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NEXUS

April-May 2011

NEW TIMES

Vol. 18, No. 3

**The secret agenda to
weaponise space**

**Genetically modified food:
an industry built on myths**

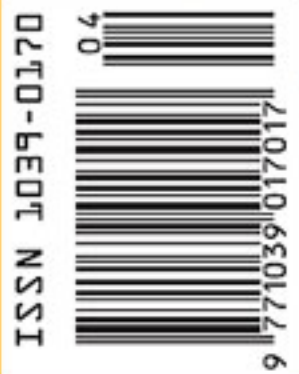
Vaccines, lies and statistics

**The blood-brain barrier
and the link to stroke**

**Ancient texts reveal alien
intervention in our history**

How the Sun expands the Earth

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STATEMENT OF PURPOSE

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

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Editorial

It seems that 2011 is showing no signs of becoming "just an ordinary" year. It's hard to believe that so much is suddenly changing so quickly: extraordinary flooding and destruction in Australia, South America and South Africa; sudden uprisings and revolutions in the Middle East; catastrophic earthquakes in New Zealand and then in Japan, along with a deadly tsunami and now a nuclear radiation crisis; and today the West started launching cruise missiles upon targets in Libya. If all this weren't enough, the financial crisis is deepening, solar activity is unexpectedly increasing, and growing numbers of people are reporting vivid dreams of cataclysmic Earth changes.

I guess it is natural in times of great crisis to look for someone or something to blame. I see that many people are blaming HAARP and/or chemtrails for the New Zealand and Japanese earthquakes, and many have sent me emails showing pretty graphs as "evidence" that the evil New World Order is trying to kill off mankind. I am well aware that technology does exist to generate earthquakes and to manipulate weather patterns, but none of that "evidence" being circulated actually stands up to investigation.

Nevertheless, the agenda to bring the entire planet into a more united and coherent single entity continues. But at what cost? The superpowers appear to be racing each other to control the new "high ground", i.e., space, and all parties seem to be trying to avoid treaties and accountability. Our article this issue (to be continued in the next edition) examines what is going on and what the implications are for us mere mortals.

This issue features selected extracts from a very comprehensive recent report into genetic modification (GM). By the time you get to the end of the article, you'll see not only that GM is a total failure but that it is a Trojan Horse for corporate monopolisation and control of the global food supply. Some researchers are now openly speculating that the disappearing bees problem has been deliberately caused by corporations so that food independence (via natural pollination sources) is impossible.

Still on the health front, our article about the delusion of vaccine success provides graphic evidence (love that pun) showing how major diseases were just about gone *before* immunisation was introduced. Not only is there *zero* evidence that vaccines have conferred *any* immunity against *anything*, now we can see that all the credit given to vaccines for saving mankind is total rubbish.

The concept that mankind was "infected" millennia ago by a type of mental-psychic-astral parasite that feeds off our fear and hate is being revisited here. I was astonished to learn that the famous Nag Hammadi texts go into considerable detail about this problem as well as other aspects such as the evolution of humanity and the failure of the "alien interbreeding program". These texts even describe the existence of reptilian humanoids, who are still the topic of great debate amongst UFO researchers and conspiracy thinkers.

This concept is also featured in the book *CoEvolution*. In fact, author Alec Newald has recently released information that he had previously withheld from his book out of concern for his safety in going public with his abduction experiences. We include some of this information in this edition.

Because of the popularity and overwhelming success of the last few NEXUS Conferences, I'm pleased to announce that we're going to have another one. The 2011 Conference is to be held on 23–24–25 July on the Sunshine Coast of Queensland, Australia. Make your bookings soon!

Duncan

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Dr Carol Rosin (USA)

Disclosure Project witness and contactee reveals secret plans to weaponise space.

Alec Newald (NZ)

"CoEvolution" author to reveal long-held information given to him which is relevant for these times.

Linda Moulton Howe (USA)

Science journalist presenting info on UFO coverups, animal mutilations & time travellers.

"Acolyte" (South Africa)

An insider reveals plans to 'awaken' mankind for what is to come.

Richard Alan Miller (USA)

ESP, consciousness, what 'they' can do & where we are going.

Shane Ryan (Australia)

The Westall '66 case, including documentary screening.

James F. Coyle (Vanuatu)

"Beyond Belief" author on remote viewing & controlled luck.

Meryl Dorey (Australia)

Publisher & researcher into vaccination awareness and alternative health suppression.

Jonathan Quintin (NZ)

Sacred geometry and consciousness changes

Pane Andov (Australia)

2012, consciousness shifts & galactic alignments

Sherrill Sellman (USA)

Author/researcher specialising in the role of hormones & health.

Robert Pope (Australia)

The new renaissance of science and consciousness.

David Stetzer (USA)

Inventor and researcher of dangers and cures of the effects of dirty electricity and EMFs.

Barry Eaton (Australia)

Author & radio presenter—life before life & life after death

Flor Amanowicz (Australia)

The prophecies of Parravicini

Letters to the Editor ...

Laetrile Cover-up

Dear Editor: With much interest I have read Dr S. d'Montford's article about Laetrile (NEXUS 18/02). I can confirm her father's experiences.

Back in the 1970s, I met Dr Krebs, Jr, who told me that during the Laetrile battle someone twice tried to assassinate him and that when he complained to the police the answer was, "Someone seems to be trying to make something clear to you".

After having learned about Laetrile while in California, I tried it in my own cancer practice to see what it did. Straight away, two men were posted one day in front of my practice and observed it during the whole morning. Then, early in the afternoon, they came in: a health inspector and a plain-clothes detective. The row went on up to the Inspector General of Health, who officially forbade me from using this substance, but at last I won the battle.

Anyhow, when things like that happen it is nearly a guarantee that there is something good in Laetrile, which indeed there is.

I wish to point out one error in her article. It was not Dr Krebs's idea that the cancer cell and the trophoblast are identical. It was that of the Edinburgh Professor in Zoology Dr John Beard, who in 1911 published his book *The Enzyme Treatment of Cancer*.

Thank you very much for another marvellous article!

Dr Hans Moolenburgh,
The Netherlands

Porphyria Revelations

Dear Duncan: I read a few days ago the article "Porphyria: A Cause of Chronic Illnesses" by Dr Steven Rochlitz (see 18/01), which I purchased from NEXUS.

After reading this article, I couldn't have been more excited than if I had won the lottery jackpot.

I have suffered since the age of ten (and probably before) from numerous health problems: fatigue, insomnia, food and chemical sensitivities, reactive hypoglycaemia and hormonal issues. This has been diagnosed for the past few years as chronic fatigue syndrome, for which, however, there is no cure according to conventional medicine.

When I also became really sensitive to EMF, I started Googling for answers to this problem; and since some types of Porphyria lead to Sun sensitivity, I started wondering whether there might be a link between the two.

This led me to Dr Rochlitz's article, which explained my health problems exactly—much to my great excitement. I have started treatment for Porphyria based on some info that I could find in the article and elsewhere, and so far it seems really promising.

I thought I would let you know, and also say that I hope you'll be publishing more of Dr Rochlitz's work.

Kind regards,
K., South Africa

[Dear K.: I'm heartened to know that the Porphyria article

resonated with you. See Dr Rochlitz's book (reviewed in 18/02) and his latest article in this edition. Ed.]

Praise for Bruce Cathie

Dear Duncan and Catherine: I've been reading NEXUS for as long as I can remember, even before I first met you both at the trade show in Auckland over 20 years ago. I have fond memories of your appearance as a guest on my radio program, *Project Enigma*, back then.

The latest issue of NEXUS (February–March 2011, 18/02) contains a fascinating article by Captain Bruce L. Cathie (Ret.) and Rod Maupin on "Mapping the World Grid".

It is about time that Bruce Cathie be elevated to the level of recognition he deserves in the area of this research, even if only for the incredible fact that he revealed, some 25 years ago in his book *Harmonic 33*, the true method of detonation of atomic devices in relation to time(s) and harmonic positions on the Earth's surface.

If more people around the world were made aware of this fact alone, wouldn't it open some eyes to the lies fed to us by administrations with "atomic knowledge" since the 1940s?

I have had a privileged association with Bruce Cathie and his wife Wendy for many years now, and I consider them close friends. During the time I have been associated with Bruce (he was a regular guest on my radio program for more than 15 years), it

has never ceased to amaze me how dedicated and sincere the man has been in a sphere of research that brings little or no public recognition.

Keep up your sterling work, guys. We are all much better off for having you and NEXUS around.

Sincere wishes,
Mike Ryder (and Jill), New Zealand

Hemp Foods in Australia

Hi Duncan: On 8 March I received a phone call from Food Standards Australia New Zealand (FSANZ), giving an update on the progress of applications to have hemp foods normalised [see article in NEXUS 17/06].

You may be aware that a similar application in 2002 passed the FSANZ examination but was rejected by a Ministerial Council directed by John Howard and Tony Abbott. The objection was that it "sent the wrong message" to the youth of Australia, evidently following input from elements in law enforcement.

The expected completion date for the current FSANZ examination and submission to the Ministerial Council was July – August. However, FSANZ has now been informed by the Ministerial Council that it wished to discuss this application at its face-to-face meeting to be held in December.

FSANZ told me that this is a very unusual request. The scientists at FSANZ were not pleased by the action of the politicians in

... more Letters to the Editor

2002, and they wish this current application to succeed without undue delay. They are prepared to dispute with the politicians if there is to be a repeat of the 2002 decision.

Public comment will be called from 15 March to the end of April 2011. Already, many people have registered themselves as interested parties and they will receive an invitation to make a submission.

The best way for people to respond is by providing a submission to FSANZ once the assessment report is released for public comment. There is some good information on the FSANZ website on how to make a submission; go to <http://tinyurl.com/4gwqcc6>.

Your submission will provide ammunition which FSANZ can use to support the application by requiring the Ministerial Council to consider the application on valid scientific grounds.

Some points you could include:

- Australia is the only country in the world not to recognise hemp as a food for human consumption;
- New Zealand already allows hemp oil as a food for human consumption;
- After flax seed oil, hemp seed oil is the richest plant source of omega 3;
- Hemp is grown with minimal to no chemical inputs and is an ideal plant for organic cultivation;
- Hemp is the only food plant that can be grown with a negative carbon footprint. Grown on a large scale for its seed, hemp could have a positive

impact on world hunger;

- Hemp foods would introduce a whole new industry in Australia, with a great potential to improve public health and promote employment.

Sending a copy to the Prime Minister and the Health Ministers would help reinforce the message.

Dr Andrew Katelaris, <http://www.sativaseed.info>

Prophetic Dreams

Dear Editor: In the past, both my wife and I have had dreams that later on have become reality. We have been married for nearly 30 years, and over this time we have learnt to discuss and analyse these dreams as sometimes they are a straight forecast of what is to come.

Last Sunday (13 March) I awoke after a particularly vivid dream, but decided at the time not to mention it to my wife until later in the day. At midday we sat down for a drink, and I was just going to tell my wife about my dream when she said, "I had a very strange dream last night".

She told me that in her dream Prince William and Kate Middleton were killed: whether by accident or by design, she did not know; she just remembered hearing it on the radio. She said that it was so vivid that she half expected to see it on the headlines. After we'd discussed it for some time, I told her about my dream.

My dream was that New Zealand will be destroyed by an earthquake, much like Atlantis. I remember

reading an article a few years ago which proclaimed that New Zealand would become the spiritual centre of the world in 2012, and I hope that it does not achieve this status through destruction.

Like my wife's dream, many of the details of mine were missing; but I do know that it was not quick: it took about a week to submerge finally, so a lot of people survived.

We discussed these dreams and both came to the same conclusion: these events will happen in 2012.

Although I would love to have proof that people can foresee or receive warnings about future events, when I think about the consequences I would prefer that they both were just dreams. However, fantastic as they seem, they both have the potential to become fact.

Robin A., UK

[*Thanks, Robin: In the case of New Zealand, the common factor running through predictions, visions, dreams and prophecies is that New Zealand will be destroyed via earthquakes, that it will sink beneath the ocean and then later resurface, but this time as part of a much, much larger new continent.*

Some prophecies go further to announce that such lands that arise from the sea will be free of negativity and "bad karma", and thus those living thereon will become the new race of our future who live in harmony with each other and the Earth, etc.

In Australia, the common "thread" I've observed in such dreams and predictions is one of a huge tsunami hitting the east coast of Australia. Ed.]

Solar Flare Preparation

Well, Duncan: Looks like it is all starting to happen, i.e., your editorial in the December-January issue of the magazine (18/01) re earthquakes, etc. Where do we go from here, I wonder?

I was recently on a cruise in South East Asia, and just out of Singapore the ship almost had to come to a stop because of a Sun flare that caused the ship's instruments to malfunction. I think that this is going to happen a lot in the future, and our electronic world is going to come crashing down (perhaps a good thing!).

We need to be prepared. We need to get back to the grassroots of things.

Jennifer B., NSW, Australia

The Spirit of the Times

Dear Duncan: My supervisor just introduced me to your magazine, and I think it's great. He told me about your publication because I introduced him to the *Zeitgeist* film series.

I was pleased when I saw that the goal of the magazine "is the day when all people of all races and colours can live together in total trust and respect, on a planet that is clean, abundant and healthy".

I wouldn't be surprised if you've heard about The *Zeitgeist* Movement, because the goal is identical and the techniques of exposing the truth seem to be so similar.

Eric R., USA

[Dear Eric: Thanks; we have. See letter in NEXUS 17/06 about The *Zeitgeist* Movement.]

NANOTECHNOLOGY PRODUCTS ON THE RISE

According to the Washington-based Project on Emerging Nanotechnologies (PEN), over 1,300 manufacturer-identified, nanotechnology-enabled products have entered the commercial marketplace around the world.

The most recent update to the group's five-year-old inventory reflects the continuing use of the tiny particles in everything from conventional products like non-stick cookware to more unique items such as self-cleaning window treatments.

Health and fitness items continue to dominate the PEN inventory, representing 56 per cent of products listed. More products are based on nanoscale silver—used for its antimicrobial properties—than any other nanomaterial.

(Source: *ScienceDaily.com*, 13 March 2011, <http://tinyurl.com/4pkg2pg>)

ANIMAL DEATH TOLL ENDS CLONING TRIALS

Unacceptable death rates of laboratory animals have forced



AgResearch to end its cloning trials in New Zealand.

