

NEXUS

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STATEMENT OF PURPOSE

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Editorial

Welcome to the Christmas 2010–New Year 2011 edition of NEXUS Magazine. Will I sound old if I comment here by saying, "My, how time has flown"? It seems like just yesterday that I was writing in my editorial about the birth of my baby daughter—and now she has just finished 12 years of school!

I continue to receive lots of emails and letters asking my opinion on what to expect on 21 December 2012. To say that mankind is facing a critical juncture, a multi-intersecting convergence of probabilities and agendas, is a massive understatement. However, I believe that most of the 'action' will occur during 2011, not 2012. Over the last 20–30 years, I have developed a number of inside contacts who, at various times, drop a hint or two about global developments and agendas. To date, I have seen little to ruffle their feathers about things "going wrong". Well, it would appear that everything has changed. If I were to summarise what I am being told by contacts behind the scenes about what is coming, it would include all of the following:

- More and more "visitors" are arriving from other spaces, times and dimensions. Most are here or arriving just to watch what is about to happen to/with us. Some are directly involved with our genetic heritage; some are here to try to hang onto their property and resources before it all "changes".

- Mankind's spiritual excursion into negativity and duality is coming to an end. This adventure is described by some as like an elastic band which has been pulled and stretched a long way into negativity—and is now about to be "let go". The analogous effects of being propelled suddenly and rapidly in the opposite direction are obviously implied.

- The global chess game of geopolitical control is approaching its final moves. From where I sit right now, I'd say that the forces controlling China have already won. Not that there was any real competition, because the same forces also control the western powers. The war, when it comes, will be a charade—a pre-organised war to reshape the global economy and governmental system. Obviously, we were never going to adopt this voluntarily, so we will be adopting it via the dictates of whoever is the anointed "winner" of the "great game".

- Major earthquakes, volcanic eruptions and events triggered by increased solar activity are on the cards. We are suddenly discovering ribbons of energy at the edge of our solar system, regions of charged space, greater numbers of strange objects inside the solar system, and more. The powers that be (TPTB) are anticipating an "event" which will cause no electricity to be able to "flow" for several days. They are expecting massive earth upheavals and entire tectonic plates to shift and readjust, accompanied by huge tsunamis. They have bunkers, infrastructure and plans in place so that they can ride it out as best they can.

- The biggest and most exciting changes are rumoured to involve a collision of "reality lines". This will be a period where time as we perceive it does not exist, when every thought is manifest instantly, where we "remember" who we are and why we came here, and where we either wake up, or choose to continue inside the dream.

So far, mankind has dodged most of the doomsday prophecy bullets fired at it. I like to think that this reflects the change in mass consciousness, of how many people are returning to spiritual ideas and are looking beyond the illusion of physicality for the truth of our existence.

I see that more and more people sense that *now* is the time to broadcast love, light and peaceful thoughts. Millions of people are doing this every full and new moon. There is even an article in this issue proving that when people get together and focus thought, love and attention, miracles can and do happen!

It is time to choose whether you believe you are a meaningless "accident" of a mechanical Universe with no purpose other than to survive and reproduce, or whether you believe you are a meaningful being, here by choice and with purpose. What you choose will determine how you experience what is to come. I wish you all well.

Duncan

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Letters to the Editor ...

Radioactive Decay Claim

Hi Duncan: Having been a regular reader for many years and not written a letter, I would like to take the opportunity to say well done. My motive for writing is "The Sun is changing the rate of radioactive decay" article in the October–November 2010 edition (Science News, 17/06). The article is presented as if it were a new discovery by physicists, which it certainly is not. In fact, I found reference to this phenomenon on a website at least two years ago; the original date was April 2001. This and several other references about the same thing can be found at my website under the heading "Is the claim that mass is converted into energy in the form of radioactivity true?": www.n-atlantis.com/physics.htm.

Initially what caught my attention was my memory of Tesla's claim that radioactivity is not a property of matter but is due to its interaction with cosmic rays. I had often wondered if scientists had ever checked this out, but could never find any details of it having being done.

Eckhard Dieter Falkenberg's paper (see website) is a revelation and actually mentions Tesla's claim. In recent months, I've found three other examples of experiments in the same area, not all by physicists.

The implications of this discovery are quite staggering, and if taken seriously by science will mean huge changes in the way science views the Universe. The whole basis of atomic theory is

endangered. As this is not mentioned in the article, I can only assume that science intends to dance around these new facts and treat them in the same way that they tend to react to all new concepts. The article appears to be an exercise in damage limitation.

Regards,
Alan W.

Science and Medicine Lies

Dear Duncan: Recently you published two articles with a similar subject: "The Rise of the Global Scientific Dictatorship" (17/05) and "Some Big Lies of Money, Medicine and Science" (17/06), so I am commenting on both in the one letter.

The word "science" is used in both articles incorrectly; it should be "scientism", "corrupt science", "pretend science". The real science, an organised system of knowledge, and the real scientists are only interested in finding out the truth, objective reality, irrespective of the desires and expectations of the hand that feeds them. The corrupt, pretend science, aka scientism, is conducted by corrupt, ignorant, pretend scientists for hire, people who are prepared to provide the desired results for the hand that feeds them, irrespective of the objective reality and harm their action may be causing.

It is no secret that in chemistry, medicine and economy, to name just a few, a high percentage of findings and trials are adulterated and manipulated. At the end of World War II, there was a lot of talk about chemistry

going to change the world. It did, by producing toxic substances such as DDT, insecticides, fertilisers, cosmetics and plastics that are still wreaking havoc and leaving trails of environmental disasters to this day, even though due to publicised revelations people have woken up to them and there is a powerful movement against at least the most toxic products.

Medicine, the next in line, is faring better than chemistry because of its undeserved misplaced trust due to enormous ignorance and blindness to the most obvious by people of all ages and right across the board, rich and poor. Money and prestige do not give knowledge and intelligence. Antibiotics, painkillers, vaccines, the Pill and HRT, antidepressants and other mind-altering Pharma products are maiming and killing indiscriminately. It's just that the rich and famous pay for the same products and hospital "care" more than the poor.

Just look at the not-so-new H1N1 flu "pandemic" thankfully squarely falling on its nose, but also pandemics of diabetes, obesity, brain tumours, many cancers (including mesothelioma—allegedly asbestos disease, linked to a monkey virus SV40-contaminated polio vaccine rather than asbestos), immunoreactive diseases and chronic ill health, behavioural and learning problems and criminality.

Many Pharma products list homicidal and suicidal ideation as among the observed reactions. The

ubiquitous line, "the causal link has not been proven", is a meaningless political disclaimer. By listing such reactions, are we to take it they are overstating the case against themselves?

Medicine is not just the biggest producer of ill health on a colossal global level, it is also the biggest environmental polluter. Our waterways and oceans are filled with hormones, mind-altering substances and generally toxic medications excreted via urine by billions of people, *inter alia* wreaking destruction bigger than overfishing by making most fish of female gender or otherwise unable to reproduce. I suspect that the problems experienced by great coral reefs are more a result of this type of pollution rather than climate change.

People should realise that they don't have to see doctors for every little ailment and when healthy. Koprowski, a polio vaccine researcher himself, wrote: "Avoid physicians and thou will be healed."

We don't have to mention the economy "science"; the results are obvious.

Viera Scheibner, PhD,
NSW, Australia

Subliminal Television

Dear Duncan: First of all, great magazine! I have been reading NEXUS for the past three or so years and am always happy with the content; always a great read!

I thought this piece of information may be of interest to some readers, and hopefully some have seen/experienced this and can offer more insight.

... more Letters to the Editor

Yesterday, 6 October, I was at a friend's house flicking through the channels on Freeview (I do not have television in my life myself, so I only really see it if I am not at my home!). I turned to BBC3 (Freeview Channel 10, I think), and what I saw shocked me, although it confirmed many of my beliefs about television and reinforced my attitude towards *not* watching it!

What was supposed to be on the screen was an orange background stating some channel information, but no programs were running. What was actually on the screen was a close-up picture of a demon-type thing with complete darkness behind it. This went on for a few seconds, then the "demon" type thing's tongue came out like a lizard and it blinked, then the menu screen that was supposed to be there slowly pixellated and appeared. This was at 3.00 pm, and was quite a scary-looking thing. My friend also saw it. My only interpretation of this is that behind programs and menu screens they are playing demonic films or looping pictures, etc., behind them—knowing that TV flickers rather than being a flat image. I can see that potentially these demonic pictures or films are being subliminally put into the viewer's mind without their knowing and without their ever noticing...

Strange occurrence, and I would be very interested if anyone else has experienced this. Please keep up the good work!

Regards,
Louis, UK

Vaccines and Diseases

Dear Duncan: My wife recently gave birth to our son and I was amazed to see that they wanted to give him a vitamin K injection and a hepatitis B vaccination within hours of his birth.

I then checked the Australian National Immunisation Program Schedule (<http://www.immunise.health.gov.au/internet/immunise/publishing.nsf/Content/nips2>). Our government recommends that our children receive nearly 20 vaccines in their first year! And people wonder why we see so many cases of autism, allergies, SIDS, ADD/ADHD, etc. these days.

Ian N., NSW, Australia

Mycoplasma Infection

Dear Mr Roads: I wrote to you some while back about a case in England, and you kindly published my letter (17/05). Through this, I have received some assistance from some very influential members of the medical profession who have at last found the courage to speak out against the murder of innocent people.

I have written something myself at the blogsite <http://bmephgrave-politicalcorruption.blogspot.com/>. Thank you so much for your help.

Sincerely,
Barbara Ephgrave, UK

Exposing the Conspiracies

Dear Editor: Thank you very much for going to the trouble of publishing some of the most enlightening stories ever written. You publish what we all suspect is true. Because of the doubt

we all have these days, it's nice to know that other people see things in a different light. It all makes sense if you think about it. The conspiracies that are going on in the world today need to be exposed: they are all about fooling the world.

Whatever happened to Jeremy Lee or Peter Sawyer from the late 1980s and early 1990s?

Keep up the great magazine. Thank you.

Regards,
Alan

hCG Weight Loss Success

Hi Duncan: Thank you for publishing the article on hCG (17/04). I put on (what seemed like) tons of weight nearly 20 years ago, with the only explanation seeming to be a trip to England. Now with your explanation of EMFs I understand why, as you are really bombarded with them on a long flight.

After taking the hCG drops for just one month, I have dropped 12 kilograms (an impossibility on any other regime). I can now do my own pedicure, run up and down steps, am no longer seeing life through a grey mist and can even keep up with the grandkids! I can hardly wait to start the second course of hCG.

Thank you for giving me back my life.

Mary W., Australia

UK Contrails Mystery

Dear Editor: In response to a letter in your last publication entitled "Mystery Deaths in England" (17/06), I would like to describe the frequency and scale of the contrails that I have seen over the last few

years across the same area as was mentioned in your reader's letter.

I have lived up on the North Yorkshire Moors for the past 15 years. I have seen many variations of contrails before throughout the world, but none compares to what I have seen in this area of the UK. The contrails are especially visible in the mornings before the day's weather patterns cloud up. I have seen on many occasions huge gridded symmetrical contrails spanning massive distances. If I could gauge a distance, each square of the contrail grid covers approximately 4–5 miles and the grid continues as far as the eye can see towards either horizon. It takes around 15–20 minutes for it to disappear, while steadily drifting in whatever direction the wind is blowing on that particular day.

More than one plane creates the grid, moving along both the north–south axis and the east–west axis at the same time.

The only implications that I have seen is the disappearance/decrease in insect species after one of these gridded contrails. A local farmer used to bring 50 to 70 beehives up to the Moors in the summer for the bees to feed on the heather, but he has stopped bringing the hives due to there being so few hives left to make it commercially viable.

I would be very interested to know if any other of your readers has seen these contrails or noticed any other side effects.

Anonymous, UK

VATICAN ORDERED HIT ON POPE JOHN PAUL II

The man responsible for an assassination attempt on the late Pope John Paul II has stated in a television interview that "the Vatican government" had ordered the hit.

Mehmet Ali Agca, recently released after spending 30 years behind bars, stated on Turkish national television: "The Vatican government decided on the Pope's assassination. They planned and organised it. The order to shoot the Pope was given by Vatican Secretary Cardinal Agostino Casaroli," he said.

Agca was arrested in 1981 after he shot the Pope in St Peter's Square. At the time, he claimed that he had acted alone. Later, however, Agca testified that he had been paid by the Bulgarian secret service. To date, however, the motive behind the attempt remains unknown.

After his release from prison in January 2010, Agca announced his intention to write a book, sparking widespread outrage.

One of the prosecutors during Agca's trial, Ferdinando



Imposimato, stated that Agca "knows everything about the intelligence services behind the shooting". He added: "It's horrifying and ridiculous that people could offer him money [for his memoirs]."

"It's offensive to Pope John Paul and it could jeopardise what chances are left of finding out the truth. He could be tempted to say outrageous, untrue things just to get more money," Imposimato noted.

The Pope later forgave and met

with Agca in prison, telling his followers: "Pray for the brother who shot me, whom I have sincerely forgiven."

(Source: Press TV, Tehran, 10 November 2010, <http://www.presstv.ir/detail/150432.html>)

MICROCHIPS IN YOUR MEDICINE

Swiss pharmaceutical giant Novartis AG plans to seek regulatory approval for a pioneering tablet containing an embedded microchip, bringing the concept of "smart pill" technology a step closer.

Novartis secured access to chip-in-a-pill technology developed by privately owned Proteus Biomedical of Redwood City, California.

The biotech start-up's ingestible chips are activated by stomach acid and send information to a small patch worn on the patient's skin, which can transmit data to a smart phone or send it over the Internet to a doctor.

Longer-term plans include expanding the "smart pill" concept to other types of medicine and using the wealth of biometric information which the Proteus chip can collect, from heart rate and temperature to body movement, to check that drugs are working properly.

Because the tiny chips are added to existing drugs, Novartis does not expect to have to conduct full-scale clinical trials to prove that the new products work. Instead, it aims to do so-called bioequivalence tests to show that they are the same as the original.

A bigger issue may be what checks should be put in place to protect patients' personal medical data as it is transmitted from inside their bodies by wireless and Bluetooth.

(Source: Reuters, 8 November 2010, <http://www.reuters.com/article/idUSTRE6A754720101108>)



... GLOBAL NEWS ...

STUDY UNCOVERS MESOTHELIOMA LINK TO NANOTECHNOLOGY

Mesothelioma has long been linked to the inhalation of and exposure to asbestos fibres and dust, so when scientists uncovered an additional potential cause for this incurable form of lung cancer, the unthinkable became a reality.

According to researchers at the Woodrow Wilson International Center for Scholars in Washington, DC, the early 1990s development of carbon nanotubes has been an amazing feat for technological applications. However, it has not gone without its price. Specifically, synthetic carbon nanotubes may be causing harm to the human body in the form of mesothelioma cancer.

Nanotubes are cylindrical structures comprised of carbon atoms that have been rolled together. If the carbon nanotubes are introduced into the wrong environment, they can cause lesions and inflammation of the lungs—symptoms similar to those of mesothelioma cancer and asbestos exposure.

Dr Andrew Maynard, whose study was published in the journal *Nature Nanotechnology*, described the use of nanotubes and the potential link to mesothelioma cancer. He said that nanotubes are being used because of their awesome abilities in conducting heat and electricity.

He also said that there are no regulations as to where nanotubes can be employed, and that there are currently no requirements for the use of nanotubes to be disclosed to the general public.

Nanotubes are now being used in a variety of sports equipment, electronic gas detectors and radios, and will be widely used in industries including aerospace, automobile, aviation, environmental, medical and television box production.

(Source: *Disease & Illness*, via *AsanWay*, 9 October 2010, <http://tinyurl.com/25e2fuq>)

SCIENTISTS SAY CANCER IS MAN-MADE, NOT GENETIC

Cancer is a modern man-made disease caused by environmental factors such as pollution and diet, a study by University of Manchester scientists has strongly suggested.

The study of remains and literature from ancient Egypt, Greece and earlier periods—carried out at Manchester's KNH Centre for Biomedical Egyptology, and published in *Nature Reviews Cancer*—includes the first histological diagnosis of cancer in an Egyptian mummy.

Finding only one case of the disease in the investigation of hundreds of Egyptian mummies, with few references to cancer in literary evidence, proves that cancer was extremely rare in antiquity. The disease rate has risen massively since the Industrial Revolution, in particular the rate of childhood cancer—proving that the rise is not simply due to people living longer.

Professor Rosalie David, at the Faculty of Life Sciences, said: "In industrialised societies, cancer is second only to cardiovascular disease as a cause of death. But in ancient times, it was extremely rare.

There is nothing in the natural

environment that can cause cancer. So it has to be a man-made disease, down to pollution and changes to our diet and lifestyle."

(Source: *PhysOrg.com*, 14 October 2010, <http://tinyurl.com/24977wc>)

INVENTION SECRECY STILL GOING STRONG

There were 5,135 inventions that were under secrecy orders at the end of the USA Fiscal Year 2010, according to the US Patent and Trademark Office. This is a one per cent rise over the year before, and the highest total in more than a decade.

Under the US Invention Secrecy Act of 1951, patent applications on new inventions can be subject to secrecy orders restricting their publication if government agencies believe that disclosure would be "detrimental to the national security".

The current list of technology areas that is used to screen patent applications for possible restriction under the Invention Secrecy Act is not publicly available, and access has been denied under the US Freedom of Information Act. Most of the listed technology areas are closely related to military applications, but some of them range more widely.



"It's not tattoos. It's graffiti. I feel asleep one night in an alley."

... GLOBAL NEWS ...

A previous list, dated 1971, indicates that patents for solar photovoltaic generators were subject to review and possible restriction if the photovoltaics were more than 20 per cent efficient. Energy conversion systems were likewise subject to review and possible restriction if they offered conversion efficiencies "in excess of 70-80%".

One may fairly ask if disclosure of such technologies could really have been "detrimental to the national security", or whether the opposite would be closer to the truth. One may further ask what comparable advances in technology may be subject to restriction and non-disclosure today. But no answers are forthcoming, and the invention secrecy system persists with no discernible external review.

(Source: *Secrecy News*, 21 October 2010, <http://tinyurl.com/26mlf6t>)

BIG BANKS AND UN CALL FOR A GLOBAL CURRENCY

The Institute of International Finance (IIF), a group that represents 420 of the world's largest banks and finance houses, has issued yet another call for a one-world global currency.

"A core group of the world's leading economies need[s] to come together and hammer out an understanding," said Charles Dallara, the IIF's managing director.

An IIF policy letter authored by Dallara and dated 4 October made it clear that global currency coordination is needed, in the group's view, to prevent a looming currency war.

Dallard encouraged a return to the G-20 commitment to utilise International Monetary Fund (IMF) Special Drawing Rights to create an international one-world currency alternative to the US dollar as a new standard for foreign-exchange reserves.

Likewise, a July United Nations report called for the replacement of the dollar as the standard for holding foreign-exchange reserves in international trade with a new one-world currency issued by the IMF.

The 176-page report, "World Economic and Social Survey 2010", was issued at a high-level meeting of the UN Economic and Social Council and published in its entirety on the UN website.

(Source: *BlackListedNews.com*, 11 October 2010, <http://tinyurl.com/34bxkta>)

GROUNDWATER DEPLETION RATE ACCELERATING

In recent decades, the rate at which humans worldwide are pumping dry the vast underground stores of water that billions depend on has more than doubled, say scientists who have conducted a global assessment of groundwater use. These fast-shrinking subterranean reservoirs are essential to daily life and agriculture in many regions, while also sustaining streams, wetlands and ecosystems and resisting land subsidence and salt water intrusion into fresh water supplies.

Soaring global groundwater depletion bodes a potential disaster for an increasingly globalised agricultural system, says the study's leader Marc Bierkens of Utrecht University in Utrecht, The Netherlands.

"If you let the population grow by extending the irrigated areas using groundwater that is not being recharged, then you will run into a wall at a certain point in time, and you will have hunger and social unrest to go with it," Bierkens warns.

Groundwater represents about 30 per cent of the available fresh water on the planet, with surface water accounting for only one per cent. The rest of the potable, agriculture-friendly supply is locked up in glaciers and the polar ice caps. This means that any reduction in the availability of groundwater supplies could have profound effects for a growing human population.

The new assessment shows the highest rates of depletion in some of the world's major agricultural centres, including northwestern India, northeastern China, northeastern Pakistan, California's Central Valley and the midwestern United States.

(Source: *ScienceDaily.com*, 23 September 2010, <http://tinyurl.com/26hf679>)



EXPANDING EARTH THEORY

LAST CHANCE FOR NATURAL HEALTH INDUSTRY IN EUROPE

As a consequence of moves to harmonise global food laws, concerted attempts to control consumer access to natural health products are being made by governments and transnational corporations. At a global level, the regulatory framework is being developed through the Codex Alimentarius Commission.

The system of control essentially moves natural health products from a category of food to products requiring pre-market authorisation, where the authorisation systems being used or proposed are very onerous and so lock out large numbers of products.

All this is being enacted under the often conflicting guises of "consumer protection" and "free trade", nearly always creating a situation where big business gets what it wants while our freedom to choose natural health products is dramatically curtailed.

Europe is becoming the central platform for global harmonisation of food laws relating to natural health. Much of the legal infrastructure that is set to cause major problems downstream is already in place, but has yet to be felt fully as key parts of the European regulations and directives are in a transitional phase.

Unless pro-natural health interests continue to influence the process positively, we could see massive restrictions on allowed ingredients, on maximum permitted doses, and on what can be said about any product with beneficial properties.

Readers interested in learning more about the assault upon health freedoms in their region are encouraged to get informed, then join and support active and effective organisations such as the one below. (Source: Alliance for Natural Health Int. [Europe], <http://www.anh-europe.org/campaigns/freedom-health-choice>)

HYDRAULIC FRACTURING IS POISONING THE WATER TABLE

As hydraulic fracturing expands across the globe to recover gas reserves in hard-to-reach rock formations, there is a growing concern about the health and environmental impacts of this practice. In the USA, the Environmental Protection Agency (EPA) is undertaking a scientific study at the request of Congress to investigate the impacts that hydraulic fracturing may have on drinking water.

Hydraulic fracturing ("fracking") injects chemicals at pressure into shale formations to release natural gas. The chemicals include benzene, ethylbenzene, toluene, boric acid, monoethanolamine, xylene, diesel-related organics, methanol, formaldehyde, hydrochloric acid, ammonium bisulphate, 2-butoxyethanol, ethylene glycol, propylene glycol and many more.

The former environmental quality analyst for Michigan's Department of Natural Resources, Dr Chris Grobbel, claims there are 900 fluid formulations used for fracking, each with 600 ingredients. "The fluid chemistry and toxicity [are] really driven by the naturally occurring chemicals that are coming up at toxic levels with the return flow," Grobbel said. "It brings with it dissolved hydrocarbons—benzene, thylene, ethylbenzene, xylene isomers being the four that are typically focused on. It brings up heavy metals, it can bring up radionucleotides including radium-226 and other naturally occurring materials that are at toxic levels at the surface. And of course you've got all the additives. The chemicals transform the fluid into a frictionless mass that works its way deep into the earth, prying open tiny cracks that can extend thousands of feet; particles of sand or silicon wedge inside the cracks, holding the earth open."

Industry claims that the fluids can't travel to the surface, although Richard Ranger, Senior Policy Advisor for the American Petroleum Institute, admits that "[t]here are no studies to support industry claims".

Each gas well consumes 100,000 gallons of fracking fluids plus four million gallons of water. The amount of wastewater left underground is a function of local geology. The State Geologist of Alabama reported in 1997 that "almost all fluid [was] recovered", with the EPA reporting returns of 15 per cent to 41 per cent. There is no known treatment for recovered fracking wastewater.

Following fracking in Pavilion, Wyoming, the EPA tested local wells. Results released on 31 August 2010 showed groundwater and 17 out of 19 wells contaminated with adamantanes, tri (2-butoxyethyl) phosphate, gasoline-range organics, diesel-range organics, caprolactam, methane, benzene, cyclohexane, methylcyclohexane and propane. Residents participating in a health study reported 128 symptoms and diseases, most of which are linked to fracking. They reported the affected areas smelled like rotten eggs, and they suffered headaches, burning eyes, itching skin, high blood pressure, memory loss and fatigue, and 80 per cent reported respiratory problems.

On 1 September 2010, the EPA started issuing warnings to people with contaminated wells, advising them to shower and do laundry only in well-ventilated areas.

Investigations conducted by Propublica.org have already found more than 1,000 reports of underground water and well contamination from fracking. In dozens of homes in Ohio, Pennsylvania and Colorado, gas migrated through underground cracks into basements and wells.

"The drilling equipment and the wells also affect air quality, as the material returning to the surface can include carbon monoxide, methane and other gases," according to Dr Grobbel. "Greenhouse gases, acid rain-causing gases, asthma-causing particulates are all associated with fracking."

(Source: Halifax Media Co-op, 4 November 2010, <http://halifax.mediacoop.ca/story/just-fracks-ma'am/5054>)

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PROJECT CENSORED'S TOP 25 NEWS STORIES

The Project Censored team has undertaken the rigorous process of selecting and evaluating the most important American and global news stories of 2009–2010 that received little or no coverage by the mainstream media.

Each year, the Project Censored team, based at Sonoma State University, California, selects and evaluates thousands of news stories published in the national and international mainstream media as well as in the alternative press. The team ultimately decides on the top 25 most underreported stories. Following is an edited summary of Project Censored's 2009–10 selection. To see the full report with sources, references and updates, visit <http://www.projectcensored.org/top-stories/articles/category/top-stories/top-25-of-2011/>. The book *Censored 2011*, edited by Mickey Huff, Peter Phillips and Project Censored, is reviewed in this edition. — Editor

1. Global Plans to Replace the Dollar

Nations have reached their limit in subsidising the military adventures of the United States. During meetings in June 2009 in Yekaterinburg, Russia, world leaders such as China's President Hu Jintao, Russia's President Dmitry Medvedev and other top officials of the six-nation Shanghai Cooperation Organisation took the first formal step to replace the dollar as the world's reserve currency. The United States was denied admission to the meetings. If the world leaders succeed, the dollar will dramatically plummet in value; the cost of imports, including oil, will skyrocket and interest rates will climb.

Foreigners see the International Monetary Fund, the World Bank and the World Trade Organization as Washington surrogates in a financial system backed by US military bases and aircraft carriers encircling the globe. But this military domination is a vestige of an American empire no longer able to rule by economic strength.

Journalist Chris Hedges wrote in June 2009: "The architects of this new global exchange realize that if they break the dollar they also break America's military domination. US military spending cannot be sustained without this cycle of heavy borrowing. The official US defense budget for fiscal year 2008 was US\$623 billion. The next closest national military budget was China's, at \$65 billion, according to the Central Intelligence Agency."

To fund the permanent war economy, the US has been flooding the world with dollars. The foreign recipients turn the dollars over to their central banks for local currency. The central banks then have a problem. If a central bank does not spend the money in the United States, then the exchange rate against the dollar increases, penalising exporters. This has allowed the US to print money without restraint, to buy imports and foreign companies, to fund military expansion and to ensure that foreign nations like China continue to buy American Treasury bonds.

In July 2009, President Medvedev illustrated his call for a supranational currency to replace the dollar by pulling from his pocket a sample coin of a "united future world currency". The coin, bearing the words "Unity in Diversity", was minted in Belgium and presented to the heads of G8 delegations.

Compiled by
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In September 2009, the United Nations Conference on Trade and Development proposed creating a new artificial currency that would replace the dollar as reserve currency. The UN wants to redesign the Bretton Woods system of international exchange.

2. US Department of Defense: Planet's Worst Polluter

The United States military is responsible for the most egregious and widespread pollution of the planet. In spite of the evidence, the environmental impact of the US military goes largely unaddressed by environmental organisations and was not the focus of any discussions or proposed restrictions at the UN Climate Change Conference in Copenhagen. The extensive global operations of the US military (wars, interventions and secret operations on over 1,000 bases around the world and 6,000 facilities in the United States) are not counted against US greenhouse gas limits.

As it stands, the Department of Defense is the largest polluter in the world, producing more hazardous waste than the five largest US chemical companies combined. Depleted uranium, petroleum, oil, pesticides, defoliant agents, such as Agent Orange, and lead, along with vast amounts of radiation from weaponry produced, tested and used, are just some of the pollutants with which the US military is contaminating the environment. Journalist Sara Flounders has identified key examples:

- Tens of thousands of pounds of microparticles of radioactive and highly toxic waste contaminate the Middle East, Central Asia and the Balkans.
- US-made land mines and cluster bombs spread over wide areas of Africa, Asia, Latin America and the Middle East continue to spread death and destruction.
- Thirty-five years after the Vietnam War, dioxin contamination is 300 to 400 times higher than "safe" levels, resulting in severe birth defects and cancers into the third generation of those affected.
- US military policies and wars in Iraq have created severe desertification of 90 per cent of the land, changing Iraq from a food exporter into a country that imports 80 per cent of its food.
- In the US, military bases top the Superfund list of the most polluted places, as perchlorate and trichloroethylene seep into the drinking water, aquifers and soil.
- Nuclear weapons testing in the American Southwest and the South Pacific Islands has contaminated millions of acres of land and water with radiation, while uranium tailings defile Navajo reservations.
- Rusting barrels of chemicals and solvents and

millions of rounds of ammunition are criminally abandoned by the Pentagon in bases around the world.

3. Internet Privacy and Personal Access at Risk

Following in the steps of its predecessor, the Obama administration is expanding mass government surveillance of personal electronic communications. This surveillance, which includes the monitoring of the Internet as well as private (nongovernmental) computers, is proceeding with the proposal or passage of new laws granting government agencies increasingly wider latitude in their monitoring activities. At the same time, private companies and even some schools are engaging in surveillance activities that further diminish personal privacy.

In spring 2009, Senate Bill 773, the Cybersecurity Act of 2009, was proposed, which gives the US President power to "declare a cyber security emergency" with respect to private computer networks and to do with these networks

In a national emergency, the President would also have the power to shut down the Internet completely in the United States.

what is deemed necessary to diffuse the attack. In a national emergency, the President would also have the power to shut down the Internet completely in the United States. The proposal requires that certain private computer systems and networks be "managed" by "cyber-professionals" licensed by the federal government. The bill permits the President to direct the national response to the cyber threat, if necessary, for

national defence and security, to conduct "periodic mapping" of private networks deemed to be critical to national security, and to require these companies to "share" information requested by the federal government.

Such steps toward increased control over private computer networks have been taken amid an ongoing program of mass surveillance begun by the George W. Bush administration, supposedly in response to the 9/11 attacks. Presently, no legislation exists that disallows the use of such technology to conduct mass, warrantless surveillance.

