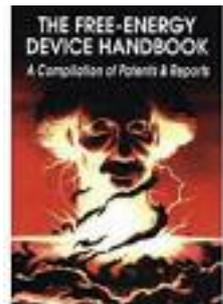
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Perpetual Motion by Arthur Ord-Hume



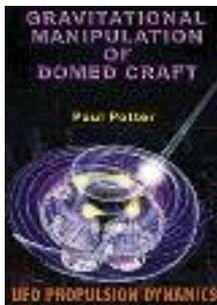
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The Free-Energy Device Handbook



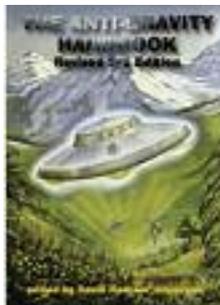
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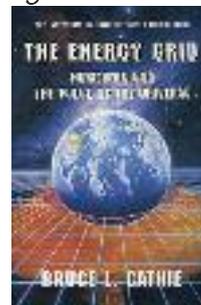
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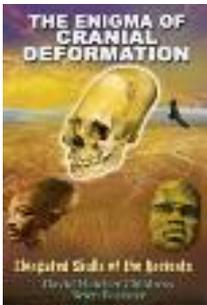
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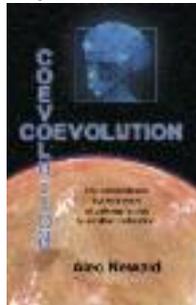
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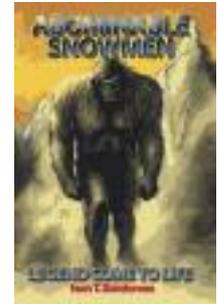
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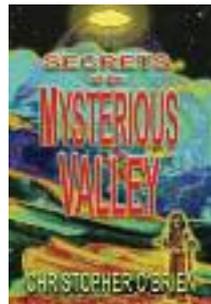
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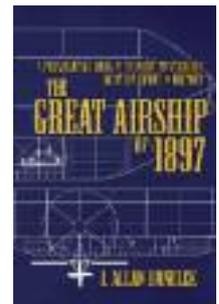
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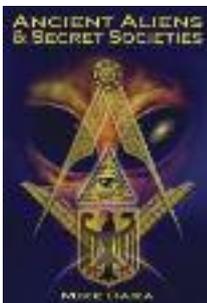
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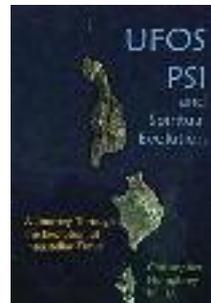
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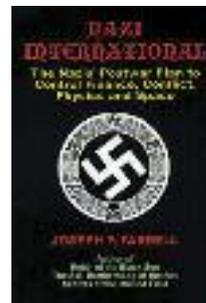
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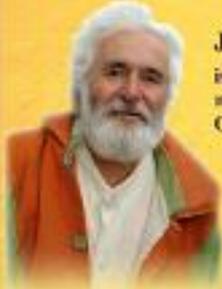
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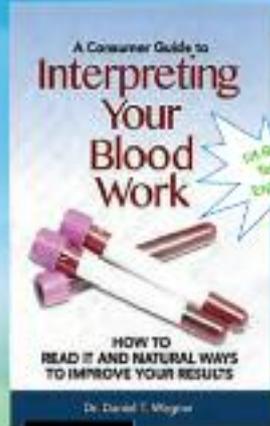
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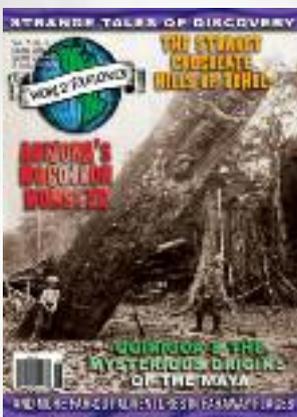
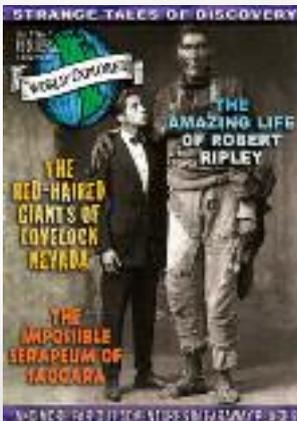
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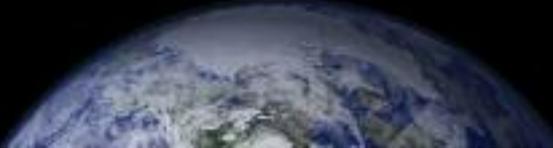
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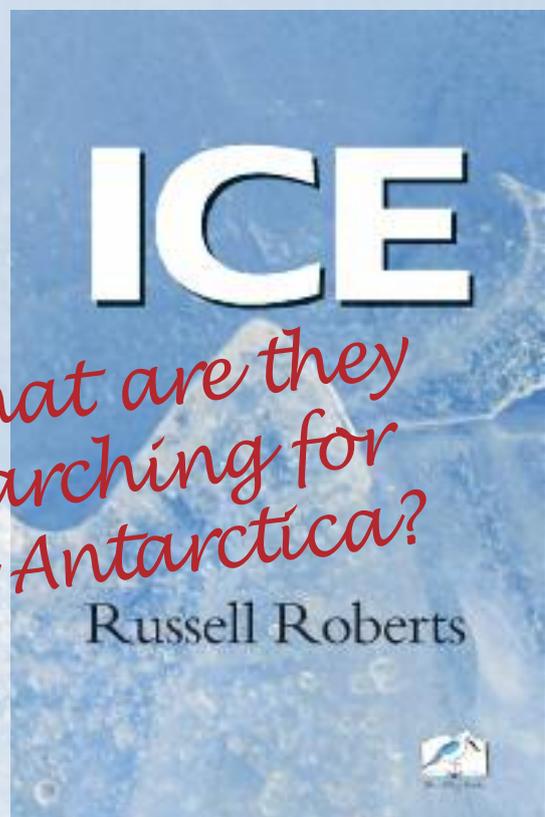
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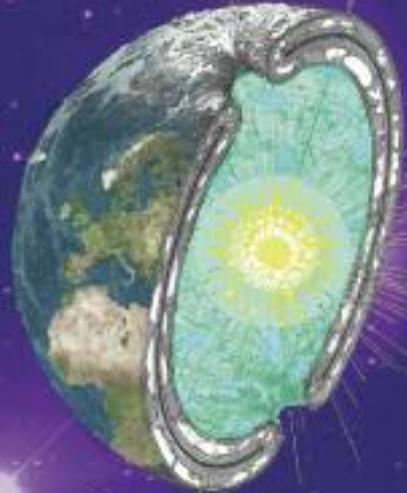