Reports into trials conducted at the Ruakura centre detail chronic arthritis, pneumonia, lameness and blood poisoning among the causes of cattle, sheep and goat deaths.

The reports, made available under the Official Information Act, refer to trials including those carried out on genetically engineered animals being developed to produce a kind of supermilk as well as on animals being cloned.

Other trials where deaths occurred included those that were looking for resistance to eczema in sheep, those exploring feeding motivation in pregnant sheep and those collecting tissue from genetically modified embryos.

The general manager of applied biotechnologies Jimmy Suttie said that after 13 years of studying how to prevent abnormalities forming in cloned animals, AgResearch had ended its cloning research.

Only about 10 per cent of cloned animals survived through the trials, with the main problems being spontaneous abortions and hydrops—where a cow's uterus filled up with fluid, leading to the mother having to be euthanised as well.

(Source: *Dominion Post, New Zealand*, 2 February 2011, <http://tinyurl.com/6e97uu4>)

SWISS VOTE FOR COMPLEMENTARY MEDICINE

In Switzerland, popular pressure has decreed that state-backed health insurance must pay for five types of "complementary medicine" between now and 2017, pending an investigation into their efficacy.

In 2009, 67 per cent of the Swiss electorate voted, under the country's system of deciding issues by referendum, for five complementary therapies to be covered by health insurance. They are homoeopathy, herbal and traditional Chinese treatments, neural therapy and anthroposophic medicine.

In 2017, an evaluation based on a report on existing studies of the techniques will be prepared by Swiss complementary practitioners and then reviewed by an independent body.

(Source: *New Scientist*, 26 January 2011, <http://tinyurl.com/62zy3a8>)



... GLOBAL NEWS ...

OPIUM BOOMS IN AFGHANISTAN

Afghanistan is the world's largest producer of opium, the raw material harvested from poppies to make heroin as well as alkaloids like codeine and morphine.

According to two cables released this month by WikiLeaks, Afghanistan's supply of opium exceeds the world's demand for heroin, with its unsold stock currently totalling 12,400 tons.

Taliban-linked drug cartels emerging along the southern border of the country, where 99 per cent of production takes place, influence the majority of poppy cultivation by coercing farmers into growing the crops for a strong and well-supplied insurgency.

The drug trade in the south of the country is compounded by Afghan President Hamid Karzai's treatment of traffickers, including granting early releases to well-connected suspects. Karzai also pardoned five border police officers, who were caught with 124 kilograms of heroin and sentenced to serve 16 to 18 years in prison each, "on the grounds that they were distantly related to two individuals who had been martyred during the civil war".

(Source: *Truthout*, 6 January 2011, <http://tinyurl.com/33zyluj>)

PLACEBO EFFECT WORKS, EVEN IF PATIENTS KNOW THEY'RE GETTING A PLACEBO

Patients can benefit from being treated with sham drugs even if they are told they contain no active ingredient, scientists have found. The finding suggests that the placebo effect could work without the need for any deception on the part of the doctor, as had been previously thought.

When a patient undergoes a sham treatment for a disorder, such as taking a sugar pill, but still experiences a measurable improvement in their condition, this is known as the "placebo effect". It

was widely thought, however, that the effect only works if the patient believes that the treatment they are receiving contains an active ingredient.

To investigate the limits of placebo, Professor Ted Kaptchuk of Harvard Medical School's Osher Research Center divided 80 patients suffering from irritable bowel syndrome (IBS) into two groups: one received no treatment, and the other was given dummy pills to take twice a day. The second group was told by the doctors that they would be taking "placebo pills made of an inert substance, like sugar pills, that have been shown in clinical studies to produce significant improvement in IBS-symptoms through mind-body self-healing processes".

"Not only did we make it absolutely clear that these pills had no active ingredient and were made from inert substances, but we actually had 'placebo' printed on the bottle," said Kaptchuk. "We told the patients that they didn't have to even believe in the placebo effect. Just take the pills."

The results, published in the scientific journal *PLoS ONE*, showed that the placebo pills were more effective at relieving symptoms compared with doing nothing at all.

"I didn't think it would work," says senior author Anthony Lembo of the Beth Israel Deaconess Medical Center and an expert on IBS. "I felt awkward asking patients to literally take a placebo. But to my surprise, it seemed to work for many of them." (Source: *The Guardian*, 22 December 2010, <http://tinyurl.com/2zvjud6>)

HALF OF GERMANY'S DOCTORS PRESCRIBE PLACEBOS

Prescriptions of placebos are booming in Germany and Switzerland, reveals a report released last week by the German Medical Association (GMA).

For example, 53 per cent of the doctors from the Medical University of Hannover said they would prescribe placebos such as vitamin pills and homoeopathic remedies. Half the doctors in a national Swiss survey agreed.

Their use of such treatments contrasts with the UK, where homoeopathic treatments have been rejected by scientists. However, "physicians should be made aware of the value of the placebo effect in the daily treatment of patients", said Christoph Fuchs, chief executive of the GMA.

(Source: *NewScientist*, 13 March 2011, <http://tinyurl.com/68cfbvp>)



... GLOBAL NEWS ...

THE DR DAVID KELLY AFFAIR: NEW EVIDENCE REFUTES "SUICIDE"

In the UK, a group of doctors is petitioning the Attorney General, Dominic Grieve, for the reopening of inquiries into the death of government weapons inspector Dr David Kelly.

The doctors have supplied fresh evidence that no fingerprints were recovered from the knife which Dr Kelly allegedly used to slit his wrist and a pack of pills which he apparently took, nor from a mobile phone, watch and water bottle found near his body in 2003 in woods close to his Oxfordshire home.

Dr Kelly was found dead after it was revealed that he had provided the information for a BBC News story casting doubt on the government's claim that Iraq had weapons of mass destruction capable of being fired within 45 minutes.

The Hutton Inquiry found in 2004 that he had killed himself; however, the lack of fingerprint evidence was not considered by the inquiry, according to the campaigners.

(Source: BBC, 2 March 2011, <http://tinyurl.com/4b2xszt>)

ARCHAEOLOGICAL SITES FOUND VIA GOOGLE EARTH

David Kennedy, from the University of Western Australia, scanned 1,240 square kilometres of Saudi Arabia using Google Earth. From this bird's-eye view, he found 1,977 potential archaeological sites, including 1,082 ancient tear-drop-shaped tombs made of stone.

Kennedy confirmed that the sites are vestiges of ancient life, rather than vegetation or shadow, by asking a friend in Saudi Arabia, who is not an archaeologist, to drive out to two of the sites and photograph them.

Since Google Earth was launched five years ago, the field of "armchair archaeology" has blossomed. And it's been harder for archaeologists to get out of the office since Spot Image started providing Google Earth with 2.5-metre-resolution imagery taken from the SPOT-5 satellite.

In 2008, researchers from Melbourne, Australia, found 463 potential sites in the Registan Desert in Afghanistan using the desktop computer program.

(Source: New Scientist, 4 February 2011, <http://tinyurl.com/4tkbtzp>)

NANOSATELLITE SYSTEM TO PREDICT ERUPTIONS AND QUAKE

A revolutionary nanosatellite could become the rising star of Russia's space program, developed in conjunction with British scientists to test the physics behind a potentially life-saving scheme.

The joint effort, involving Russia's Institute of Physics of the Earth and London's Mullard Space Science Laboratory, is aimed at developing a workable system to detect the electromagnetic impulses which precede volcanic eruptions and earthquakes—and help timely evacuations.

With the key nanosatellite component measuring 10 x 10 x 20 centimetres and weighing just 2.0 kilograms, the cost of the mission comes down sharply. The Russian-British joint project team believes it can get a nanosatellite into orbit for around \$5 million, far less than the US\$100 million price-tags of old.

Meanwhile, nanosatellites and microsatellites could, in their turn, revolutionise future space travel.

(Source: *TheMoscowNews.com*, 18 February 2011, <http://tinyurl.com/4p4vj8h>)

WIKILEAKS: JAPAN WARNED OVER NUCLEAR PLANTS

A US embassy cable obtained by the WikiLeaks website and seen by the *Daily Telegraph* quotes an unnamed expert who expressed concern in December 2008 about guidance on how to protect nuclear power stations from earthquakes.

The document states: "He [the IAEA official] explained that safety guides for seismic safety have only been revised three times in the last 35 years and that the IAEA is now re-examining them.

"Also, the presenter noted recent earthquakes in some cases have exceeded the design basis for some nuclear plants, and that this is a serious problem that is now driving seismic safety work."



... GLOBAL NEWS ...

The cables also disclose how the Japanese government opposed a court order to shut down another nuclear power plant in western Japan because of concerns it could not withstand powerful earthquakes.

The court ruled that there was a possibility that local people might be exposed to radiation if there were an accident at the plant, which was built to out-of-date specifications and only to withstand a "6.5 magnitude" earthquake.

Another cable to Washington reported local concerns that new-generation Japanese power stations that recycle nuclear fuel were jeopardising safety.

The cables also disclose how Taro Kono, a high-profile member of Japan's lower house, told US diplomats in October 2008 that the government was "covering up" nuclear accidents.

(Source: The Telegraph, UK, 15 March 2011, <http://tinyurl.com/63pe9ga>)

RUSSIA SUGGESTS ARAB REVOLTS INSTIGATED BY OUTSIDE FORCES

Moscow is concerned that the turmoil in the Arab world, aggravated by western interference, may destabilise Russia's restive North Caucasus and former Soviet Central Asia.

"The Arab revolt may have begun as spontaneous protests, but the West has now moved to take the end-game under its control," says Konstantin Kosachyov, chairman of the Foreign Affairs Committee of the State Duma.

Analysts say the US is using the same techniques in the Arab East that it earlier used in staging "colour revolutions" in the former Soviet Union, in Georgia, Ukraine and Kyrgyzstan. They noted the role of CIA-linked foundations in supporting and training civil activists and Twitter and Facebook organisers of the protests in Egypt and Tunisia.

(Source: The Hindu, 11 March 2011, <http://tinyurl.com/4mzyvgv>)

BRIC BECOMES BRICS: EMERGING REGIONAL POWERS? CHANGES ON THE GEOPOLITICAL CHESSBOARD

The world's four main emerging economic powers, known by the acronym BRIC (Brazil, Russia, India and China) now refer to themselves as BRICS, after the inclusion of South Africa on 24 December 2010. This is a development of geopolitical significance and it has doubtless intensified frustrations in Washington, which has been concerned about the growing economic and political strength of the BRIC countries for several years.

The US is still the dominating global hegemon, but a swiftly changing world situation is taking place as Washington's economic and political influence is declining, even as it remains the unmatched military superpower. America suffers from low growth, extreme indebtedness, imperial overreach and virtual political paralysis at home while spending a trillion dollars a year on wars of choice, maintaining the Pentagon military machine, and on various other "national security" projects.

The BRICS countries, by their very existence, their rapid economic growth and their degree of independence from Washington, are contributing to the transformation of today's unipolar world order—still led exclusively by the United States—into a multipolar system where several countries and blocs will share global leadership.

BRIC as an organisation had a most unusual birthing. The event took place in 2001 when an economist with the investment power-house Goldman Sachs created the BRIC acronym and identified the four countries together as a lucrative investment opportunity for the company's clients based on the enormity of their combined gross domestic product.

At the initiative of Russia's then president Vladimir Putin in 2006, BRIC began what became regular meetings at the ministerial level that evolved a couple of years later into what is in effect a political organisation. There are some differences and rivalries within its ranks that have been kept within bounds, such as between China and India (which is also close to the US) and to a lesser extent between Russia and China. All five BRICS states—three of whom possess nuclear arsenals—maintain essentially cordial relations with the US and try to avoid antagonising the world superpower.

The time of decision about the architecture of future world leadership draws nearer. At some point in 10 or 20 years, a reluctant Washington may have to settle for a prominent position in a multipolar world construct.

But of course, there remains another possibility.

Given the volatile global situation—peak oil, climate change, continued US imperial wars, grave poverty that will increase as world population grows from 6.8 billion today to over 9.0 billion in 2050, and many emerging countries seeking a rightful share of world leadership—the United States may resort in time to global military aggression to sustain its dominant status, possibly even World War III. Considering the US political system's decades-long move towards the right, the enormity of the Pentagon's arsenal, the militarism in our society and the ability of Washington and the corporate mass media to collaborate in "selling" wars to a misinformed public, this cannot be ruled out.

It is impossible to predict how all this will turn out. What is known is that the American people still have the power to make their own history. This is not so much a question of voting (for whom, in this case?) but of taking action to galvanise the masses of people to oppose the political structure's penchant for wars and global domination.

(Source: by Jack A. Smith, Global Research, Canada, 16 January 2011, <http://tinyurl.com/4c86j5m>)

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AMERICA'S EMERGING SPACE WEAPONS ARSENAL

In the United States, missile defence contractors in league with "Space Hawks" and the Pentagon are hell-bent on researching and testing space-based weapons and avoiding signing international treaties that would keep space for peaceful purposes.

Part 1 of 2

by John Lasker © 2010–2011

Email: johnlasker@sbcglobal.net

Based on chapter three
of his 2010 book *Technoir*

The Greatest Trojan Horse—Ever?

For a year, Bruce Gagnon had the same nagging feeling: that someone was, or some people were, on the edges of his life, trying hard to look in. Were they parked around the block in their black Ford SUV with tinted windows? Or like a cyberspace shadow, could they be following every move he made on the Internet? He just knew it: something wasn't quite right. Or was he just being paranoid? Was his status as the director of one of the world's fastest-growing arms-control movements getting the best of him?

Then Gagnon received an unexpected phone call. It was a lawyer from Florida's American Civil Liberties Union (ACLU). The ACLU lawyer right away told him: "You and your family are being spied on by NASA, the Air Force and the Brevard County Sheriff's Department"—basically, a bunch of good ol' boys from near the Kennedy Space Center in Florida where Gagnon had often protested. He would soon find out that this posse of spies had conducted background checks on him and his son. The spies were also monitoring the arms-control website that he runs, and attending Kennedy Space Center protests incognito—protests that he'd coordinated.

Gagnon's instincts, once again, had warned him correctly: a lot of people out there don't think too highly of him or what he does. The fifty-something Gagnon directs the Global Network Against Weapons and Nuclear Power in Space from his office in Maine. The Global Network's aim is to stop all and any weapons, along with any nuclear-powered technology, from ever being deployed past Earth's atmosphere and into space. He established the Global Network in 1992, and today it is considered one of the fastest-growing peace activist groups across the globe, with chapters in 170 countries. Bruce Gagnon's *résumé* also includes guest lectures at scores of high-profile universities, and his writings have been published in prominent newspapers and magazines. He's also a hero of sorts in parts of Europe and Japan.