4. ICE Operates Secret Detention and Courts

Agents of the US Immigration and Customs Enforcement (ICE) are holding thousands of US residents in unlisted and unmarked subfield offices and deporting tens of thousands in secret court hearings.

"If you don't have enough evidence to charge someone criminally but you think he's illegal, we can make him disappear." Those chilling words were spoken by James Pendergraph, then executive director of the ICE's Office of State and Local Coordination, at a conference of police and sheriffs in August 2008.

People are held in a vast network of more than 300

detention facilities, located in nearly every state in the country. Only a few of these facilities are under the full operational control of ICE; the majority are jails under the control of state and local governments that subcontract with ICE to provide detention bed space. However, ICE has created a network of secret jails designed for confining individuals in transit. These 186 unlisted and unmarked subfield offices are not subject to ICE detention standards, lacking showers, beds, drinking water, soap, toothbrushes, sanitary napkins, mail, attorneys or legal information. Many of these subfield offices are in suburban office parks or commercial spaces, revealing no information about their ICE tenants—nary a sign, a marked car or even a US flag.

In addition, there is a complete lack of a real-time database tracking people in ICE custody, meaning that ICE has created a network of secret jails, designed for confining individuals in transit, that literally make people disappear. Immigrant detainees can be transferred away from their attorneys at any point in their immigration proceedings, and often are. Detainees can be literally "lost" by their attorneys and family members for days or even weeks after being transferred.

5. Blackwater (Xe): The Secret US War in Pakistan

At a covert forward operating base run by the US Joint Special Operations Command (JSOC) in the Pakistani port city of Karachi, members of an elite division of Blackwater are at the centre of a secret program in which they plan targeted assassinations of suspected Taliban and Al-Qaeda operatives inside and outside Pakistan. The Blackwater operatives also gather intelligence and help direct a secret US military drone bombing campaign that runs parallel to the well-documented CIA Predator strikes, according to a well-placed source within the US military intelligence apparatus.

Blackwater, which also goes by the names Xe Services and US Training Center, has denied that the company operates in Pakistan.

A former senior executive at Blackwater confirmed the military intelligence source's claim that the company is working in Pakistan for the CIA and JSOC. He said that Blackwater is also working for the Pakistani government on a subcontract with an Islamabad-based security firm that puts US Blackwater operatives on the ground with

Pakistani forces in "counterterrorism" operations, including house raids and border interdictions, in the North-West Frontier Province and elsewhere in Pakistan. This arrangement allows the Pakistani government to utilise former US Special Operations forces that now work for Blackwater, while denying an official US military presence in the country. He also confirmed that Blackwater has a facility in Karachi and has personnel deployed elsewhere in Pakistan.

In addition to planning drone strikes and operations against suspected Al-Qaeda and Taliban forces in Pakistan for both JSOC and the CIA, the Blackwater team in Karachi also helps plan missions for JSOC inside Uzbekistan against the Islamic Movement of Uzbekistan.

As well as working on covert action planning and drone strikes, Blackwater Select provides private guards to perform the sensitive task of security for secret US drone bases, JSOC camps and Defense Intelligence Agency camps inside Pakistan.

This arrangement allows the Pakistani government to utilise former US Special Operations forces that now work for Blackwater, while denying an official US military presence in the country.

6. Health Care Restrictions Cost Thousands of Lives in the US

Despite national legislative health reform, health care in the US will remain dismal for many Americans, resulting in continuing deaths and personal tragedies.

A Harvard research team estimates that 2,266 US military veterans died in 2008 due to lack of health insurance. The figure is more than 14 times the number of deaths suffered by US troops in Afghanistan in 2008, and more than twice as many as have died since the war began in 2001. The researchers concluded that 1.46 million working-age vets lacked health coverage, increasing their death rate. The *American Journal of Public Health* published findings

demonstrating that being uninsured raises an individual's odds of dying by 40 per cent.

Health insurance laws are often complicated by individual states, where health insurance is legally controlled.

According to research led by the Johns Hopkins Children's Center, lack of health insurance may have led or contributed to nearly 17,000 deaths among hospitalised children in the United States in the span of less than two decades. The study was published online on 29 October 2009 in the Oxford, UK, *Journal of Public Health*. Using more than 23 million hospital records from 37 states between 1988 and 2005, the Johns Hopkins investigators compared the risk of death in children with

insurance to those without. Other factors being equal, they found that uninsured children were 60 per cent more likely to die in hospital than those with insurance. When comparing death rates by underlying disease, the uninsured appeared to have an increased risk of dying regardless of their medical condition. The findings only captured deaths during hospitalisation and did not reflect deaths after discharge from hospital, nor did they count children who died without ever being hospitalised, which means that the real death toll of uninsured children could be even higher.

7. External Capitalist Forces Wreak Havoc in Africa

Resource exploitation in Africa is not new, but the scale of agricultural "land grabbing" in African nations is unprecedented, becoming the new colonisation of the 21st century. State violence against Kenyan indigenous pastoralists and Nigerian civilians in oil-rich regions has heightened, leaving thousands dead as the military burns whole communities to the ground and police commit crimes including extrajudicial killings, rapes, beatings, thefts, arson and intimidation.

In the midst of a severe food and economic crisis, the "land grabbing" trend has grown into an international phenomenon. The term refers to the purchase or lease of vast tracts of land by wealthier, food-insecure nations and private investors from mostly poor, developing countries in order to produce crops for export. Approximately 180 instances of such land transactions have been reported since mid-2008, as nations attempt to extend their control over food-producing lands and

investors attempt to turn a profit in biofuels and soft commodities markets.

Historically, with big industrial agriculture comes the expansion of western agricultural biotechnologies. The introduction of genetically modified organisms in the US and other countries has primarily profited patent-holding companies while creating farmer dependence on the chemical fertilisers and pesticides produced by a few US corporations and used to the detriment of human health, soil quality and the environment.

A tangled consortium of multinational corporations, funded by taxpayer dollars via the United States Agency for International Development, seeks to further the aims of biotech abroad, especially in Africa where Kenya, Mali, Nigeria, South Africa, Uganda and Zambia were singled out and have been the testing grounds for this strategy. The obvious beneficiaries of such international development are the handful of corporations which own the patents and technology and produce the herbicides and pesticides required by the use of such seeds.

8. Massacre in Peruvian Amazon over US–Peru FTA

On World Environment Day, 5 June 2009, Peruvian Amazon Indians were massacred by the government of Alán García in the latest chapter of a long war to take over common lands—a war unleashed by the signing of the Free Trade Agreement (FTA) between Peru and the US.

Three Mi-17 helicopters took off from the national police base in El Milagro, Peru, at 6 am on Friday 5 June and flew over part of the Peruvian highway that joins the jungle to the northern coast, which had been occupied for the past 10 days by 5,000 Awajún and Wampi indigenous peoples. The helicopters launched tear gas on the crowd (witnesses say they also fired machine guns), while a group of agents simultaneously attacked the roadblock by ground, firing AKM rifles. An estimated 500 police bore down on the protesters, some of whom were still sleeping, and opened fire. One hundred people were wounded by gunshot, and between 20 and 25 were killed.

The government claimed days after the clash that 11 indigenous were dead as well as 23 police agents. The indigenous organisations reported 50 dead among their ranks and up to 400 disappearances. According to witnesses, the military burned bodies and threw them into the river to hide the massacre, and also took prisoners from among the wounded in hospitals. While accounts differ, what is certain is that the government sent the armed forces to evict a peaceful protest that had been going on for 57 days in five jungle regions: Amazonas, Cusco, Loreto, San Martín and Ucayali.

The US–Peru FTA was signed on 8 December 2005 in Washington, DC, by then Presidents George W. Bush and Alán García. In June 2006, it



"Just send me a text reminding me to email you about setting up a Skype session to discuss organising a video conference."

was ratified by Peru, and in December 2007 by the US Congress. On 19 December 2007, Peru's Congress gave full faculties to the government to legislate for six months, by decree, issues related to the FTA. Mandated by these powers, the executive drafted 99 legislative decrees that are at the root of the current conflict. On 1 February 2009, the agreement went into effect.

9. Human Rights Abuses Continue in Palestine

The Human Sciences Research Council of South Africa (HSRC) has released a study indicating that Israel is practising both colonialism and apartheid in the occupied Palestinian territories. HSRC commissioned an international team of scholars and practitioners of international public law from South Africa, the UK, Israel and the West Bank to conduct the study.

The team found that Israel's policy and practices violate the prohibition on colonialism, which the international community developed in the 1960s in response to the great decolonisation struggles in Africa and Asia. Israel's policy is demonstrably to fragment the West Bank and annex part of it permanently to Israel. Through these measures, Israel has denied the indigenous population the right to self-determination, and has indicated a clear intention to assume sovereignty over portions of its land and natural resources.

The team also found that Israel's laws and policies in the Occupied Palestinian Territories fit the definition of apartheid in the International Convention on the Suppression and Punishment of the Crime of Apartheid. Israeli law conveys privileges to Jewish settlers and disadvantages Palestinians in the same territory on the basis of their respective racial identities.

10. United States Funds and Supports the Taliban

In a continuous flow of money, American tax dollars end up paying members of the Taliban and funding a volatile environment in Afghanistan. Private contractors pay insurgents in the hope of attaining the very safety they are contracted to provide. Concurrently, US soldiers pay at checkpoints run by suspected insurgents in order to get safe passage. In some cases, Afghan companies run by former Taliban members, like President Hamid Karzai's cousin, are protecting the passage of American soldiers. The funding of the insurgents, along with rumours of American helicopters ferrying Taliban members in Afghanistan, has led to widespread distrust of American forces. In the meantime, the US taxpayer's dollar continues to fund insurgents to protect American troops so they can fight insurgents.

US security contractors as well as countless other private American corporations cannot provide the safety that they are paid to offer.

So US military contractors in Afghanistan pay suspected insurgents to protect the US supply routes they were contracted to protect. A war-torn country such as Afghanistan has plenty of impoverished citizens and, as a result, it is not hard for private contractors to find individuals willing to take money to protect supply routes.

An estimated 10 per cent of the Pentagon's logistics contracts worth hundreds of millions of dollars is paid to insurgents as the US government funds the very forces American troops are fighting.

11. The H1N1 Swine Flu Pandemic: Manipulating Data to Enrich Drug Companies

The H1N1 virus has spawned widespread panic and fear throughout the world. However, upon closer examination, many of the claims made by the World Health Organization (WHO) seem to be based on weak and incomplete data. The Atlanta-based Centers for Disease Control and Prevention (CDC) has created and used data to grossly exaggerate the need for an expensive and unnecessary vaccine aimed at creating profits for the pharmaceutical industry—and not protecting Americans.

The WHO claimed in 2009 that a worldwide public health emergency had unfolded on an unprecedented scale, and 4.9 billion doses of H1N1 swine flu vaccine were needed to stop the spread. In some countries, the WHO recommended that H1N1 vaccination be mandatory. However, the data used by the WHO was faulty at best.

In the US, both federal and state governments began preparation for the pandemic. State governments are generally responsible for these preparations, in coordination with federal agencies. President Obama's Council of Advisors on Science and Technology released a report that "considered the H1N1 pandemic 'a serious health threat' to the US—not as serious as the 1918 Spanish flu pandemic but worse than the swine flu outbreak of 1976". Responding to such terrifying language, legislation drawn up in Massachusetts introduced hefty fines and prison sentences for those who refused to be vaccinated. The US military was expected to have an active role in this health emergency.

There was no uniform system for collecting data on suspected swine flu victims in the US, which led to confusion in the absence of accurate statistics. The CDC

In the meantime, the US taxpayer's dollar continues to fund insurgents to protect American troops so they can fight insurgents.

acknowledged that the figures being collected on "confirmed and probable cases" contained no separation between "confirmed" and "probable". In fact, only a small percentage of the reported cases were "confirmed" by laboratory tests. This faulty data—and much more like it from around the globe—was given to the WHO, which in turn used the numbers to justify a pandemic.

The need for a perfected method of diagnosing and counting infected people was demonstrated when the WHO's "data" caused a wave of inaccurate conclusions as to the severity of the flu and the distance it had spread. The inaccurate data collection exaggerated the numbers of infected people due to the CDC's quantitative model created in July 2009. From 15 April to 24 July 2009, US states reported a total of 43,771 confirmed and probable cases of novel influenza A (H1N1) infection. Of these reported cases, 5,011 people were hospitalised and 302 died.

On 24 July 2009, the CDC discontinued counts. Instead of collecting data that could have provided empirical backing for assessments of how the H1N1 virus was spreading, the CDC announced that it had developed its model to determine the true number of novel H1N1 flu cases in the United States.

The CDC further stated that "[t]he model took the number of cases reported by states and adjusted the figure to account for known sources of underestimation" such as accounting for people who had never reported their illness, despite no proof that these infected people existed. These estimates caused an inaccurate and basically made-up figure of infections. The CDC's data was then used to justify massive vaccinations, which created huge profits for the pharmaceutical industry.

12. Cuba Provided the Greatest Medical Aid to Haiti after the Earthquake

Cuba was the first to come into Haiti with medical aid when the 12 January 2010 earthquake struck. Among the many donor nations, Cuba and its medical teams have played a major role in treating Haiti's earthquake victims. Public health experts say that the Cubans were the first to set up medical facilities among the debris and to revamp hospitals immediately after the earthquake struck.

However, in reporting on the international aid effort, western media have generally not ranked Cuba high on the list of donor nations. One major international news agency's list of donor nations credited Cuba with sending over 30 doctors to Haiti, whereas the real figure stands at more than 350, including 280 young Haitian

doctors who graduated in Cuba. A combined total of 930 Cuban health professionals make Cuba's the largest medical contingent on the ground in Haiti. Another batch of 200 Cuban-trained doctors from 24 countries in Africa and Latin America, and a dozen American doctors who graduated from medical schools in Havana, went to Haiti to provide reinforcement to existing Cuban medical teams. By comparison, the internationally renowned Médecins Sans Frontières (MSF, or Doctors without Borders) has approximately 269 health professionals working in Haiti. MSF is much better funded and has far more extensive medical supplies than the Cuban team.

The media have ignored not just the Cuban contribution but also the efforts made by other Latin American countries. Brazil is providing \$70 million in funding for 10 urgent care units, 50 mobile units for emergency care, a laboratory and a hospital, among other health services. Venezuela has cancelled all of

Haiti's debt and has promised to supply oil, free of charge, until the country has recovered from the disaster.

Western NGOs employ media officers to ensure that the world knows what they are doing. The western media have grown accustomed to dealing with such NGOs, enabling a relationship of mutual assistance to develop. Cuban medical teams, however, are outside this

predominantly western humanitarian-media loop and are therefore only likely to receive attention from Latin American media and Spanish-language broadcasters and print media.

13. Obama Cuts Domestic Spending and Increases Military Corporate Welfare

President Obama's decision to increase military spending this year and in the future will result in the greatest administrative military spending since World War II. This decision is being made in spite of continued evidence of extreme waste, fraud, abuse and corporate welfare in the military budget. At the same time, spending on "non-security" domestic programs such as education, nutrition, energy and transportation will be frozen, resulting in inflationary cuts to essential services for the US public over the upcoming years. While these domestic programs constitute only 17 per cent of the total federal spending, they will sustain all of the proposed cuts.

The public never hears about war spending in the corporate media and how much everything actually costs. Several examples highlight the extent of abuse.

A single future weapons system is now estimated to cost the American taxpayer almost one-third of what the

The CDC's data was then used to justify massive vaccinations, which created huge profits for the pharmaceutical industry.

Obama administration's health care plan is expected to cost over a decade. Originally expected to cost \$50 million, the estimated cost today just for one F-35 aircraft is \$113 million. The Marines, the Air Force and the Navy are planning to buy a combined 2,450 F-35s, which would cost more than \$323 billion.

President Obama is continuing the process of reinflating the Pentagon that began in late 1998—fully three years before the 9/11 attacks. The rise in national defense spending since 1998 is as large as the Kennedy–Johnson surge (43 per cent) and the Reagan increases (57 per cent) put together. The radical increase in military spending now, compared to the Cold War and World War II, is justified by the wars in Iraq and Afghanistan. However, even if today's wars are taken out of the picture, there has still been a 54 per cent increase since 1998.

The taxpayer, forced to pay about one trillion dollars yearly to fund the military, national security infrastructure and wars, remains ignorant of the real costs. Reasons for the lack of public knowledge about military spending include: lack of corporate media coverage altogether; media employing retired military officers as "experts", thus presenting only one side; inculcated civilian deference toward military leaders (leave it to the experts in uniform); and secrecy and "black budgets" obscuring military spending.

Among the questions journalist William J. Astore poses about the US military, a key one is: why is the military immune from the painful budgetary belt-tightening faced by the rest of America?

14. Increased Tensions with Unresolved 9/11 Issues

Several contentious issues still plague the US government and its version of the events of 11 September 2001. Nearly 10 years after the events, there are still many unanswered questions. How did Building 7 fall? What caused the destruction of the twin towers? Where is Osama bin Laden? Are people who question the official story of 9/11 dangerous conspiracy theorists?

The academics and intellectuals who have tried to answer these questions have been ignored or derided by corporate mainstream (and even some progressive leftist) media, political pundits and government officials who clearly intend to silence the so-called 9/11 Truth Movement or anyone who questions the officially sanctioned government stance on the matter. As of

spring 2010, over 1,200 architects and engineers are calling for a new investigation into the events of 9/11. These building professionals and academics are motivated by the fact that the 9/11 *Commission Report* has been proven erroneous on multiple counts, scientific explanations have been flawed and contradictory, and the American people deserve a more fact-based explanation.

At the same time, new evidence of explosives that can be used in controlled demolition has been found in the dust traces of the World Trade Center (WTC) towers and Building 7 of the WTC complex. After careful examination of the official story about 9/11 (in which the

commission never even mentioned Building 7), along with the forensic data omitted from official reports, these professionals have concluded that a new, independent and transparent investigation into these massive and mysterious structural failures is needed.

In other ongoing tension concerning 9/11 on the home front, President Obama's appointee to head the Office of Information and Regulatory Affairs, Harvard law professor Cass Sunstein, claims that the US government should infiltrate and discredit activist groups, including those who challenge the official views of the 9/11 attacks—the so-called 9/11 "truthers". He believes that groups that question the events of 9/11 are dangerous and could lead some people to violence, but presents no concrete evidence to prove this. Sunstein's call for infiltration of private citizen groups plays to the very concerns of many 9/11 activists—concerns that they may be targeted or infiltrated, or tried

on some trumped-up terrorist or criminal charges and then may not get a fair public hearing.

15. Bhopal Water Still Toxic 25 Years After Gas Leak

Around midnight on 2 December 1984, the citizens of Bhopal, a city of over 500,000 people in central India, were poisoned by approximately 40 tons of toxic gases pouring into the night air from a largely abandoned chemical insecticide plant owned by the US-owned Union Carbide Corporation (UCC). The long-predicted gas leak at UCC was, and remains today, the worst industrial disaster in history.

Released by faulty and neglected equipment, methyl isocyanate, phosgene and other highly toxic gases killed an estimated 8,000 people immediately. The death toll

**At the same time,
new evidence of
explosives that
can be used in
controlled
demolition has
been found in the
dust traces of the
World Trade
Center (WTC)
towers and
Building 7 of the
WTC complex.**

attributed to "that night" in the following weeks and months eventually rose to 20,000 people. Hundreds of thousands of others were harmed, in many cases permanently, with lung, liver, kidney and immune system damages and blindness. The Indian Council of Medical Research concluded that over 520,000 exposed persons had poisons circulating in their bloodstream, causing different degrees of damage to almost all systems in the body.

The 1984 disaster may have faded in the world's memory, but, in Bhopal, the damaged births continue today. The very same factory that spewed out poison gas has been leaking deadly chemicals into the drinking water of about 30,000 people. In affected communities there are epidemics of kidney disease and cancer, with hundreds of damaged children.

Indra Sinha, a Booker Prize nominee for his book on the Bhopal disaster, *Animal's People*, explained why the gas leak is still a national scandal: "After the night of horror, the factory was locked up. Thousands of tons of pesticides and waste remained inside. UCC never bothered to clean it. The chemicals were abandoned in warehouses open to wind and rain. Twenty-four monsoons have rusted and rotted the death factory. The rains wash the poisons deep into the soil. They enter the groundwater and seep into wells and bore pipes. They gush from taps and enter people's bodies. They burn stomachs, corrode skin, damage organs and flow into wombs where they go to work on the unborn. If babies make it into the world alive, the poisons are waiting in their mothers' milk."

A Greenpeace survey found substantial and, in some locations, severe contamination of land and water supplies with heavy metals and chlorinated chemicals.

Overall contamination of the site and immediate surrounds is due both to routine spills and accidents during the operation of the factory and to the continued releases of chemicals from the toxic wastes that remain on site.

16. Universal Jurisdiction on Crimes Against Humanity Dies in Spain

In October 2009, under great pressure from the United States, the government of Spain decided to limit its own jurisdiction in cases of genocide and crimes against humanity, thus closing one of the last windows of accountability for the most serious crimes committed by the most powerful nations on Earth. Under international law, such crimes fall under the universal jurisdiction of any nation, whether its own citizens are

victims or not. The logic is that crimes against humanity are offences against every member of the human species—a crime against all.

Spain had been a venue for bringing high crimes charges against human rights violators in Guatemala, Argentina, China, Israel and elsewhere. Most of the lawsuits have been against individuals linked to the untouchable political right, such as Chile's Augusto Pinochet, the Argentinian military officer Adolfo Scilingo, former US Secretary of State Henry Kissinger, Italian Prime Minister Silvio Berlusconi, former Israeli Prime Minister Ariel Sharon and six of his senior advisers and, most recently, former George W. Bush administration officials.

Calls to rein in the judges increased when Spanish magistrates announced probes involving Israel and the United States. In January 2009, Spanish National Court Judge Fernando Andreu announced that he would

...Spain decided to limit its own jurisdiction in cases of genocide and crimes against humanity, thus closing one of the last windows of accountability...

investigate seven current or former Israeli officials over a 2002 air attack in Gaza that killed a top member of Hamas and 14 other people. In March 2009, Baltasar Garzón, Spain's most high-profile judge, invoked the principle of universal jurisdiction when he sought to investigate six former Bush administration officials for giving legal cover to torture in the American prison at Guantánamo Bay, Cuba. And

in May 2009, Spanish High Court Judge Santiago Pedraz declared that he would charge three US soldiers with crimes against humanity for the April 2003 deaths of a Spanish television cameraman and a Ukrainian journalist. The men were killed when a US tank crew shelled their Baghdad hotel.

17. Nanotech Particles Pose Serious DNA Risks

Personal products that you may use daily—cosmetics, suntan lotion, socks and sports clothes—and think are harmless may all contain atom-sized nanotech particles, some of which have been shown to sicken and kill workers in plants using nanotechnology. Known human health risks include severe and permanent lung damage. Cell studies indicate genetic damage. Extremely toxic to aquatic wildlife, nanoparticles pose clear risks to many species and threaten the global food chain.

Nanotech particles have been embraced by industry as the wonder ingredient in personal hygiene products, food packaging, paints, medical procedures and pharmaceuticals, even tyres and auto parts, among burgeoning numbers of other consumer products. Cosmetic companies add titanium dioxide nanoparticles to sun creams to make them transparent on the skin. Sports clothing firms have introduced

odour-free garments containing nanosilver particles that are twice as toxic to bacteria than bleach. Auto industry companies have added carbon nanofibres to tyres and body panels to strengthen them.

According to the Project on Emerging Nanotechnologies (PEN), health and fitness items continue to dominate available nanotech products, representing 60 per cent of products listed. More products are based on nanoscale silver—used for its antimicrobial properties—than any other nanomaterial; 259 products (26 per cent) use silver nanoparticles. PEN's updated inventory represents products from over 24 countries, including the US, China, Canada and Germany.

Over 1,000 consumer products made with nanoparticles, which can be 100 times smaller than a virus, are already on the market, despite an almost complete lack of knowledge of the dangers they pose to human health and the environment. And while these atomic-sized particles may be beneficial in certain medical applications, scientists and environmentalists are calling for more studies. Until now, few adverse effects have been found for this virtually unregulated technology. Yet, that may simply be due to the relatively few studies that have been done in the rush to find ever more and profitable nanotech applications.

Nanotechnology, the science of the extremely tiny, is an important emerging industry with a projected annual market of around one trillion US dollars by 2015. It involves manipulating or building new materials from atoms and molecules. Silver and carbon are now the most important building blocks. The tiny-sized materials often have unique properties that differ from those of their larger-scaled versions.

In a new British study, researchers discovered an unforeseen process, dubbed "toxic gossip", by which metal nanoparticles inflict genetic damage to DNA, even through walls of tissue that were not physically breached. Researchers called the finding "a huge surprise", particularly since the billionth-of-a-metre-scale particles appear to have wreaked their havoc indirectly.

Now, for the first time, a scientific study has established a clear and causal relationship between human contact with nanoparticles and serious health damage. According to an article in the *European Respiratory Journal*, by a group of Chinese researchers

headed by Yuguo Song from the Department of Occupational Medicine and Clinical Toxicology at the Beijing Chaoyang Hospital, seven young female workers fell seriously ill after working in a paint factory that used nanotechnology. The workers suffered severe and permanent lung damage, and face and arm eruptions. Two of them died, while the other five have not improved after several years.

Around 500 studies have shown nanotechnology toxicity in animal studies, in human cells and in the environment. Although Song's article finds evidence of clinical toxicity in human beings for the first time, this finding could be only the tip of the iceberg of an extremely risky industry.

...researchers discovered an unforeseen process, dubbed "toxic gossip", by which metal nanoparticles inflict genetic damage to DNA, even through walls of tissue that were not physically breached.

18. The True Cost of Chevron

Chevron's 2008 annual report to its shareholders is a glossy celebration heralding the company's most profitable year in its history. Profits of \$24 billion catapulted Chevron past General Electric to become the second most profitable corporation in the United States. The oil company's 2007 revenues were larger than the gross domestic product of 150 nations.

What Chevron's annual report does not reveal is the true cost paid for those financial returns: lives lost, wars fought, communities destroyed, environments decimated, livelihoods ruined and political voices silenced. Nor does it describe the global resistance movement gaining voice and strength against these operations.

Thus the communities and their allies, who bear the consequences of Chevron's oil and natural gas production, refineries, depots, pipelines, exploration, offshore drilling rigs, coal fields, chemical plants, political control, consumer abuse, false promises and much more, have prepared an alternative annual report for Chevron. It reveals the true impact of just a handful of Chevron's operations in the US in communities across Alaska, California, Colorado, the District of Columbia, Florida, the Gulf Coast, Mississippi, New Jersey, New York, Utah and Wyoming; and internationally across Angola, Burma, Canada, Chad, Cameroon, Ecuador, Iraq, Kazakhstan, Nigeria and the Philippines. These accounts are demonstrative, not inclusive. We would need 100 reports to document all such impacts. These accounts include active lawsuits against the company from around the world, totalling in the tens of billions

of dollars, which threaten its vaulted financial gains—for when a company operates in blatant disregard for the health, security, livelihood, safety and environment of the communities within which it operates, there can be real financial repercussions.

Chevron buys political influence and control at the local and national levels at each of its operational sites in order to circumvent or trump laws that would protect people and environments from the company's destructive practices.

This alternative report shows Chevron's pattern of hiring harsh military "protection" against local residents, evidenced in Iraq, the Niger Delta, Chad, Cameroon, Angola and Burma, where massive increases in military presence and widespread abuses of human rights—including forced labour, murder, rape, forced relocation of villages and more—are ongoing against communities living in and around Chevron projects.

19. Obama Administration Assures World Bank and IMF of a Free Rein of Abuse

The World Trade Organization (WTO) has an agreement called the Financial Services Agreement that explicitly applies to over 100 countries and mandates major deregulation. For instance, it has a rule that you cannot have a domestic law that limits the size of a financial service firm—insurance, banking, securities—even if it applies

equally to foreign and domestic companies. So while everyone talks about putting into place rules regarding being "too big to fail", there is a WTO dictate that forbids such regulation. In short, these binding WTO rules require countries to maintain the same policies that led to the financial crisis. This agreement was never brought to a vote in any Congress.

Jesse Griffiths, coordinator of the London-based Bretton Woods Project, said: "The ideology of the IMF and World Bank has failed and the accompanying structures have failed." He added: "In addition to the current enormous economic instability, the system has failed to create equity and eradicate poverty; it has failed to ensure that human rights are protected, and it has failed to address environmental issues."

The failures of these global entities have not prevented President Obama from allowing their relatively free rein in relation to the US government. In June 2009, President Obama used his sixth signing statement to negate provisions of US legislation that would have compelled the World Bank to strengthen labour and environmental standards. When signing the

\$106 billion war-spending bill into law, Obama included a five-paragraph signing statement with the bill in which he also refused to require the Department of Treasury to report to Congress on the activities of the World Bank and the International Monetary Fund (IMF). The sections rejected by Obama would have required his administration to direct its World Bank representatives to pressure that institution into using metrics that "fairly represent the value of internationally recognized workers'" rights. Organised labour groups had pushed for a revision of those standards.

Another section rejected by Obama would have pushed the World Bank to account for the cost of greenhouse gas in pricing projects and to disclose operating budgets more fully. Yet another section rejected by Obama would have required Treasury Secretary Tim Geithner to develop a report with the heads of the World Bank and IMF, "detailing the steps taken to coordinate the activities of the World Bank and

the Fund" to eliminate overlap between the two.

20. Obama's Charter School Policies Spread Segregation and Undermine Unions

Charter schools continue to stratify students by race, class and sometimes language, and are more racially isolated than traditional public schools in virtually every state and large metropolitan area in the US.

Charter schools are often marketed as incubators of

educational innovation, and they form a key feature of the Obama administration's school reform agenda. But in some urban communities, they may be fuelling *de facto* school segregation and undermining public education.

In many charter schools, 90 to 100 per cent of the population are minority students, close to twice the rate of traditional public schools. But even a charter school with a social mission of promoting economic and racial equity still runs up against the limits posed by selectivity and exclusion.

Obama's national education policy supports the expansion of charter schools to undermine public education and schoolteacher labour unions. Obama wants to tie teachers' pay to student performance, which would be measured through test scores. Merit pay based on performance is strongly opposed by teachers' unions nationwide. Teachers want equal pay for equal work, and assurances that funding for low-income schools will be fair. Charters are known for resisting teacher unions, which means that they drive segregation not only in the student population but in the school workforce as well.

So while everyone talks about putting into place rules regarding being "too big to fail", there is a WTO dictate that forbids such regulation.

The American public is now witnessing the wholesale privatisation of education, as cities, municipalities and states are suffering from budget woes caused by the pillage and social failures of financial monopoly capitalism and its devastating policies that are intent on privatising everything public, from schools to the military, to health care, to public housing.