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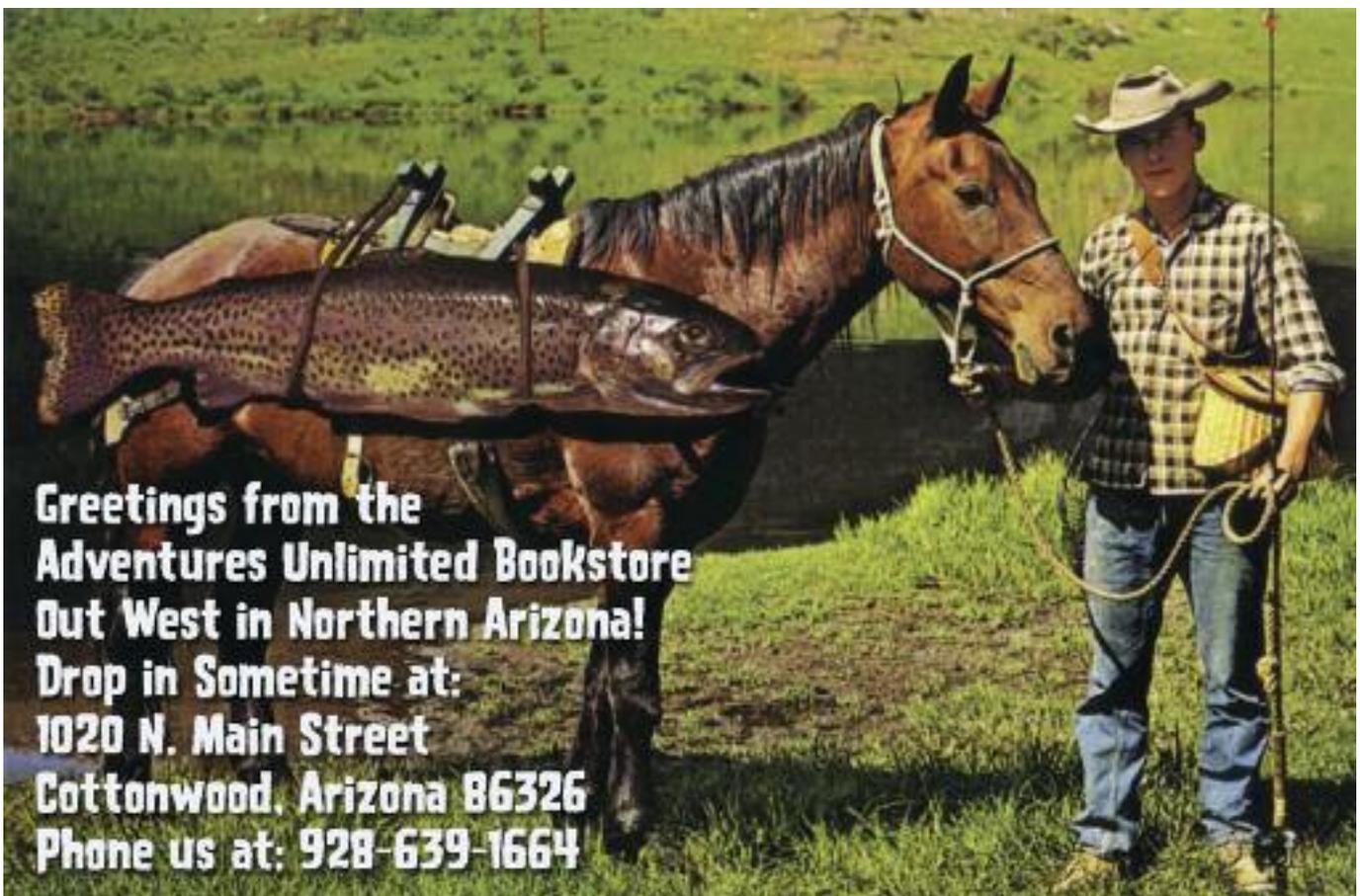
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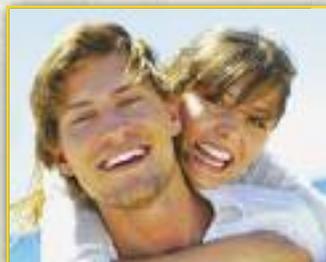
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