"We're a small organisation with meagre resources," said Gagnon from his Maine office during an interview for my book *Technoir*.¹ "They feel threatened by us? That tells us something."

The ACLU filed a number of Freedom of Information requests seeking records that may reveal the entire scope of the government's probe.

"NASA states, in these documents, that they [also] have 'confidential sources' in Britain and Belgium monitoring Global Network activities," said Florida ACLU attorney Kevin Aplin to this reporter.²

Why would the Pentagon, home to the world's greatest and smartest warriors, be so interested in a small, bare-to-the-bones, peace activist group?

"Space weapons," said Gagnon, a veteran of the US Air Force.

Space is militarised with spy satellites, but space is not weaponised with, for example, "battlesats" or killer satellites loaded with lasers or missiles. Putting weapons into space, or creating weapons that can destroy targets in space, is the arms race for the 21st century, say experts. It's an arms race that

was re-ignited by the Bush administration, China and, to a lesser degree, Russia. It's an arms race that has the US aerospace industry drooling for more. Building constellations of battlesats, for example, could mean hundreds of billions of dollars for the industry.

It is believed that there are no weapons in space at the moment, but there are weapons on the ground that have the proven capability of taking out targets in space—weapons that have already made aerospace giants such as Lockheed Martin and Boeing, and their executives, very, very rich.

European Missile Defence Shield

Indeed, new markets and new territories are opening up for these mega aerospace corporations. In November 2010, at the NATO summit in Lisbon, Portugal, US President Obama triumphed Europe's planned missile shield which will be armed with US missile defence systems.

Under the Obama plan—dubbed by the Pentagon as "A 'Phased, Adaptive Approach' for Missile Defense in Europe"³ and pushed hard by Secretary of Defense Robert Gates—US Navy destroyers armed with Aegis interceptors, which can obliterate space-based targets, will be stationed by 2011 in the Eastern Mediterranean, Adriatic and Baltic seas, with possible future deployments in the North Sea. The "Phased, Adaptive Approach" also calls for land-based interceptor batteries and radar sites, with the first systems to be set up by 2015 in Romania and by 2018 in Poland. Washington is also waiting to hear whether Turkey will approve additional sites.

Furthermore, the Obama administration has said that the New Strategic Arms Reduction Treaty—which Republicans have argued would limit US missile defence—would have "no constraints on current and planned" missile defence programs.⁴

Russia's role in the European missile shield is not clear, but Russian officials have said publicly that Moscow would have authority over one of the "defence quadrants".

"And tomorrow, we look forward to working with Russia to build our cooperation with them in this area as well, recognizing that we share many of the same threats," said President Obama in Lisbon, alluding that this is the first time in history that Russia and the 28 NATO member states will be working together in defence.⁵

But Moscow has said that if it is not given equal responsibility, it will back out of any cooperation.

Bruce Gagnon, director for the Global Network Against Weapons and Nuclear Power in Space, believes that

Moscow has good reason to be wary of NATO. "Russia is not really on board because NATO is not serious about making them full partners, and in the coming months we will likely see it break down between NATO and Russia," he said. "Russia had no choice but to call the US–NATO bluff and say, 'Sure we'll play along'."

Gagnon and other peace activist organisations such as No to NATO, which claims that NATO's early-21st-century mission is based on intervention and armament, report that Russia is feeling NATO closing in on them. "Russia does view [European missile defence] as a threat because they clearly see NATO expanding eastward, after being promised by the US after the fall of the Berlin Wall that NATO would not expand one centimeter eastward," said Gagnon. "US missile bases in Romania and potential NATO bases in Latvia, Lithuania, Estonia and Georgia give Russia the clear message that they're being targeted with these missile defense systems despite the rhetoric about it being about Iran."

For instance, NATO and the White House are championing the European missile defence shield

partially based on intelligence allegations that North Korea secretly gave Iran 19 BM-25 ballistic missiles with a range of 2,000 miles (3,220 kilometres). This intelligence nugget recently went public via WikiLeaks, but, since then, missile defence experts have cast doubt on the transfer, openly wondering if the intelligence is bogus so as to advance a European missile defence shield.

Putting weapons into space, or creating weapons that can destroy targets in space, is the arms race for the 21st century, say experts.

Towards a New Outer Space Treaty

What is clear is that weapons in space are considered a "global taboo" by scores of nations—probably because many will never have the know-how or the money to build such weapons to counter the US, China and Russia. For several decades now, the UN has tried to help broker anti-space-weapons treaties, but during the 2000s the US brushed them off. In fact, the Bush administration unilaterally withdrew from the Anti-Ballistic Missile Treaty made in 1972 with the former Soviet Union. The treaty's intention was to limit missile defence, such as deploying anti-ICBM (intercontinental ballistic missile) technology—battlesats—in space. It was a brash and cocky move—one that some critics said flushed 36 years of other agreements on nuclear non-proliferation down the latrine. Then, in 2005, the Bush administration voted to block a UN resolution to ban actual space weapons. It was the first time that the US had voted that way. To the rest of the world, it sure as hell looked as if the US was going to break one of mankind's greatest taboos. The ironic thing is that mankind probably has already broken it. Space

historians are confident that, during the Cold War, the Soviet Union put weapons into orbit—or they tried, and tried hard. Desperate to counter what they believed to be an emerging US space weapons threat, the Soviets in 1987 put their *Polyus* "laser space battle station"—or battlesat—into orbit. The *Polyus*, a cylindrical craft that would orbit like a satellite, was equipped with a laser cannon, another laser that could blind any approaching ASAT (anti-satellite) weapons and a third cannon that could release nuclear space mines. It could also release a cloud of barium as another defensive measure. Shortly after lift-off, however, the *Polyus* malfunctioned, plunging into the South Pacific where it remains to this day. The Soviets were also working on arming one of their space stations with a high-powered machine-gun that could take out aircraft and fighter jets.

Think of this scenario: you're flying in an airliner and—without warning, considering there is no space radar—high-powered bullets begin punching huge holes into the cabin. Such thoughts have made peace activists across the world shake their heads in astonishment. Can't the human race leave war out of space? Can't space be used for peaceful purposes only? Those are the basic beliefs (packaged here in questions) behind the anti-space-weapons movement.

Scores of countries and millions of people embrace the mantra that space should be used for peaceful purposes only. But in the 21st century, the US military, especially the US Air Force and the US Space Command, along with their partners in the US aerospace industry, have probably reached the point of no return. They believe wholeheartedly and without guilt that space will inevitably be weaponised with battlesats and the like. They argue that wherever man goes, so go his weapons.

The 1967 Outer Space Treaty outlaws weapons of mass destruction to be deployed in space or on celestial bodies—but not weapons of *selective* destruction such as nuclear-powered battlesats, said Gagnon. The Pentagon has taken advantage of this loophole, he said. But catching on to the Pentagon's space desires are Canada, China, Russia and India, which are seeking to overhaul the treaty and establish a new language that will limit space weapons. Yet some experts suggest that China's and Russia's desire for a new treaty is a strategy to divert attention away from their own space combat research. Nevertheless, there are two countries opposing changes to the 1967 treaty: the US and Israel.

The United States: Master of Space?

So how did the human race reach the edge of this chasm, literally to the brink of the atmosphere?

"Missile defence," said Gagnon.

He called it the great ruse, the big lie, perhaps the biggest sham of all time.

"The so-called missile defense system, the idea of having a bullet-hit-a-bullet in space to protect the continental US or Japan, is a Trojan Horse," said Gagnon in my interview with him. "That's why Bush was not concerned that missile defense testing did not go well. The true purpose of this arms program is to control and dominate space. And whoever controls space will control the Earth."

And not just the Earth, added Gagnon. If the US were some day to dominate the heavens with battlesats, it would have the ability to strike anywhere on Earth at a moment's notice—something that many officers in the Pentagon desire, considering it now takes the US at least one to two days to strike a target anywhere on the globe. Think about it: bin Laden might not have got away (that's if he wasn't allowed to get away—a theory which even members of the US military have wondered about).

But Gagnon said that US plans go further, much further, than "Global Strike" capabilities. If the US dominated Earth's orbits, it would control the "Earth-Moon gravity well", he noted. The US would gain control of these shipping lanes of the future. Shipping lanes? Yes, said Gagnon, so as to make sure that the US controls helium-3 (covered in chapter four of my book).

"The US has made no secret of the fact that it considers space to be the military high ground," Gagnon stated. "If you master space, you can control the world. The US is already calling itself 'Master of Space' [the US Space Command at Peterson Air Force Base in Colorado refers to itself as such]. Other nations will react by considerably increasing their arsenals, and many treaties will be broken or at risk. How long will it be before weapons are stationed in space—to be aimed at any target, anywhere on Earth? How long before the 'Star Wars' fantasy becomes a grim reality?"

Within the next 20 to 40 years, he suggested.

For starters, the US military's plan to dominate Earth's orbits are right out in the open. For instance, take the Pentagon's doctrine called "Full Spectrum Dominance", Gagnon added. Officially made public in May 2000 at the

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dawn of the Bush administration, the concept of full-spectrum dominance means that the US wishes to dominate a conflict at every level: control the Earth with conventional military forces; control the seas with the Navy; control the sky with the Air Force; and now control space with new technologies under development today. A bit later, in the "Strategic Master Plan FY06 and Beyond", the US Air Force Space Command stated: "While our ultimate goals are truly to 'exploit' space through SFE [space force enhancement] and SFA [space force application] missions, as with other mediums, we cannot fully 'exploit' that medium until we first 'control' it."⁶

According to the Center for Defense Information (CDI), a Washington-based space weapons think-tank, missile defence is the most expensive US weapons program of all time: US\$120 billion has been spent since 1983 when President Ronald Reagan called for an anti-missile shield.

At the moment, the US Missile Defense Agency is working on 12 separate programs, some of which are ready to be deployed and can blow up targets in space, e.g., the THAAD, or the Terminal High Altitude Area Defense (see more detail and explanations of US space weapons in part two of this feature).

Nevertheless, the Pentagon insists that it is not researching space weapons: it's researching missile defence. Thus there's no need for a space weapons treaty. Gagnon said, "Don't play the fool". The Pentagon has spent \$120 billion (that's just the unclassified spending) and countless man-hours on a weapons program that hasn't truly produced anything of value to the civilian or the warrior on the battlefield.

Another reason why missile defence is a Trojan Horse is because the Pentagon has nothing to show for all the money it's spent, said Gagnon. What it's getting for spending \$120 billion is "dual use" technology, he noted. Instead of taxpayers' dollars being put into building new roads and bridges and rehabbing countless schools, they are being given to the Pentagon to create an arsenal of space weapons, he said.

The CDI leans politically to the left, and, like Gagnon, some of its arms-control experts also support the dual-use hypothesis for missile defence. "So many missile defensive capabilities have inherent, offensive applications as well," said CDI director Theresa Hitchens in a comment for my book.⁷

For an example of dual use, take Pearl Harbor's USS *Lake Erie*, a guided-missile cruiser which is armed with the Aegis missile defence system. The Aegis fires interceptors like the THAAD and has an impressive record knocking out dummy intercontinental ballistic missiles. In 2008, however, the USS *Lake Erie* and its Aegis obliterated a satellite as it orbited over Hawaii, littering low-Earth orbit for eternity unless cleaned up. The Pentagon claimed that its spy satellite had malfunctioned and needed to be taken out. The Aegis—which is the name of Zeus' shield—has been installed on 18 US warships, giving the US the ability to attack nearly any target in orbit around the Earth.

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The Future of Warfare

The desire to build such weapons and put them into space is not just a 21st-century phenomenon. Since World War II and through the Cold War, both the US and the Soviet Union have researched missiles, lasers and satellites that could strike in space and be based in space or on Earth. They were being designed, for instance, to shoot down satellites or make them go deaf, dumb and blind. In fact, in 1985, the US in a test downed a satellite with a missile launched from an F-15 fighter jet. Such an event wouldn't occur again until 2007, when the Chinese obliterated one of its own satellites with a ground-based missile.

Members of Congress all of a sudden were bellowing about how vulnerable US satellites are. A year later, the US countered the Chinese when the USS *Lake Erie* downed the malfunctioning spy satellite.

Both shoot-downs foreshadow the future of war. To win at modern warfare, you need to have eyes and ears constantly circling the globe. Battlefield communication, location of forces, spying, terrain recon, GPS and guiding missiles to their target from hundreds of miles away are just some combat functions powered by satellites within orbit around the Earth. "Information superiority" is what it's called. The Pentagon's mantra is: it's not that you need to have satellites to win a war, you *have* to have satellites to win a war. So if one warring side had the ability to make another side—especially the US—go both blind and deaf, they would do it—and they're trying, especially Russia and China.

If China one day were to want back its "lost province" (known to us as Taiwan), the first thing it might do would

be to give the order to shoot down as many US satellites as possible. China has fired ground-based lasers at US satellites before—blinding them, yet not destroying them. It would take a tremendous amount of energy to send a laser through the atmosphere and then damage a satellite. The US, though, is close to having this capability.

Officially, the US military's anti-satellite program does not exist. And while Gagnon's theory of the US controlling the heavens some day may be a little strong for some people, some experts agree: the US is secretly testing anti-satellite capabilities under the mask of missile defence.

"There's an Air Force Counterspace Operations doctrine [published in 2004]. They have already deployed ground-based satellite jammers. What there isn't currently is an active, unclassified program to interfere with satellites by physically destroying them," said Laura Grego, a space-weapons expert with the Union of Concerned Scientists (UCS). Notice that Grego did not say "classified" or "secret". "Instead of declaring a destructive anti-satellite program, there's a built-in capability for anti-satellite warfare in missile defense," she said.⁸

Consider the fact that if the US were to create a fleet of battlesats, strictly for missile defence, it would have to be strung across Earth's lower orbits so as to cover large areas of the globe and space. The UCS stated: "To keep at least one satellite over a missile launch site at all times, many SBIs [space-based interceptors] would have to be in orbit. In a 2003 study, the American Physical Society showed that many hundreds or thousands of SBIs would be required in orbit to provide global coverage against ballistic missiles. The study also showed that given the technology expected to be available for the next decade, each SBI would weigh a ton or more. As a result of these factors, deploying such a system would be hugely expensive."⁹

The V-2 Rocket, SDI and *Brilliant Pebbles*

Many believe that the first space weapon was the Nazis' V-2 rocket, which terrorised the Allies. The V-2 would spend part of its journey in space and then descend on its target, just like today's ICBMs. The V-2, by the way, was designed by the infamous Wernher von Braun, who would escape from Germany to America and become known as the "Father of the American Space Program".