21. Western Lifestyle Continues Environmental Footprint

Speaking in advance of the climate summit in Copenhagen, Rajendra Pachauri, chair of the UN's Intergovernmental Panel on Climate Change, warned that western society must enact radical changes and reform measures if it is to avoid the worst effects of climate change. Pachauri told the *Observer* that western society urgently needs to develop a new value system of "sustainable consumption".

Pachauri offered a wide-ranging proposal—including legal requirements, economic disincentives and government subsidies—to lead western society toward a more sustainable future. His proposal also includes measures to regulate travel by land and air. For instance, Pachauri argues that automobile travel could be "curbed" through pricing schemes that discourage the use of private transportation. Likewise, Pachauri suggests that governments tax air travel to encourage citizens to travel by rail, which is significantly lower in cost and environmental impact.

Travel and tourism are but one feature of an increasingly unsustainable Western lifestyle. As the Internet becomes an indispensable feature of modern life, the costs and environmental impact associated with its usage are on the rise. According to recent estimates, there are over 1.5 billion people online around the world. As a result, the Internet's energy footprint is growing at a rate of more than 10 per cent each year. As the Internet's appetite for electricity grows, companies like Google are having a hard time managing the costs associated with delivering web pages, video, audio and data files. This situation not only threatens the bottom line of web firms, but may compromise the long-term viability of the Internet. According to Subodh Bapat, vice president of Sun Microsystems, "[i]n an energy-constrained world, we cannot continue to grow the footprint of the Internet ... we need to rein in the energy consumption".

22. 1.2 Billion Indians to be Given Biometric ID Cards

India's 1.2 billion citizens are to be issued biometric identification cards. The cards will hold the person's name, age and birth date, as well as fingerprints or iris scans, though no caste or religious identification. Within the next five years, a giant computer will hold the personal details of at least 600 million citizens—making this new information technology system the largest in the world. The project will cost an estimated \$3.5 billion. The 600 million Indians will receive a 16-digit identity number by 2014 in the project's first phase.

India's red tape is legendary: citizens have dozens of types of identity verification, ranging from electoral rolls to ration cards, yet almost none can be used universally.

Forty-two per cent of India's population is below the poverty line, and citizens frequently move in search of jobs. The government believes the ID system will help citizens because they will no longer have a problem identifying themselves.

The biometric identity number will be entered every time someone accesses services from government departments, driver's licence offices and hospitals as well as insurance, credit card, telecom and banking companies. By bringing more people into the banking system,

Indian officials also hope to raise the number of people paying income tax; currently, less than five per cent of the population pays income tax.

The government also plans to use the database to monitor bank transactions, cellphone purchases and the movements of individuals and groups suspected of fomenting terrorism.

Civil liberty campaigners fear the ID card will become a tool of repression. Nandita Haksar, a human rights lawyer, said: "There is already no accountability in regards to violations of human and civil rights. In this atmosphere, what are the oversight mechanisms for this kind of surveillance?"

23. Afghanistan War: Largest Military Coalition in History

The North Atlantic Treaty Organization (NATO) has become history's first global army. Never before have soldiers from so many states served in the same war theatre, much less in the same country. At the eighth anniversary of the US invasion of Afghanistan, the world is witness to a 21st-century armed conflict waged by the largest military coalition in history.

With recent announcements that troops from such

The North Atlantic Treaty Organization (NATO) has become history's first global army. Never before have soldiers from so many states served in the same war theatre, much less in the same country.

diverse nations as Colombia, Mongolia, Armenia, Japan, South Korea, Ukraine and Montenegro are to join those of some 45 other countries serving under the command of the NATO-led International Security Assistance Force, there will soon be military personnel from 50 nations and five continents serving under a unified command structure.

NATO's 50th anniversary summit in Washington, DC, in 1999 welcomed the first expansion of the world's only military bloc in the post-Cold War era, absorbing former Warsaw Pact members such as the Czech Republic, Hungary and Poland. Two years later, after the 9/11 attacks in New York City and Washington, DC, NATO activated Article 5—in which the "[p]arties agree that an armed attack against one or more of them in Europe or North America shall be considered an attack against them all".

The main purpose of invoking NATO's mutual military assistance clause was to rally the then 19-member military bloc for the invasion and occupation of Afghanistan and the stationing of troops, warplanes and bases throughout South and Central Asia. Flyover rights were also arranged with Kazakhstan and Turkmenistan, and newly acquired airbases in Bulgaria and Romania have since been used for the transit of troops and weapons to the Afghan war zone.

The Afghanistan war is no ordinary war. The only beneficiary of this conflagration is a rapidly emerging global NATO.

24. War Crimes of General Stanley McChrystal

A little more than a year before he was fired on 23 June 2010 for making potentially insubordinate remarks in a *Rolling Stone* profile, General Stanley McChrystal was appointed by President Barack Obama as Commander in charge of the war in Afghanistan. He had been formerly in charge of the Joint Special Operations Command (JSOC) headed by former Vice President Dick Cheney. Most of what General McChrystal has done over a 33-year career remains classified, including service between 2003 and 2008 as Commander of JSOC, a special black operations commando unit of the Navy SEALs and Delta Force so clandestine that the Pentagon for years refused to acknowledge its existence.

Pulitzer Prize-winning journalist Seymour Hersh claims that the Bush administration ran an executive assassination ring that reported directly to former Vice President Dick Cheney, and that Congress had no oversight of it whatsoever. The JSOC team would go into countries without talking to the ambassador or the CIA

station chief, find people on a to-be-killed list, execute them and leave. There was an ongoing list of targeted people, cleared by Vice President Cheney's office, who had committed acts of war or were suspected of planning operations of war against the United States.

JSOC was also involved in war crimes, including the torture of prisoners in secret "ghost" detention sites. Camp Nama in Iraq was one such "ghost" facility hidden from the International Committee of the Red Cross, the international body charged under international law with monitoring compliance with the Geneva Conventions and given the right to inspect all facilities where people are detained in a country that is at war or under military occupation.

On 22 July 2006, Human Rights Watch issued a report, titled "No Blood, No Foul", about American torture practices at three facilities in Iraq. One of them was

Camp Nama, accused of some of the worst acts of torture and operated by JSOC under the direction of McChrystal. McChrystal, then a Major General, was officially based at Fort Bragg in North Carolina.

25. Prisoners Still Brutalised at "Gitmo"

In Guantánamo Bay, Cuba, the notorious but seldom-discussed thug squad, officially known as the Immediate Reaction Force

(IRF), deployed by the US military, remains very much active. Inside the walls of Guantánamo, the prisoners know the squad as the Extreme Repression Force. In reality, IRF is an extrajudicial terror squad, the existence of which has been documented since the early days of Guantánamo. IRF has rarely been mentioned in the United States media or in congressional inquiries into torture.

On 22 January 2009, newly inaugurated President Obama issued an executive order requiring the closure of Guantánamo within a year, and also ordered a review of the status of the prisoners held there, requiring "humane standards of confinement" in accordance with the Geneva Conventions.

One month later, the Center for Constitutional Rights (CCR) released a report titled "Conditions of Confinement at Guantánamo: Still in Violation of the Law", which found that abuses continued. In fact, one Guantánamo lawyer, Ahmed Ghappour, said that his clients were reporting "a ramping up in abuse" since Obama was elected, including "beatings, the dislocation of limbs, spraying of pepper spray into closed cells, applying pepper spray to toilet paper and over-force-feeding detainees who are on hunger strike." The CCR has called on the Obama administration to end the use of the IRF teams at Guantánamo immediately. ∞

The JSOC team would go into countries without talking to the ambassador or the CIA station chief, find people on a to-be-killed list, execute them and leave.

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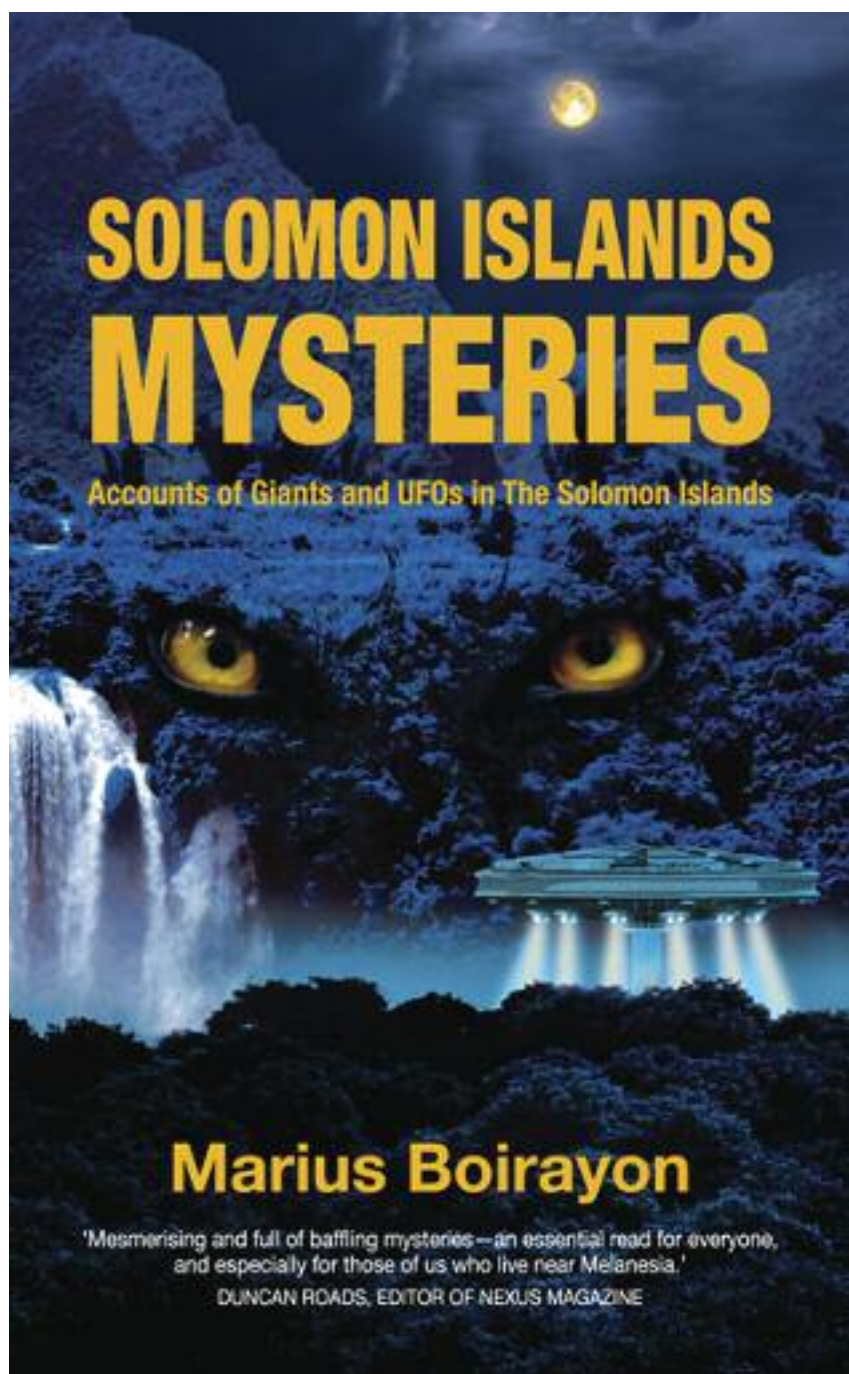
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COLONY COLLAPSE DISORDER AND GM CROPS

The Bt Cry toxins in genetically modified crops are thought to be responsible, at least in part, for impairing the immune response, memory and navigation ability of worker bees and causing them to disappear from their beehives.

by Peter Olson © 2010

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Mystery of the Disappearing Bees

Over recent years, a problem has developed with honey bees which is causing increasing loss of bees across the United States and in some other countries. Many scientists have studied the problem, but according to Cox-Foster *et al.* (2009) "no single culprit has been identified" as the cause of Colony Collapse Disorder (CCD).¹ This article will suggest that a cause for CCD can easily be identified, but that there may not be the political will to admit openly that a cause for CCD has been found. Simply put, bees have an immune response to the *Bacillus thuringiensis* (Bt) toxin in genetically modified (GM) crops, and this immune response impairs the bees' memory and thus the worker bee is simply unable to find its way back to the beehive. Hence the bees disappear.

In order to make sure that one has the true cause of CCD, it is crucial to define accurately what CCD refers to. CCD does not refer to something that is killing large numbers of bees, so that one finds many thousands of dead bees, either in the hive or immediately outside the hive. That is not CCD. Instead, as Wikipedia states, in CCD the "worker bees from a beehive or European honey bee colony abruptly disappear".² This disappearance of the worker bees, rather than the observation of a large number of dead bees, is what largely distinguishes CCD from the many well-known pests and diseases of bees. For example, *Varroa* mite infestation can kill bees so quickly that "thousands of dead bees will pile in front of the hive".³ Thus, although *Varroa* mite infestation is a very serious disease of honeybees, its symptoms clearly do not match the specific symptoms observed in CCD: the abrupt disappearance of the worker bees.

In the case of the viruses and pathogens that have been suggested as causes of CCD, these usually result in large numbers of dead bees either inside or outside of the beehive. Dead bees are found outside the hive because worker bees carry the dead bees outside. Over the years, many different things have been suggested as the cause of CCD. Bees are susceptible not only to many different pests and diseases but also to a wide variety of chemical sprays used in agriculture. Virtually anyone can name something that can kill large numbers of bees. Here we are interested in what makes the bees disappear, not in what kills them.

The story becomes more intriguing, as colony collapse disorder was originally called Autumn Collapse or Fall Dwindle Disease.⁴ Autumn collapse and fall dwindle refer to the fact that the disappearance of the worker bees was clearly observed to occur in the autumn/fall season and was not something that happened at any random time during the year. This specific timing of CCD gives us a second specific criterion which can be used to distinguish CCD from the many other events which harm bees. When we find a cause for CCD, it should be able to explain why the disease has a history of occurring at a specific time of the year: autumn.

Bee scientists looking for the cause of CCD have concentrated on dissecting bees in the hope of finding a pathogen that they are well familiar with and to which they can attribute blame for the recent large-scale disappearance of worker bees. While it is necessary to have a number of investigators looking with a very narrow focus for specific viruses, bacteria and parasites that may be the cause of the problem, it is also necessary to look with unblinkered vision and consider a very wide range of possibilities for causes of CCD.

When enquiring about the disappearance of worker bees from the beehive, it is important to investigate the lifestyle and habits of the bee. In doing so, one quickly discovers that the bee is a very highly specialised and adapted insect. Bees, like many other creatures, have developed a number of unique and highly complex behaviours and abilities that are essential to their survival. How would an eagle survive if it were blind?

How would a bat function without its radar? Bees have the adaptive advantage of specialised cognitive abilities which are essential for their survival: the abilities to remember where a certain flower is located and what it smells like,⁵ to navigate back to the hive and to calculate how far it can fly with the amount of honey fuel it is carrying.

Just as the captain of a plane calculates how much fuel to carry in order to complete a journey, so it is that the bee also calculates how much honey fuel to carry to complete its journey. If the bee encounters unexpected head-winds and runs out of honey fuel, the result is similar to if a plane runs out of fuel. The bee can land if it runs out of fuel, but it can no longer complete the journey back to the hive and it will soon be carried away by hungry ants. Impairing the specialised cognitive processes of bees would be like impairing the specialised eyesight of eagles.

Having knowledge of the habits and lifestyle of the bee dramatically changes our perception of what may be causing the bees to disappear. Part of the problem is that entomologists who examine bees are always looking specifically for the presence of fungi, viruses or bacteria as the cause for CCD. They don't look for an interaction between any pathogen that they discover and the specialised lifestyle of the bee that might result in indirect mortality to bees. They simply look for something that is directly lethal to bees.

Immune Response, Cognition and Bt Cry Toxins

Have you ever noticed that when you are sick, you can't think quite so quickly and clearly? The internal battle that the body is fighting somehow seems to affect

one's mental abilities. As it happens, it has recently been shown that the entire insect kingdom is even more affected by such an internal response to sickness than humans are. In 2003, a peer-reviewed article was published, titled "Immune response inhibits associative learning in insects". The authors stated that they had discovered "a link between the immune system and the nervous system in insects" and that "an immune response therefore not only affects survival of the host...but also everyday behaviour and memory formation".⁶ Thus it is very clear that if insects have an immune response, their cognitive processes such as memory formation are adversely affected—meaning that insects can't learn things or remember things when they have an immune response. Bees, of course, are insects.

Is there something new that has not been considered which could be causing an immune response in insects such as bees? Whereas plant breeding has historically

Having knowledge of the habits and lifestyle of the bee dramatically changes our perception of what may be causing the bees to disappear.

focused on producing crops with bigger and better yields, the most common traits that have been introduced into the recent genetically modified crops are herbicide resistance and insect resistance. The insect resistance feature in GM crops usually comes from the insertion of a gene for *Bacillus thuringiensis*, which is a naturally occurring, toxic, soil organism. The Bt gene in the GM crops produce what are called Cry

toxins, which are crystalline protein substances that kill some insects, like caterpillars, if they eat the GM crop. Bees, however, are resistant to Bt Cry toxins and so are not killed by GM Bt crops. Every bee scientist knows that Bt Cry toxins do not kill bees.

Why is it that bees are not killed by the Bt Cry toxins found in GM crops? An insect's resistance to Bt Cry toxins is correlated with its immune response to the Bt Cry toxins. Recent peer-reviewed studies have shown that "Cry toxin resistance may be induced in invertebrates [insects] as an active immune response".⁷ For example, in the Mediterranean flour moth, *Ephesia kuehniella*, a non-lethal response to Bt Cry toxins and "tolerance [of Bt] correlates with an elevated immune response" to the Bt toxins.⁸ For many creatures, such a simple non-lethal immune response, which protects the creature from the Bt toxins, is of little significance. However, as described above, an "immune response inhibits associative learning in insects",⁹ and bees are insects which are totally dependent upon specialised mental processes, such as navigation skills, for their survival. Thus the immune response that bees have to the Bt Cry toxins, which gives them resistance to those toxins, may be impairing the mental processes, learning and memory of bees. Like a blinded eagle, bees simply

cannot survive if their specialised learning processes are impaired by an immune response to Bt Cry toxins.

As mentioned, bees only carry just enough honey fuel to fly to the target flower, collect the pollen and then fly straight back to the beehive. They don't carry enough honey fuel to allow them to survive getting lost and spending time searching for the beehive. Sometimes a person cannot quickly find their car in a very large car park and can spend a minute or two trying to find their car. However, bees must fly directly from the flower to the beehive or they will run out of honey fuel, fall to the ground and be carried away by hungry ants. Memory impairment is not lethal to humans, but memory and learning impairments are indeed lethal to bees.

If all the worker bees experienced cognitive impairment due to an immune response to Bt Cry toxins, then they would all get lost, run out of honey fuel, fall to the ground and be carried away by hungry ants, and thus they would all suddenly disappear from the beehive. This is exactly what is observed in colony collapse disorder: "worker bees from a beehive or European honey bee colony abruptly disappear".¹⁰ As a detective would say, the GM Bt Cry toxins appear to have the means, motive and opportunity to be the cause of the CCD.

Of course, it might be that bees are somehow different to other insects and do not experience any learning impairment or cognitive malfunction as a result of an immune response to Bt Cry toxins. However, when bees were tested for learning impairment or cognitive malfunction after ingesting Bt Cry toxins, the results clearly showed that bees do indeed experience exactly the same cognitive malfunction that all insects do when they have an immune response. A study by Ramirez-Romero *et al.* showed that learning in bees is indeed impaired after exposure to Bt Cry toxins: "honey bees exposed to 5000 ppb of CryIAb had disturbed learning performances".¹¹

Perfect navigation requires perfect cognitive function. That's why car drivers are tested for alcohol consumption: the alcohol impairs their cognitive function. The *Encyclopaedia Britannica* states of CCD that it "appears to affect the adult bees' ability to navigate",¹² thus suggesting that worker bees fly out from the high hive to collect food but get lost and never return. It has been clearly demonstrated above that insects resist Bt

Cry toxins through an effective immune response, and that an immune response in insects causes cognitive impairment in those insects. It has also been specifically demonstrated that consumption of Bt Cry toxins produces cognitive impairment or disturbed learning performances in bees. Bt Cry toxins are not directly lethal to bees, just as alcohol is not directly lethal to car drivers. Nevertheless, lots of car drivers have died from sub-lethal doses of alcohol, and bees, like car drivers, die if they don't have perfect navigation.

As mentioned previously, CCD was originally called autumn collapse or fall dwindle disease. How could that relate to genetically modified crops? Beekeepers know that bees are active on sunny days in spring and summer, when all the flowers are open. But in autumn and winter there are very few flowers, so bees can't get any pollen at that time. Bees get all their protein from the pollen in flowers, so during autumn, when there are no flowers, bees experience a sudden drop in their protein intake.

Protein intake is very important for bees, for both immune response and cognitive processes. "Insects have an efficient defense system against infections. Their antibacterial immune proteins have been well characterized".¹³ Bees use protein in forming their immune response, but they also use protein to form their memories. "[I]mmune-challenged bees perform poorly in memory tests", and it has been shown that "protein levels mediate this memory reduction. The effect disappears if the bees can increase their protein intake".¹⁴ Pollen means protein for the bees, and protein for bees is like oil for an engine: it's needed to keep things working.

Studies have also shown that an "immune response reduces learning in protein-starved bumblebees" and that the "immune-induced reduction in memory only becomes apparent after the bees are deprived of pollen"¹⁵ because pollen is the only source of protein for bees. During summer, when protein from pollen is plentiful, the bees can have an immune response, which uses protein from their reserves, and still have enough protein available to form memories with, but in autumn the flowers close, the protein supply stops and then all the remaining available protein is used up in the bees' immune response to GM Bt Cry toxins.

This confirms that the situation which applies generally to insects—learning impairment or cognitive

If all the worker bees experienced cognitive impairment due to an immune response to Bt Cry toxins, then they would all get lost, run out of honey fuel, fall to the ground and be carried away by hungry ants...

malfunction as a result of an immune response¹⁶—also applies specifically but conditionally to bees—the condition being that to ensure cognitive impairment in bees, there should be a shortage of available protein, as occurs in the autumn. So we have autumn collapse or fall dwindle disease of bees, also known as colony collapse disorder.

Sub-Lethal Effects and Disease Susceptibility

It is important to note that Bt is not the only insecticide that has been shown to cause cognitive impairment in bees. In the USA, vanEngelsdorp *et al.* mentioned that neonicotinoid insecticides can produce sub-lethal effects, such as learning impairment, and that, as a result of such learning impairment, bees "may not be able to learn the location of the hive"¹⁷ and thus may be unable to navigate back to the hive.

So there is a recognised trend of learning impairment in bees, caused by insecticide exposure at a sub-lethal dose. VanEngelsdorp *et al.* clearly state that if bees are eating "pollen contaminated with these chemicals at low levels, they may not cause mortality but may impact the bee's ability to learn or make memories".¹⁸ That is very similar to the previously mentioned finding from Ramirez-Romero *et al.*, who found "disturbed learning performances" in bees after consumption of GM Bt pollen.¹⁹ So the learning impairment in bees, induced by consumption of insecticidal GM Bt pollen, can be seen as part of a larger trend for sub-lethal doses of some insecticides to produce learning impairment in bees.

The difference between neonicotinoid insecticide sprays and the Bt insecticide in genetically modified crops is that the former is very easy to restrict or recall and has even been banned in various European countries, whereas the GM Bt Cry toxins may prove impossible to recall. With genetic materials, the quantity of GM material in existence gets bigger and bigger as time passes. If problems develop with GM crops, then those problems will likely increase as time passes. For example, bans on exotic pests like fire ants do not mean that such imported pests suddenly disappear. It can be incredibly difficult to get rid of biological pests.

When trying to find the cause for CCD, scientists often discover a variety of diseases in the bees remaining in the hive. Perhaps those diseases in the bees remaining

in the hive are the real cause of colony collapse disorder. The Bt Cry toxins in GM crops are crystals of proteinaceous insecticidal endotoxins, whose mode of action is to form a pore or make a hole in the insect's gut cell membranes.²⁰ While investigating CCD in the USA, Cox-Foster *et al.* noted that their bee autopsies found symptoms never observed before: scar tissue in the internal organs.²¹ Perhaps these internal scars are the result of non-lethal damage to the bee's gut, caused by the pore-forming Bt Cry toxins.

Wikipedia describes leaky gut syndrome as "a condition of altered or damaged bowel lining, caused by toxins...which has led to increased permeability of the gut wall to substances which normally remain isolated".²²

German research has shown that bees which were fed Bt became greatly more susceptible to a subsequent disease challenge. The University of Jena study showed that mortality in bees exposed to a parasite was far greater in bees that had previously been fed Bt, compared to bees that were not previously fed Bt²³—meaning that Bt increased the susceptibility of bees to the pathogen and thus Bt multiplied the mortality caused by the pathogen. AIDS is known to increase mortality from pathogens in humans. In regard to the increased mortality, the German study authors concluded: "[T]he significant differences indicate an interaction of toxin and pathogen on the epithelial cells of the honeybee intestine. The underlying mechanism which causes this effect is unknown".²⁴ Could it be that the Bt Cry toxin makes a non-lethal hole in the bee's gut lining, which then allows a pathogen to gain entry, as described above in leaky gut syndrome?

Cox-Foster *et al.* said of the CCD bee colonies that they studied: "[W]e hypothesized that something had compromised the bees' immune system, making them susceptible to any number of infections that healthy colonies would normally fend off".²⁵ VanEngelsdorp *et al.* noted that during the autopsies "when wet mounts were examined they appeared to have crystalline arrays" and that "[c]rystal-like formations were observed in the thorax".²⁶ Bt Cry toxins are crystalline.

Cox-Foster *et al.* did consider the possibility that bees with CCD may have been poisoned by pollen from genetically modified crops. However, these CCD Working Group members simply referred to earlier research showing that the Bt toxin is only activated in

So the learning impairment in bees, induced by consumption of insecticidal GM Bt pollen, can be seen as part of a larger trend for sub-lethal doses of some insecticides to produce learning impairment in bees.

certain insects and, in contrast to the findings of the University of Jena trials above, Cox-Foster *et al.* stated that "the digestive tracts of honeybees and of many other insects do not allow Bt to work".²⁷ Thus, because of prior research showing that bees are not directly killed by Bt, many bee scientists have avoided testing Bt on bees for sub-lethal, behaviour-altering effects and have quickly ruled out GM Bt as a possible cause of CCD.

An Indirect Cause of Colony Collapse Disorder?

Scientists looking for a cause for CCD have looked for a *direct* cause, something such as a virus or a parasite that is directly killing the bees. The *New York Times* recently reported that the cause of CCD has finally been discovered: the combination of a parasite and a virus.²⁸ The article failed to mention that the lead author of the described study had been the recipient of a significant research grant from Bayer Crop Science and that he is the "CEO of the company developing scanners to diagnose bee diseases" and thus "could benefit financially" as a result of the findings.²⁹

Bee scientists have a tendency simply to look for diseases in the surviving bees. No lateral thinking is involved. No consideration is given to impairment of the specialised cognitive functions of the bee, such as its navigation ability which is necessary to prevent the worker bee from getting lost in the field. There is a big difference between asking "What is killing all the bees?" and asking "Why are all the bees getting lost?"

This is not the first time that a cause for CCD has been named. Previously, a virus originating in Australia was said to be the cause, even though CCD does not exist in

Australia, and at one time a virus from Israel was blamed.

Research is again currently underway in Europe to confirm increased mortality from a parasite combined with GM Bt Cry toxins, as was originally discovered in the Jena University study.³⁰ If the GM Bt Cry toxins make holes in the bees' gut and if increased susceptibility to a pathogen is shown to be a result of such Bt Cry toxin-pathogen interaction, then simply naming the pathogen without acknowledging the synergy of the combination or the effect on cognitive processes of the bee will not lead to a solution for the problem of colony

collapse disorder. Meanwhile, the worker bees fly out of the beehive and then fail to return.

Science does not work by simply connecting the dots. Science works by the gradual acceptance by larger and larger numbers of scientists over a period of time that a concept is proven. When the starting point is that all the bee scientists in the world have read that Bt Cry toxins do not kill bees, then it is a substantial uphill battle to change the

minds of those scientists gradually. When politics and big business are also involved, then the situation can be difficult to change. Few people realise the extent to which the world's ecology is dependent on the humble bee. ∞

Research is again currently underway in Europe to confirm increased mortality from a parasite combined with GM Bt Cry toxins...

About the Author:

Peter Olson is an Australian researcher who began beekeeping in the 1970s and has spent a number of years reading journal articles to find the cause of Colony Collapse Disorder of bees. His article "The Medical Benefits of Beta-1,3,d-Glucan" was published in NEXUS 8/02. He can be emailed at beeccd@yahoo.com.

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Porphyria: A Cause of Chronic Illnesses

Twenty per cent of mankind may have a genetic defect that is activated after many kinds of toxic exposure, and often results in chronic degenerative diseases or allergy-like illnesses including Alzheimer's, chronic fatigue, fibromyalgia, hypoglycaemia and multiple chemical sensitivity.

by Steven Rochlitz, PhD
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Could the ultimate cause of your chronic, or environmental, illness be a "rare" disease for which 20 per cent of mankind may actually have a predisposition? Many people have a chronic illness, or an environmental illness, for which no one seems to have an answer. Modern man is plagued with chronic fatigue or wasting diseases (chronic fatigue syndrome [CFS], myalgic encephalomyelitis [ME], fibromyalgia), allergy-like disorders (to foods, chemicals, electromagnetic fields [EMF]), pain and inflammatory diseases, "mental" illnesses, and degenerative diseases in older people. Sufferers of these disorders usually first go to orthodox physicians and then to alternative practitioners. Often, no cure or relief is found.

Could the answer lie in a little-known metabolic disorder that is mistakenly said to be very rare? Could this little-known metabolic disease be the hidden cause of at least some cases of CFS, ME, fibromyalgia, Alzheimer's disease, hypoglycaemia, asthma, ulcers, autism, premenstrual syndrome (PMS), adrenal or thyroid disease, anxiety or panic disorders, depression, schizophrenia, epilepsy, and the explosion of intolerance to environmental chemicals and foods? We will see that one clue is to ask if you have a history of poor tolerance for caffeine, alcohol, medications, stress, certain foods (including citrus, tomato, spices), monosodium glutamate (MSG), sunlight, heat, even vitamin and mineral supplements?

This hidden metabolic disorder is called Porphyria (pronounced like "poor-fear-ee-uh"). Porphyria is derived from the Greek word for purple. It is actually a set of eight metabolic disorders, whereby the body does not properly make a protein called haem (or heme). Instead, excess compounds called porphyrins—some of which are purple—result. These act as internal toxins. They accumulate in, or go to and adversely affect, the cells and organs in which they build up. Now, you already know one haem protein: haemoglobin, which transports oxygen as part of our red blood cells. Haem is nearly identical to chlorophyll, with the exception that it has iron in the centre of its four porphyrin ring compounds while chlorophyll has magnesium in its centre (figure 1). Thus haemoglobin is red, while chlorophyll is green.

Porphyria was known, even to Hippocrates in ancient Greece, as a blood and liver disease. By 1871, the causal role of the purple pigments—porphyrins—in porphyria was stated. The clinical syndrome was detailed in 1889, a date which coincides with the near epidemic in Europe of porphyria induced by the drug sulphonal. Some experts claim that, between 1888 and 1890, as many as 14 per cent of those people in Europe who took this anti-insomnia, sulphur-containing drug had porphyria reactions to it!—thus indicating, even, over a hundred years ago, that porphyria is *not* a rare disease; rather, a significant percentage of humanity may have the genetic defect, or predisposition, to develop porphyria after a toxic exposure.

There are at least nine different haem proteins in the body. Besides

haemoglobin, a crucial set of haem proteins is the Cytochrome P450 enzymes. These enzymes either are deficient or are malfunctioning in the (hidden) porphyria sufferer. These crucial enzymes are mostly in the liver, but also occur in the gastrointestinal tract, kidneys, brain, adrenals, sex organs, blood vessels and skin. The cytochrome P450 enzymes metabolise many compounds, and act to detoxify many foreign compounds that get into the body. These compounds include caffeine, alcohol, toxic environmental chemicals, drugs and food components. But the cytochrome P450 enzymes also metabolise our own hormones, and may be the cause of some adrenal or thyroid diseases. They also metabolise some vitamins.

Curiously, the cytochrome P450 enzymes got their name from the observation that these protein molecules react to 450-nanometre- wavelength light, which is in the blue-indigo part of the visible spectrum. Such light can pass through most glass windows, and may induce or activate the cytochrome P450 enzymes and sicken those with underlying porphyria, causing some to need to block off all light from entering their abode. Note that in the movie *Taxi Driver* (1976), the Robert De Niro character is depicted as needing to block his windows of all light during the day, and to go out and work only at night—while he is progressively becoming more mentally unbalanced.

Another haem enzyme metabolises tryptophan, and thus some hidden porphyrics—and asthmatics—are intolerant of high-tryptophan foods (turkey, chicken, pumpkin seeds) or supplements. Nerve cells also need haem to work properly. Thus porphyria may be responsible for some cases of Alzheimer's² or Parkinson's disease—both of which are known to have a connection to environmental toxins. In the USA, about 50 per cent of people making it to their mid-eighties have some form of Alzheimer's.

In both multiple chemical sensitivity (MCS) and porphyria, it is known that the smallest amounts of chemicals can trigger severe illness. In classical porphyria, the worst possibility is such severe neurological disorganisation that respiratory collapse can result. This is rare, fortunately, and is most likely to result from a drug reaction. So, again, unnecessary use of drugs may need to be halted. Many skin or behavioural reactions to drugs may actually be porphyric reactions. Extreme, violent reactions (murder, suicide) to some anti-depressant drugs may be porphyria reactions, as such classes of drugs are known to be severe inducers of porphyria.

The eight different porphyria syndromes arise because

there are eight metabolic steps in the body's conversion of porphyrin compounds into haem. Half of the eight porphyria disorders cause complaints that include neurological (or "mental"), gastrointestinal or muscular symptoms. The other half of the porphyrias cause skin disease. People getting skin complaints from such things as drug reactions or Sun exposure may have one of the skin porphyrias.

Famous Porphyria Sufferers—Who Didn't Know...

Some very famous people are believed by medical detectives to have suffered from porphyria.³ You may have seen the movie *The Madness of King George* (1994), which depicted Britain's King George III suffering neurological and behavioural complaints. The movie's ending noted that it is now thought that he had porphyria. George's great-great-great-grandson, Prince William of Gloucester, was diagnosed with Variegated Porphyria in 1968 at the age of twenty-seven. Both this Prince William and George III were descendants of Mary, Queen of Scots, who is also now thought to have had porphyria. It may account for the so-called royal blue-blood claim, as blood, urine or stool may show different colours when a sufferer has a severe attack, especially if their sample is left in the Sun for a while (this is usually not the case).

...the hidden porphyric often does not ever completely recover after some exposures—including to heavy metals, pesticides, moulds and other toxins.

I have hypothesised that Adolf Hitler may have had porphyria. If you smoked near him, it made him sick and could cost the smoker his life. He also had abdominal pain—a supposed hallmark of porphyria. Curiously, his physicians are known to have given him glucose injections, which was once the only official treatment for porphyria. I needn't comment on his mental aberrations.

Perhaps the archetypal porphyria sufferer was Vincent van Gogh. Many now believe that his complaints arose from the following scenario. Van Gogh would paint and then get very sick. His complaints included stomach and digestion problems, anxiety, hallucinations, confusion, aggression and insomnia. Family members suffered from epilepsy, depression, kidney failure and suicide. When van Gogh felt ill after painting, he sought to ameliorate his complaints by basically stupefying himself with an alcoholic beverage containing absinthe (a form of wormwood). However, it is now known that both the alcohol and absinthe themselves cause or worsen a porphyria attack. Indeed, after drinking the alcohol/absinthe, van Gogh was often deranged. He cut off part of his ear on one occasion and gave it to a prostitute. He later killed himself, as did one of his brothers. But before he committed suicide, he was

helped several times by being taken to a sanitarium. There they did not let him paint or drink his absinthe beverage. He would recover, be released, but go back to painting. Then van Gogh would breathe in those paint chemicals, drink his alcohol/absinthe beverage and become deranged again. (MCS as a diagnosis was unknown in those days.)

Some famous people who may have suffered from porphyria—as a result of deliberate or accidental poisoning with heavy metals—include Mozart and Beethoven. The hair mineral analysis test has proven that King George III and Beethoven had been poisoned—George with arsenic, and Beethoven with lead. Chronic porphyria may often result from heavy metal poisoning. Beethoven's doctor was the same one who treated Napoleon Bonaparte, who is known to have been poisoned with arsenic.⁴

Environmental Illnesses and Food Intolerances

It is important to remember that heavy metals or other toxins can cause much illness without inducing porphyria. But the hidden porphyric often does not ever completely recover after some exposures—including to heavy metals, pesticides, moulds and other toxins. He or she may become chronically ill and/or "allergic". Mercury—such as is found in dental fillings, vaccines, fish, air and other sources—is likely the worst inducer of chronic porphyria. While mercury toxicity is well known to alternative practitioners, the fact that chronic porphyria is often induced in such patients unfortunately is not.

Van Gogh's case is also the epitome of what I call "two sides of the same coin". On one side are the environmental illnesses; on the other side is porphyria, and possibly subsequent illnesses that occur once someone's system breaks down with porphyria. The environmental illnesses include MCS, electromagnetic field sensitivity (EMFS) and near-universal food reactivity. Porphyria may also be involved in Gulf War syndrome and illnesses resulting from breast implants, 9/11 World Trade Center destruction and Agent Orange exposure.

The first to propose that MCS is linked to porphyria was the American dentist David C. Downey, DMD, whose report was published in 1992.⁵ He found that some of his patients became chronically ill and "allergic" after metal-containing dental prostheses were implanted in them and they couldn't seem to get well.

By the mid-1990s, a few medical physicians conducted studies that showed that 70 to 90 per cent of MCS sufferers had porphyrin metabolic disorders.⁶ In 1996, Dr Downey hypothesised that up to 20 per cent of mankind may have a genetic predisposition to develop some form of chronic porphyria after a toxic exposure—which would then cause the sufferer to have some permanent, chronic and/or environmental illness.⁷

More recently, other physicians have written journal articles linking hidden porphyria to fibromyalgia⁸ and to Alzheimer's disease. Still other physicians have found that chronic infections cause some people to suffer from either a worsening genetic—or an acquired—porphyria. Could many of the people who become very ill and/or

allergic after infection with Candida, viruses, Lyme disease or protozoan parasites also be suffering from porphyria? While porphyria is a genetic disorder, it can be greatly exacerbated by exposure to toxins and/or infectious agents. This may be, at least in

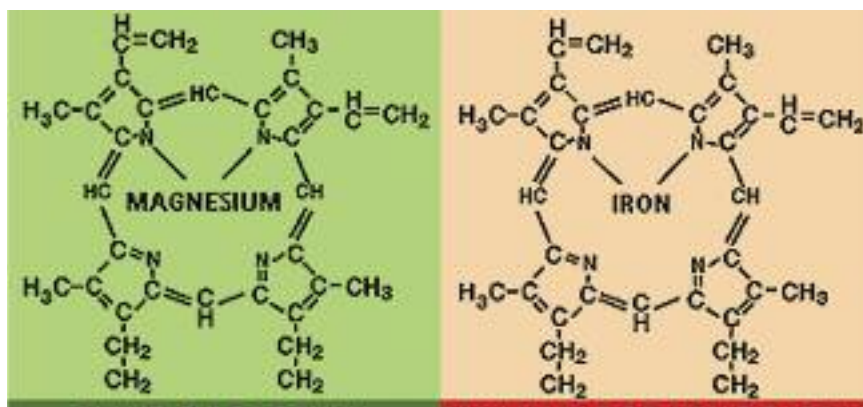


Figure 1: Plant chlorophyll molecule (left) with magnesium at the centre; haem molecule (right) with iron at the centre.

part, because the extra toxins overload the cytochrome P450 enzymes' detoxification capacity.

Different people have different food intolerances. Some people need to rigorously avoid foods containing any of the following: MSG, sulphur compounds (onion, garlic, broccoli, cabbage and other vegetables), salicylates (many fruits), oxalates, sialic acid (meat or dairy), histamine-forming foods, spices, gluten, lectins, nightshades (tomato, potato, peppers) or fats/oils. One reason for reacting to different substances in foods is because there are different cytochrome P450 enzymes that detoxify each of these substances. So you see that some well-known problems may really be a subset of porphyria. Take hyperactivity, for example: a recommendation of the Feingold diet for hyperactive children is to avoid salicylate-containing fruits, but a separate cytochrome P450 enzyme processes salicylates.

One class of chemicals is deliberately manufactured to destroy the cytochrome P450 enzymes: pesticides. Yes, plants have cytochrome P450 enzymes that enable them to detoxify or metabolise compounds, too.

And many, perhaps most, pesticides overwhelm or destroy the plants' cytochrome P450 enzymes. But our cytochrome P450 enzymes are nearly identical to those of plants—telling you what a monstrous thing it is to have people eating food containing *any* level of pesticides.

Porphyria Triggers, Symptoms and Treatments

Official symptoms of a classical acute porphyria attack can include abdominal pain or other pain, anxiety/panic, nausea, constipation, rapid heart rate, hypertension, confusion and breathing difficulty. Unfortunately, some physicians use the alleged frequency of abdominal pain as a deciding factor. This is both very wrong and immensely dangerous. I will explain why.

The most common form of the neurological porphyrias is called Acute Intermittent Porphyria (AIP). A well-known medical expert on this more common form of porphyria noted that "when the previously misdiagnosed hysteric is found dead of respiratory collapse, the correct diagnosis of Acute Intermittent Porphyria is confirmed".⁹ Translation: there are many with seeming "high anxiety" or other "mental" illnesses that are not being properly diagnosed—perhaps because, in part, many of them are *not* suffering from abdominal pain when they have porphyria attacks. The porphyria attack often seems like an anxiety attack to all too many medical personnel.

It is said that the best treatment for porphyria is *prevention*. A high-carbohydrate diet—up to 70 per cent—is recommended, with frequent meals. Complex carbs should be eaten, with glucose tablets or powder on hand in case of an attack—something that hypoglycaemics do. Having a five- or six-hour glucose tolerance test is a good idea. So-called reactive hypoglycaemia may be hidden porphyria, at least in some people. Having your blood sugar go down rapidly, often to a level below the fasting level at the two-to-four-hour point, is a possible sign of porphyria and not (just) reactive hypoglycaemia.

Prevention entails avoiding triggering factors. Each person has different triggers. These can include stress, environmental chemicals (smoke, fragrance, paint, gasoline, diesel, cleaning chemicals or other chemicals), EMF, food factors (as noted above), infections, medications and anaesthetics.

Use all the clues here to decide if you should be tested for porphyria. Do you have poor tolerance for caffeine, alcohol, certain foods (including citrus, tomato, spices), MSG, stress, medications, vitamin or mineral supplements, sunlight, heat, environmental chemicals or EMF? Is there so-called mental illness in your family? Do you need to eat every two to three hours or so to avoid a "hypoglycaemia" attack? Is your

urine darker when you feel ill? These are *possible* clues. Intolerance for an anti-Candida diet or an Atkins-type diet may indicate underlying porphyria, as the hidden porphyric must eat a lot of carbohydrates to avoid or ameliorate attacks. Sometimes this results in severe obesity, as the hidden porphyric learns to treat his/her complaints with massive amounts of carbs.

Stress is often one of the great triggers of (hidden) porphyria attacks. The reason may be the following. Stress leads to elevated levels of adrenal hormones. These are processed by the cytochrome P450 enzymes; in other words, the adrenal hormones up-regulate the enzymes. In the porphyric, excess porphyrins are then produced and the sufferer feels very sick and very anxious. He or she may be desperate to do anything to avoid any stress whatsoever.

If stress also appears to trigger severe hunger, this may be another sign of underlying porphyria, or of ulcer. Indeed, there is a connection to ulcers and the stomach's acid production. Recently it was found that the cessation of eating causes a protein, PGC-1 α , to be produced by the stomach. It triggers haem production, which leads to excess porphyrins in the (hidden) porphyric. The ulcer drug cimetidine was found to stop acute porphyria attacks in some porphyrics, who tolerated it by countering the PGC-1 α protein.¹⁰

So some, or many, chronic and/or environmental illnesses may have porphyria on "the other side of the coin". There will continue to be much suffering until each side of the coin recognises the existence of the other side.

Some people with difficult-to-treat adrenal or thyroid disorders may have underlying porphyria, again due to the processing of

these glands' hormones by the cytochrome P450 enzymes. Similarly, women who report getting permanently sick or "allergic" after taking birth control pills, or who otherwise suffer from severe PMS, may have underlying porphyria.

Holistic treatments that may help with porphyria include: ascertaining and eliminating triggering factors including hidden heavy metal exposure as well as overgrowths of intestinal micro-organisms; safe supplements; stress reduction; and energy balancing. Helpful supplements can include the calming amino acid/neurotransmitter GABA, liposomal glutathione and magnesium. Correcting other deficiencies, if present,

Do you have poor tolerance for caffeine, alcohol, certain foods (including citrus, tomato, spices), MSG, stress, medications, vitamin or mineral supplements, sunlight, heat, environmental chemicals or EMF?

might also help. Of course, I have always recommended first testing, via kinesiology, the safety of any supplements. Sometimes the sufferer also has the possibly related haemoglobin disorder pyroluria, which may be aided by supplementing with zinc, vitamin B6, biotin and evening primrose oil. The mainstay for people with these problems is that the amounts of supplements and the frequency of taking them may have to be very different from the norm. Supplements—like foods—may have to be rotated, with lesser amounts taken. In the worst cases, avoidance of all or most supplements may be necessary.

Food rotation can be a key here. There is often severe food addiction. Eating the same food(s) every day, or taking the same supplement(s) every day, causes activation or up-regulation of the relevant cytochrome P450 enzymes. This can result in excess porphyrins being released. Remember, van Gogh was likely addicted to his absinthe, and it drove him insane. But this could be happening to hidden porphyrics from any food. Often the sickest people are those who eat only three to five foods every day. I have seen severe addiction to beef, wheat, potatoes, beetroot, carrots, coffee, cola, sugar, dairy and other foods. A five-day rotation diet helps break the addiction cycle and alleviates reactions to foods.

Attacks may also be mitigated by going to a cool, dark, quiet room devoid of EMF as well. Stimulation needs to be greatly reduced because *kindling* may exist. Kindling occurs when parts of the brain are hyper-excited. It often coincides with hyper-sensitisation of the senses: vision, hearing, smell, touch, taste. Sensory input needs to be cut way down when kindling occurs. Oxygen therapy may help as well. If there is flushing, it helps to place a cold gel pack on the head or face. Learning to control breathing so as to stop hidden hyperventilation can be a big help. I have found that some porphyrics have very low blood levels of carbon dioxide. So, do either the Buteyko breathing methods of shallow breathing and breath-holding if possible, or the alternative of pursed-lip, slow, long exhalations. But I may have found a deeper level regarding Buteyko breathing and hypocapnia (low carbon dioxide levels). A deficiency of a glutathione-dependent enzyme (2,3-diphosphoglycerate) can actually *cause* hypocapnia. Porphyrin metabolites use up the body's glutathione. So porphyria or other metabolic disease, if present, may be causative of the need for Buteyko breathing—something also important for asthmatics to know. Other helpful methods here include trigger-point manipulation, kinesiological balancing and vagus nerve balancing.

Until a gene therapy cure is achieved, avoidance of triggering factors—certain foods, environmental chemicals, EMF, stress, unnecessary drugs, heavy metals, pesticides, moulds and infections—is crucial.

Helpful in combatting porphyria tendency are an organic diet, eating less meat and fat, and the use of this author's unique, new kinesiological tests and energy-balancing techniques (related to the imbalance that porphyria creates in the body). My methods can also be used to detect foods or supplements that the person might react to porphyrically.

Testing for Porphyria

Laboratory testing for porphyria has been documented to be sometimes either inaccurate or non-correlative with the intensity of symptoms, especially in AIP, which may be linked to chronic or environmental

illness. As its name implies, this potentially severe form of porphyria may only show itself via testing when the sufferer is in a severe state of attack, such as from a drug reaction. Even then, articles have revealed that tests sometimes were still normal. Difficulties arise because (1) porphyrin compounds react with light; (2) "normal" values may include many porphyrics; (3) complete blood, urine and stool testing is

rarely done; and (4) complete testing of both enzymes and porphyrin compounds is also rarely done. Newer genetic testing is now available.¹¹

Likewise, testing the cytochrome P450 enzymes for defects or deficiency is also now available; but in the USA some of this testing was recently halted by the Food and Drug Administration: apparently it doesn't want people to know. If you want blood or urine testing for porphyrins, find a lab that does *not* come with an interpretation from Big Brother claiming that above-normal levels are okay unless they are several times beyond the upper limit of normal. If your fasting blood sugar were "only" 50 per cent beyond the upper limit of normal, do you think your physician would say, "Forget about it"? Use a lab that will allow your own physician to interpret the results, and, indeed, find a physician who will take the time to learn something about porphyria, hopefully from unbiased sources.

I have proposed one possible answer to the testing conundrum. This is the issue of blood-brain barrier (BBB) permeability. If there is blood-brain barrier permeability, even small amounts of porphyrins may get into the brain and cause severe symptoms. Whereas if the BBB is as impermeable as possible at the moment, larger amounts of circulating porphyrins may *not* get into the brain.¹²

If there is blood-brain barrier permeability, even small amounts of porphyrins may get into the brain and cause severe symptoms.

Recent research indicates that many things can cause BBB permeability: hidden heart defects, stress, heat, allergies, nutritional deficiencies, toxins and other factors. I have hypothesised that *if* the common heart defect called patent foramen ovale (PFO)—which as many as one out of every three people may have—is present, it may lead to BBB permeability and thus a susceptibility or an intolerance to even *small* amounts of excess porphyrins. The PFO is an atrial septal defect. It is a hole or tunnel between the two upper chambers of the heart that did not close properly in one-third of humanity. The PFO has been linked to causing migraines (especially if aura is present) and strokes.

Genetics, Toxic Exposure and the Powers That Be

Why is it that only some people become chronically ill and/or allergic after mercury, mould, pesticide or other toxic exposure, or from *Candida* or other overgrowth or infection? The matter of porphyria seems to explain this well. If the person has the underlying genetic defect, any additional toxin in the system can put them over their limit, and thus they are in an elevated porphyria state whereby they are both more sick and more reactive ("allergic") to other things. Two physicians have demonstrated the micro-organism overgrowth connection to chronic porphyria in their arthritic patients. Many were found to harbour the *Chlamydia pneumoniae* bacterium chronically, and many also showed that this then caused them to acquire a form of porphyria.¹³ Heavy metals, moulds, pesticides or chemicals may also permanently damage DNA, leaving people in a permanently elevated state of porphyria—and/or suffering from MCS, EMFS, food reactivity and some "new" chronic illness.

As the wise reader might surmise, there is a separate political sphere regarding the matter of just how many people really acquire a chronic form of porphyria after a toxic exposure. When porphyria expert William Morton, MD, PhD, saw many patients suffering from MCS *and* porphyria and then helped hundreds of them to get on disability benefits, his licence was revoked. (He chose not to fight his medical review board in Oregon, and retired from seeing patients.)

The matter of chronic porphyria with concomitant chronic and/or environmental illness resulting from a toxic exposure is being vigorously and viciously fought by the Powers That Be (PTB). Recall that it took over 70 years for asbestos to be recognised universally as carcinogenic. During that interval, numerous scientists and physicians, in the pockets of industry, swore that it wasn't. As many different types of toxins may result in

chronic porphyria *and* chronic and/or environmental illness, you can see how the PTB may all come together to fight at this last frontier. Indeed, the PTB still do not even want to recognise MCS as a legitimate illness. Some still claim that very small levels of xenobiotics can't possibly make anyone sick, that the illness is merely psychological, and that, whatever it is, it isn't a form of porphyria. This is despite the recent scientific finding that *parts per trillion*¹⁴ have caused illness in other mammals, and that chronic toxic exposure has been proven to cause chronic porphyria.¹⁵

When Drs Downey and Morton and numerous other physicians and *bona fide* scientists published articles in the 1990s, demonstrating that 70 to 90 per cent of those with MCS have some form of porphyria, the PTB countered by creating claims that not just abnormally high levels of porphyrins denote the disease, but that some arbitrarily declared, much higher abnormal level of porphyrins must be found before someone can either receive a porphyria diagnosis or be allowed to use it as a basis for a disability benefit. This is despite such factors as I have detailed above—namely, that if BBB permeability exists, then a larger percentage of porphyrins may get into the brain.

Due to the fact that people are likely to have other underlying medical conditions,

I created a terminology that takes this into account. In analogy with diabetes type II, I have called this Porphyria Type II, with numerous sub-classifications that correlate with the other medical conditions which the person is found to have. These other factors can interact and cause any abnormally high level of porphyrins to be more causative of symptoms than otherwise might be the case. These other conditions include more than one type of porphyria (among the eight), pyroluria, mast cell disease,¹⁶ BBB permeability, lung disease (asthma, chronic obstructive pulmonary disease, reactive airway disease) and heart disease (PFO,¹⁷ mitral valve prolapse and other conditions).

If you can, get tested for porphyria and all the other relevant conditions that are cited in this article, if you haven't already. Many people also have hidden asthma, food reactions, sleep apnoea, hiatal hernia/vagus nerve disorder, defective or deficient cytochrome P450 enzymes¹⁸ and other problems that can be helped.

This is an age when, if the least-elevated level of cholesterol is found, the PTB will swoop down on a patient and try to dictate a lifetime of drug-taking (often causing problems far worse than what the drug is

...there is a separate political sphere regarding the matter of just how many people really acquire a chronic form of porphyria after a toxic exposure.

Continued on page 78

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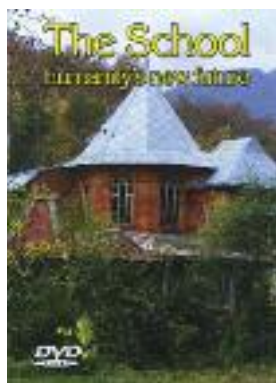
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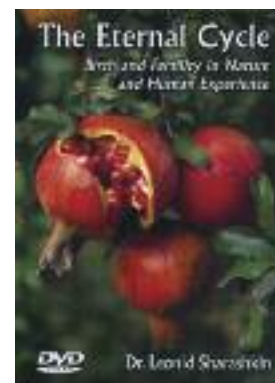
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HEALING THE WORLD BY COLLECTIVE MEDITATION

Various initiatives around the world are linking millions of people in meditation for peace and healing, tapping into the zero-point field and achieving measurable effects that can be understood in terms of quantum physics.

by Roger Taylor, PhD © 2010

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The Great Work*

We are living now in the age of Kali Yuga. According to Indo-Tibetan mythology, this is a time when iron birds fly in the air and the life of the spirit falls to its nadir. Evidence for this can be seen all around us: in alienation, crime, drugs, degradation of the environment and, poignantly, in a recent figure giving suicide as the third-highest cause of death in children aged five to seventeen in the USA.

Just recently, I was particularly disturbed on learning that, according to two polls, some 40 per cent of Americans believe in the literal truth of the Bible. This means that many of them regard attention to the accelerating deterioration of the environment as a waste of time because, according to apocalyptic prophecies in the Book of Revelation, the world is soon to end anyway. Likewise, they welcome wars with Islamic countries as a run-up to the final Battle of Armageddon, which will bring defeat of the anti-Christ and return of the Messiah for the Last Judgement. At this time, faithful Christians will be saved and go to Heaven in rapture and the rest will be damned. Incredible as this belief seems, it has been promulgated in two best-selling books. Moreover, the religious right exerts great power over decisions made in the US Congress.

It is not hard to see how the age of Kali Yuga has arisen necessarily along with the predominant materialistic world-view. Matthew Arnold wrote of the long withdrawing roar of the sea of faith. But the withdrawal has been under way much longer than perhaps he thought. For thousands of years, animistic beliefs have been giving way to the developing monotheistic religions. All the spirits, which used to inhabit the natural world, have been and are still being progressively withdrawn from it and "kicked upstairs", to be subsumed in one single Father God. In that he is now perceived as being separate from nature, this God has become more distant and less real than the spirits he replaced, and living nature has been debased to become merely a heap of dead matter out of which the raw materials for the human economy are to be mined.

In this article, I want first to restate briefly what has been much written about: how the scientific way of thinking arose and has led us into this morass. I then consider how, strangely enough, science itself seems to be pointing to a way out. In support of this, I outline some recent scientific studies which could go a long way towards radically changing our world-view. Finally, I cite some initiatives already being undertaken to heal the world by meditation and suggest a few possible further developments.

The Holistic World-View being Ushered in by Quantum Physics

To reinforce the above (materialistic) world-view, the "church" of science over many centuries has come to insist that all truth, to be fully accepted, should pass the test of measurement. Note, however, that no matter what

scales or instruments are employed, measurement always comes to our minds via the visual sense. Indeed, human beings do rely on vision to the neglect of the other senses. Now, if we construct our world from visual data alone, we will necessarily perceive it to consist of solid material objects, all apparently separate from each other. It is thus that we get atomism and the increasingly costly search for ultimate particles.

However, quantum physics has forced us to consider an alternative view: of the world as waves or fields. It was initiated by the puzzling finding, among others, that what were thought to be subatomic particles also had wave-like properties, and what were thought to be waves (light) also had particle-like properties. It just depended on how you set up the experiment to detect them. This is just like using two types of sense organs: one, like the eyes, to see particles, and one, like the ears, to hear waves. So, just as the visible aspect of the world is completely different from the audible aspect of the same world, so the particle-detecting experiment is quite different from the wave-detecting experiment.

To obtain a feeling for the wave view, it is a worthwhile exercise to imagine what kind of world you would construct if your only sense was hearing. Suppose we were beings who had no eyes or any other sense except that of hearing. We would be aware, from the beginning, of a world of sound waves. It would consist only of tones (or frequencies) and loudness (or amplitude). *There would be no solid objects or materials of any kind.* Indeed, within a society of such beings, the concept of matter would never arise. Nevertheless, our sound world would still be quite rich, with all kinds of noises, pure tones and chords, up to the most complex music—and, of course, voices conveying informative signals of great complexity. Let's assume, too, that we only had one ear, placed in such a way that we could not tell from which direction the sound came: we would then grow up *completely lacking in the concept of space—a concept so basic for our materialistic world-view.*

So, just as we are taught in the Heart Sutra, our world is a mental construct depending on our particular evolution, genes, culture and language. Thus it is that by building a world on vision, as we now do, only the material world of objects is taken as "really real". And because of this, I tend to take my material body to be the only real "me".

After some centuries of scientific revolution, this kind of belief has gone very deep. Growing up with this view, people now believe themselves to be separate from all other beings and ultimately alone in the world. The

existential anxiety this entails was well expressed by Rilke: "And if I should cry out, who, among the angelic hosts, would hear me?" In such a predicament, it makes sense to get as much of life's material goodies, by whatever means possible, before one is annihilated. The very motives driving morality have been undergoing changes which can only be seen as destructive. Natural morality arises out of the identification of the self with others, as of course can be seen in properly functional families. But although it can still be seen in some tribal peoples, natural morality in relation to the environment, arising out of identification with the natural world, has sunk to a very low level throughout most of our species. Furthermore, morality in general, rather than arising naturally, is coming to be seen as imposed by authority: of parents, society and ultimately the Father God.

The impulse still exists, however, for reconnection

with the spirit. There remain plenty of good-hearted people who are aware of the spiritual decline and want fervently to do something about it. Together with the moral degradation exhaustively presented to us by the media, there is thus, like the white spot in the black side of the *yin-yang* symbol, an opposite trend, mostly served by the media with disgraceful neglect. Never before have so many been aware of and

There remain plenty of good-hearted people who are aware of the spiritual decline and want fervently to do something about it.

concerned about the sufferings of distant peoples. There has been a phenomenal rise of non-governmental organisations, so many smaller philanthropic projects and good-hearted people working in both local and global arenas towards a better world.

At the same time, over most of the world, churches, temples and mosques remain full. There is no lack of prayer. Within the materialist paradigm, however, the belief is that only activity in the "real" world can bear fruit. The belief that prayer is any good is weak; most people would be cautious about affirming that their prayers might bring results. Many also are meditating, but, as with prayer, the way in which it is seen as worthwhile is interpreted through the clouded lenses of the materialist paradigm. Here, while not asking for anything in the outside world, we often carry the thought in our minds that meditation might "make us better people" so that we may spread a good influence among others that we meet in the material world, and through them the influence may spread out slowly in physical space like ripples in a pond. But there is no more real hope of any direct influence on the world outside than there is with prayer.