Interestingly, on his deathbed, von Braun allegedly told a confidante, Dr Carol Rosin, that US space weapons would be "based on a lie" and be up and

running before the rest of the world knew what had hit them. Even more intriguingly, he said that the US military would use extraterrestrial aliens or rogue asteroids as its lie to justify putting weapons into space.¹⁰ Interestingly, it is not documented whether he said that "missile defence" would be the "lie" behind US space weapons.

Not long after von Braun passed away, President Ronald Reagan—the sabre-rattling, terrorist-hunting Republican who wanted to bury the Soviet Union's Communist bear—brought "Star Wars" to the world's centre stage in the early 1980s. "Star Wars" was actually a moniker given to the Strategic Defense Initiative, or SDI. But what truly inspired—or forced—Reagan to call for his anti-missile shield? Was it his dream, or was he simply following a plan that had been set in motion long before he won the White House?

Johann Hari, a British journalist with stealth-like talent, claimed that Reagan came to the idea of creating a space shield from a 1940s B-movie in which he'd starred. In the movie, titled *Murder in the Air*, Reagan plays a secret agent who has to protect a weapon called the "inertia projector". Hari wrote that the weapon "fired an electrical current at any plane or missile approaching the United States, rendering it worthless". A scientist tells Reagan that this weapon "makes the US invincible

**...some experts agree:
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defence.**

in war, and promises to become the greatest force for world peace ever discovered".¹¹

Nevertheless, Reagan wanted a shield over America using ground-based lasers, missiles and battlesats. One program that his scientists envisioned and worked on (spending millions) was *Brilliant Pebbles*. A satellite would release dozens of watermelon-sized interceptors that would act like a wall of bullets and fly into a group of targets so that they take out everything, even a decoy ICBM. President Bill Clinton cut the *Brilliant Pebbles* program and it has never been revived. Clinton downgraded missile defence in general, slashing millions in funds. However, a few senior office-holders were determined to keep missile defence alive during the 1990s, one of those being Senator Daniel Inouye of Hawaii, a Democrat and also a World War II hero. Inouye claimed that he needed to protect the islands from the North Koreans—who have a hard time feeding their own people, let alone building ICBMs.

"Space Hawks" and Missile Defence Contractors

Also waiting during the 1990s was an entirely new generation of missile defence proponents. They waited in conservative think-tanks and in military academies, working quietly to keep missile defence in the minds of

those who could make it happen: those with an office on Capitol Hill. This new generation, as it grew stronger and took power, was then tagged with their appropriate nickname: the "Space Hawks". Some of them took power in 1994, a year when the Republicans re-took the House with their "Contract with America". This so-called Contract called for, among other things, cutting PBS [Public Broadcasting System] funding severely, but it also pledged to renew America's commitment to missile defence. The lovable Newt Gingrich was an architect of this Contract, and he was persuaded by the Washington-based Center for Security Policy to include the missile defence provision. This right-wing think-tank was a nest of missile defence and space weapons advocates, including Donald Rumsfeld, Bill Bennett and Lockheed Martin corporate officers.

To grasp fully how this arms race got so hot during the 2000s, you have to understand a very familiar three-way partnership. Defence contractors, such as Lockheed Martin and Boeing, along with Congress and the Pentagon, all depend on each other in a big, big way. This relationship has come to an "Eisenhower fruition". Eisenhower, at the end of his presidency in 1961, made the timeless plea to beware of the "military-industrial complex". And when it comes to missile defence, he was dead on. Lockheed Martin and Boeing remain the Pentagon's first- and second-highest-paid defence contractors respectively, and they want it to remain this way. To do so, they spend millions lobbying Congress trying to convince office-holders that there is a need for such weapons. Thus they keep billions of dollars flowing on a yearly basis for decades to come.

The Pentagon, the US Space Command and the US Air Force also lobby Congress, begging it for their new toys. It is this group that is the creative force behind space weapons. This is the group in need of a space plane that can strike a target anywhere on the globe within one hour and be able to fly in and out of the atmosphere at will. But it is the civilian missile defence contractors that need the billions to engineer such a craft. Allowing this money to flow in a deluge to missile defence contractors are, of course, those members of Congress who have the keys to the nation's safes. It shouldn't come as a surprise, then, that missile defence contractors are some of the biggest political campaign financiers out there.

At the start of the Bush administration, missile defence contractors broke out buckets of Crisco so as to grease their large pipes. George W. Bush was prepared to pump billions of extra dollars into missile defence

research and development. Jokes aside, it would be a "Golden Age" for Lockheed Martin and Boeing. As for those politicians in each of their pockets, consider the two current senators of Alabama: Republican Richard Shelby and Republican Jeff Sessions. Between 2001 and 2006, they ranked first and second when it came to receiving campaign contributions from the likes of Lockheed Martin and Boeing. Both are high-ranking members of defence-funding-related Senate committees. And in return for several hundred thousand dollars in campaign contributions, they have approved billions in funding for missile defence research in northern Alabama. Huntsville, Alabama, is also called "Rocket City"—the city that Wernher von Braun built. The city claims to have 50 civilian companies working on missile defence, including all the giants, i.e., Lockheed Martin. It was expected that by 2010, over 6,000 missile defence scientists and researchers would be working in and around Huntsville, a region of 380,000 people.

Besides the Crisco, also coming out during the early days of the Bush administration were the Space Hawks. Before Bush was even raced through Washington streets so as to be sworn in as quickly as possible in January 2000, his Space Hawks were giving birth to "Son of 'Star Wars'". That same month, the now-disgraced Donald Rumsfeld released a report which warned that a "Space

Pearl Harbor"¹² or a colossal space-combat sneak attack from an enemy could cripple the nation. This meant that the US needed to build space weapons so as to protect satellites. Rumsfeld's report also stated that the US needed "Power projection in, from and through space".¹³ What this means is that the US should some day be able to manoeuvre a satellite over a target—on the Earth's surface—and then melt it with a future particle-beam weapon. At the time, Rumsfeld hadn't even been appointed Bush's Secretary of Defense yet, but that was just days away.

Apparently, Rumsfeld was certain that the enemies of the free world could wipe out America's 400-plus satellites. Nuclear detonations in Earth's orbits are plausible. It is a space-combat-related strategy which both Russia and the Chinese have prepped for, but would they ruin the orbits surrounding the Earth for centuries to come? Or was Rumsfeld in many an aerospace executive's pocket? The Rumsfeld report indeed had major corporate influence: seven of the 13 commissioners of the report either were working for the aerospace industry or used to work for it.

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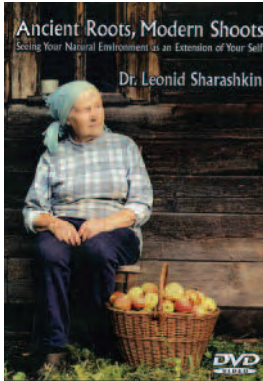
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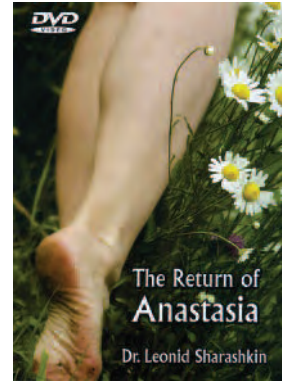
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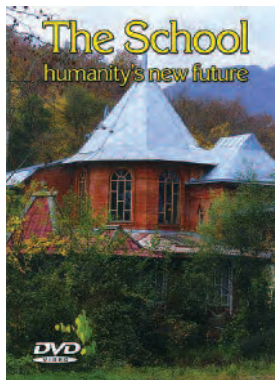
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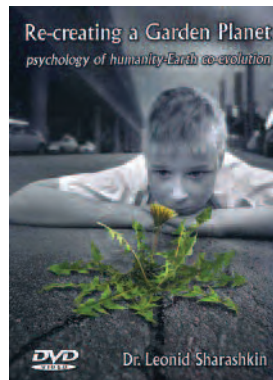
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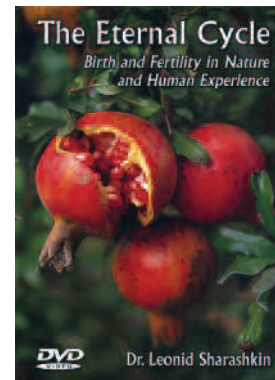
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GM PRODUCTS

AN INDUSTRY BUILT ON MYTHS

While biotechnology corporations and some governments continue to press for the more widespread introduction of genetically modified organisms into the environment and food supply, opposition to GMOs is on the rise worldwide and cultivation of GM crops is in decline in many regions.

by Joseph Zacune *et al.* for
Friends of the Earth
International © February 2011

Edited extracts from FOEI's report
"Who Benefits from GM Crops?
An Industry Built on Myths"

Website: <http://www.foei.org>

The biotechnology industry secures funding from a vast array of public and private sources, promising to combat hunger, poverty, malnutrition and now even climate change. Yet large-scale cultivation of genetically modified (GM) crops is still limited to six countries, with the vast majority of these crops grown for fibre, industrial agrofuels and animal feed, not for feeding people.

No new beneficial traits of GM crops have been successfully commercialised by the biotech industry, despite persistent assurances about the development of drought resistance² and nitrogen fixation through to the availability of enhanced nutrients and a reduced need for fertiliser.³ Most "new" GM crops turn out to be existing herbicide-tolerant and insect-resistant gene traits stacked in a single modified crop.

In fact, insect resistance and herbicide tolerance are the only two traits that have been developed and cultivated on a large scale, purportedly to reduce pesticide usage. According to the International Service for the Acquisition of Agri-biotech Applications (ISAAA), 99 per cent of commercially grown GM crops are still herbicide tolerant or insect resistant.⁴ In the European Union (EU), 43 out of 49 applications for GM cultivation are for herbicide-tolerant or insect-resistant varieties.⁵ Fifteen out of 23 pending applications in the US are also for herbicide tolerance or insect resistance.⁶

Creative Accounting

ISAAA annual reports tend to be overreliant on industry data, contain inaccurate statistics and have few or unclear sources. They also cite their own chair, Clive James.⁷ ISAAA inflates its figures through double and triple accounting by using its concept of "virtual hectares", which involves multiplying the actual surface area with the number of GM traits in crops. In this way, a field of one hectare in size, growing a GM crop that is tolerant to two herbicides and has an insect-resistant gene, counts as three hectares.⁸

Few GM Crops in Few Countries

GM crop cultivation is confined to just a few countries around the world. Ninety-five per cent of GM crops are cultivated in the US, Brazil, Argentina, India, Canada and China. The other 19 countries (out of a total of 25) that the ISAAA reports on collectively grew a mere seven million hectares.⁹ Almost 60 per cent of all GM crop field trials worldwide are carried out in the United States.¹⁰

According to ISAAA's 2009 annual report, GM crops occupy 134 million hectares.¹¹ This is out of a total area of global agricultural land of over 4.9 billion hectares,¹² meaning that the combined area of all GM crops in 2009 covered just 2.7 per cent of all agricultural land. Over 97 per cent of global farmland remains GM free.

Despite public and private investment for over three decades, GM crops

have also failed to address global food security concerns¹³ or to raise yields consistently.¹⁴

Just four crops—soya, maize, oilseed rape and cotton—dominate almost all the production on land under GM cultivation. Staple food crops such as wheat, rice, cassava, barley, oats, sorghum and millet are GM free as far as commercial production is concerned. The cultivation of GM potatoes for industrial use in Europe is marred by controversy.

Despite PR by biotech companies and pro-GM research institutes, acceptance of GM crops is in fact declining, even in the countries that have historically cultivated the largest areas of GM crops. In the US, a hugely pro-GM country, GM alfalfa has been banned from commercial cultivation¹⁵ and sugar beet seedlings were ordered to be uprooted due to inadequate environmental impact assessments.¹⁶ In India, Bt brinjal, its first GM food crop, remains banned.¹⁷ In Brazil, the commercial release of Bayer's GM maize has been stopped.¹⁸ In Europe, concern about GM food is on the increase while the area under GM cultivation continues to fall.¹⁹

In its 2009 report, ISAAA states that 14 million small and large farmers, 90 per cent of whom are described as resource poor, benefit from biotech crops.²⁰ These unsubstantiated claims ignore widespread resistance to GMOs including by farmer mass movements such as La Via Campesina, which has a global membership of 200 million.²¹

GM CROPS IN EUROPE

The area dedicated to GM crop cultivation in Europe, which is limited to Monsanto's MON810 maize and BASF's Amflora potato, has fallen steeply over the last two years. At the same time, popular opposition to genetically modified organisms (GMOs) in the EU has increased to 61 per cent.²² These concerns over GM contamination are warranted, and new cases of GM potato contamination have also led to bans: the 2010 approval of a new GM potato by the European Commission has resulted in bans on the potato in Austria, Luxembourg and Hungary.²³

However, while these are the only two GM crops permitted for cultivation in Europe, a number of GMOs are approved for feed and food imports. The feed industry is currently exerting pressure on the EU to repeal its zero-tolerance regulation of non-approved GM feed and food. Furthermore, the European Food Safety Authority (EFSA), which

assesses the risks associated with GMOs with respect to food and feed safety, has had its close relationship with biotechnology corporations exposed.²⁴

These unsubstantiated claims ignore widespread resistance to GMOs including by farmer mass movements such as La Via Campesina...

GM Cultivation Declining in Europe

As the biotech industry continues to be hit by legal proceedings, scandals and public concern over the safety of GM crops, the cultivation of GM crops continues to fall in the European Union. Between 2008 and 2010, the total area under GM crops declined by 23 per cent. In Romania, the area under cultivation declined by 87 per cent, in Slovakia by 55 per cent and in the Czech Republic by 42 per cent.

Over 80 per cent of the total area of land dedicated to growing GM crops in Europe is in Spain, which cultivates Monsanto's MON810 GM maize. Even within this exceptionally GM-receptive European country, official data show there was a 15 per cent drop over two years, with 11 per cent of that drop taking place between 2009 and 2010. (See Table 1 [not shown here; Ed.]).