For all this to change, it seems, we need a radical change in our world-view. And this, I submit, may

already be under way. For near on 100 years now, quantum physics has been dissolving our solid world into one of ghostly insubstantial fields. Seemingly nihilistic from one point of view, the hope lies in the thought that, unlike solid objects, fields mingle and interpenetrate. They are intrinsically holistic. This much is readily understood from our common experience of fields such as magnetism and light, but a much harder concept is forcing its way onto the scientific scene: the concept of non-locality. The familiar fields, such as magnetism, are local in the sense of being firmly rooted to a particular locality in space, and their influence needs to travel through space at the speed of light. But there is clear evidence for a subtle interconnectedness which behaves as if space does not exist. It has now been proved incontrovertibly that two particles can remain in instant communication whatever the distance between them.

Interconnected Minds

Can such instant communication be true for two human beings? While the thousands of anecdotes concerning telepathy would say yes, the objective evidence demanded by the church of science has been hard to obtain.

Recently, though, two very convincing lines of evidence have been presented. The first concerns brain waves. The technology now available for the study of the electro-encephalogram (EEG) enables one to quantify the degree to which two wave-trains are "in synch"; i.e., how much the wave-peaks coincide with each other. Working on this, at least three groups of scientists have shown first (and as expected) that there is usually a degree of synchrony between the two halves of a single person's brain. But what is new, and exciting, is the finding of synchrony between separate individuals. This occurs principally where there is a close relationship, as with lovers or mother and child. However, some beautiful results from a researcher in Italy have shown high degrees of synchrony between people meditating together.¹ Figure 1 shows EEG

spectra, with the short (beta) waves at the top and slow (delta) waves at the bottom. The percentage figures for L-R refer to the degree of synchrony between the two hemispheres of the individual, while L-L and R-R refer to the degree of synchrony between the left and right brain hemispheres of the two individuals respectively.

Because these meditators were in the same room, it might be said that they were responding to the electromagnetic fields of each other's brains. However, a German group has rejected this hypothesis by finding that synchrony still occurred between two individuals in distant rooms and screened inside Faraday cages.² If so, then the individuals' brain waves must have become correlated by way of the zero-point field—as indeed is likely in the other examples.

Considerable synchrony may also occur between brain waves and other physiological rhythms, such as heartbeat and breathing. This becomes much more marked during meditation—as if this activity serves to harmonise bodily functions. In deep meditation also, the synchrony between left and right brains rises to very high levels.

It is worth mentioning the work—although very much a preliminary study, unpublished in any scientific journal—of electronics engineer Bob Beck, who looked for synchrony between people's brain waves and the Schumann

resonance, the natural electromagnetic resonance of the Earth. He found this to occur at times, particularly with "sensitives" such as psychics, healers and shamans.

The second line of evidence concerns a much more general phenomenon whereby the minds of millions of people all over the world can be seen to be linked together. This work began some 30 years ago at Princeton University, with the finding that people could, with their minds, influence (albeit to a very small degree) the behaviour of a simple electronic device called a random event generator (REG).³ Unavoidably, all electronic components generate noise. This noise is generally thought to be completely random, but

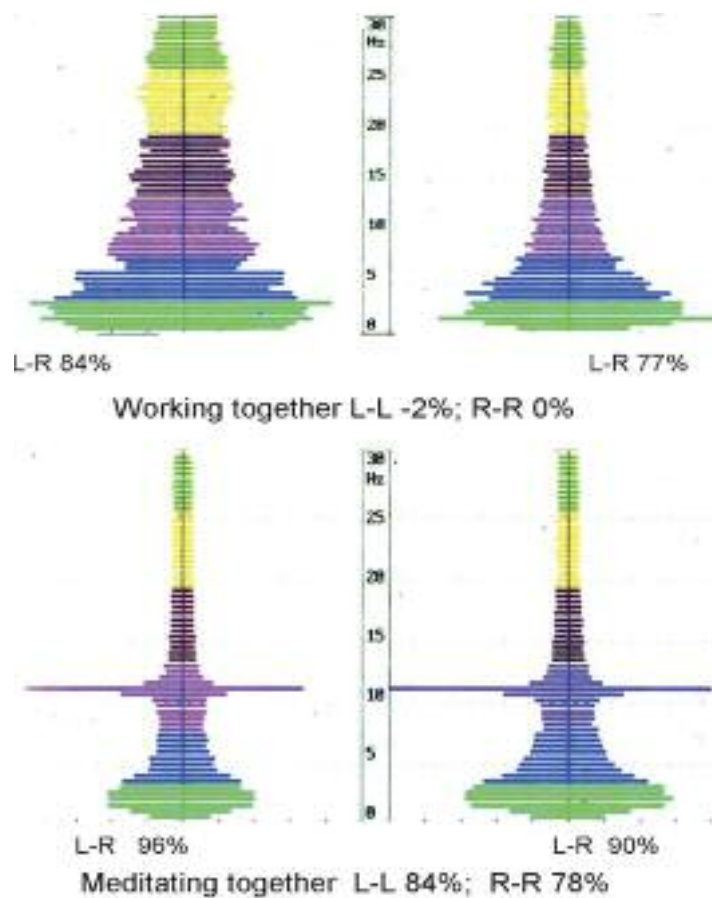


Figure 1

Terrorist Attacks Context, Sept 7-13, 2001

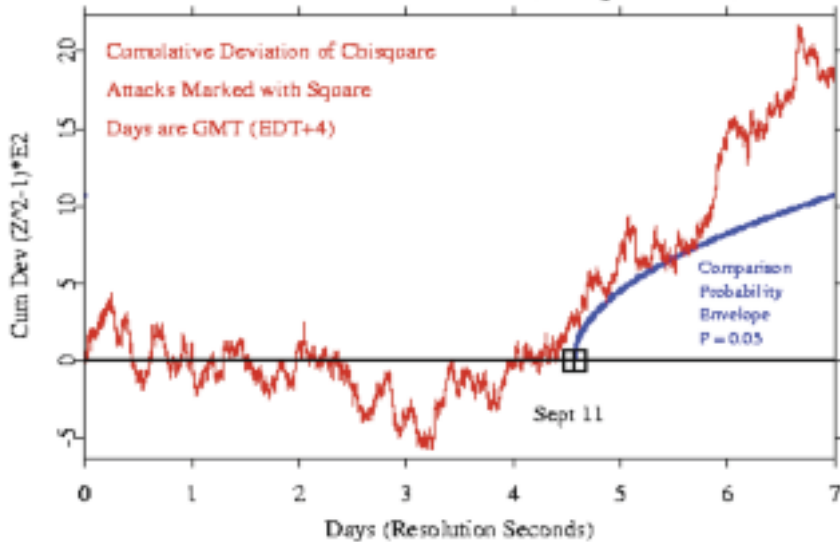


Figure 2

obviously a mental influence means a departure from randomness. Later experiments led the researchers to believe that conscious intention was not necessary, since the REG was responding to large groups of people who did not even know the device was in the room with them. Working with situations such as theatres or religious meetings, observers were sent in to record the times when there was simultaneous focus of emotion, such as when the audience laughed together or held their breath at some dramatic scene. When these records were later compared with the record of noise from the REG, significant correlations were often found.

Thinking already that this effect might be non-local, the researchers set up the Global Consciousness Project (GCP), whose objective is to look for correlations between REG behaviour and major world events which

would be likely to focus the emotions of millions of people. The procedure now is, whenever a major world event takes place, to make a "formal prediction" that it will significantly affect the REGs. (There are now around 65 of these operating in various parts of the world.) Then, whether the result is or is not significant, it is still included in the calculation of overall significance. These results are available for anyone to see on the GCP's inspiring website.⁴

Two examples are seen in figures 2 and 3. The behaviour of the REG varies randomly most of the time about the horizontal line. Any prolonged departure from this becomes significant according to how far it goes towards and beyond the blue curve. A wide variety of events have been charted: e.g., the moment of the new year (within local time zones, of course), the Pope's visit to Jerusalem, a billion-person meditation, and especially some disasters such as the events of 9/11.

The combined statistical significance of all the results accumulated over several years is now extremely high. Have these subtle connections among human beings been increasing in recent years, perhaps with the help of the rapidly increasing network of communications by radio, telephone and the Internet? It is too early to say. However, the scientists running the Global Consciousness Project suggest that they have led and are leading us towards the "Omega Point", as foreseen by Pierre Teilhard de Chardin, when the human race

becomes in effect a single organism (further discussed below).⁵ In this case, it might be suggested, a high proportion of people's brain waves would be in synch with the Schumann resonance much of the time and lead them to identify with Gaia and the natural world.

These lines of work are only among the latest and most striking exemplars of a strand of thinking leading from ancient teachings to recent theoretical work by philosophical scientists such as David Bohm. All lead to the conclusion that human beings, and everything in the Universe, are connected at some deep level and participate in one indivisible process of interdependent origination—just as the Buddha taught.

Polls Close, Obama Wins, Speech Nov 4 2008

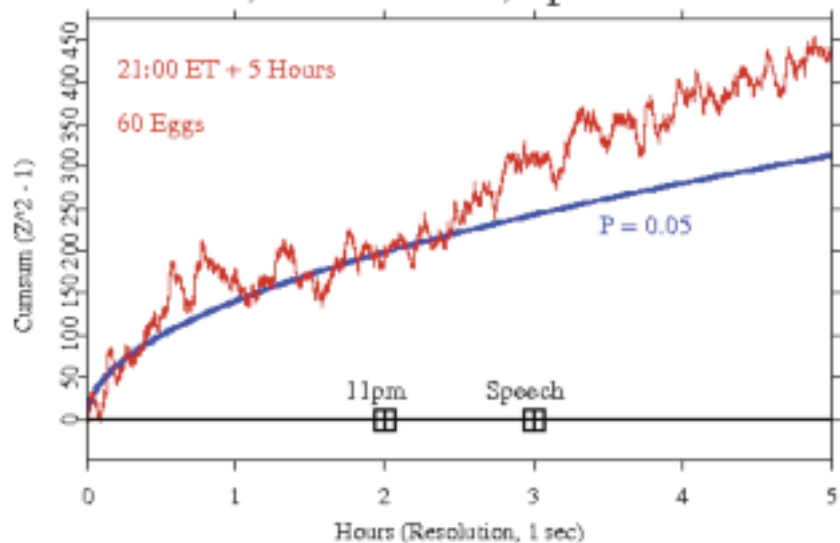


Figure 3

Effects of Collective Meditation and Prayer

If this is so, then we already have a basis for belief that prayer might be effective after all. Indeed, a number of scientific studies have been carried out to test the efficacy of prayer in aiding the recovery of patients in hospital. Some of these have achieved a modest degree of statistical significance.

Much more impressive, however, are the results obtained by scientists at the Maharishi International University's Institute of Science, Technology and Public Policy. Based on his theory of the unified field, the Maharishi advanced the hypothesis that meditation itself, and especially the transcendental meditation (TM) he was teaching, should have an effect in the real world, and that this effect might be greatly magnified when large numbers of people meditate together. This hypothesis has been tested in over 40 studies on a variety of social indicators, with violent crime showing the biggest effect. Many of these studies have been published in peer-reviewed journals.

A very large and well-planned experiment took place in 1993 in Washington, DC.⁶ Every stage of the experiment was overseen by a 27-member review board including sociologists, criminologists and representatives from the police and local government.

It was decided, as the dependent variable, to monitor figures for violent crime. Over a period of two months, TM practitioners gathered at several locations in the city and practised the TM-Sidhi program together twice daily at pre-arranged times. The result (figure 4) shows that, as the number of meditators rose to reach eventually about 4,000, the violent crime figure dropped progressively by 23 per cent.

The statistical significance of this correlation was astronomic. No significant decreases in crime were found for similar periods during the previous five years. On consideration of a great number of other possible causes for this result, such as unusual weather conditions, etc., none was found to be remotely answerable.

Another study centred on the 1988 war in Lebanon.⁷ Over a two-year period, seven TM groups met at various times totalling 93 days—not only in Lebanon and Israel, but further afield in The Netherlands, Yugoslavia and the USA. Their influence, assessed by a composite peace/war index, during these 93 days reached enormous significance by comparison with the intervening periods, totalling 748 days, when no such groups were meeting. The authors commented that these results make this peace-creating effect of group meditations the most rigorously established



Figure 4

phenomenon in the history of social science. These results should be taken seriously. To see the graphs gives us exactly the kind of visual, quantitative evidence that our scientifically encultured minds now demand. Some would object that people have been praying for peace from the beginning, and look how much war we still have. But petitionary prayer still has an element of

...these results make this peace-creating effect of group meditations the most rigorously established phenomenon in the history of social science.

ego, in that it is asking for something "I" want. The trick may be to stand aside and allow the greater Universe to take whatever form it will, to allow the Tao to flow freely.** Thus the TM meditators in the experiments were not consciously praying for anything, but rather could be said to be merely aligning themselves with the Universe. At the same time, they could hardly escape knowing that an

experiment was under way and what was being measured; and those in the Washington experiment would have known that they were in Washington, DC. This kind of link, held in the background of the mind, is what is usually employed for distant healing, and can focus an essentially non-local effect onto a specific target.

Since we know with such certainty now that we are all connected at this subtle level, we must allow for the possibility that we are having an influence all the time, not only during set times for spiritual practice. It may be that we are never "off duty" but are on the stage all the time. This influence would come not from any kind of activity, not by any *doing*, but by the *quality of our being*.

Possible Further Evolution of the Human Race

The above findings clearly reveal a tremendous potential which could, in principle, heal the world.

But they are only the beginnings of what many authors are now seeing as a great further stride in evolution. Indeed, such a stride was seen many years ago by Teilhard de Chardin, when he envisaged a linkage of human minds into a coherent whole, which he termed the *noosphere*.⁵

While evolution is popularly thought to be a gradual process, with any significant change taking millions of years, many big changes have in fact taken place relatively rapidly: so-called *punctate evolution*. The rate of change in these instances, however, is nothing to the kind of rapid change in the human psyche which now seems necessary if we are to transform our world and set it on a more healthy course.

Is such a change possible? While such a rapid change could not occur by classical (neo-Darwinian) selection, there is now increasing evidence for inheritance of (some) acquired characteristics. This has been proved to occur independently of upbringing and even via the paternal line. The epigenetic mechanisms by which this occurs are now fairly well understood, and are particularly active in respect of brain and behaviour and, significantly, much more active in higher primates and especially so in the human species. By these means, a Lamarckian type of evolution can indeed occur, and can proceed much more quickly than if it depended on the elimination of those less than sufficiently fit to reproduce.^{8,9}

In order for a change in use to become heritable, it is likely to be associated with some structural change. Indeed, structural changes in the brain are well known to accompany intensive mental activity, such as playing a musical instrument, and recent intensive use of the thumb on mobile phones is accompanied by changes in the relevant area in the brain in children.

Significantly, this change seems to be true also for meditation. Interest has been focusing on a region in the pre-frontal cortex. This is relatively inactive under normal conditions, but becomes more active during meditation. Furthermore, it tends to become permanently active in long-term meditators, in whom it even grows in cellularity. On the other hand, in those disabled by early experience of abuse, it fails even to develop properly.¹⁰ Could this kind of change become heritable by means of these epigenetic mechanisms?

Our species has undergone prodigious cultural and psychosocial evolution in only some thousands of years. Could this evolution be underscored by some kind of epigenetic inheritance—perhaps affecting brain mechanisms or even structure?

In view of these findings, it may well be imagined that inter-brain coherence could occur among larger groups, and eventually most of our species, to result in the inception of Teilhard's noosphere.

The Need for Action Now

It has been clear for some time that our world is coming to a crunch. Look at almost any aspect of our present (westernised) way of life and it can be seen to be unsustainable. Obviously this cannot go on indefinitely. Yet this crisis is accelerating, almost by the day. The human race is beginning to wake up to the need for concerted action, and many of us are thinking about what kind of action we are best suited to take. Thus I and, I think, many others are no longer satisfied with the thought that, with daily practice of various Buddhist meditations or other traditional religions, we might eventually become enlightened—perhaps only

after many lifetimes. The situation is now such that whoever feels the call must not wait for personal enlightenment but act now to the best of his or her imperfect ability.

If the aforementioned results of the Maharishi Institute and others are to be believed (and the statistics are convincing), then the possibility clearly exists to heal the whole world. All we need is to enlist enough meditators. There are now

several groups which are starting to do this. Perhaps the principal and best-organised one is that started by the Institute of HeartMath: the Global Coherence Initiative (GCI).¹¹ As presently constituted, the initiative is gathering individuals and groups worldwide through the Internet and organising "webinars" and group meditations to focus on specific issues, such as Haiti or the great tsunami—currently without specific attempts at simultaneity, but this is planned to follow in due course. Some other groups are making similar initiatives.^{12, 13, 14}

The word *meditation* could comprise a large compendium of techniques. While the TM method has had documented success, other methods could well be better. The field is wide open to further exploration. The Institute of HeartMath¹⁵ teaches a practice of "being in one's heart", rather than in the head where most of us feel ourselves to be. The success of this (amply shown in the way that those taking their courses become more effective in their work) depends on the effect of such "heart focus" in quieting the fear-based stress of competition in modern life, so that one's creative faculties are allowed full play. It also, of course, greatly facilitates human interaction so that co-operation increasingly takes the place of naked competition.

**In view of these findings,
it may well be imagined
that inter-brain coherence
could occur among larger
groups, and eventually
most of our species...**

In their physiological studies, the researchers find meditation (especially with heart focus) to result in the heart rate going up and down smoothly—so-called *heart rhythm coherence*. This contrasts with the random chaotic trace seen during stress. Significantly, in the present context, they find the state of heart rhythm coherence to enable people to do things by mental intent alone—like changing the physical properties of water or of human DNA.¹⁶ In this, they are only confirming what has been so well documented in parapsychology: that the influence of human minds extends not only to other human minds but to outer reality, too.

Now, as a logical extension of this, one might expect that some aspects of the material world could be influenced by the state of the aggregate global human mind. In fact, the GCI has recently posted evidence which is open to such an interpretation (figure 5).

The GCI downloaded recordings of the strength of the Earth's magnetic field from two satellites. Mostly this varies with a smooth daily rhythm, but, as can be seen in the chart, precisely coincident with the events of 9/11 it becomes distinctly irregular, and remains so (but tailing off) for a few days subsequently.¹⁷ Moreover, this finding gains independent support in the form of recordings from 11 Earth-based magnetometry stations.¹⁸ The GCI, which has the close collaboration of some senior physicists, is seeking funds to study this by means of its own measurements.

But again: could the necessary changes take place quickly enough? One author calculates that we have only seven years in which to turn things around before the world goes into irreversible decline. Others put it as even shorter.

Here we can gain understanding from the mathematics of chaos, which forms one of the most far-reaching discoveries of our time. The essential notion is that the evolution of complex systems does not follow a rational linear course but may undergo sudden and unpredictable transformations. This is already evident in punctate evolution in biology. It is obviously true in human affairs as well: consider sudden events such as the collapse of communism and the fall of the Berlin Wall. Many radical thinkers now see our world coming to exactly this kind of point, where a system reaches such a condition of instability that it can no longer continue along the same linear course. The state of maximum chaos that we are now approaching has (as some predict) the possibility of further breakdown of human institutions, leading even perhaps to the end of the human race; or else it has the possibility of *breakthrough* to a higher state of order.

This has been put very clearly by the systems theorist and scientist-philosopher Ervin Laszlo.¹⁹ While nobody can predict in detail the forms this order could take, it can only be based on some kind of coherence at a higher level, and it must require human co-operation increasingly to take the place of competition.

Viewed through the lens of materialistic science, it seems totally impossible that what is at present such a very few could influence the minds and behaviour of the world's billions, the vast majority of whom are never likely to come anywhere near (at least intellectually) to such an understanding. But in the context of some of the scientific developments just described, it does seem not only possible but mandatory. Moreover, it is happening.

According to Peter Russell,²⁰ the numbers of us engaging in meditation and other forms of inner exploration are increasing exponentially—and this

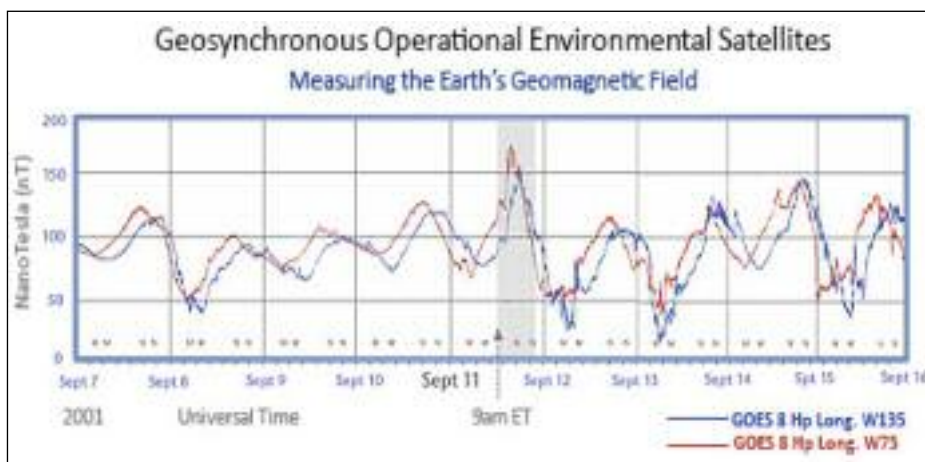


Figure 5

seems likely to become true also for the number of websites devoted to bringing human minds into concerted action to heal the world. Here the insight of Teilhard de Chardin seems ever more prescient: we are in fact entering the global mind. Now that some of us are coming to understand this, we are asking what we can do to assist in bringing it about. In his most recent book, with Jude Currivan,²¹ Ervin Laszlo sees human beings as directing our own evolution and so becoming *co-creators*. Increasing numbers of us will surely be engaging in various kinds of programs of world healing so that, in due course, we will be bringing about manifest effects in the real world.

In due course, also, further methods for enlisting the group mind will be developed. One suggestion concerns the use of technologies to enhance brain wave coherence. One of these, Hemi-Sync, requires sounds or music to be fed into the left and right ears at slightly different frequencies. To appreciate the music requires the two brain hemispheres to co-operate, i.e., to become coherent. In a recent experiment,²² several REGs were deployed in the vicinity of a number of

people, each in a separate room, all listening to the same Hemi-Sync sounds. The REGs then registered greater-than-background coherence in the zero-point energy, just as they are doing in response to major world events. Thus, in a similar way, one might bring thousands into "synch" via the Internet. Furthermore, it is worth considering that some times may be better than others. This is suggested from a meta-analysis of many distant-viewing experiments which showed the most success during a particular interval in the sidereal day.²³

From a more fundamental perspective, though, we should consider techniques aimed to re-awaken the shamanic capabilities that have been progressively lost in the last few millennia. Many are now attempting to do this. Without experience of shamanic techniques I cannot enlarge on them, but I feel that shamanism and, indeed, perhaps what can be recovered of the lost riches of gnosticism, could play an increasing part in our future development. With the help of such methods, we could begin to re-awaken the lost sense of truly *belonging* to the Earth rather than looking at it, as most now do, from a detached egoic and exploitative perspective. We might then see our world, Gaia, as many tribal peoples still do, as the Great Mother and thus care for her unthinkingly as a matter of second nature. For this to happen on a general level, however, will require deep changes in religious life: in particular, outgrowing the punitive paternalism of the Abrahamic religions.

Conclusion

Philip Pullman has given us a potent myth for our times in the trilogy *His Dark Materials* (1995–2000). Both a dramatic, entertaining fairy story and a deeply meaningful allegory, this work engages with the present turning-point in the collective psyche by having woven into it, in an unobtrusive way, a number of concepts derived from modern physics. As the story develops, one is gradually made aware of the mysterious "dust". One is led to understand that the dust is of overriding significance for the very survival of the human race, but that it is leaking away.

The protagonists, two children on the verge of adolescence, find themselves engaged in a quest to stop the haemorrhage of dust and so save the world. What is the dust? Although never baldly stated, it can be understood as one of the fundamental particles. Just as physics tells us of particles of light (photons) and of charge (electrons), so dust would consist of particles of love.

With the encouragement both of scientific theory and the astounding results just quoted, perhaps we may gain inspiration to set out on our own mythic quest to restore love to the world and bring the age of Kali Yuga to an end. ∞

Author's Notes:

* Although the main findings described were made by scientists, please observe the caveat that most of them are not accepted, or even known, by scientists in general.

** Looking over the above, I see that, in focusing on scientific aspects, I have written mostly in a detached objective vein. It is easy to relapse into scepticism and the state of comfortable denial in which so many of us are now living. But is this not to put the matter away from my real self and escape responsibility? With denial comes despondency and loss of hope and inspiration and even the will to go on living. (At eighty, I have after

Thus, in a similar way, one might bring thousands into "synch" via the Internet.

all far outlived the span generally allotted.) In revulsion from this prospect, I then find the feeling of great urgency re-asserting itself. I am determined to go on, face the awe it awakens in me, and participate to the best of my ability in co-creation of the next version of our collective reality. In truth, this is The Great Work: the greatest that humanity has ever been called upon to perform. Nevertheless, I have

to keep asking myself: *who* is doing this work? Here I find John Cage's prose-poem²⁴ helpful:

If you let it, it supports itself. You don't have to. Each something is a celebration of the nothing that supports it. When we remove the world from our shoulders we notice it doesn't drop. Where is the responsibility?

About the Author:

Roger Taylor, PhD, qualified first in physiology (BSc) and veterinary science (BVSc). For much of his career, he worked in fundamental immunology at the UK National Institute for Medical Research and at Bristol University, where he set up the Medical Research Council's Immunobiology Research Group. Becoming disenchanted with mainstream biomedical science, Dr Taylor took early retirement. He has spent the last 21 years studying the scientific basis for subtle energy. Dr Taylor has previously contributed three articles to NEXUS: "Free Radicals and the Wholeness of the Organism" (13/03), "The Magic and Mystery of ORMUS Elements" (14/02) and "Kirlian Photography and the New Bioelectrography" (14/03), and he also is a regular writer for *Caduceus* magazine. He can be contacted by email at rogerbt@onetel.com.

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MYSTERIOUS GUATEMALA CITY SINKHOLES LINKED WITH MICRO BLACK HOLES

by Olaf Thomas Raabe © 2010

Have you ever wondered what a micro black hole leaves behind after it has eaten its way through the Earth's crust? Look at this photo below and you can see for yourself. This is the result.

The giant sinkhole that appeared in Guatemala City early on 1 June 2010 has been verified as linked to the location of Geneva, the site of the Large Hadron Collider (LHC) experiment (see "Earth Precession and Micro Black Holes", NEXUS 17/06). It happened in one of the four areas of possible orbital intersection, where the Earth in different years exists at the same point relative to the Sun within a few hours, but one year (or multiple years) apart. Local authorities

stated that the heavy rain from tropical storm Agatha caused it.

Three-dimensional orbital simulations, however, show Geneva at 10:51:48 GMT on 31 May 2011 heading directly towards the location of Guatemala City at 4:50:02 GMT on 31 May 2010, at the point where the Earth reaches the same point in space relative to the Sun. Such points of equidistance are significant for temporal transfer because, under Contracting Matter Theory, temporally transferred particles or objects disappear at the point of transfer, only to reappear either in empty space or even within the Earth, if the planet happens to be in that exact same location relative to the Sun in a different year at the time of transfer.

This micro black hole didn't cause a fireball in the atmosphere because, at the moment of transfer, it appeared just under the surface of

the Earth. This is why the rainwater caused such an enormous hole, 300 feet (~91.5 metres) deep. An explosion would not have been perceived as more than the rumbling of tons of earth caving in, because a small layer of Earth would have still covered the 300-foot hole. Check YouTube for an upload with clips of these orbital simulations (search for "NEXUS Magazine Guatemala City Sinkhole Explained"). Enlarged simulations show just how accurately the positions match.

Sceptics might say, "But this is a cenote". Cenotes *are* common in Guatemala; indeed, there are literally *hundreds* of them. They are sinkholes or caves, filled with water, that occur in a semicircle around the ancient Chicxulub crater. These cenotes are many thousands of years old and were known to and revered by the Maya. Extensive research has been conducted, proving that they appear



The Guatemala City sinkhole of 1 June 2010 (Source: Casa Presidencial handout)

in limestone formations around the rim of this ancient crater over 700 kilometres away to the northeast on the Yucatán Peninsula, but nowhere near Guatemala City (for references, check <http://ngm.nationalgeographic.com/ngm/0310/feature4/>).

Another sinkhole in Guatemala City opened up on 23 February 2007, but there was no heavy rainfall so the cavern beneath it could have formed long before. Witnesses reportedly heard very loud noises underground "about a month before". I discovered that both cities occupied the same point relative to the Sun on 21 January 2007 at 16:03:02 GMT (Guatemala City) and on 21 January 2010 at 10:34:24 GMT (Geneva). Simulations show an exact overlap. This fits the time stated by witnesses very well. In my view, this giant sinkhole was also caused by a micro black hole.

While the Guatemalan cenotes are all closer to the epicentre of the Chicxulub crater, there are other sinkholes. Of the dozen or so largest known on Earth, many exist in a circle around the Chicxulub crater. Some are actually fields of several sinkholes. Now, two new ones have opened up in Guatemala City, adding to this great circle. Some of these *could* be related, just as the closer ring of cenotes in Yucatán may be.

Gravity, Creation and Extinction

The greatest factor affecting temporal transfer is gravity. Is it a coincidence that almost all the atmospheric explosions linked to the LHC and now both Guatemala City sinkholes are in areas of the Earth with the greatest gravitational anomalies? There is a gravity map on the Internet which has been compiled from detailed measurements, upon which such areas, only a small percentage of the Earth's surface, are coloured red. The explosion sites and the two sinkholes match these areas.

It is impossible to use 3D orbit

simulation to match any events longer than about 6,000 years ago because such software can only be accurate enough for time periods less than this. All we know about the age of the Chicxulub crater is that it was formed 65 million years ago. The other giant sinkholes which look so tantalisingly out of place where they are, such as the famous Blue Holes in Belize and in the Bahamas, may be 100,000 years or older and we have no accurate dates of creation, so it will never be possible to match them with Geneva using the orbit intersection method.

Is there cause for concern that this micro black hole is stable and could still be growing, deeper inside the Earth?

We can even ask ourselves if the Chicxulub event itself, which, it is stated, brought about the creation of our species by wiping out the dinosaurs, may have been caused by a micro black hole and not by a meteorite, but all we can do is speculate about any possible answer.

Is there cause for concern that this micro black hole is stable and could still be growing, deeper inside the Earth? The truth is, we simply don't know. Established science still believes in the Big Bang Theory and doesn't have a clue that the "greatest experiment in human history", as the LHC has been described, could also be the deadliest.

Professor Stephen Hawking believes that such micro black holes simply evaporate because of the radiation associated with them. A professor at Germany's Max Planck Institute, however, has calculated a 50 per cent chance that they would be stable. Perhaps both are correct,

because it appears that these micro black holes are only stable for a few hours or less, according to the proximity of Geneva and all the explosion sites, or the sites of both sinkholes, in 3D orbit simulations.

LHC Experiments Must Be Stopped!

What should be concerning all of us is that if these prominent physicists were so sure that these micro black holes would form, why has CERN not released any information whatsoever about these having been observed so far? The LHC has caused *hundreds* of these micro black holes, but, because they have all been temporally transferred, CERN is still blissfully unaware of them.

Since my previous article was published, more related atmospheric explosions have been verified: a 30-kT explosion over Afghanistan on 27 September 1962 at 15:29 GMT, and a 13-kT event over Antarctica on 3 September 2004 at 12:07:21 GMT. These also occurred on the rare orbital intersection points, as explained in the article. These bring the number to 10, indicating an impossibly small probability of many billions to one that the connection between these events and the site of Geneva and also the correct time-frame (and orbit) for the operation of the LHC can be "mere coincidence".

The LHC must be shut down *immediately*. Above all, CERN must *not* be allowed to build yet another one. Physicists are already lobbying for a Linear Collider—again, based on the hollow assurances of safety from the same people who were responsible for the LHC. Governments asking for advice from these people, who still believe in the Big Bang Theory, is like you or I consulting the Flat Earth Society for the safest route in planning a world cruise. No wonder we're in such an absolute mess. ∞

(Source: Olaf Thomas Raabe, email otrropie@gmail.com)

SCIENTISTS FIND SURPRISING CHANGES AT SOLAR BOUNDARY

When NASA launched the Interstellar Boundary Explorer (IBEX) on 19 October 2008, space physicists held their collective breath for never-before-seen views of a collision zone far beyond the planets, roughly 10 billion miles away. That's where the solar wind, an outward rush of charged particles and magnetic fields continuously spewed by the Sun, runs into the flow of particles and fields that permeates interstellar space in our neighbourhood of the Milky Way galaxy.

No spacecraft had ever imaged the collision zone, which occurs in a region known as the *heliosheath*, because it emits no light. But the two detectors on IBEX are designed to "see" what the human eye cannot. The interaction of the solar wind and interstellar medium creates energetic neutral atoms (ENAs) of hydrogen which zip away from the heliosheath in all directions. Some of these atoms pass near Earth, where IBEX records their arrival direction and energy. As the spacecraft slowly spins, the detectors gradually build up pictures of the ENAs as they arrive from all over the sky.

Mission scientists got their first surprise six months after launch, once the spacecraft had scanned enough overlapping strips of sky to create a complete 360° map. Instead of recording a relatively even distribution all the way around, as expected, IBEX found that the counts of ENAs—and thus the strength of the interaction in the heliosheath—varied dramatically from place to place. The detectors even discovered a long enhanced "ribbon", accentuated by an especially intense hotspot or "knot" arcing across the sky.

Now scientists have finished assembling a second complete sweep around the sky, and IBEX has again delivered an unexpected result: the

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Ribbon at Edge of Our Solar System: Will the Sun Enter a Million-Degree Cloud of Interstellar Gas?

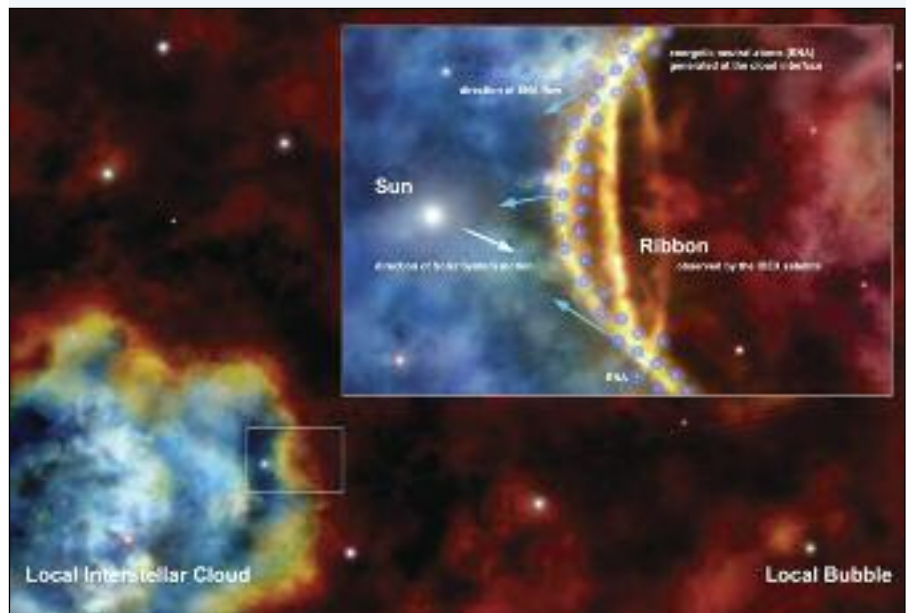
Scientists from the Space Research Centre of the Polish Academy of Sciences, Los Alamos National Laboratory, Southwest Research Institute and Boston University suggest that the ribbon of enhanced emissions of energetic neutral atoms (ENAs), discovered last year by the NASA Small Explorer satellite IBEX, could be explained by a geometric effect coming up because of the approach of the Sun to the boundary between the Local Cloud of interstellar gas and another cloud of very hot gas called the Local Bubble. If this hypothesis is correct, IBEX is catching matter from a hot neighbouring interstellar cloud, which the Sun might enter in 100 years' time.

The first full-sky maps of the emissions of energetic neutral

atoms, obtained last year by IBEX, showed a surprising arc-like feature called the Ribbon. This astonishing discovery was later announced by NASA as one of the most important findings in space exploration made in 2009. Shortly after the discovery, six hypotheses were proposed to explain the Ribbon, all of them predicting its relationship to processes going on within the heliosphere or in its neighbourhood.

In a paper published in *Astrophysical Journal Letters*, a Polish-US team of scientists, led by Professor Stan Grzedzielski from the Space Research Centre in Warsaw, Poland, offers a different explanation. "We observe the Ribbon," says Prof. Grzedzielski, "because the Sun is approaching a boundary between our Local Cloud of interstellar gas and another cloud of a very hot and turbulent gas."

(Source: *ScienceDaily.com*, 24 May 2010, <http://tinyurl.com/23v8hlm>)



The Sun, travelling through the Milky Way galaxy, happens to be crossing a blob of gas about 10 light-years across with a temperature of 6,000–7,000 degrees Kelvin. This so-called Local Interstellar Cloud is immersed in a much larger expanse of a million-degree hot gas, named the Local Bubble. The energetic neutral atoms (ENAs) are generated by charge exchange at the interface between the two gaseous media. ENAs can be observed, provided that the Sun is close enough to the interface. (Source: SRC/Tentaris, ACh/Maciej Frolow)

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map has changed significantly. Overall, the intensity of ENAs has dropped 10% to 15%, and the hotspot has diminished and spread out along the ribbon.

"We thought we might detect small changes occurring gradually throughout the Sun's 11-year-long activity cycle, but not over just six months," notes David McComas, principal investigator for the IBEX mission. "These observations show that the interaction of the Sun with the interstellar medium is far more dynamic and variable than anyone envisioned."

In the past, space physicists had little notion of what to expect along the boundary where the Sun's own magnetic bubble, the heliosphere, meets interstellar space. It takes about a year to reach the heliosphere's edge. Finally, the ENAs take another six months to many years to complete the return trip back to Earth.

With ENAs starting out from such a wide range of distances and travelling back towards Earth at different speeds, IBEX mission scientists had expected that any highs and lows in intensity arising within the heliosheath would be hopelessly smeared out in the spacecraft's all-sky maps. So they're elated by the variations and changes seen so far by IBEX. These early results hint that the solar wind and the interstellar flow might be interacting in a thinner layer than many researchers had imagined possible.

"The public might think that scientists make measurements and instantly know what's going on, but that is not how science really works," McComas observes. "We thought the outer heliosphere would be stable over time—and IBEX is showing us that it's not. This is changing the game completely."

(Source: *ScienceDaily.com*, 30 September 2010, <http://tinyurl.com/34m4qku>)

UPDATE: Knot in the Ribbon at the Edge of the Solar System "Unties"

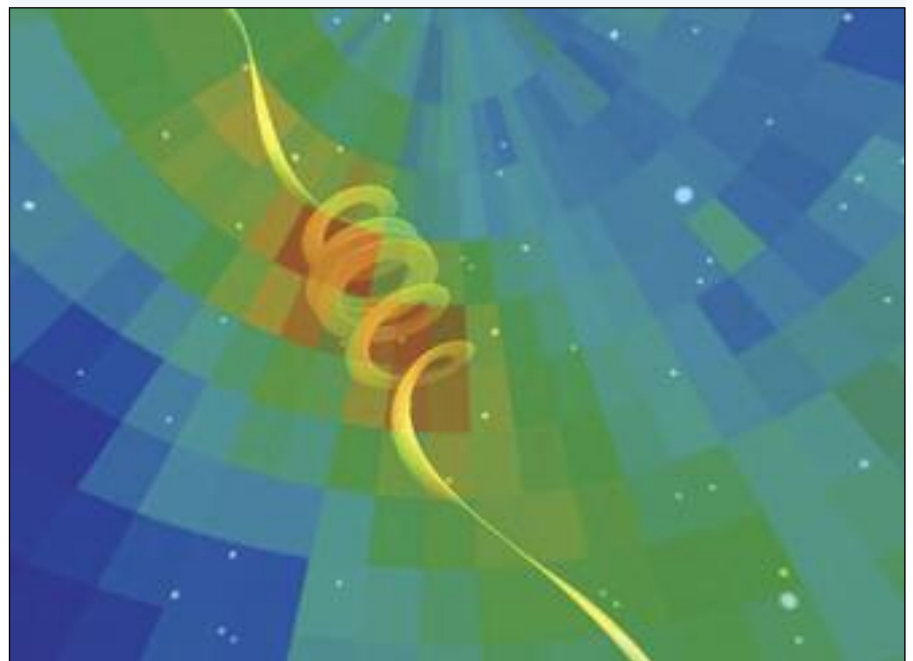
The unusual "knot" in the bright, narrow ribbon of neutral atoms emanating in from the boundary between our solar system and interstellar space appears to have "untied". Researchers believe the ribbon forms in response to interactions between interstellar space and the heliosphere, the protective bubble in which the Earth and other planets reside.

Sensitive neutral atom detectors aboard IBEX produce global maps of this region every six months. Analyses of the first map, released last fall, suggest that the ribbon is somehow ordered by the direction of the local interstellar magnetic field outside the heliosphere, influencing the structure of the heliosphere more than researchers had previously believed. The knot feature seen in the northern portion of the ribbon in the first map stood apart from the rest of the ribbon as the brightest feature at higher energies.

While the second map, released publicly with the just-published paper, shows the large-scale structure of the ribbon to be generally stable within the six-month period, changes are also apparent. The polar regions of the ribbon display lower emissions, and the knot diminishes by as much as a third and appears to "untie" as it spreads out to both lower and higher latitudes.

"What we're seeing is the knot pull apart as it spreads across a region of the ribbon," says Dr David J. McComas, IBEX principal investigator and an assistant vice president at Southwest Research Institute in San Antonio, Texas. "To this day, the science team can't agree on exactly what causes the knot or the ribbon, but by comparing different sky maps we find the surprising result that the region is changing over relatively short time periods. Now we have to figure out why."

(Source: *ScienceDaily.com*, 1 October 2010, <http://tinyurl.com/35msrm6>)



One of the clear features visible in the IBEX maps is an apparent knot in the ribbon. This visualisation shows a close-up of the ribbon (green and red) superimposed on the stars and constellations in the night-time sky. (Source: IBEX Science Team/Goddard Scientific Visualization Studio/ESA)

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WHO PARKED OUR MOON? — AN OFF-WORLD MYSTERY —

Mysterious anomalies concerning the geology and position of our lunar satellite lend support to theories that our Moon was hollowed out by alien intelligences and transported into orbit around the Earth.

by Jim Marrs © 1997–2010

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Despite six announced visits by United States astronauts between 1969 and 1972, the Moon remains a riddle to scientists in many regards. The solution to this riddle could indicate an alien aspect of our familiar Moon.

Dr Robert Jastrow, the first chairman of NASA's Lunar Exploration Committee, called the Moon "the Rosetta Stone of the planets".¹ Scientists had hoped that by studying the composition of the Moon, they would resolve some of the mysteries of how our planet and solar system came into existence. However, six Moon landings later, science writer Earl Ubell declared: "...the lunar Rosetta Stone remains a mystery. The Moon is more complicated than anyone expected; it is not simply a kind of billiard ball frozen in space and time, as many scientists had believed. Few of the fundamental questions have been answered, but the *Apollo* rocks and recordings have spawned a score of mysteries, a few truly breath-stopping."²

Moon Rocks, Water Vapour and Moonquakes

Among these "breath-stopping" mysteries, or "anomalies" as scientists prefer to call them, is the fact that the Moon is far older than previously imagined, perhaps even much older than the Earth and the Sun. By examining tracks burned into Moon rocks by cosmic rays, scientists have dated the rocks as billions of years old, some as far back as 4.5 billion years—far older than the Earth and "nearly as old as the solar system".³

The Moon has at least three distinct layers of rocks. Contrary to the idea that heavier objects sink, the heavier rocks are found on the surface. And there is a definite disparity in the distribution of minerals.

Ubell asked: "If the Earth and Moon were created at the same time, near each other, why has one body [the Earth] got all the iron and the other [the Moon] not much? The differences suggest that Earth and Moon came into being far from each other, an idea that stumbles over the inability of astrophysicists to explain how exactly the Moon became a satellite of the Earth."⁴

The Moon is extremely dry and does not appear ever to have had water in any substantial amounts. None of the Moon rocks, regardless of where they were found, contained free water or even water molecules bound into the minerals. Yet *Apollo 16* astronauts found Moon rocks that contained bits of rusted iron. Since oxidation requires oxygen and free hydrogen, this rust indicates there must be water somewhere on the Moon.

Furthermore, instruments left behind by *Apollo* missions sent a signal to Earth on 7 March 1971, indicating that a "wind" of water had crossed the Moon's surface.⁵ Since any water on the airless Moon surface vaporises and behaves like the wind on Earth, the question became: where did this water originate? The vapour cloud eruptions lasted 14 hours and covered an area of some 100 square miles, prompting Rice University physicists Dr John Freeman, Jr, and Dr H. Ken Hills to pronounce the event one of "the most

exciting discoveries yet" indicating water within the Moon.⁶ The two physicists claimed that the water vapour came from deep inside the Moon, apparently released during a moonquake. NASA officials offered a more mundane, and questionable, explanation. They speculated that two tanks on *Apollo* descent stages containing between 60 and 100 pounds [27 and 45 kilograms] of water became stressed and ruptured, releasing their contents. Freeman and Hills declined to accept this explanation, pointing out that the two tanks—from *Apollo* 12 and 14—were some 180 kilometres apart, yet the water vapour was detected with the same flux at both sites although the instruments faced in opposite directions. Sceptics also have understandably questioned the odds of two separate tanks breaking simultaneously and how such a small quantity of water could produce 100 square miles of vapour.

Moon rocks were found to be magnetised—not strong enough to pick up a paper clip, but magnetic nevertheless. Yet there is no magnetic field on the Moon itself. So where did the magnetism come from?

The presence of maria, or large seas of smooth solidified molten rock, also presented a mystery. These maria indicate nothing less than a vast outpouring of lava at some distant time. It has now been confirmed that some of the Moon's craters are of internal origin. Yet there is no indication that the Moon has ever been hot enough to produce volcanic eruptions. Another puzzle is that almost all—four-fifths—of the maria are located on the Moon's Earthside hemisphere. Few maria mark the far side of the Moon, often erroneously referred to as the "dark side". Yet the far side contains many more craters and mountainous areas. In comparison to the rest of the Moon, the maria are relatively free of craters, suggesting that the craters were covered by lava flow.

Adding to this mystery are the mascons: large, dense, circular masses lying 20 to 40 miles [32.2 to 64.4 kilometres] below the centre of the Moon's maria. The mascons were discovered because their denseness distorted the orbits of our spacecraft flying over or near them. One scientist proposed that the mascons are heavy iron meteorites that plunged deep into the Moon while it was in a soft, formable stage. This theory has been discounted, since meteorites strike with such high velocities that they would vaporise on contact. Another mundane explanation is that the mascons are nothing more than lava-filled caverns, but sceptics say there isn't enough lava present to fill the caverns. It would seem that these mascons are huge disc-shaped objects, possibly of artificial construction. It is unlikely that

large circular discs located directly under the centre of the maria like a giant bulls-eye happened by accident or coincidence.

Between 1969 and 1977, *Apollo* mission seismographic equipment registered up to 3,000 "moonquakes" in each year of operation. Most of the vibrations were quite small and were caused by meteorite strikes or falling booster rockets. But many other quakes were detected deep inside the Moon. This internal creaking is believed to be caused by the gravitational pull of our planet, as most moonquakes occur when the Moon is closest to the Earth.

An event occurred in 1958 in the Moon's Alphonsus crater, which shook the idea that all internal moonquake activity is simply settling rocks. In November of that year, astronomer Nikolay A. Kozyrev of the Crimean Astrophysical Observatory startled the scientific world by

photographing the first recorded gaseous eruption on the Moon near the crater's peak. Kozyrev attributed this to escaping fluorescent gases. He also detected a reddish glow characteristic of carbon compounds, which "seemed to move and disappeared after an hour".⁷ Some scientists refused to accept Kozyrev's findings until astronomers at the Lowell Observatory in 1963 saw reddish glows on the crests of ridges in

the Aristarchus region. Days later, two separate observatories reported coloured lights on the Moon lasting more than an hour.

Something was going on inside the volcanically dead Moon. And whatever it is, it occurs the same way at the same time. As the Moon moves closer to the Earth, seismic signals from different stations on the lunar surface detect identical vibrations. It is difficult to accept this movement as a natural phenomenon. For example, a broken artificial hull plate could shift exactly the same way each time the Moon passed near the Earth.

The Hollow Moon Theory

There is evidence to indicate that the Moon may be hollow. Studies of Moon rocks indicate that the Moon's interior differs from the Earth's mantle in ways suggesting a very small, or even nonexistent, core.

Back in 1962, NASA scientist Dr Gordon MacDonald stated: "If the astronomical data are reduced, it is found that the data require that the interior of the Moon be less dense than the outer parts. Indeed, it would seem that the Moon is more like a hollow than a homogeneous sphere."⁸

Apollo 14 astronaut Dr Edgar Mitchell, while scoffing at the possibility of a hollow Moon, nevertheless admitted that, since heavier materials are on the surface, it is

The two physicists claimed that the water vapour came from deep inside the Moon, apparently released during a moonquake.

quite possible that giant caverns exist within the Moon.⁹

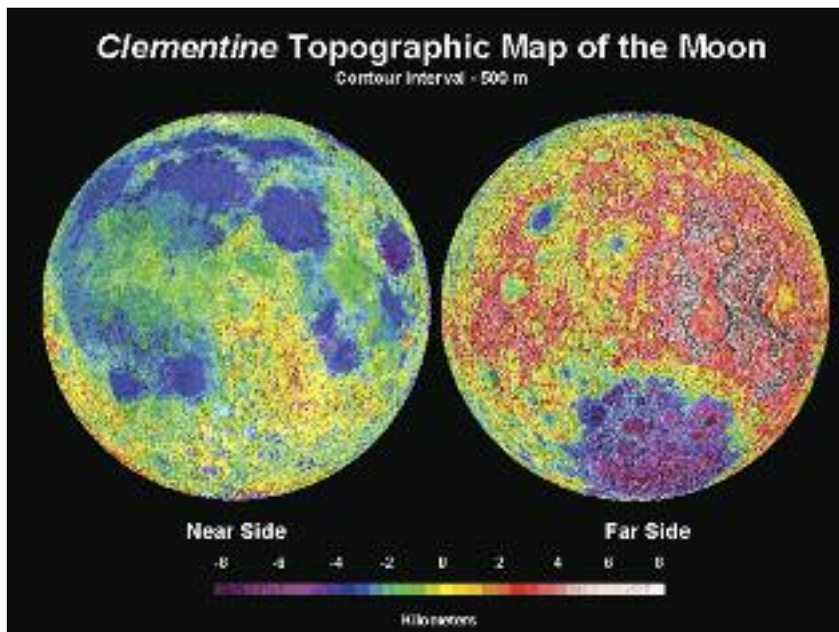
MIT's Dr Sean C. Solomon wrote: "The Lunar Orbiter experiments vastly improved our knowledge of the moon's gravitational field...indicating the frightening possibility that the moon might be hollow."¹⁰ Why "frightening"? The significance was stated by astronomer Carl Sagan in his 1966 co-written work *Intelligent Life in the Universe*: "A natural satellite cannot be a hollow object."¹¹

The most startling evidence that the Moon could be hollow came on 20 November 1969 when the *Apollo 12* crew, after returning to their command ship, sent the lunar module (LM) ascent stage crashing back onto the Moon, creating an artificial moonquake. The LM struck the surface about 40 miles from the *Apollo 12* landing site, where ultra-sensitive seismic equipment recorded something both unexpected and astounding: the Moon reverberated like a bell for more than an hour. The vibration wave took almost eight minutes to reach a peak, and then decreased in intensity.

At a news conference that day, one of the co-directors of the seismic experiment, Maurice Ewing, told reporters that scientists were at a loss to explain the ringing. "As for the meaning of it, I'd rather not make an interpretation right now. But it is as though someone had struck a bell, say, in the belfry of a church, a single blow and found that the reverberation from it continued for 30 minutes."¹² It was later established that small vibrations had continued on the Moon for more than an hour.

The phenomenon was repeated when *Apollo 13*'s third stage was sent crashing onto the Moon by radio command, striking with the equivalent of 11 tons of TNT. According to NASA, this time the Moon "reacted like a gong".¹³ Although seismic equipment was more than 108 miles from the crash site, recordings showed that the reverberations lasted for three hours and 20 minutes and travelled to a depth of 22 to 25 miles [35.42 to 40.25 kilometres]. Subsequent studies of man-made crashes on the Moon yielded similar results. After one impact, the Moon reverberated for four hours.

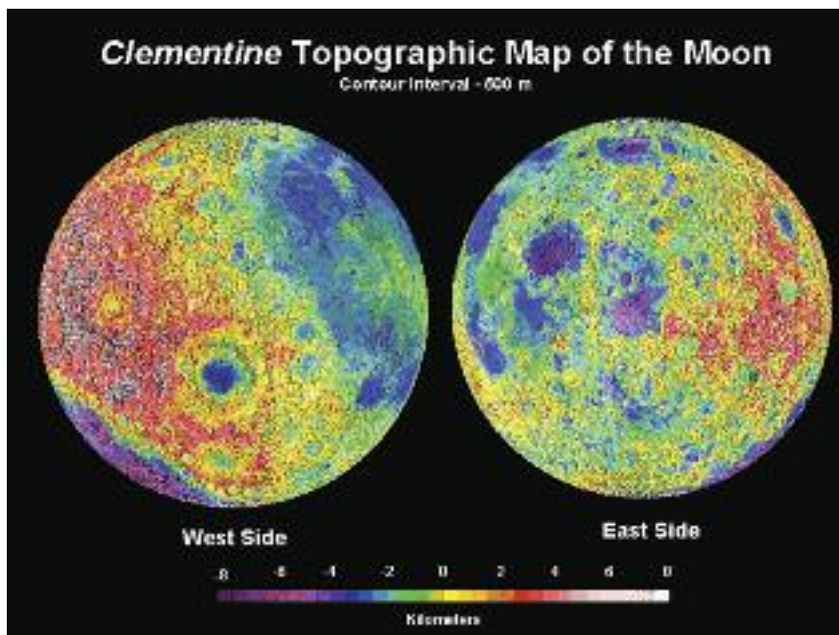
This ringing, coupled with the density problem on the Moon, reinforces the idea of a hollow moon. Scientists hoped to record the impact of a meteor large enough to send shock waves to the



Clementine Topographic Map of the Moon (Near/Far Side)
Image of Clementine laser altimetry (red = high; purple = low).
(Source: Lunar and Planetary Institute)

Moon's core and back, and settle the issue. That opportunity came on 13 May 1972 when a large meteor struck the Moon with the equivalent force of 200 tons of TNT, sending shock waves deep into the interior of the Moon. Scientists were baffled to find that no shock waves returned, confirming that there is something unusual about the Moon's core, or lack thereof.

Lunar scientist Dr Farouk El-Baz was quoted as saying: "There are many undiscovered caverns suspected to exist beneath the surface of the Moon. Several experiments have been flown to the Moon to see if there



Clementine Topographic Map of the Moon (East/West).
Image of Clementine laser altimetry (red = high; purple = low).
(Source: Lunar and Planetary Institute)

actually were such caverns."¹⁴ The results of these experiments have not been made public.

It seems apparent that the Moon has a tough hard outer shell and a light or nonexistent interior. The Moon's shell contains dense minerals such as titanium, used on Earth in the construction of aircraft and space vehicles. Many people still recall watching our astronauts on TV as they vainly tried to drill through the crust of a Moon maria: their specially designed drills could only penetrate a few inches.

The puzzle of the Moon's hard surface was compounded by the discovery of what appeared to be processed metals. Experts were surprised to find lunar rocks bearing brass, mica and amphibole in addition to near-pure titanium. Uranium-236 and neptunium-237—elements not previously found in nature—were discovered in Moon rocks, according to the Argonne National Laboratory. While still trying to explain the presence of these materials, scientists were further startled to learn of rust-proof iron particles in a soil sample from the Sea of Crisis. In 1976, Associated Press reported that the Soviets had announced the discovery of iron particles that "do not rust" in samples brought back in 1970 by an unmanned Moon mission.¹⁵ Iron that does not rust is unknown in nature and is well beyond present Earth technology's ability to produce.

Theories on the Moon's Origins

Undoubtedly the greatest mystery concerning our Moon is how it came to be there in the first place. Prior to the *Apollo* missions, one serious theory as to the Moon's origin was that it broke off the Earth aeons ago. Although no one could positively locate where on Earth it originated, many speculated that the loss of material explained the huge gouge in the Earth which forms the Pacific Ocean. However, this idea was discarded when it was found that there is little similarity between the composition of our world and that of the Moon.

A more recent theory had the Moon created out of space debris left over from the creation of the Earth. This concept proved untenable in light of current gravitational theory, which indicates that one large object will accumulate all loose material, leaving none for the formation of another large body. It is now generally accepted that the Moon originated elsewhere and entered the Earth's gravitational field at some point

in the distant past.

Here theories diverge: one states that the Moon was originally a planet which collided with the Earth, creating debris which combined to form the Moon; and another states that the Moon, while wandering through our solar system, was captured and pulled into orbit by the Earth's gravity. Neither of these theories is especially compelling because of the lack of evidence that neither the Earth nor the Moon seems to have been physically disrupted by a past close encounter. There is no debris in space indicating a past collision, and it does not appear that the Earth and the Moon developed during the same time period.

As for the "capture" theory, even scientist Isaac Asimov, well known for his works of fiction, wrote: "It's too big to have been captured by the Earth. The chances of such a capture having been effected and the Moon then having taken up nearly circular orbit around our Earth are too small to make such an eventuality credible."¹⁶

Asimov was right to consider the Moon's orbit: it is not only nearly a perfect circle; it is stationary, one side always facing the Earth with only the slightest variation. As far as we know, it's the only natural satellite with such an orbit. This circular orbit is especially odd, considering that the Moon's centre of mass lies more than a mile closer to the Earth than its geometric centre. This fact alone should produce an unstable, wobbly orbit, much as a ball with its mass off centre will not roll in a straight line. Additionally, almost all of the other satellites in our solar system orbit in the plane of

their planet's equator. Not so the Moon, whose orbit lies strangely nearer the Earth's orbit around the Sun or inclined to the Earth's ecliptic by more than five degrees. Add to this the fact that the Moon's bulge, located on the side facing away from Earth—thus negating the idea that it was caused by the Earth's gravitational pull—makes for an off-balanced world.

It seems impossible that such an oddity could naturally fall into such a precise and circular orbit. It is a fascinating conundrum, as articulated by science writer William Roy Shelton: "It is important to remember that something had to put the Moon at or near its present circular pattern around the Earth. Just as an *Apollo* spacecraft circling the Earth every 90

If the precise and stationary orbit of the Moon is seen as sheer coincidence, is it also coincidence that the Moon is at just the right distance from the Earth to cover the Sun completely during an eclipse?

Continued on page 80



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AN INTERVIEW WITH ZECHARIA SITCHIN

by Paola Leopizzi Harris © 2003

On 9 October 2010, the historian and author Zecharia Sitchin died at the age of ninety. As a tribute to him and his extraordinary body of work, we publish this interview with him by the Italian-American UFO investigator Paola Leopizzi Harris. Editor

The Old Guard

Scholars have travelled the entire world looking at historical artefacts and documents as evidence that possibly humankind could have been seeded by alien races. One of the most powerful proponents of this theory is prolific writer, researcher and historian Zecharia Sitchin, and his evidence is pretty convincing.

The following interview took place on 5 May 2003, a time when many people had questions about the ransacking of the National Museum of Iraq and the possible return of the planet Nibiru.

In *The Earth Chronicles*, Mr Sitchin

tells, based upon his interpretations of ancient Sumerian clay tablets, the story of humankind, our origins, how we were created, and details of the overall plan. Earth's history originates with the stories of gods who interact with humans, and most divine stories are similar. We know them as mythology. Sitchin researched these concepts for 30 years, travelling the world and examining thousands of artefacts, artworks and archaeological locations to reach the following conclusions.

(a) The Sumerians wrote the story of humankind on clay tablets 6,000 years ago in what is now Iraq, where, in the ages past, a sophisticated, advanced and well-organised civilisation suddenly bloomed in the Mesopotamian area.

(b) They knew that the Sun is the centre of the planetary system and they knew of planets that we have just discovered in the last 150 years, including Pluto in 1930.

(c) The key to the mystery lies in a planet that once orbited between Mars and Jupiter, but which does not

exist today. In its place lies the asteroid belt. The Sumerians called this planet Nibiru, and it is represented in ancient writings and art. This "invader planet" has a 3,600-year elliptical, retrograde orbit around our Sun, and it may soon be returning our way.

Sitchin says that it took him 30 years of research to discover this, but he had to pause for five years until he found an answer to the creation of humankind itself. This he found in the Mesopotamian epic of creation called *Enuma Elish*, which was written on seven clay tablets. Six tablets tell about the creation of the solar system and planets, and the seventh glorifies the Creator, much like Genesis in the Bible (the creation of the seven-day week).