In Spain, GM crops have contaminated conventional and organic maize and the human food chain, which in turn has had negative economic impacts and resulted in some of the largest-ever demonstrations against GM crops in Europe.²⁵ Yet, new evidence shows the Spanish government collaborating with the US to push for greater acceptance of GM crops in Europe.²⁶



"Meteorites have been annoying this summer."

Public Opposition Increasing

The decline in area under GM crops is a result of years of public opposition, which is increasingly being backed up by independent scientific opinion.²⁷ Governments have heeded widespread health and environmental concerns by banning GM crops. Six countries across Europe have now banned the main EU-authorized commercial crop, Monsanto's MON810 GM maize. France, Germany, Austria, Greece, Hungary and Luxembourg have all put in place bans on MON810 GM maize based on health and environmental concerns. In February 2010, Bulgaria also initiated a total ban on GMOs.²⁸

The tide of public rejection of GMOs is sweeping across Europe, with 169 regions, 123 subregional provinces and departments and 4,713 local governments officially declaring themselves GMO-free zones.²⁹

The latest *Eurobarometer*, published by the European Commission in October 2010, showed that 61 per cent of EU citizens are opposed to GMOs, an increase over the previous year.³⁰ In December 2010, a petition with signatures from over one million EU citizens was delivered to the European Commission, calling for a GMO moratorium and the creation of an independent, scientific and ethical body to test and regulate GM crops.³¹ This appeal followed the requirements of a new legal process, the European Citizens' Initiative,³² and is a landmark event.

Patent Decision

Along with the national bans, another recent successful development for consumers and farmers is the decision by the European Patent Office (EPO) that essential biological methods of breeding plants and animals cannot be considered a technical process to be covered by patents.³³

Patents on plants and animals block innovative breeding and weaken the independence of farmers and consumers, while allowing multinationals to take control over global food production.

This decision delivers a major blow to the biotechnology corporations, which have been using broad legal definitions of patents to gain control over farming and the food chain.

Nevertheless, conventionally bred plants and animals can still be patented in Europe, since the EPO decision only excludes processes for breeding; it does not concern itself with patents on plants and animals more generally.

GM Potato Scandals

Europe is the only region in the world that allows the commercial cultivation of GM potatoes.

In March 2010, the new European Health Commissioner John Dalli authorised BASF's GM Amflora potato for the production of industrial starch and as animal feed.

In addition to that, Amflora is allowed to contaminate food up to a threshold of 0.9 per cent—even without being approved for human consumption.

This is unprecedented, and is a concession to biotech company BASF (since it protects BASF against product recalls and liability).

So far, the contamination threshold of 0.9 per cent has only been applied to GMOs authorised for human consumption (and only if the contamination is accidental and technically unavoidable). According to BASF's own admission, it would not be possible to prevent Amflora entering the human food chain.³⁵

Since the authorisation, Amflora's cultivation has been characterised by contamination scandals, public opposition and judicial proceedings initiated by five European governments.

The Amflora³⁸ potato has been banned by Austria, Luxembourg and Hungary because of the presence of an antibiotic-resistance marker (ARM) gene. There are concerns that this gene could transfer horizontally into pathogenic bacteria, which would worsen the problem of antibiotic resistance in veterinary and human medicine.

This decision delivers a major blow to the biotechnology corporations, which have been using broad legal definitions of patents to gain control over farming and the food chain.

EU Animal Feed Imports

While MON810 GM maize and the Amflora potato are the only GM crops authorised for cultivation in the EU, there are around 40 GMOs approved for feed and food imports.⁴² Imports of GM animal feed into Europe are the main method of entry for GMOs into Europe.

Currently, animal products from animals fed on GM crops do not have to be labelled, although due to consumer demand some European dairy and meat companies and retailers in the UK, Austria, Germany and France have started voluntarily labelling their products as GM free.⁴³

In fact, non-GM soya cultivation in Brazil could also increase in response to European consumers' rejection of GMOs.⁴⁴

Alarming, both the GM industry and the animal feed industry are pushing for the acceptance of thresholds in

the EU in relation to GMOs that have not been approved and are currently treated as illegal.

This attempt to repeal the EU's "zero-tolerance policy" with respect to unauthorised GMOs started in 2007, after soy shipments from the US were discovered to contain non-approved GM maize.⁴⁵

Claims that this policy is causing a crisis by disrupting trade in animal feeds when contamination is discovered are not evidence based. In June 2007, the European Commission's Directorate-General for Agriculture and Rural Development predicted a dramatic decline in pork and poultry meat production within the EU because soya would not be available to EU farmers, or only at exorbitant prices.⁴⁶ But 2009 and 2010 turned out to be record-breaking years, with the highest-ever number of pigs and poultry sold on the market.⁴⁷

European Food Safety Authority's Revolving Doors

The European Food Safety Authority's GMO Panel is responsible for the risk assessment of GMOs, but close associations between some of its members and the biotech industry are undermining its credibility.

In November 2009, the former head of EFSA's GMO Panel, Suzy Renckens, became Head of Biotech Regulatory Affairs for Europe, Africa and Middle East (EAME) at Syngenta after leaving EFSA. Renckens was previously responsible for GMO regulation, but now lobbies for Syngenta to influence EU decision-making on GMOs.

This stark example of conflict of interest has never been investigated and casts doubts over the independence of EFSA.⁵¹ Unfortunately, this is not a unique case.

Harry Kuiper, a leading scientist who has chaired the EFSA GMO Panel since 2003, worked for a task force established by the International Life Sciences Institute (ILSI) before joining EFSA. ILSI is a strongly pro-biotech lobby group funded by food and chemical companies.⁵²

A Monsanto member of staff heads this task force, and all other members are representatives from large biotech corporations such as Monsanto, Dow and Syngenta.⁵³

In October 2010, Diana Banati, the chair of EFSA's Management Board, resigned from the European Board of Directors at ILSI after complaints of conflicts of interest from politicians and NGOs.⁵⁴

GM CROPS IN LATIN AMERICA

Threats Posed by Glyphosate

Criticism of biotechnology is unwelcome. On 7 August 2010, for example, Dr Andrés Carrasco's open lecture to the community of La Leonesa, in Chaco Province in northern Argentina, was violently interrupted. A group of municipal officers and rice workers in favour of pesticide sprayings, led by the mayor, José Carbajal, threatened and beat up part of the delegation that had joined the speaker. Local police and military officers had to intervene.⁷¹

This stems from Carrasco's research into GM technologies. In April 2009, Carrasco, a professor and researcher at the University of Buenos Aires, became internationally renowned when he publicised research exposing the fact that glyphosate, the main element of Monsanto's Roundup® herbicide, is linked to the malformation of amphibian embryos and could have severe negative impacts on human health.⁷²

Glyphosate has been qualified as innocuous by agribusiness researchers and managers. However, in August 2010, the studies conducted by Carrasco and his team were published in the scientific journal *Chemical Research in Toxicology*,⁷³ triggering a debate on this widely used herbicide's impact on health and ecosystems. Dr Carrasco has been subjected to a campaign to discredit him.⁷⁴

In September 2010, Professor Carrasco and other international scientists published further research—based on studies from across the Americas—that links glyphosate to premature births, miscarriages, cancer, and damage to DNA and reproductive organs.⁷⁵

In addition to promoting GMOs domestically, the US government tries to put pressure on the EU to accept GMOs, including through the threat of retaliatory measures—a trend exposed by WikiLeaks.

GM IN THE UNITED STATES AND CANADA

The United States, which produces 64 per cent of GM crops globally,⁹⁴ is facing unprecedented legal opposition to them, with recent rulings which demand that GM sugar beet seedlings be destroyed and Roundup Ready® alfalfa be banned. In addition to promoting GMOs domestically, the US government tries to put pressure on the EU to accept GMOs, including through the threat of retaliatory measures—a trend exposed by WikiLeaks. The biotech industry is also moving beyond GM crops, aiming to release fast-growing GM salmon and commercialise GM pigs that excrete less phosphorus. These pose risks for human health and the environment in the US and Canada.

GM Foray into the Animal Kingdom: Salmon at Stake

In August 2010, the US Food and Drug Administration (FDA) announced that it is considering the approval of a genetically modified salmon, which would make it the first GM animal in the world to be approved for human consumption.

The corporation AquaBounty Technologies has engineered AquaAdvantage® fish to grow nearly twice as quickly as wild salmon, using genetic material from chinook salmon, ocean pout and Atlantic salmon to create it.

Approval of GM salmon could have serious biodiversity implications, adverse socio-economic impacts on fishing communities and health risks for consumers in the US and around the world. Research shows that gene spread could lead to the collapse of the entire species.⁹⁵ Wild Atlantic salmon is already listed as an endangered species,⁹⁶ partly due to genetic and fitness disabilities caused by inbreeding with escaped farmed salmon.

A recent research poll, commissioned by Food & Water Watch, found that 91 per cent of Americans believe that the FDA should not allow genetically modified fish and meat into the marketplace.¹⁰⁰

Enviropig: GM Pork on the Plate?

Researchers at the University of Guelph, Ontario, Canada, with support from private investor Ontario Pork, the Government of Ontario and the Government of Canada, have developed an "enviropig"¹⁰¹ that is genetically engineered to contain less phosphorus in its faeces.¹⁰² These GM Yorkshire pigs apparently digest plant phosphorus more efficiently than do conventional pigs, which results in phosphorus-depleted manure that causes less pollution to water and aquatic life. This was achieved by inserting genes from mice and *E. coli* bacteria into the pigs' DNA.¹⁰³

In 2007, its creators submitted the "enviropig" to the FDA for regulatory approval for human food consumption and subsequent commercialisation in the United States. Likewise, in 2009, a submission for commercialisation was made to the Canadian regulatory agencies.¹⁰⁴ Neither of these regulators has approved it so far. Worryingly, there are no regulations for GM animals in Canada, and the processes for application and evaluation are kept secret.

Pesticides for Profits

Research from the United States provides evidence to expose the falsehood that GM crops reduce pesticide usage and bring benefits to farmers. During the first 13

years of cultivation of GM crops, there has been an increase of 173 million kilograms (383 million pounds) of pesticides applied in the US.¹⁰⁷

Increased herbicide use is also evident from the 46 per cent increase in the sales of Monsanto's glyphosate-based herbicide Roundup in 2007 and 2008; Roundup is marketed to be used along with its Roundup Ready (RR) crops.¹⁰⁸ Herbicide sprays are the norm with GM crops, and over 90 per cent of GM soy crops in the US are herbicide tolerant.¹⁰⁹

Farmers across the US are reeling under the impact of the "superweeds" epidemic, which has been caused by the continual use of glyphosate in tandem with glyphosate-tolerant crops, which has caused the weeds to develop resistance to the herbicide. A weed science expert, who addressed the US House Oversight committee in July 2010, has asserted that superweeds infest over 4.5 million hectares—a five-fold increase in three years.¹¹⁰ Congressional Oversight hearings on the growth of superweeds provide damning testimony from farmers and scientific experts on the adverse effects of

GM technology.¹¹¹ Farmers are being locked into a vicious circle of dependency on pesticides that can cause birth and reproductive defects, water and soil contamination.¹¹²

As a result, even newer GM crops are set to be approved, which resist other dangerous herbicides that cause cancer and other serious illnesses and were set to be phased out.¹¹³ Dow's soybean (DAS684164) contains genes tolerant for 2,4-

D, part of Agent Orange, which was used as a defoliant in the Vietnam War and is strongly linked to increased incidence of non-Hodgkin's lymphoma.¹¹⁴

Research from the US provides evidence to expose the falsehood that GM crops reduce pesticide usage and bring benefits to farmers.

WikiLeaks Exposes US Arm-twisting on GMOs

Although only a fraction of the 250,000-plus US diplomatic cables that WikiLeaks holds has so far been released, evidence is already emerging about the US government striking alliances with or aggressively applying pressure to countries it wants to adopt GMO technologies, to promote the expansion of the technology and the spread of GM products around the world.

In April 2009, Spanish Secretary of State and Deputy Minister Josep Puxeu contacted the US *Chargé d'Affaires* to express his concern about the fact that Spain is under increasing pressure to ban MON810 cultivation in the wake of the German ban on GM maize, and about an EU vote urging the maintenance of existing bans in Austria and Hungary. Due to fears of Spain's increasing isolation over its pro-GM policies, the US was urged to step up pressure on Brussels, in collaboration with

Spain, to keep agricultural biotechnology an option for EU member states.

In May 2009, during a meeting with Monsanto's Director for Biotechnology in Spain and Portugal, Spanish Embassy officials were told that "Spain is increasingly becoming a target of anti-biotechnology forces within Europe" and that "Spain's cultivation of MON810 corn was under serious threat". The sentiment echoed by agricultural biotech supporters on a ban on MON810 cultivation is that "[i]f Spain falls, the rest of Europe will follow".¹¹⁵

The cable highlights that the bans against Monsanto GM maize in Germany, France, Austria, Hungary, Greece and Luxembourg, despite EU approval of MON810, are due to anti-biotechnology sentiment in the EU, where there is increasing momentum and strong political support to stop GM cultivation.

A recently released cable, sent from the US Embassy in Paris in December 2007, outlined concerns over GMOs: "...Europe is moving backwards

not forwards on this issue with France playing a leading role, along with Austria, Italy and even the Commission." The US response is to propose "retaliation" in collaboration with "the pro-biotech side in France". France is seen as a key player in "renewed European consideration of the acceptance of agricultural biotechnology". France is deemed a lynchpin for changing EU policy on GMOs:

"Our contacts have made clear that they will seek to expand French national policy to a EU-wide level and they believe that they are in the vanguard of European public opinion in turning back GMOs."¹¹⁷

In a separate Paris cable, such a change of heart is deemed challenging as GMOs are "a subject of considerable domestic concern in France" and the intentions of France to implement a moratorium on biotech planting in 2007 "would significantly undermine US agricultural exports to Europe".¹¹⁸

A cable from November 2007 reveals that gathering information on "[g]overnment acceptance of genetically modified food and propagation of genetically modified crops"¹¹⁹ is among the top priorities for intelligence officials in Burundi, the Congo and Rwanda.