According to these ancient texts, humanity was genetically created by the Anunnaki ("Those who from Heaven to Earth came"). Fifty of them splashed down in the Persian Gulf 432,000 years ago and genetically engineered a race to mine gold for them in southeastern Africa. They needed gold for a

protective shield over their planet. To create humans, they did some serious genetic manipulation on an already existing hominid species.

They left behind symbols found in ancient cultures, such as the winged disc, and evidence of nuclear destruction. Mission control for their flying craft was in what is now Israel, an area that was as significant then as it is now. — P. H.

Modern and Ancient Conflicts

Paola Harris (PH): What is the significance of the destruction of the thousands of artefacts in the National Museum in Baghdad? Does it destroy the legacy left by the early people of the Fertile Crescent, including the Anunnaki?

Zecharia Sitchin (ZS): While the subject of the fate of the archaeological objects in the museum should be of concern to everyone interested in the preservation of art, culture and history, the matter is, of course, of special interest to me and my worldwide readers because my writings, beginning with *The 12th Planet* [1976], are profoundly based on the archaeological evidence from ancient Mesopotamia—beginning with the Sumerian civilisation, continuing with the Akkadian, Babylonian and Assyrian, and

encompassing the other adjoining civilisations that followed.

The National Museum of Iraq in Baghdad was a major depository of such artefacts, but fortunately not the only one. In the early days of modern archaeology, most of the discovered artefacts were carried off to the museums of the archaeologists' countries—London, Paris, Berlin, Milan, etc.—and later divided between them and the local museums.

So, first, the loss is not total. Second, it is now clear that of the reported 170,000 items in the Baghdad Museum, only 29 important artefacts were missing—some have been returned since—and these ones of course have been studied, photographed, etc., and are well known to scholars. Although the loss is not as massive as initially reported, the looting that took place, the smashing of display cases, thus damaging their contents, and the breaking of larger monuments that could not be carried off—this was nothing short of pure barbarism, unforgivable behaviour.

So the legacy that these museum collections represents was not and cannot be destroyed; it lives on in the other museums and, of course, in the books on the subject, such as mine, in videos, etc.

PH: Could there be a secret connection between this war and antiquity?

ZS: By advancing from the subject of the artefacts to the issue of the geographic location of the conflict, you are in reality raising two other very significant subjects. The first is that of hallowed or sacred ground; the other is that of prophecy.

If you travel in the lands of the Bible, you realise that a mosque is built exactly where a Byzantine church had stood, and that it was built where there had been a synagogue, and that one, too, was built exactly there because the place was revered even in earlier times.

Over the thousands of years of Mesopotamian civilisation—from the beginning of Sumer circa 4000 BC to the conquest of Alexander and the Seleucid rulers in the last centuries BC—royal inscriptions repeatedly state that it was the custom and the duty of kings to rebuild temples exactly where the previous ones stood. Conqueror after conqueror in antiquity adhered to this tradition, but neither the British after World War I nor the Americans this time have such a compulsion to build houses of worship upon ancient sites.

So the issue of interest is one of prophecy. Though Baghdad is a relatively new city and is not a continuation of Babylon, nor built where it was, there are biblical prophecies about the fall of Babylon as part of a Divine Plan. The question is whether such prophecies were one-time prophecies, i.e., just specific to Babylon, as an example, in the sixth century BC only, or whether these are eternal prophecies, applicable again and again when the circumstances and the Wheel of Time apply. I believe in the latter. I have repeatedly stated that "the past is the future" because the Anunnaki, the people, and the civilisations they bequeathed to



"No, no, don't pick him up. He'll just want us to take him all the way to Andromeda."

humankind are subject to a grand historical cycle.

Nuclear War and the Diaspora

PH: In your works, you mention that a nuclear explosion destroyed the Sumerians. What kind of weapons do you think they employed?

ZS: The use of nuclear weapons in 2024 BC is, first of all, of significance because it relates to the more general and bothering question: why are there wars on Earth? In my book on the subject, *The Wars of Gods and Men* [1985], I raised the question: is man born a warrior, or did someone teach us to make war? The answer is the latter: before the wars of man, there were the wars of the gods.

It was during the conflict between Horus and Seth, according to unambiguous Egyptian texts, that humans were given arms and enlisted to fight—on the side of Horus that time.

And so it was that in the conflict between the two clans of Anunnaki, nuclear weapons were used to wipe out the spaceport in the Sinai—an event reflected in the biblical tale of Sodom and Gomorrah. Before that, there was an international war related to the spaceport: the so-called War of the Kings in Genesis, chapter 14. The nuclear cloud from the explosion in the Sinai was carried by the winds eastward to Mesopotamia, and numerous Lamentation Texts describe how the Evil Wind—the nuclear cloud—killed all life in Sumer. Thus, there was no actual explosion in Sumer. The cities, the buildings, remained intact; people, animals, plants died. It is interesting in this regard to recall that, as it happened, the winds carried the poisonous cloud in such a way that Sumer itself was affected, but not Babylon to the north.

So already in antiquity it was pondered: was this a divine omen, the hand of Destiny? Even the

Anunnaki opposed to Marduk, the instigator of the war, considered that to be a manifestation of Destiny and accepted Marduk's supremacy. As to what kind of nuclear weapons were used, the texts do not specify.

PH: What do you think happened to the survivors of the conflict?

ZS: The Sumerian Lamentation Texts indicate that the "gods" realised as soon as the explosion took place that a calamity would engulf Sumer hundreds of miles away. So the texts describe a hurried departure by the gods and their warnings to their followers to escape as well—not to try to hide, because there was no hiding from the cloud, but to run away to the north and farther east.

The result was the first recorded diaspora. Remnants led by their gods found their way, in time, to what we call Iran and India (thus the same tales of the gods are in the Sanskrit texts), to the Far East (thus the Chinese, Korean and Japanese scripts that are based on the Sumerian cuneiform), to eastern Europe (the lands of the god whose symbol was the double-headed eagle), along the Danube (thus the Hungarian legends and language), etc.

PH: If the Anunnaki colonised this entire planet, what other traces are there?

ZS: Everywhere! Besides the lands and people I just mentioned, there were the more distant Americas. In my book *The Lost Realms* [1990], dedicated to the Americas, I show connections, the evidence. You find the same gods, even if called by local tongues, e.g., the Sumerian Ningishzidda = the Egyptian Thoth = the Mesoamerican Quetzalcoatl; the same legends of Creation; the same astronomical recognition of equinoxes and solstices as a guide to temple orientations, etc.

Return of Nibiru and the Anunnaki

PH: What is your opinion of the return of Nibiru? Many people are becoming fearful of this. What consequences will this return have on the planet?

ZS: Nibiru, which is the home planet of the Anunnaki according to the Sumerians, has a great elliptical orbit that lasts, by definition, one year for its inhabitants but 3,600 Earth years as counted by us Earthlings. I have been asked many times when it will next be in our



Zecharia Sitchin (left) with Vatican representative Monsignor Corrado Balducci.

vicinity, passing between Mars and Jupiter, and, if I don't give an answer, the question is changed to "When was it last time?", so people just add 3,600 years. I have done my best in lectures, on my website, etc., to stress that 3,600—a *šár* in Sumerian—is a mathematical number, not a precise orbital number, because orbits change with each passage. We know it from Halley's comet. We know it from the changing configuration of Earth's orbit. In addition, how Nibiru affects Earth is also not the same each time. Whether other planets stand between it and Earth is also not the same each passage. Is Earth directly exposed to its gravitational, magnetic and other effects? One time, we know, it caused the Deluge, but not after that one, circa 13,000 years ago.

PH: When will Nibiru be visible in your estimation?

ZS: Nibiru is without doubt on its way back from its farthest point out, its aphelion. The leading searcher for what astronomers call "Planet X", Dr Robert Harrington of the US Naval Observatory, agreed with me about where it probably was a few years ago; his sketch or sky-map is given in my book *Genesis Revisited* [1990]. In that book, I also provide the evidence from the discovery by IRAS [Infrared Astronomical Satellite], a satellite launched by NASA, that twice traced the planet in 1983 by infra-red, i.e., by heat emission, not by light reflection. So those who need to know, have known at least since 1983. NASA is about to launch a new, more sophisticated infra-red space telescope. When will Nibiru be visible from Earth with regular telescopes? I cannot say, as I am not in the telescope field of expertise.

Let me make clear, however, what I have stated in my lectures again and again: the return of the Anunnaki

and the return of the planet do not and cannot coincide for reasons of space travel and trajectories. I thus believe that the prophesied return or second coming is now applicable to the Anunnaki, even if not to their planet.

PH: Do you see any additional evidence that Mars is an outpost for an alien race that might also be the Anunnaki?

ZS: As a matter of fact, the evidence from Mars is one reason why I am so confident of the statement I just made. There is no doubt, from NASA's own photographs from the 1970s, that

The main "discovery" by me is the belief that while others refer to all that as "mythology", I say, "No, these are records and recollections of what actually happened".

there are artificial structures on Mars other than the "Face"; I include such photos in *Genesis Revisited*. The experts now admit, contrary to previous claims that Mars is a dead, airless, waterless uninhabitable planet, that it did have, and still has, plenty of water, that it even had seas and lakes, that it had an atmosphere.

So the Sumerian assertion that Mars served as a way station on the way from Nibiru to Earth, which, when I wrote *The 12th Planet* in 1976, was deemed by others as impossible, now is admitted as very possible.

The crucial piece of evidence is what I called in *Genesis Revisited* "The Phobos Incident", when in 1989 a Soviet spacecraft first photographed the shadow of an elliptical object on

Mars and then was destroyed by a missile fired from Phobos, a moonlet, possibly an artificial satellite, of Mars. I wrote then that though it may not be the Anunnaki themselves who are back, it was their "emissaries"—robotic artificial beings. This was enlarged upon in my TV documentary *Are We Alone?* [DVD, 2003], in which the Soviet space officials were quite outspoken.

Ancient Knowledge Corroborated

PH: What are the most current discoveries you have made?

ZS: I have made it a point of stressing that the various artefacts, clay tablets, etc., which I use as evidence, were not discovered by me. They are the result of archaeological discoveries by others over a century and a half, the work of scholars, translators, epigraphers, biblical scholars, etc.

The main "discovery" by me is the belief that while others refer to all that as "mythology", I say, "No, these are records and recollections of what actually happened". That is why the overall title for my series of books is *The Earth Chronicles* [1976–2007]. If "discovery" is understood that way, my recent discovery has been this: that every year, every month, sometimes every day, as our science advances—in space, in astronomy, in geology, in biology, in genetics—I "discover" more and more corroboration for what, as I understand it, the ancient people knew. More than ever, the subtitle of *Genesis Revisited*—"Is modern science only catching up with ancient knowledge?"—is becoming more and more true.

PH: What is the overall message of *The Earth Chronicles*?

ZS: The message is: we are not alone. The DNA on Earth, which is the basis of all life from microbes to

Continued on page 82

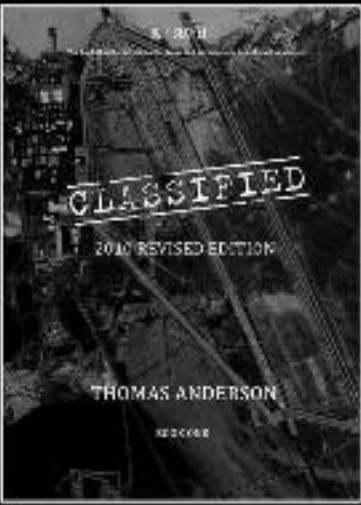
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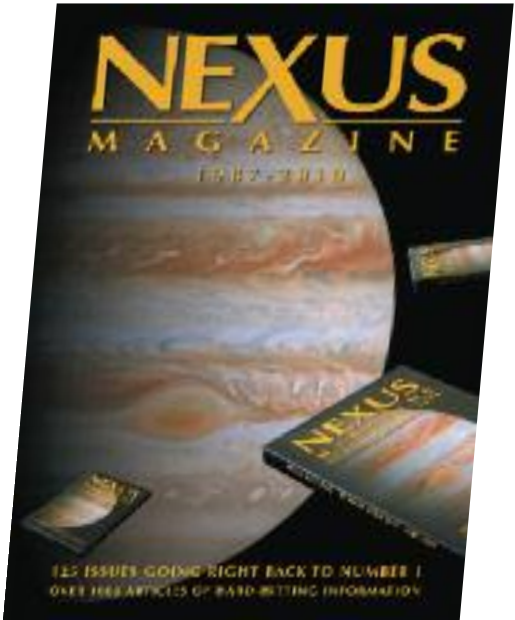
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REVIEWS

BOOKS

Reviewed by Ruth Parnell

HEALTHY HOME, HEALTHY FAMILY

by Nicole Bijlsma, ND

Joshua Books, Qld, Australia, 2010
ISBN 978-0-9807898-1-2 (336pp tpb)
Available: www.joshuabooks.com

Is your house making you sick? If so, it could be due to EM fields from household wiring, appliances or wireless communication systems, natural radiation such as that which causes geopathic stress, or radioactive radon gas emissions. Or it could be due to poor-quality drinking water, allergens or chemicals. There's a huge list of culprits. Here, Nicole Bijlsma addresses all these concerns and gives workable advice on how to get around these domestic risk factors.

Bijlsma is a naturopath and acupuncturist who, finding her calling in environmental medicine, explored the built environment and how it affects our health. Inspired by the German *bau biologie* movement, in 1999 she founded the Australian College of Environmental Studies (see www.buildingbiology.com.au). Her passion is also fired by her own experience of living in a sick home:

her sleeping on the other side of a wall to a meter box may well have led to her having 10 miscarriages.

In her accessible guidebook, Bijlsma lists what you need to consider before renting or buying a home, including pointers about the land itself as well as possible toxin sources in the home and how to identify, investigate and overcome them. If you want a healthy home and a healthy family, you can't go past this book for the right technical advice based on solid research and an inspired, eco-sound approach.

THE STORY OF WATER

by Alick Bartholomew

Floris Books, Edinburgh, 2010
ISBN 978-086315-738-7 (328pp tpb)
Available: www.florisbooks.co.uk

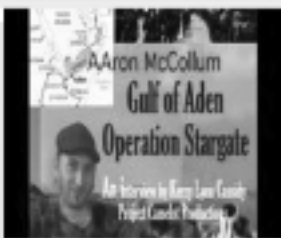
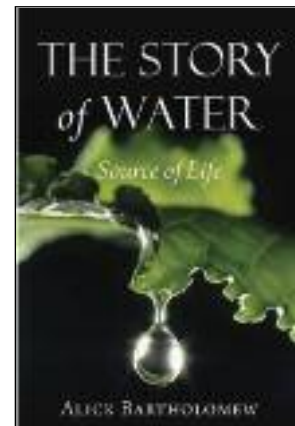
Water is not just the source of life, it's a medium of communication between all living organisms. So asserts Alick Bartholomew, who's made it his life's work to reconcile scientific enquiry with a spiritual world-view. (He's the author of *Hidden Nature: The Startling Insights of Viktor Schaubberger*, reviewed in 11/02.)

In this unique, wide-ranging work, which includes some beautiful colour plates, Bartholomew reiterates the importance and characteristics of water, its purpose in the Cosmos and

our solar system, its atmospheric and terrestrial cycles, and its role in nurturing animal and plant life as well as evolutionary progress. He also revisits Schaubberger's insights into the nature of living water.

As the source of life, water behaves like an organism, says Bartholomew, and has quantum qualities, self-organising abilities and the capacity to store and transfer information. The pioneering work of Jacques Benveniste and Masaru Emoto, among others, is highlighted here.

Bartholomew gives an holistic, big-picture analysis of our global water crisis, climate change symptoms, population problems and food production concerns. He urges us to enter into a creative partnership with water, as it has so much to teach us.



GULF OF ADEN: OPERATION STARGATE DVD

Aaron McCollum Interview w/Project Camelot- January 2010

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Breaking news, MUST see!... Aaron McCollum is a very bright straight-shooter, who is coming forward at this time to raise awareness regarding what he believes is going on in the **Gulf of Aden cover-up**.

He considers himself to be a third generation member of the **MK-Ultra Project Talent**, the same project that Duncan O'Finioan and Dave Corso were a part of. Specifically, he was involved from a young age in a top secret program called **Project Seagate**. More about this to come in a

second interview, as he will try to gather more pertinent information from other associates. He is a former leader of a special unit for the U.S Coast Guard, and is coming forward at great risk because he firmly believes the time to speak out is now.

In this revealing interview Aaron McCollum discusses: Somali pirates in the Gulf of Aden is a false flag operation for something much, much bigger going on in that area, an underwater base being used for genetic engineering, that the stargate opened up officially on January 5 2010, drug-running operations, are these ETs friendly or evil that have opened up the stargate, the Dolphin-Human alignment frequency, the possibility of Dolphin DNA being infused with Aaron's DNA, the galactic war for this prize planet, the disappearance of his contacts, and his continued heavy surveillance, I lack the emotion of fear; I am not afraid, I need to do this! **Pal HD (High Definition) 1 hr:26 mns**

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REVIEWS



DOWSING: The Ultimate Guide for the 21st Century by Elizabeth Brown

Hay House, London, 2010

ISBN 978-1-84850-220-8 (306pp tpb)

Available: www.hayhouse.co.uk

The ancient art of dowsing is given a 21st-century treatment by Elizabeth Brown in her no-nonsense guidebook for practitioners and novices alike. Dowsing is all about tapping into the information field that exists beyond the five senses, and is used in agriculture, mining, police investigations, environmental science, health care and many more fields with great success. Its prime detractors are dogmatic scientists and religious folk who see dowsing as being magic or the work of the devil.

Brown brings a rational approach to dowsing, explaining the changing perceptions about the art over the centuries. She gives a rundown on dowsing tools and how to fine-tune them to work for you. She provides a scientific foundation for how dowsing interacts with subtle energies along quantum physics lines, as well as how this "seventh sense" can be utilised for accessing the truth about any situation, however noble or mundane, and dealing with unwanted interference. Dowsing is not something to be obsessive about but

to incorporate into our lives and use when the need arises, Brown advises in her inspirational book.

RAISING A VACCINE FREE CHILD by Wendy Lydall

Inkwazi Press, New Zealand, 2009;

Emryss Pub., The Netherlands, 2010

ISBN 978-1-4421-0180-7 (314pp tpb);

978-0-6465-2417-7 (330pp tpb)

Available: www.nexusmagazine.com;

www.vaccinefreechild.com;

<http://tinyurl.com/2cqW28r>

In her well-referenced book, Wendy Lydall dispels 13 myths about vaccinations, including that the benefits are worth the risks, that without vaccinations there would be epidemics, and that vaccines are scientifically and clinically tested for their safety and effectiveness.

Once upon a time we contracted common childhood diseases and came out the other side okay, without any intervention from vaccines; but now these diseases, such as measles, mumps and chicken pox, are treated as malevolent infectious diseases requiring vaccinations but have resulted in a large-scale decline in immunity as well as many undesirable side effects worse than the diseases themselves...and there's no side effect worse than death.

Lydall has much to say, too, about

the denial and/or dishonesty of some health care providers, medical bureaucrats, vaccine manufacturers and high-level officials on vaccine safety issues, and she cites examples that plunge the reader into despair. Her exposé of sham studies designed to cover up the vaccine connection to SIDS (cot death) is disturbing. And her revelation that homoeopathic vaccines, bringing an alien vibration into the body, are not necessarily safe, either, sets alarm bells ringing.

Vaccinations are causing far more harm than the diseases they are meant to prevent and are a tool for sociopolitical control, says Lydall in her hard-hitting, science-based book that helps parents find their way through the vaccination maze.



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REVIEWS

THE POT BOOK: A Complete Guide to Cannabis

edited by Julie Holland, MD

Park Street Press, USA, 2010

ISBN 978-1-59477-368-6 (576pp tpb)

Available: www.ParkStPress.com

Cannabis has a 38-million-year history, and humans have co-evolved with this plant to the extent that we have substances in our brain and bloodstream that mimic the cannabinoids. For this assessment of cannabis, its risks and benefits as well as its implications in drug policy, psychiatrist Julie Holland, MD, who specialises in psychopharmacology, has assembled contributions from experts including psychiatry professor Lester Grinspoon, MD, author of *Marijuana, The Forbidden Medicine*, who also provides the foreword.

Dr Holland introduces each of the five sections: an overview including recent history, botany, biochemistry and prohibition; risks of use and harm reduction, including cognition and addiction issues and the consequences of convictions; clinical use including medical marijuana research and government-sponsored dispensaries; plus cannabis culture and gardeners' rights. Also covered are legal cannabis prescription in California, Dutch drug policy and a cost-benefit analysis of legalising

marijuana. Dr Holland contributes several chapters, including an interview with Michael Pollan of *Botany of Desire* fame.

The Pot Book blows away the myths and misconceptions associated with marijuana use and offers social and political solutions to what need not be an intractable problem.

HOLISTIC ANATOMY

by Pip Waller

North Atlantic Books, Berkeley, 2010

ISBN 978-1-55643-865-3 (396pp tpb)

Available: northatlanticbooks.com

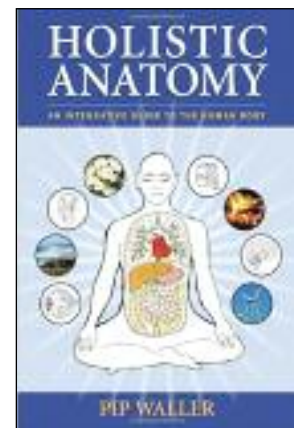
Our miraculous bodies are spirit manifested as flesh, says Wales-based medical herbalist Pip Waller in her refreshing, holistic perspective on anatomy and physiology. Her book, which includes information that's not taught in medical schools, is an alternative to a medical textbook and is aimed at students of holistic medicine and energy healing as well as interested laypeople.

In the first section, Waller examines the structure and function of the body, its biochemistry and histology as well as all the systems within it, such as the muscular, circulatory, lymphatic, respiratory, endocrine, reproductive and digestive. She explains how all these systems are interrelated and gives advice on

keeping them ship-shape. Unusually for such a book, Waller also explores the ageing and death processes, her take influenced by ancient Chinese and shamanistic healing practices (detailed in the appendices).

In the second section, Pip Waller explains the western system of pathology and introduces a more holistic paradigm that considers emotional, mental and spiritual aspects. With reference to Dr Hamer's New Medicine approach, she shows how we can achieve balanced emotional health by dealing with factors such as stress, fear and trauma that, if left unresolved, can take a huge toll on our health.

This informative guide is easy to read with clear illustrations. You'll never again take yourself for granted!



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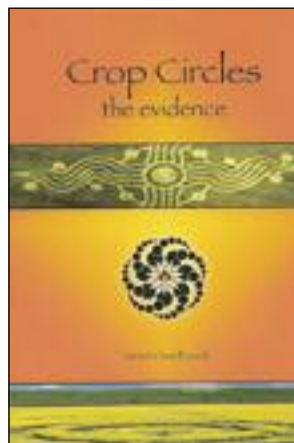
CROP CIRCLES: The Evidence

by Janet Ossebaard

Benign Publishers, Zutphen, The Netherlands, 2010

ISBN 978-90-78903-04-8 (172pp tpb)

Available: www.circularsite.com



Janet Ossebaard has had a passion for crop circles since the mid-1990s when she found one near her home. A linguist and communication consultant, she has since gone on to found her own publishing company and website, write several books and co-produce film documentaries. She is currently chair of the Dutch Centre for Crop Circle Studies.

In her beautifully produced book with full-colour photographs (the second in an eight-book series), Ossebaard conveys the deeply felt awe that she feels for these glyphs. She debunks six myths about crop circles (e.g., that they always appear at night), summarises the latest scientific research, discusses anomalous effects on the plants, and notes the effects on people, animals and technical equipment.

Ossebaard considers the way the crops are laid down and how the formations might be created—with a nod to plasma vortex theory, and acknowledgement that most crop formations are *not* man-made. She includes some amazing eyewitness reports of crop circles in the making and points to further research that could be conducted in the future.

This is an impressive treatment of this great mystery of our time.

NOSTRADAMUS, BIBLIOMANCER by Peter Lemesurier

New Page Books, NJ, USA, 2010

ISBN 978-1-60163-132-9 (286pp tpb)

Available: www.newpagebooks.com

Peter Lemesurier is a foremost authority on the 16th-century French "prophet" Nostradamus, and he makes some astounding claims in his new book. Having researched Nostradamus's life story from contemporaneous and other French sources, he concludes that Nostradamus was not a medical doctor nor an astrologer and was not even a prophet, although he did work as a medical apothecary on the fringes of medicine and achieved some notoriety for writing and publishing his annual almanacs.

What Lemesurier has discovered is that Nostradamus subscribed to the "Janus" principle—that what has happened in the past will repeat itself—and he based many of his quatrains on material drawn from classical through to his own present-time sources on history and prophecy and used a style closely related to that of the Roman poet/seer Virgil. Nostradamus would select a book, let it fall open at any page, then select a passage as his source of guidance—all at random. The divinatory technique is called *bibliomancy*, and it's as old as the written word. His most used reference was the *Mirabilis Liber* (1542–43), from which he borrowed 137 quatrains.

Any study of Nostradamus's prophecies is fraught with problems due to mistranslations from the original Middle French, and here Lemesurier includes new, more correct translations of the Centuries and the probable sources for most quatrains. He also emphasises that hardly any of the prophecies has *ever* been fulfilled, and he uses several examples of better-known quatrains to prove his point.

Lemesurier shatters cherished myths in his fascinating, well-researched book which comes with a CD of facsimiles and original works.



REVIEWS

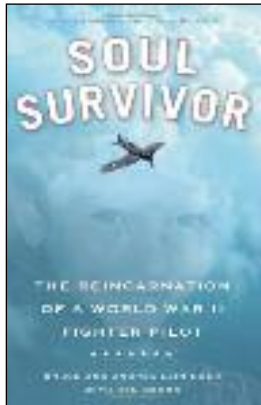
SOUL SURVIVOR

by Bruce and Andrea Leininger
with Ken Gross

Hay House, London, 2010 (first pub. in
USA by Grand Central Books)

ISBN 978-1-84850-219-2 (286pp pb)

Available: www.hayhouse.co.uk



If ever there were a case to prove the reality of reincarnation, this would have to be it. In 2002, aged two years, James Leininger began having vivid nightmares about trying to escape from a burning aircraft. Over time, he revealed names and details about the aircraft carrier USS *Natoma Bay*; a crewmember, Jack Larsen; an aircraft, the Corsair; and the first name of a Navy pilot called James—James M. Huston, Jr, who was shot down in flames on 3 March 1945, diving into the harbour at Chichi-Jima during World War II. Young James, who lives in Louisiana, has a fascination for WWII fighter planes, can recall past wartime buddies and can draw combat scenes at sea with uncanny accuracy.

Kevin Leininger, with the support of his wife Andrea, set out to piece together the vague details of James's story. They were astonished at the incredible coincidences between their son's recollections and the life of James M. Huston. Kevin, a Christian to whom the idea of reincarnation was anathema, eventually had to accept that his son James is a reincarnation of Huston. But this is also Kevin's story, as he uncovered important closing information for many *Natoma* veterans and their

families—including Larsen and also Huston's sister Anne, with whom young James has an affinity and who was able to recall childhood details that only she and her brother knew.

This extraordinary account, with supporting photos, has a foreword by Carol Bowman, author of *Children's Past Lives*. Be prepared for goosebumps and the odd tear!

GERMAN FLYING SAUCERS

by Rudi Stiebritz and Allis Fairfax

Zeus Publications, Qld, Australia, 2010

ISBN 978-1-921731-28-0 (258pp tpb)

Available: www.zeus-publications.com

We've already heard from East German-born Australian Rudi Stiebritz about his experiences as a German soldier during and after World War II in his book *Pawn of War* (with Jay McKee, reviewed in 11/04). Now we benefit from his research into German flying saucers and other devices that were far in advance of the achievements of other nations at the time. A relative who was a *Luftwaffe* pilot and captain told him what he knew of these UFOs (*Fliegenden Untertassen*) back in 1941, which had a big impact on Stiebritz.

He explains how The Vrill Society began constructing its first flying craft by the mid-1920s, and that by 1934 Vrill flying machines with a magnetic impulse steering unit were being tested, though not without their failures. Viktor Schauburger was even called in for his groundbreaking research into implosion dynamics and vortex propulsion. Stiebritz's Buddhist perspective gives him keen insights into the workings of Nazi minds during this period: they were steeped in an esoteric tradition that went back to ancient India when *vimana* craft were being flown.

There's much unexpected information in this book: eyewitness reports of experimental craft, the development of a ray weapon, speculation about a Nazi base in Antarctica and Hitler's escape route, plus much more. Riveting stuff!

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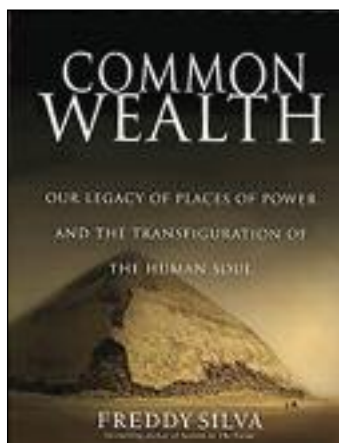
COMMON WEALTH

by Freddy Silva

Invisible Temple, Portland, USA, 2010

ISBN 978-0-578-06826-8 (319pp tpb)

Available: www.invisibletemple.com



In his masterful book, Freddy Silva (*Secrets in the Fields*; see 9/06) brings to life an appreciation for the spirit of place. He's made a connection with the enlightened past of our ancestors who could detect the Earth force in the landscape. They positioned their stone monuments and temples on these magnetically sensitive locations, imbuing them with energy codes, astronomical markers, sacred geometric/mathematical proportions and keys for opening consciousness to higher dimensions. Furthermore, these sacred sites and the temples built upon them served to maintain cultures in balance for thousands of years and to aid the spiritual transformation of the people. The ancient enlightened ones had to contend with global catastrophe, such as the one that befell our planet nearly 12,000 years ago, and they rebuilt their worldwide temple network to preserve and transmit knowledge which would serve as a legacy or insurance for future generations: our common wealth.

In more recent millennia, the power of these places was usurped by a false priesthood and then by corrupt rulers, although an underground stream of esoteric societies, including the Cathars and Knights Templar, has passed down the temple

secrets through the centuries. Silva is dedicated to the emergence of this lost knowledge. Temples are alive, he says: they're first seen, and then felt.

EGYPTIAN DAWN: Exposing the Real Truth behind Ancient Egypt

by Robert Temple

Century, London, 2010

ISBN 978-0-712-68414-9 (514pp hc)

Available: www.randomhouse.co.uk

Professor Robert Temple (*The Sphinx Mystery*; see 16/03) again turns his attention to ancient Egypt. Here he exposes the faked evidence that Egyptologists have clung to for more than a century and reveals new information based on his own archaeological studies, having been given permission to visit many sites that are closed to the public. He and his wife/research partner Olivia have been collaborating with Ioannis Liritzis, who has developed an optical thermoluminescence technique for dating structures themselves.