Legal Rulings on GM Alfalfa and Sugar Beet Seed

On 21 June 2010, in the case of *Monsanto v. Geerston Seed Farms*,¹²⁰ the United States Supreme Court ruled in favour of a ban on Roundup Ready Alfalfa (RRA). This was the first-ever case on

genetically modified crops brought before the Supreme Court, and the ruling means that the selling and planting of RRA is illegal in the US.¹²¹

The Court recognised that the threat of transgenic contamination is harmful to organic and conventional farmers and that any injury would allow them to challenge future biotech crop commercialisations in court.¹²²

The legal disputes have been taking place since 2006, when the Center for Food Safety filed a lawsuit against US Department of Agriculture (USDA) which was planning to commercialise alfalfa seed designed to tolerate Monsanto's herbicide Roundup, despite concerns over environmental, health, cultural and economic impacts on farmers and consumers. GM alfalfa can spread uncontrollably through the cross-pollination of plants by bees, contaminating non-GM alfalfa fields.¹²³

On 30 November 2010, the District Court for the northern district of California demanded the first-ever destruction of a GMO crop when hundreds of acres of

GM sugar beet seedlings, planted in September 2010, were ordered to be removed.¹²⁴

Their planting violated federal law. The District Court ruled that "farmers and consumers would likely suffer harm from cross-contamination", and stated that past contamination incidents were "too numerous" to allow the crop to remain in the ground.¹²⁵ Yet, the USDA is proposing to commercialise

GM sugar beet despite this ruling.¹²⁷

The District Court ruled that "farmers and consumers would likely suffer harm from cross-contamination"...

Bayer Losing Cases over GM Rice Contamination

The year 2010 was a bad one for the US biotech industry, which was hauled through the US legal system. In October 2010, the German corporation Bayer was taken to court by three Texas rice growers and forced to settle over the contamination of their rice crops by Bayer's Liberty Link® rice.¹²⁸ This is the seventh trial that Bayer has lost in succession, spanning five US states and all related to claims concerning contamination leading to export restrictions and economic losses.¹²⁹

In August 2006, the USDA announced that Bayer's genetically modified seed had been found in commercially grown long-grain rice in Louisiana, Mississippi, Texas, Arkansas and Missouri.¹³⁰ Five days later, the European Union banned US imports to its 27 member countries; this was followed by Japan and Russia. This sudden loss of a key export market had devastating socio-economic impacts for US rice farmers whose crops were contaminated.

GM CROPS IN AFRICA

Africa has seen a major increase in food production in recent decades, but 265 million sub-Saharan Africans still go hungry.¹³¹ This food crisis is being used to justify opening up Africa as the new test-bed for GMOs: GM technology proponents argue that the technology can combat hunger, poverty and climate change. Yet, many Africans continue to eschew expensive, dangerous GM crop cultivation that can increase indebtedness and does nothing to withstand erratic weather conditions, as Friends of the Earth International has documented.¹³²

This reluctance is being met by corporate-backed pro-GM initiatives promoted by the Gates Foundation and the Alliance for a Green Revolution in Africa (AGRA). These initiatives pose grave threats to traditional, sustainable farming practices that could feed the continent and significantly reduce levels of poverty.

Gates Foundation Buys into Monsanto

The Bill & Melinda Gates Foundation, founded in 1994, exerts a major influence on global agricultural policy. It manages total grants of US\$24 billion, which finance the Foundation's projects.¹³³ The Gates Foundation claims to promote "new techniques to help farmers in developing countries grow more food and earn more money", while openly supporting genetic engineering projects in Africa and other developing countries.¹³⁴ Nearly 80 per cent of Gates Foundation funding in Kenya involves biotechnology, and there have been grants of over \$100 million to organisations connected to Monsanto.¹³⁵

The revolving door between the Foundation and Monsanto was flung wide open when the Foundation bought US\$23 million worth of Monsanto shares in August 2010.¹³⁶ Farmers, social movements and civil society organisations reacted with outrage. La Via Campesina,¹³⁷ the global peasant movement, has condemned this acquisition of Monsanto shares.

AGRA's Unwelcome Green Revolution

Along with the Rockefeller Foundation, the Gates Foundation is supporting the implementation of the controversial Alliance for a Green Revolution in Africa to the tune of US\$265 million.¹³⁹ AGRA consists of a

team of scientists, economists and business leaders, including from the biotech industry, and Kofi Annan is the Chair of its Board. AGRA is prising open the African continent to GM seeds and pesticides sold by corporations such as Monsanto, DuPont and Syngenta. In contrast to the approach by the Gates Foundation and AGRA, a major study by UNCTAD and UNEP that examined organic agricultural practices throughout Africa concluded that these could reduce poverty and increase yields and incomes while protecting the environment.¹⁴⁰

African farmers and environmentalists have challenged the Gates Foundation and AGRA's initiatives that disregard the structural causes of hunger and poverty and instead promote policies that undermine traditional knowledge and farming systems.¹⁴¹

African farmers and environmentalists have challenged the Gates Foundation and AGRA's initiatives that disregard the structural causes of hunger and poverty...

GM IN ASIA

Bt Brinjal Battle: Moratorium Triumph in India

Brinjal (also known as aubergine or eggplant) is the second-most-consumed vegetable crop in India, providing livelihoods for small-scale farmers and food and nutrition to impoverished rural and urban communities.

Mahyco, a partner company of Monsanto in India,¹⁵⁴ developed an insect-resistant version, *Bt* brinjal (the gene having been developed by Monsanto), which was approved by the lead regulatory body on GMOs in India, the Genetic Engineering Approval Committee (GEAC),¹⁵⁵ in October 2009.¹⁵⁶

On 9 February 2010, after a month-long public consultation with various segments of society including scientists concerned about *Bt* brinjal's impact on human health, the environment and traditional Indian varieties of eggplant, this approval was overturned by the Minister for Environment and Forests, Jairam Ramesh. An indefinite moratorium was implemented. He said that the moratorium will last until such time as independent studies establish the long-term safety of *Bt* brinjal from human health and environmental standpoints, and that the approach is "responsible to science and responsive to society".^{157, 158} On the other hand, the industry and many GM scientists are trying very hard to get *Bt* brinjal released commercially.

A report about GMOs commissioned by the Minister from leading science academies in the country

recommended the limited release of Bt brinjal.¹⁵⁹ This was reported and lauded by ISAAA.¹⁶⁰ However, it was revealed that almost the entire section on Bt brinjal in the report was copied verbatim from a GM crop promoter's article.¹⁶¹

New analysis outlining the risks of Bt brinjal has been submitted to the Supreme Court as part of the ongoing public interest litigation on GM crops in India.¹⁶²

This scientific study highlights the risks of contamination of native crops and biodiversity, and the risks of potentially increasing the prevalence of pests. Bt brinjal could also have major negative socio-economic impacts on small-scale, resource-poor brinjal farmers, as they would be forced into unfair competition with large-scale commercial brinjal producers.¹⁶³

Seed corporations like Monsanto and Bayer are also carrying out field trials on herbicide-tolerant cotton and maize, despite the superweeds crisis that has unravelled in the USA.¹⁶⁵

Farmers Destroy DuPont GM Rice Trial Crop

India has the world's largest area under rice cultivation and grows around 4,000 different varieties.¹⁶⁶ On 12 May 2010, the GMO regulatory body GEAC granted permission for event selection on transgenic hybrid rice to prepare for commercial hybrid seed production by the US chemical corporation DuPont.¹⁶⁷

GM rice trials were being carried out by DuPont in Doddaballapur, in Karnataka, in collaboration with the University of Agricultural Sciences, Bangalore.

In November 2010, peasant farmers belonging to Karnataka Rajya Raitha Sangha (KRRS), a leading farmers' organisation and a member of La Via Campesina, took action and destroyed most of the one-acre field-trial crop. The Vice President of KRRS said that the farmers will oppose open-air field trials of GM crops as it is a first step to surrendering Indian agriculture to American multinational seed corporations. He added that GM rice is a threat not only to farmers but also to the health and environment of all Indian citizens.¹⁶⁸

GM Mosquito Experiments in Malaysia

Some 6,000 transgenic mosquitoes, developed to help fight dengue fever, were released in Malaysia on 21 December 2010.¹⁷¹ The Malaysian National Biosafety Board (NBB) approved the release of genetically modified *Aedes aegypti* mosquitoes on 5

October 2010. The GM technology used for the mosquitoes is owned and patented by Oxitec, an Oxford-based company which is a spin-off from the University of Oxford.¹⁷⁴ Oxitec has genetically modified these male mosquitoes so that once the males have mated with the wild female population, their progeny die in the larval stage, reducing the dengue-carrying *Aedes aegypti* population and thereby the prevalence of this mosquito-borne disease. This company is facing major financial difficulties,¹⁷⁵ but the GM mosquito program, if approved, could involve the repeated release of GM mosquitoes into the environment and provide an ongoing revenue stream for the company.

As the Malaysian land mass is not an isolated area and is connected to other countries (and mosquitoes do not recognise national borders), national and international laws could be broken by the import and release of GM mosquitoes, as such a trans-boundary movement of GMOs is governed by the Cartagena Protocol on Biosafety.¹⁷⁶

In laboratory tests, it has been revealed that about 34 per cent of the offspring from the male GM mosquitoes and wild females survived, despite being programmed to die. This persistence of transgenes in the environment means that there could be unknown, possibly hazardous, consequences.

Furthermore, the plan to release GM male mosquitoes, which do not spread disease, is

based purely on separating the smaller male mosquitoes from the female larvae, which is open to both human and mechanical error.¹⁷⁷

Even if this experiment leads to a reduction in *Aedes aegypti* mosquitoes, it is feared that consequently there could be a proliferation of *Aedes albopictus* mosquitoes, which also transmit dengue and Chikungunya (another disease similar to dengue fever). There are significant ethical concerns about submitting Malaysians and their environment to such a risky experiment.

Oxitec was also behind the controversial GM mosquito trials in the Cayman Islands, which took place without public disclosure during 2009 and 2010, leading to UK and European Parliamentary scrutiny.¹⁷⁹

Editor's Note

This article is an edited extract from the February 2011 report (issue 121), "Who Benefits from GM Crops: An Industry Built on Myths", published by the International Secretariat of Friends of the Earth International. Due to space constraints, we are unable to publish the complete report including endnotes. To see the original document, go to <http://tinyurl.com/4ndgz5t>.

This persistence of transgenes in the environment means that there could be unknown, possibly hazardous, consequences.

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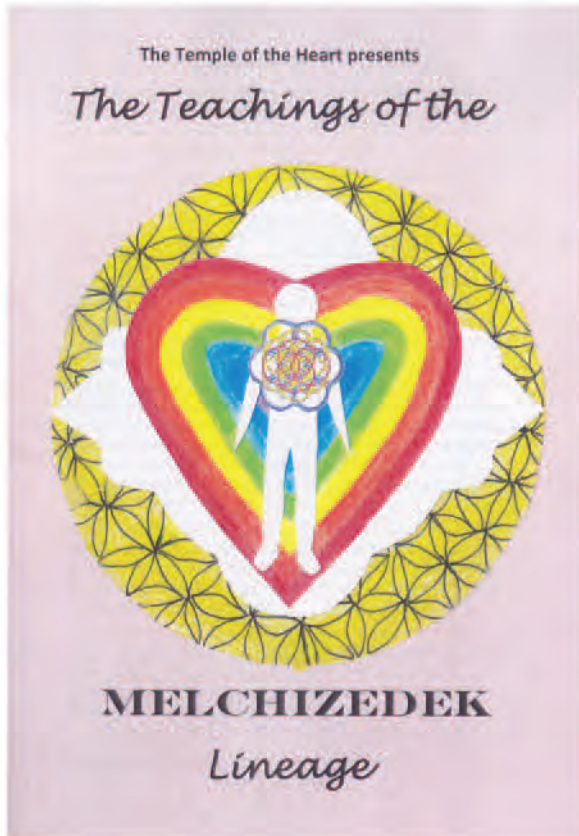
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FOOLING OURSELVES ON THE VALUE OF VACCINES

Analysis of statistical data confirms that the death rates for major illnesses such as measles, diphtheria and whooping cough were in significant decline long before vaccines aimed at preventing these diseases were even introduced.

by Greg Beattie © 2011

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Edited extract from chapter one
("The Belief") of his e-book
*Fooling Ourselves on the
Fundamental Value of Vaccines*

There is a belief which lies at the heart of vaccination, one which predicates all discussion, investigation and appraisal of it. The importance of this belief is not generally appreciated; but not only is it the foundation of vaccination, it also serves as one of the cornerstones of the temple of modern medicine. If it moves, the walls of the temple shake and devotees rush to stay the structure. While the stone stays firm, we continue forging opinion, formulating hypotheses, conducting "research and review" and even building policy upon it.

So what is this belief, and why is it so powerful? More importantly, how does it shape our community?

Beliefs About Our Past

It was October 1996. Charley (on the cover of my earlier book *Vaccination – A Parent's Dilemma*) would be born in five weeks. My hearing in the Human Rights Commission concerning my unvaccinated children being banned from child care by the local council had concluded a little under three months earlier and I was eagerly awaiting the decision. It would take a further three months to arrive. A friend called excitedly to tell me that Norman Swan's "The Health Report" (Radio National ABC) was broadcasting a special show on vaccination that night and was promising to air both sides of the debate. "Who's Norman Swan?" I asked. The caller gasped disbelief at my ignorance before assuring me, "This guy will do a good job". I jotted down the particulars and went about finding a radio.

For those who share my past radio ignorance, Dr Norman Swan is a highly regarded paediatrician. He is also a multi-award-winning broadcaster, having received the Australian Radio Producer of the Year award in 1984, among many other accolades and recognitions.

I caught the show. It opened dramatically. Church music played while the presenter, Sharon Carleton, wandered through a graveyard reading from headstones...²

"To the memory of Alice Ellen Olivia, who died November 10th, 1874, aged 1 year and 16 days. Also Frederic Charles, died November 14th, 1877, aged 2 years and 9 months. The beloved children of... Walter Charles, died 19th October 1883, aged 7 months. Frances Martha Roper, died May 12th, 1860, aged 17 months. Also John Joseph Roper, died 1862, aged 9 months..."

"A stroll through any Australian cemetery provides a silent reminder of how often families in the past mourned their very young. What these weathered old headstones don't tell us, of course, is what caused the children's deaths: scarlet fever, measles perhaps, diphtheria, whooping cough. A century ago they were all common, often fatal, childhood diseases."

Then cuts in the voice of authority: "What changed...was that we introduced immunisation. Immunisation has prevented more suffering and saved more lives than any other medical intervention in this century, even antibiotics."