Among Temple's conclusions is that the Giza Plateau and its pyramids were built by a previous culture loosely called the Libyans, who were also responsible for the world's largest stone circle in Morocco and formed a civilisation that bordered the Atlantic Ocean and the British Isles; more evidence for them is likely to be found deep within the Nile Delta. Temple has uncovered the master plan for the plateau, including a superimposed all-seeing eye as well as room for a long shadow cast by the Great Pyramid for use in determining the passage of time and the seasons. Contrary to consensus belief, he says that the lesser pyramids of Egypt were poor attempts to reproduce the grandeur of the Giza pyramids which were built by this Atlantic civilisation.

Other highlights are his unveiling of the Tomb of Osiris and his identifying many royal tombs that have never been opened. His book, with plenty of colour photographs of never-before-seen relics, is further supported at www.egyptiandawn.info.



REVIEWS

THE MURDER OF REALITY

by Pierre Sabak

Serpentigena Publications, UK, 2010
ISBN 978-0-9564053-0-2 (484pp tpb)
Available: www.pierresabak.com



We've been duped over the millennia by the very language and systems that we use, says British fine art teacher, symbolist and comparative linguist Pierre Sabak in *The Murder of Reality*. It's the first book in his Serpentigena series which uncovers the workings of a hidden Serpent Race in humanity's history, revealed as a universal code within astronomy, geometry, mathematics, language and culture through the ages. The bulk of the narrative consists of linguistic translation and interpretation, so it's challenging yet impressive and astounding.

A Serpent Race conquered and enslaved humanity many thousands of years ago, claims Sabak, who has discovered its manipulation of our collective reality through his study of language and etymology. The same word "puns" can be found in Arabic, Chinese, Greek, Hebrew, Latin, Japanese, Persian and other tongues, showing a common belief system throughout the Classical world. Sabak says that these "polymorphic" serpent words were also encoded by a hidden priesthood in the Bible and the Koran. A network of secret societies has protected the serpent-dragon's presence, and religious institutions and governments have legitimised it. Humanity can no

longer ignore the signs and must wake up to the suffering and injustice that's been inflicted upon us, declares Sabak in this fascinating yet frightening documentation of history.

CENSORED 2011

edited by Mickey Huff, Peter Phillips, and Project Censored

Seven Stories Press, NY, USA, 2010
ISBN 978-1-58322-920-0 (470pp pb)
Available: www.sevenstories.com

In an age of corporate media dumbing-down of the public, it's heartening that the team at Project Censored is still on the case, drawing attention to the news that's not being aired. This time each year, we reprint the team's round-up of the top 25 news stories most ignored by the mainstream media (see this edition). This book is a compilation of these stories, including plans to do away with the US dollar as the world's reserve currency, America's secret war in Pakistan, covert US funding of the Taliban, and the ongoing torture of prisoners at Guantánamo Bay despite President Obama's promise to put an end to it. Also included are the year's runners-up, the top 10 censored stories from Germany in 2009, an analysis of what happens to past Censored stories, plus signs of hope and creative change.

The Truth Emergency section peeks inside the US/NATO military-industrial-media empire and reveals patterns of high crimes against democracy that are hidden in plain sight. It also exposes the US corporate media's censorship of Israeli international law violations in Palestine. The final section focuses on building media democracy worldwide, with encouragement of individual empowerment and community-owned infrastructure.

Among the many notable contributors are Prof. Mickey Huff, David Ray Griffin, Nora Barrows-Freedman, David Mathison and Dr Peter Phillips. An important work that keeps tabs on those forces that would destroy our freedom.



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Compiled by Duncan Roads

THE HEMP SOLUTION:

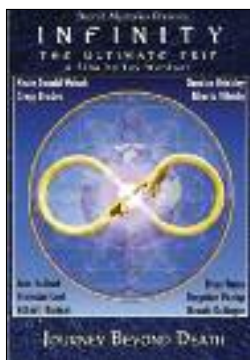
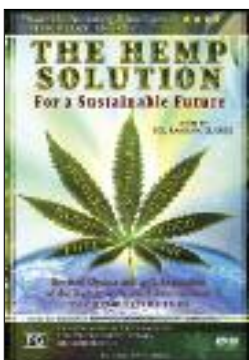
For a Sustainable Future
A film by Sol Ramana Clarke

Avail: www.TheHempSolution.com.au;
www.nexusmagazine.com

This is the revised 2010 update of the highly acclaimed documentary *The Hemp Revolution*. First released in 1995 as a 16-mm film in 100 cities worldwide, it has continued to be a key educational element in the modern resurgence of hemp industries and medicines worldwide.

The Hemp Solution update explores the fascinating history of the hemp plant *Cannabis sativa*, its myriad uses, the economic and cultural forces behind its prohibition and its modern potential to solve major environmental and health problems.

Featured are many of the world's leading experts on hemp-related issues, including Dr Andrew Weil, Dr Lester Grinspoon, Dr Peter Dale Scott, Dr Andrew Katelaris and Dr Kate Short. There's great music, too!



INFINITY: The Ultimate Trip

A film by Jay Weidner

Sacred Mysteries Productions © 2009
Available: www.sacredmysteries.com

We want to know what happens after we pass from this world. Is there a life after this one? Or do we just disappear forever? These are among the many questions asked in this powerful documentary.

Using beautiful imagery together with personal accounts of near-death experiences and reincarnation from noted researchers such as Gregg Braden, Dannon Brinkley, Renate Dollinger, Stanislav Grof, Robert Thurman, Neale Donald Walsch and Brian Weiss, *Infinity* brings forth the story of our own infinite nature, what to expect after death, and the magic and beauty awaiting us on the other side. An inspiring film.

THE DAY BEFORE DISCLOSURE

A film by Terje Toftenes

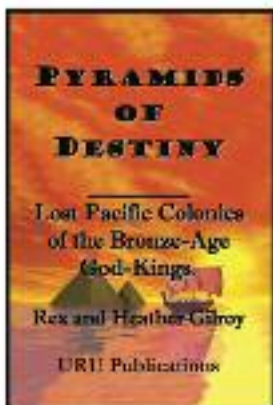
New Paradigm Films © 2010
Available: New Paradigm Films,
www.thedaybeforedisclosure.com

What if our governments had known about an ET presence for more than half a century and were in possession of alien technology that had the potential of changing how our world is run, and they chose to keep the public in the dark through a campaign of suppression of information? And what if that campaign ended tomorrow?

This film documents the growing awareness of and the build-up to what could be the single most important event in human history: the day the UFO and ET presence becomes an accepted reality worldwide.

The documentary includes Dr Edgar Mitchell, Steve Bassett, Robert Dean, Budd Hopkins, Dr David Jacobs, Richard Dolan, Stanton Friedman, Jim Marrs, Dr Steven Greer, Wendelle Stevens, Paola Harris, Nick Pope, Linda Moulton Howe, Robert Hastings, Dr Roger Leir and more.

A fantastic film; up to date, too!



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MUSIC

Reviewed by Richard Giles

YOGA

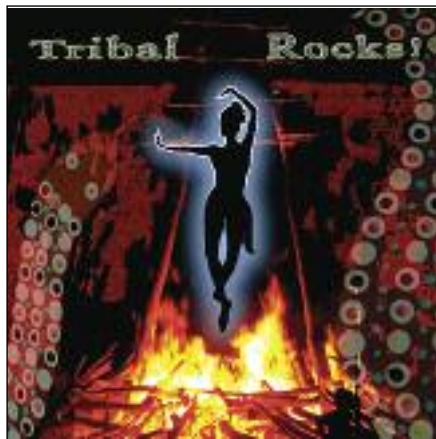
by various artists

Putumayo, USA, 2010 (71mins)

Distributors: **Australia**—The Planet Company, tel (02) 9283 8250;

Europe—Putumayo World Music; www.putumayo.com

Putumayo's *Yoga* is designed to accompany yoga practice and act as a relaxant for everyday life. The album features world fusion group Lucknow Project, US *kirtan* group Gaura Vani And As Kindred Spirits with percussionist Geoffrey Gordon, *bhajan* and *kirtan* singer Karnamrita Dasi, Swedish musician/teacher Yogini, Senegalese singer Ablaye Cissoko with German trumpeter Volker Goetze, husband-and-wife duo Shantala, and Bhutanese monk Lama Gyurme with French pianist Jean-Philippe Rykiel. An international yoga mixed-music treat.



TRIBAL ROCKS!

by various artists

Music Mosaic (music-mosaic.com), Australia, 2010 (55mins)

Distributors: **Aust**—Brumby Books & Music, tel (03) 9761 5535; **UK**—New World Music, tel (0)1986 89 1600; **Europe**—MCC, tel +49 4102 898202;

Music Mosaic's latest multicultural release includes selections from Professor Trance, Tarshito, Ariel Kalma, LadoElectro, Phil Thornton

and Hossam Ramzy, Wasis Diop, Hilight tribe and more. The tracks feature trance-style music and world fusion beats. Dancey, tribal music at its best with didges, saxophones, percussion and beautiful vocals.

PYRAMID CALL

by Buedi Siebert

Real Music, USA, 2010 (55mins)

Distributors: **Aust**—Fuse Music, tel (02) 9699 7555; www.realmusic.com

Recorded inside the King's Chamber of the Great Pyramid in 2010, this remarkable CD was produced in special circumstances where all fell into place for Buedi on that recording day. He feels that the energy in this recording is beneficial for healing, and he's already had great feedback from listeners. Buedi plays alto and bass flutes, bamboo and *siku* flutes, earth flute, various saxophones and bass clarinet. An extraordinary experience of healing, centred music with a vision for a better Earth. Highly recommended.

ROUGH GUIDE TO DESERT BLUES

by various artists

Rough Guide/World Music Network, UK, 2010 (2CDs, 65&50mins)

Distributors: **Australia**—The Planet Company; **UK**—WMN, tel (0)20 7498 5252, www.worldmusic.net

The spiritual homeland of the blues is Africa, and this CD focuses on the stunning brand of desert blues from the Sahara. The themes are the loss of homelands and the longing for freedom from undemocratic regimes. Nations such as Algeria, Chad, Libya, Mali, Morocco, Niger and Tunisia are home to many tribes—the Berbers, Dogon, Moor, Peul, Songhai, Tuareg and more—and they gather each year at the Festival of the Desert. Groups such as Tinariwen, Malouma, Terakaft, Tartit and Tamikrest, and performers like Mariem Hassan and Ali Farka Touré, are all here. There's a bonus CD featuring Etran Finatawa from Niger: the Tuareg and Wodaabe peoples' sounds combined.



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Colony Collapse Disorder and GM Crops

Continued from page 29

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Leaky_gut_syndrome

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Porphyria: A Cause of Chronic Illnesses

Continued from page 36

supposed to change)—but when a severe or chronic disease is found via elevated porphyrin levels in blood or urine, all sorts of excuses are desperately looked for to say, "It's really okay; forget about it". The difference appears to be that toxic exposures cause the chronic porphyria, and someone doesn't want the people to know what may result in up to 20 per cent of mankind! It's up to you to fight this if you have a chronic and/or environmental illness. Fight both the poisoning of the environment and thus of mankind; and, if you are found to have abnormal levels of porphyrins, fight the claims that this doesn't mean anything.

For many people with chronic and/or environmental illness, porphyria may be a sort of "last piece of the puzzle". It also accounts for many food reactions when a patient is told by his/her physician, "I've done all these allergy tests and didn't find any evidence of allergic reaction". Food allergy tests are negative because the reaction is *not* an allergic (antibody) reaction but a metabolic porphyric reaction involving the cytochrome P450 enzymes. The porphyria piece of the puzzle should be tested for in people suffering from MCS, EMFS, "universal" food reactivity, chronic fatigue, fibromyalgia, ME, Alzheimer's, hypoglycaemia, autism, Gulf War syndrome, 9/11 responder illness, asthma, ulcers, "mental" illness (anxiety, panic, depression, schizophrenia), and other illnesses as links develop in the future.

With knowledge of this possible "last piece of the puzzle"—porphyria, the *non-rare* disease—for chronic or environmental illness, the life you save, improve or lengthen may be your own. ∞

About the Author:

Steven Rochlitz, PhD, was originally a physics professor, but health problems led him to change careers. He has written nine books, six on alternative medicine. For the past 30 years, he has concentrated on finding the underlying causes of chronic and environmental illnesses. Since 1984, he has taught his seminars across the world, including in Australia, New Zealand, Europe and the Americas. He came out of retirement to write his latest book, *Porphyria: The Ultimate Cause of Common, Chronic, & Environmental Illnesses* (see review in our next edition). Further research is at <http://www.wellatlast.com>. Dr Rochlitz can be emailed at info@wellatlast.com.

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Who Parked Our Moon?

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minutes while 100 miles [161 kilometres] high has to have a velocity of roughly 18,000 miles [28,980 kilometres] per hour to stay in orbit, so something had to give the Moon the precisely required velocity for its weight and altitude... The point—and it is one seldom noted in considering the origin of the Moon—is that it is extremely unlikely that any object would just stumble into the right combination of factors required to stay in orbit. 'Something' had to put the Moon at its altitude, on its course and at its speed. The question is: what was that 'something'?"¹⁷

If the precise and stationary orbit of the Moon is seen as sheer coincidence, is it also coincidence that the Moon is at just the right distance from the Earth to cover the Sun completely during an eclipse? While the diameter of the Moon is a mere 2,160 miles [3,477.6 km] against the Sun's gigantic 864,000 miles [1,391,040 km], it is nevertheless in just the proper position to block out all but the Sun's flaming corona when it moves between the Sun and the Earth. Asimov explained: "There is no astronomical reason why the Moon and the Sun should fit so well. It is the sheerest of coincidences, and only the Earth among all the planets is blessed in this fashion."¹⁸

Is it merely coincidence? How does one explain this and many other Moon mysteries?

Spaceship Moon Evidence

In July 1970, two Russian scientists, Mikhail Vasin and Alexander Shcherbakov, had an article published in the Soviet journal *Sputnik*, entitled "Is the Moon the Creation of Intelligence?" They advanced the theory that the Moon

is not a completely natural world, but a planetoid that was hollowed out aeons ago in the far reaches of space by intelligent beings possessing a technology far superior to ours. Huge machines were used to melt rock and form large cavities within the Moon, spewing the molten refuse onto the surface. Protected by a hull-like inner shell plus a reconstructed outer shell of metallic rocky junk, this gigantic craft was steered through the cosmos and finally parked in orbit around the Earth. In their article, Vasin and Shcherbakov wrote: "Abandoning the traditional paths of 'common sense', we have plunged into what

As outrageous as the Spaceship Moon theory may first appear, consider how this model reconciles all of the mysteries of the Moon.

may at first sight seem to be unbridled and irresponsible fantasy. But the more minutely we go into all the information gathered by man about the Moon, the more we are convinced that there is not a single fact to rule out our supposition. Not only that, but many things so far considered to be lunar enigmas are explainable in the light of this new hypothesis."¹⁹

As outrageous as the Spaceship Moon theory may first appear, consider how this model reconciles all of the mysteries of the Moon. It would explain why the Moon gives evidence of being much older than the Earth and perhaps even our solar system and why there are three distinct layers within the Moon, with the densest materials in the outside

layer, exactly as one would expect of the "hull" of a spacecraft. It could also explain why no sign of water has been found on the Moon's surface, yet there is evidence that it exists deep inside. This theory also would explain the strange maria and mascons, perhaps the remnants of the machinery used to hollow out the Moon. The idea of an artificial satellite could explain the odd, rhythmic "moonquakes" as artificial constructs reacting the same way during periods of stress from the Earth's pull. And artificial equipment beneath the Moon's surface might be the source of the gas clouds that have been observed.

Intelligent "terraforming" of the Moon could provide the solution to the argument between "hot Moon" and "cold Moon" scientists: they are both right! The Moon originally was a cold world which was transformed into a spacecraft by artificially heating and expelling vast quantities of its interior. This theory also could explain the seeming contradictions over the question of a hollow Moon. If the Moon originally was a solid world which was artificially hollowed out, there would be evidence of both phases—exactly what we have with current Moon knowledge.

An artificially hollowed-out Moon would explain why the satellite rings like a bell for hours after being struck, and why specimens of tough refractory metals such as titanium, chromium and zirconium, "rust-proof" iron; uranium-236 and neptunium-237 have been found there.

In fact, the Spaceship Moon theory may come closer than any other in reconciling the questions over the origin and amazing orbit of the Moon. But we are not supposed to consider this thesis. The circular

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Who Parked Our Moon?

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logic of modern science regarding the origin of the Moon runs something like this... We know that extraterrestrials don't exist, but we do know that the Moon exists and has been mentioned throughout human history. We humans did not create it or place it in Earth's orbit, so it must have been done by extraterrestrials. But since we know they don't exist, we will simply call it an anomaly and will not publicly say anything more about this. ∞

About the Author:

Jim Marrs, from Texas, USA, is a distinguished, award-winning investigative journalist and author of such books as *Crossfire*, *Alien Agenda*, *Rule by Secrecy* (reviewed in 8/01), *The War on Freedom* (10/06), *Inside Job* (11/06), *The Terror Conspiracy* (14/01), *Psi Spies* (14/06) and *Above Top Secret* (16/02). He has contributed several articles to NEXUS over the years and

has given talks at NEXUS Conferences, most recently in Queensland, Australia, in July 2010. Visit his website, <http://www.jimmarrs.com>.

Editor's Note:

This essay, posted on 14 September 2010 (<http://www.disinfo.com/2010/09/who-parked-the-moon/>), was first published in *Above Top Secret* (The Disinformation Co., 2008). It is based on chapter one of *Alien Agenda* (HarperCollins Publishers, 1997).

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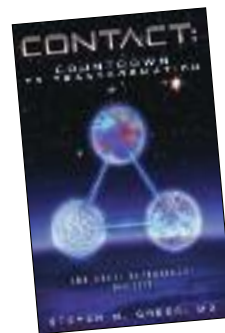
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An Interview with Zecharia Sitchin

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humans, is the same as on Nibiru, the same as everywhere else in the Universe. Genetically, we are akin to the Anunnaki from Nibiru, for, as the Bible summed it up, we were fashioned by them in their image and in their likeness. Our civilisations are similar to the one they had, because it is they who gave us civilisation. Our wars, to consider latest events, are similar to their wars—both wars on Earth and preceding wars on Nibiru. So we, in many respects, are they.

And since I believe the biblical prophecies and think they are universally valid, I have no doubt that we shall one day do what the Anunnaki did and come to another planet, supposedly for a selfish need or reason, and end up doing there what they did here: cause life to evolve in a manner similar to ours, create civilisation there, repeat the

cycle, because it is all part of a grand design.

The Sumerians distinguished between Fate (*nam-tar*) and Destiny (*nam*). Destiny was predetermined, fixed, unchanged. That man is mortal was Destiny; how man conducted his life between birth and death, how he would die, was Fate—a "destiny" that could be changed or bent by man's behaviour, free will, circumstances, etc. The same applied to planets, which they considered as living entities, and to the whole solar system and to stars: There is a predetermined destiny, but within it a changeable fate.

We are part of it. We are not alone in our own solar system, and we are not alone in the Universe. ∞

About the Interviewer:

Paola Leopizzi Harris is an Italian-American photojournalist and investigative reporter specialising in extraterrestrial phenomena, and is the

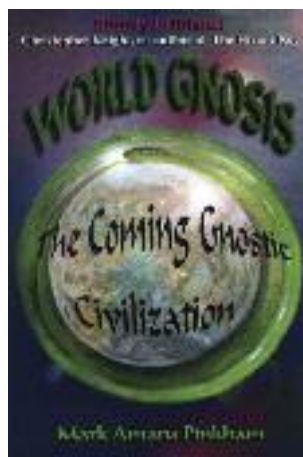
author of several books and numerous magazine articles (see NEXUS 7/01, 8/01, 8/06). Her 2003 interview with Zecharia Sitchin is extracted from her book *Connecting The Dots... Making Sense of the UFO Phenomenon* (Wild Flower Press/Granite Publishing, 2003, 2005; AuthorHouse, 2008 revised edition; reviewed in NEXUS 11/01). For more details, visit her website <http://www.paolaharris.com/home.htm>.

About the Interviewee:

Zecharia Sitchin's most recent books, *There Were Giants Upon The Earth* (2010) and *The Earth Chronicles Handbook* (2009) were reviewed in NEXUS 17/05 and 16/04 respectively. Several of his articles have been published in NEXUS (2/16 and two in 8/06). For more information about Zecharia Sitchin and his work, visit the website <http://www.sitchin.com>. Tributes to him can be mailed to Post Office Box 577, New York, NY 10185, USA, or emailed to tributes@sitchin.com.

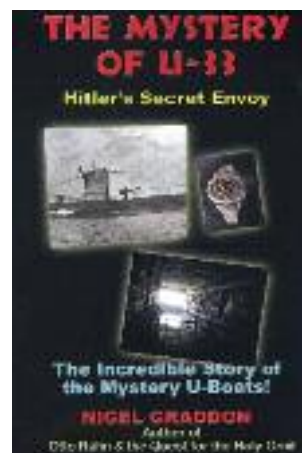
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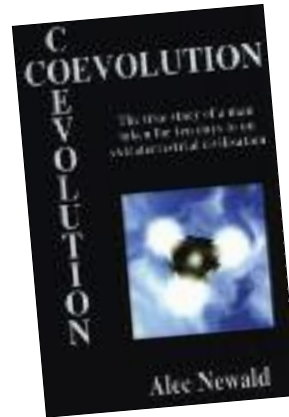
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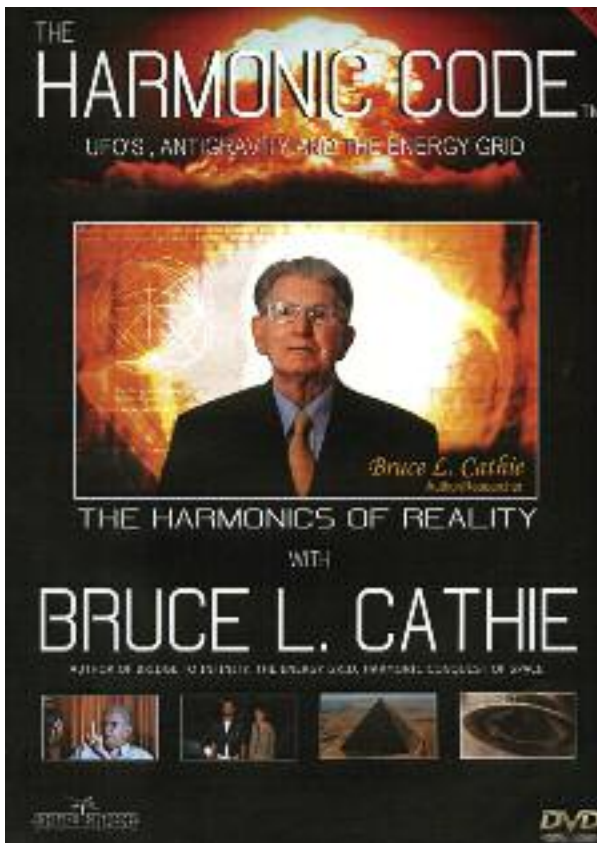


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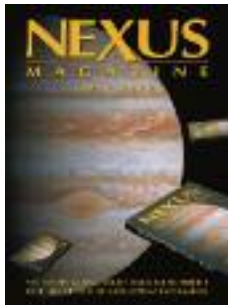
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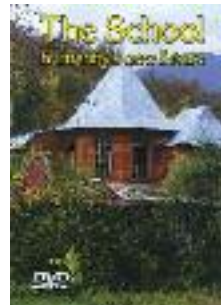
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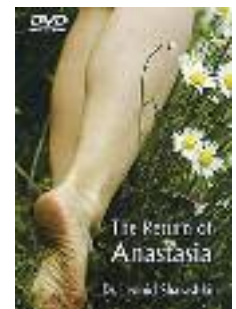
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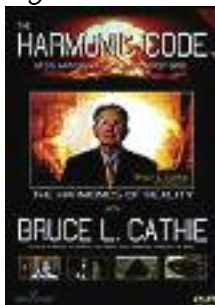
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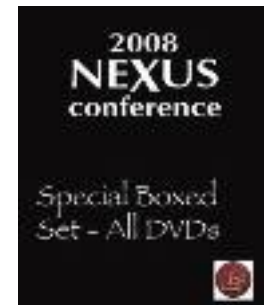
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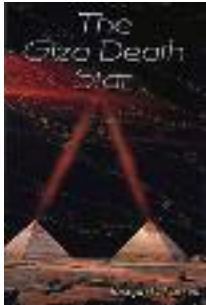


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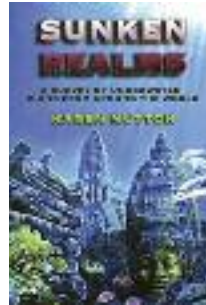
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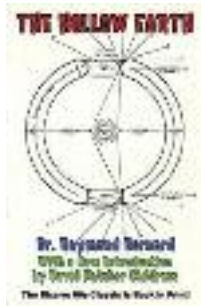
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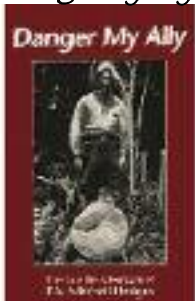
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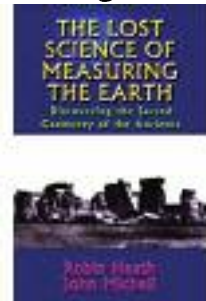
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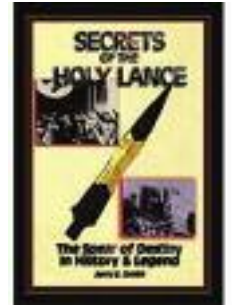
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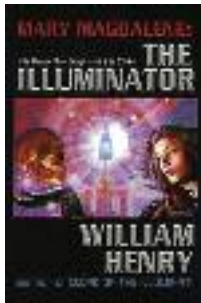
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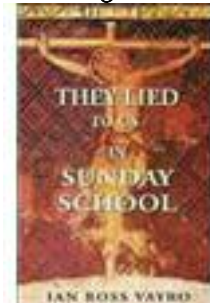
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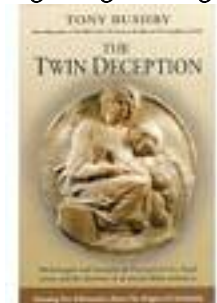
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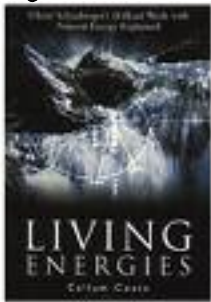
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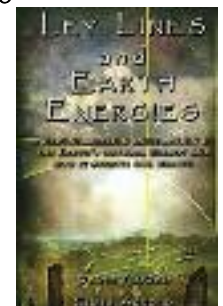
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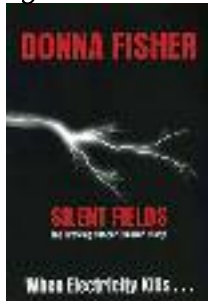
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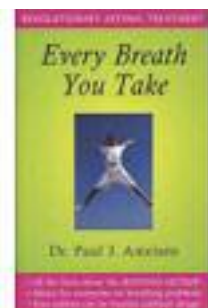
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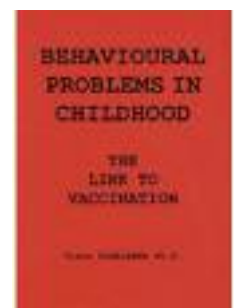
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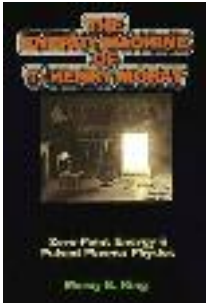


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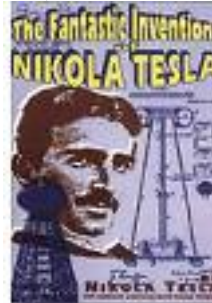
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Harnessing the Wheelwork of Nature
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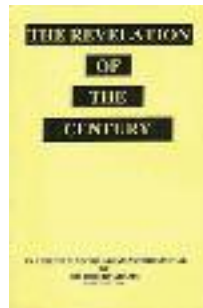
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Adams' Pulsed Electric Motor Generator Manual



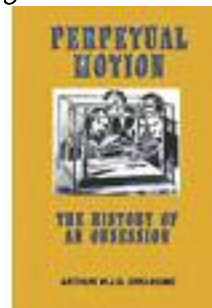
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The Adams Manual - Addendum



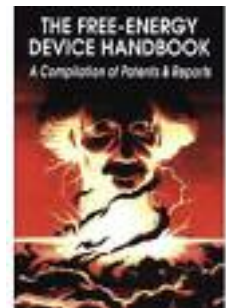
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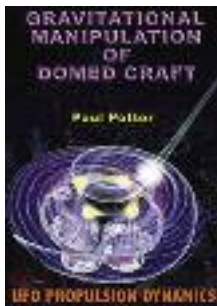
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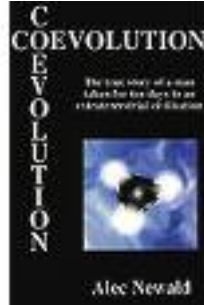
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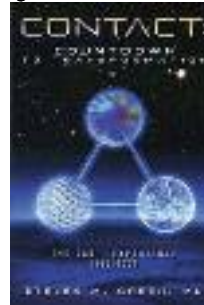
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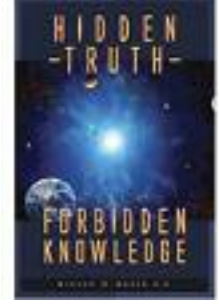
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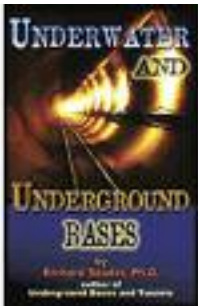
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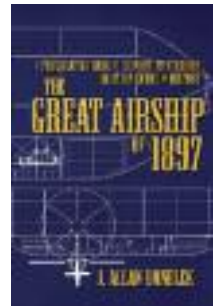
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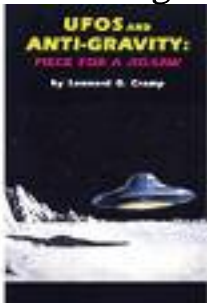
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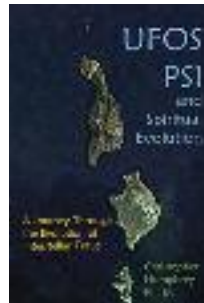
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