Therein lies the focus of this chapter. There was a time in our history when the threat of death from acute illness was enormous. And it was ever present.

Loss of children and other family members to the likes of measles or whooping cough was the norm rather than the exception. It was a long time ago. The examples above were well over 100 years ago. Thankfully, we were delivered from that. Death rates fell and the illnesses ceased to be the threat they once were. This change is generally attributed to several influences, but first and foremost is the advent of immunisation (also called vaccination), as we heard above.

Immunisation has been written into the history books, alongside clean water, as being our greatest weapon in the fight against the acute killer diseases of our past.

As a natural corollary to this, we realise that in order to prevent a return to those days, we must keep vaccinating our children. If we fail to do this, the image of those frightening days serves as a reminder of what will happen.

The belief that vaccination arrived and transformed our world from one where death from acute illness was common, to another where it is rare, is seldom discussed. It is a belief that lies at the heart of all thought on vaccines. It is also possibly one of the most universally accepted medical beliefs of our time.

The voice of authority in the radio broadcast above was that of Dr Margaret Burgess, one of our nation's most respected spokespersons on vaccination. A professor of paediatrics with a long list of credentials, awards, memberships, published papers, etc. in the field of vaccines, she was to receive a Queen Elizabeth II

Silver Jubilee Medal one year after this broadcast. Six years after that, she received the Order of Australia. In a nutshell, she was eminently qualified to make all sorts of pronouncements regarding vaccines. However, one doesn't need qualifications to make statements such as "What changed...was that we introduced immunisation".

Why? Because that statement is probably the most well-accepted and cherished aspect of our collective belief in immunisation. Ask virtually anyone why deaths from measles or whooping cough plummeted and you will hear "vaccination" or "immunisation".

If you had asked me 25 years ago, I would have chimed in the chorus. I was raised on the same belief.

But there is a problem. The belief is not correct. This can be very easily demonstrated. In fact, in this chapter, I will show you clear and compelling evidence that the belief is completely without foundation.

It is a belief that lies at the heart of all thought on vaccines. It is also possibly one of the most universally accepted medical beliefs of our time.

Statistical Evidence

Fourteen years ago, when *Vaccination – A Parent's Dilemma*

was written, I realised that this false belief underpinned almost all thought on vaccination. I knew it had a significant impact on our collective evaluation of the practice. Since then, I have come to an even greater understanding of its role in the debate and decided to dedicate a whole chapter to it.

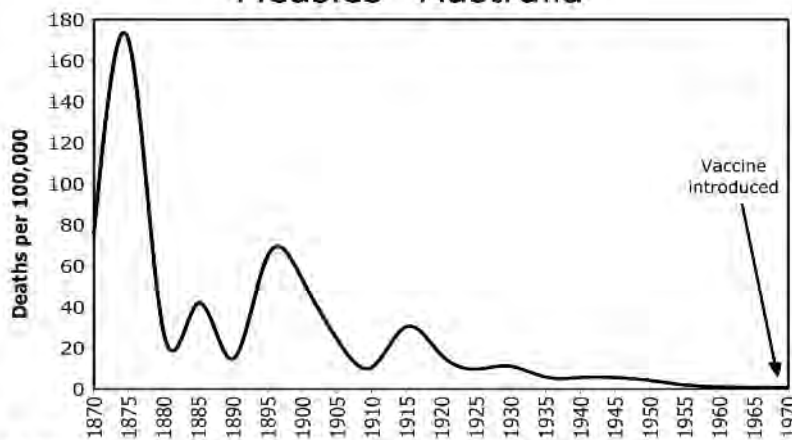
Let's have a look at the evidence now. We can plot the death rate for each illness on a graph and point an arrow to the spot where the vaccine was introduced. Figures for deaths in Australia going back as far as 1907 can be found in the Commonwealth year books. Population figures are available from the Australian Bureau of Statistics. For the following graphs, I

obtained figures going back well before 1907 from the Commonwealth Department of Health for some illnesses.³ The rates on the graphs represent deaths per 100,000 population. The figures are five-yearly totals. The introduction of the vaccine is indicated on each graph.

• Measles

The measles graph shows us that the five-yearly death rate, 100 years before the vaccine was introduced, was around the 170 mark. For the five years immediately prior to introducing the vaccine, it was *less than one*. That's a reduction of 99.5 per cent—*before* the vaccine arrived. The remainder of less than 1.0 per

Measles—Australia



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Sources: Data published by Commonwealth of Australia in *The History of Diphtheria, Scarlet Fever, Measles, and Whooping Cough in Australia, 1788-1925* (Cumpston, 1927) and Commonwealth Year Books, plus Australian Bureau of Statistics population data.

cent is the only portion of the decline which the vaccine could lay claim to because it simply wasn't around for the first 99.5 per cent of it. How much claim can it lay to this last little bit? We will see in chapter three [see Greg Beattie's e-book; Ed.].

Measles vaccine was introduced in 1968 and added to the childhood schedule in 1971.⁴ Most of the other vaccines went through a period of gradual introduction.

• Diphtheria

Diphtheria vaccine, although introduced in the late 1920s, did not come into widespread use until the late 1930s at the earliest, and some say it was not until 1953 when the DTP vaccine was licensed. The reason for this was an event in January 1928, which came to be known as the "Bundaberg tragedy",⁵ from which the country was slow to recover. In the 60 years prior to using the vaccine, the death rate declined by over 80 per cent.

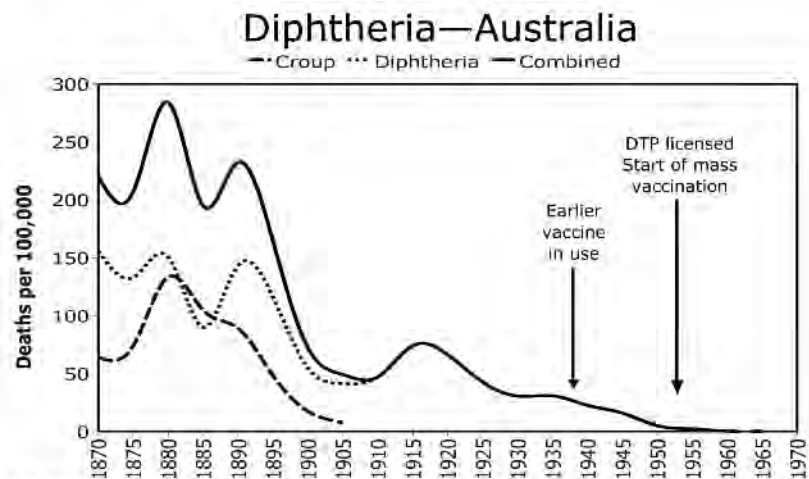
You will notice two extra lines in the diphtheria graph. One is for croup and the other for the combined total of croup and diphtheria. There is a point in the early 1900s where only the combined line remains. The reason for these lines is that diphtheria and croup were not always differentiated. Diphtheria was sometimes referred to as membranous croup.⁶ According to *Rudolph's Fundamentals of Pediatrics*: "Early in the 1900s, the term croup was synonymous with laryngeal diphtheria."⁷ Prior to the early 1900s, figures for diphtheria and croup were recorded separately. After this, they were lumped together.

• Whooping Cough

Next, to whooping cough. This was another vaccine introduced gradually from the 1940s. Its routine use in infants came with the licensure in 1953 of DTP vaccine (the diphtheria-tetanus-pertussis vaccine; pertussis is the medical name for whooping cough). As can be seen from the graph, there was roughly a 95 per cent reduction in mortality from the 1870s to 1953 prior to the DTP vaccine being licensed, and close to 90 per cent before earlier vaccines were used during the 1940s.

• Other Illnesses

I have decided to present graphs



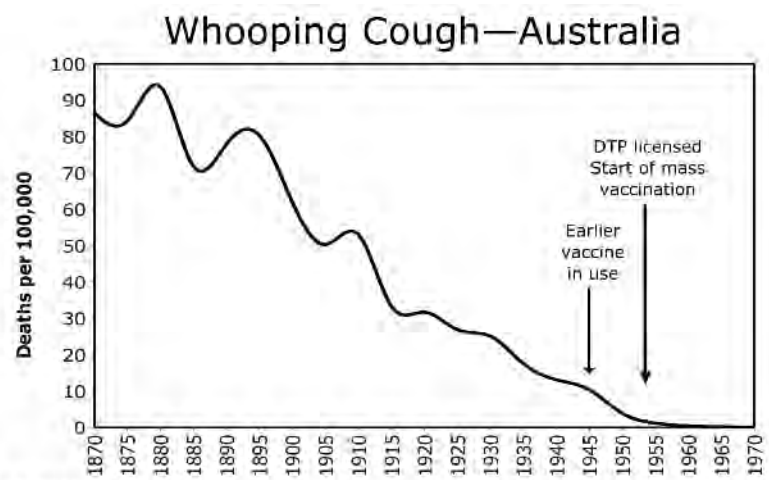
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with death rates of two illnesses, one "vaccine preventable" and one not, side by side for comparison. Measles is compared with scarlet fever. Both had similar death rates in the 1800s. Never a vaccine-preventable illness, scarlet fever had a death rate that declined just as efficiently as that of measles and did not return to previous levels. Similarly, I have selected typhoid fever to be compared with whooping cough, a vaccine-preventable illness.

The comparison seems ludicrous. After all, none of the illnesses had a vaccine until right at the very end. But just in case we thought measles or whooping cough may have made a last-minute dash and sprung back up to the levels of 100 years ago had we not invented a vaccine, the other two are there to remind us that that was unlikely. Typhoid fever and scarlet fever were once as great a problem as the other two; in fact, greater. They declined and became relatively insignificant just the same, and without a vaccine.

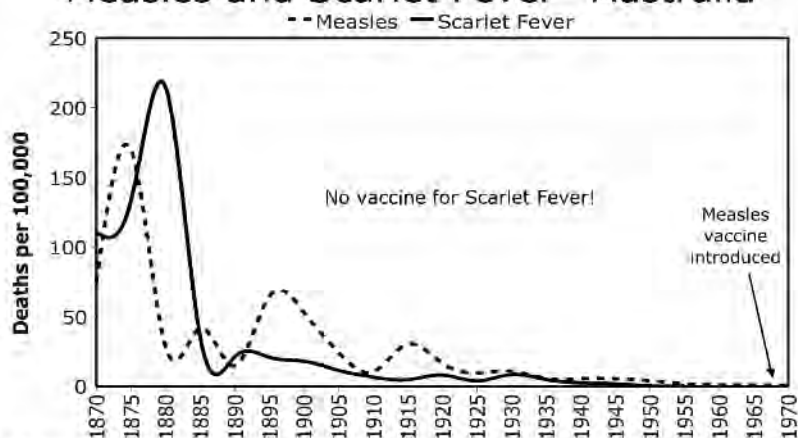
Data for typhoid fever deaths from 1910 onward shows



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Sources: Data published by Commonwealth of Australia in *The History of Diphtheria, Scarlet Fever, Measles, and Whooping Cough in Australia, 1788–1925* (Cumpston, 1927) and Commonwealth Year Books, plus Australian Bureau of Statistics population data.

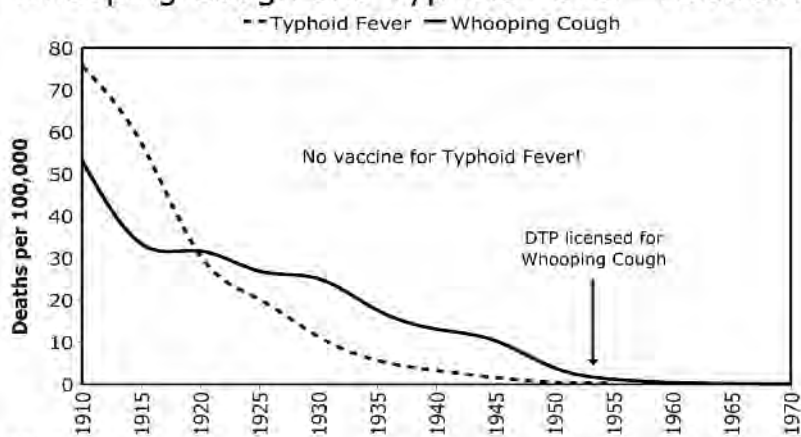
Measles and Scarlet Fever—Australia



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Sources: Data published by Commonwealth of Australia in *The History of Diphtheria, Scarlet Fever, Measles, and Whooping Cough in Australia, 1788-1925* (Cumpston, 1927) and Commonwealth Year Books, plus Australian Bureau of Statistics population data.

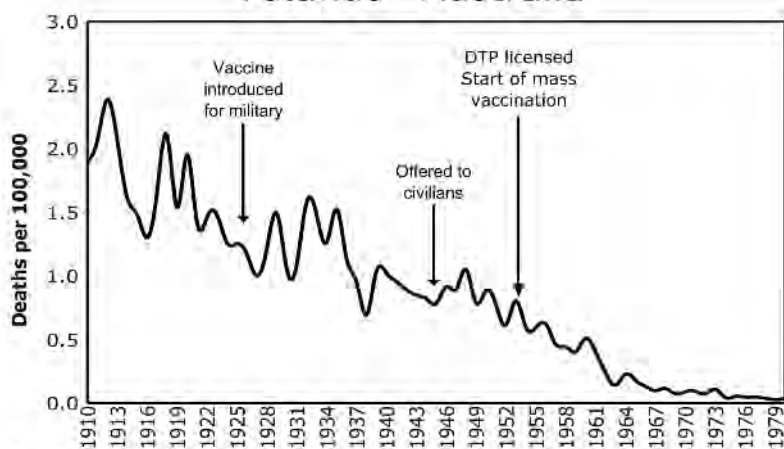
Whooping Cough and Typhoid Fever—Australia



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Sources: Data published by Commonwealth of Australia in *The History of Diphtheria, Scarlet Fever, Measles, and Whooping Cough in Australia, 1788-1925* (Cumpston, 1927) and Commonwealth Year Books, plus Australian Bureau of Statistics population data.

Tetanus—Australia



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Source: Australian Institute of Health and Welfare (AIHW) 2010. GRIM (General Record of Incidence of Mortality) Books; Original author Dr Paul Jelfs, updated by Karen Bishop

similar rates to whooping cough, as can be seen in the whooping cough and typhoid fever graph. At the close of the century, there were 50–70 cases of (not deaths from) typhoid fever each year in Australia.⁸

One last graph shows data for tetanus. This one didn't make it into *Vaccination – A Parent's Dilemma*. Tetanus is not contagious and it is almost unheard of in children. The graph below is plotted from data kindly supplied by the Australian Institute of Health and Welfare.⁹ Please note that the graph covers all ages and, like the typhoid fever graph above, starts only in 1910 whereas the previous graphs commenced 40 years earlier.

As we can see, there was no observable effect on the trend in deaths from the introductions of vaccines. There was simply a steady decline.

Facing the Truth

Before I continue, I would like to say a few words about reactions to these graphs. I presented similar graphs (minus tetanus) at my Human Rights Commission hearing. They were received with disinterest; in fact, dismissed as irrelevant and totally disregarded by the expert witnesses from the medical establishment and thus the Commissioner. When I subsequently published them in *Vaccination – A Parent's Dilemma*, they were received with great interest by readers and were quickly spread around the world. If you search the Internet today, you will find numerous sites where the original graphs have been reproduced along with many for other countries. Why the vast disparity between the reactions?

I can group the public reaction into two distinct types. The first, which has also been the most common, is shock or disbelief. These reactions are from those who find it difficult to believe what they are seeing. It is the same feeling I had when I first saw evidence of this—the experience of having a cherished belief pulled apart in front of your eyes. It is common for people with this

reaction to question the figures and the graphing technique. "Where did you say these figures are from? Why have I not seen graphs like this before? Did you double-check the figures?" In my opinion, this is a perfectly normal reaction. We have a deep faith in medicine, and especially vaccination.

The second one is the "that doesn't prove a thing" reaction. This is a reaction of rejection. It is less common and generally comes from people who are actively involved in marketing and promoting the use of vaccines. When asked to explain what they mean by the reaction, these people tend to argue one thing: that this data cannot be used to assess vaccine performance. And they are correct. These graphs do not make any attempt whatsoever to measure the performance of a vaccine. They simply put things into historical perspective. That perspective shows us that *vaccines were unimportant influences in the bigger picture*, that they arrived too late to be considered potential contributors in any significant way.

So, in historical perspective, vaccination made little or no contribution to the decline in deaths from each illness.

Real Reason for the Decline

Whatever caused deaths to decline before vaccines were introduced, it continued quite uniformly *after* they were introduced. Professor Thomas McKeown in *The Role of Medicine* (Basil Blackwell, Oxford, 1979, p. 162) says:

"Experience of the last two centuries indicates that infectious deaths fell to a small fraction of their earlier level without medical intervention, and suggests that had none been available they would have continued to decline, if not so rapidly in some diseases."

The reasons most medical historians give for the decline in deaths from these diseases are improvements in nutrition, hygiene and sanitation, nutrition being foremost. A very influential report by Dr Moises Behar, published in *World Health*, explains as follows:¹³

"In the now developed countries, mortality due to tuberculosis, measles, whooping cough, typhoid fever, diarrhoeal diseases and many other infections began to fall long before the responsible microbial agents had been identified and before specific measures of control or treatment were known. This decline—much greater than anything achieved since through the use of vaccination and antimicrobial drugs—paralleled the improvement in general living conditions. Microbes and the diseases caused by them prosper, therefore, only in environmental conditions favourable to them."

Regarding nutrition, Dr Behar went on to say:

"A debilitated organism is far less resistant to attack

by invading micro-organisms. Ordinary measles or diarrhoea—harmless and short-lived diseases among well-fed children—are usually serious and often fatal to the chronically malnourished. Before vaccines existed, practically every child in all countries caught measles, but 300 times more deaths occurred in the poorer countries than in the richer ones. The reason was not that the virus was more virulent, nor that there were fewer medical services; but that in poorly nourished communities the microbes attack a host which, because of chronic malnutrition, is less able to resist."

The report concluded:

"For the time being, an adequate diet is the most effective 'vaccine' against most of the diarrhoeal, respiratory and other common infections."

Conclusions

The death rates from diseases for which we developed

The death rates from diseases for which we developed vaccines fell substantially and consistently since the mid-1800s.

vaccines fell substantially and consistently from the mid-1800s. Most of this decline occurred well before vaccination was introduced. *Routine vaccination was not even available for some of the diseases until they had almost disappeared.* Each death rate was declining substantially prior to vaccination and, as we have no reason to suspect that trend would have changed, we have no reason to credit the small

remainder of the decline to vaccination, especially when we can see that other diseases continued their decline without vaccines being available for them.

The story is the same for the rest of the developed world. If you follow this footnote,¹⁰ you will be able to peruse numerous historical graphs from England, the USA and Europe which confirm this.

Where Do We Go From Here?

This book is not critical of health professionals but of the system of thought underlying our collective belief in vaccines. The research world has indeed witnessed many significant contributions from committed individuals who find ways to help lift humanity from suffering. However, there have also been many displays (not so prominently paraded) of the insignificance of medicine in some fields of endeavour. But these are generally not acknowledged to the level where the public is aware of them. *Nowhere is this lack of integrity more blatant than in our recollection of the role of vaccines in the historical decline of deaths.*

It is time we changed that. It is time we stopped regurgitating claims that vaccines saved us from the

Continued on page 80

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THE HOLE IN THE HEART AND THE BLOOD-BRAIN BARRIER

The blood-brain barrier becomes permeable as a result of stress, toxins, heat, EMF, nutritional deficiencies and heart defects, causing many illnesses.

The Nature of the BBB and its Relationship to Chronic Illness

Recent discoveries about the permeability of the once-thought-impenetrable blood-brain barrier (BBB) may be involved in many brain and systemic diseases. These include stroke, migraine, Alzheimer's disease, multiple sclerosis, inflammatory diseases, allergic disorders, Lyme disease, traumatic brain injury, hypertension, obesity and mental illnesses. Stress, heat, histamine, toxins, allergies, nutritional deficiencies, microwaves and a heart defect—which every third person unknowingly has—can cause permeability of this crucial barrier to our brains. Stroke is the second leading cause of death in Australia,¹ and this hidden heart defect is now known to be a leading cause of stroke.

We've known about this barrier to perhaps our most precious entity—our brains—since 1885 when Paul Ehrlich, MD, discovered it.² He found that upon injection of blue dyes into living animals, most organs were stained—but not the brain. Subsequent experiments demonstrated that dyes injected into the brain did not stain any of the peripheral organs. Ehrlich and others would postulate that some type of barrier protects the brain from rapid or large influx of factors circulating in the blood. These include bacteria, viruses, toxins, inflammatory substances, inflammatory cells, growth factors, neurotransmitters, amino acids and other substances that might otherwise have drastic effects on the brain. But it wasn't until 1967 that electron microscopy proved the existence of the BBB.

The BBB is now known to consist of a continuous layer of endothelial cells that are joined by tight junctions with very high electrical resistance. These endothelial cells line the over 400 miles (644 kilometres) of cerebral capillaries in the brain. Their tight junctions impede influx of ions and molecules across the plasma membranes of the endothelial cells. Besides the physical barrier, a complex set of biochemical factors is also part of the BBB. Small fat-soluble (lipophilic) transport molecules can ordinarily cross the BBB. They transport glucose, choline and some amino acids. Nature intended for only a few things in the blood to get into the brain, as brain cells can so easily—and perhaps disastrously—be affected by many things circulating in the blood.

Until recently, the blood-brain barrier was thought to be nearly unalterable. Much research has now disproved this. Stroke, traumatic brain injury, heat stress, ischaemia, inflammation, drugs, toxins, certain diseases, hormonal changes, nutritional deficiencies, electromagnetic fields (EMF), microwaves, ultrasound, heart defects and even emotional stress have been proven to cause changes in the BBB. These changes lead to increased permeability of the BBB. This in turn is suspected of being a crucial element in—and perhaps even the initiator of—certain diseases. Recently it has been found that the BBB is not completely formed until the middle of the first year of life.

by Steven Rochlitz, PhD ©
November 2010 – February 2011

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Stress and Other Factors Alter the Blood-Brain Barrier

Let's examine the recently proven alterability of the blood-brain barrier. In 1996, research was done involving Gulf War soldiers and also mice.

One study³ found that 213 Gulf War soldiers had suffered significant central nervous system (CNS) symptoms—headache, drowsiness, nervousness, attention deficit and calculation deficit—after ingestion of the drug pyridostigmine. It was administered supposedly to block the effects of possible nerve gas exposure. (Some have alleged that the belief that pyridostigmine could offer some protection against neurotoxins was not totally based on fact...) This drug was not supposed to elicit adverse CNS reactions because it wasn't supposed to cross the BBB appreciably. Researchers hypothesised that the stress of war led to a weakened BBB, which led to a greater entrance of the drug into the brain.

Others then experimented on mice that underwent the "forced-swim" stress protocol.⁴ In the stressed mice, it was found that only 1/100th the dose of (peripherally administered) pyridostigmine was needed to inhibit a brain enzyme by 50 per cent, as compared to control mice. This demonstrated that a very significant amount of the drug crossed the BBB in the stressed mice. So the emotional stress of war led to a breakdown of the BBB in soldiers, and the stress of forced swimming led to the breakdown of the BBB in mice.

Another possible exacerbating factor with the Gulf War soldiers was heat stress in that part of the world. Earlier animal studies found that immobilisation, cold, isolation and chronic or acute heat stress all resulted in increased permeability of the BBB to drugs, neurotransmitters and viruses. It was a shock in the medical field that the BBB was so alterable.

Let's examine **heat stress**. In 1992, it was demonstrated that heat stress in rats is mediated by histamine⁵ and results in "a profound increase in blood-brain barrier permeability...along with a significant reduction in cerebral blood flow" and increased brain oedema. Pretreatment with cimetidine, an H₂-receptor antagonist (a type of antihistamine and an ulcer drug), "significantly thwarted the increases...in the blood-brain barrier permeability". The researchers postulate that "histamine might be released as a result of noxious thermal stimuli from histaminergic neurons which project profusely to nearly all parts of the brain, cerebral mast cells and/or from peripheral sources". But they also note that histamine is elevated in the brain, cerebrospinal fluid or blood following **traumatic brain injuries** and other disorders. The authors state that "the

possibility that elevation of body temperature and related brain temperature will have a significant effect on increased BBB permeability and edema is quite likely". Further, they state that "histamine actively participates in the response to stress" and that "histamine H₂ receptors are involved in the physiological mechanism of stress response". They note that the reduction in cerebral blood flow (hypoperfusion) appears to be caused by increased oxygen and decreased carbon dioxide (CO₂). The finding of lowered carbon dioxide in histaminic alteration of the BBB indicates that breathing techniques to increase CO₂ levels may act as an antihistamine and may benefit problems caused by BBB permeability. This is perhaps another validation of the Buteyko breathing method to raise the CO₂ level. Another natural antihistamine is water.

So we can conclude that heat—and other stress, such as trauma to the brain—results in cerebral histamine release, which then leads to BBB permeability, cerebral hypo-perfusion and cerebral oedema.

Do allergies play a role in these matters? Do those who suffer from "brain allergies" have greater histamine release into the brain? Or do they have more histamine receptors? And do they thus have leaky blood-brain barriers much of the time due to their brain allergies? This may be analogous to food allergies causing permeability in the gastrointestinal (GI) tract,

as with leaky gut syndrome. This points out the need to ascertain and eliminate foods that might be causing "brain allergies" and subsequent histamine release into the brain.

Some researchers have found that mast cells, along with endothelial cells, must be a component of the physical BBB. Their research indicates that mast cells under certain conditions regulate the BBB permeability.⁶ This means that BBB alteration/permeability can be part of **allergic diseases**. Mast cells are found in the skin, GI tract, lungs, brain and other tissues. Mastocytosis is a disorder whereby mast cells either are present in excess or are malfunctioning and degranulating too readily, releasing histamine. Mast cell disease thus may be involved in the aetiology of those who suffer from many allergies or allergy-like reactions to foods, chemicals and EMF.

Monosodium glutamate (MSG) is known to cause or worsen mast cell disease; thus MSG may adversely affect the BBB. MSG may then get into the brain more readily and cause more harm. Some foods, including meat, fish and dairy, have high histamine levels that may also be involved in these mechanisms.

If there is alteration of the BBB, the brain may have a

Researchers hypothesised that the stress of war led to a weakened BBB, which led to a greater entrance of the drug into the brain.

temperature out of its normal range. Placing a cold gel pack on the head or forehead may help those suffering from mast cell disorder, allergies, migraine, thyroid disorders, neurotransmitter defects, histamine disorders, flushing, pain, depression, anxiety, insomnia, stroke or cardiac problems. Are you a "hothead"? The ancient Greeks, who coined the term, knew about this condition. But if there are chills or other signs of low temperature, place a hot gel pack, or at least a full cap, over your head. It is interesting to note that new guidelines for heart attack victims indicate that the blood should be cooled down immediately. Above, I noted how harmful heat stress is to the BBB. Now, once the brain is not functioning properly, the whole body—including the heart—will suffer further. It's a vicious cycle, and it works both ways. Have cold packs around for those who may suffer heart problems, after consulting a physician.

Some **neurotransmitters** may be at sub-optimal levels after BBB alteration and will cause their own unfolding of events. Once we realise that BBB alteration may involve changes in neurotransmitter levels, we must consider that some "mental illnesses" may be caused or exacerbated by BBB permeability. These can include depression, anxiety, panic, obsessive-compulsive disorder and even more serious illnesses such as paranoia, schizophrenia, catatonia, etc. Indeed, deficiency of inhibitory neurotransmitters (GABA, serotonin, others) can be an integral part of allergy-like reactions to foods. If a slight irritation, or reaction, in the GI tract ensues after eating a food, a person who is low in one or more inhibitory neurotransmitters may experience severe symptoms.

These can include cardiac symptoms (tachycardia, hypertension/hypotension), pain, oedema, anxiety, depression, rash or other complaints. People who are deficient in GABA may be intolerant of many spices. GABA supplements may help symptoms from a leaky gut or a leaky BBB.

Some **micro-organisms** can penetrate the BBB. These include spirochetes such as *Borrelia burgdorferi*, which causes Lyme disease, and the spirochete that causes syphilis. Spirochetes are believed to tunnel through blood vessel walls. This may cause subsequent BBB permeability for other substances in the blood. Some viruses may get through the BBB by attaching themselves to certain immune cells. This is part of AIDS.

Ammonia may play a role in BBB alteration in Lyme

disease. One researcher states that this has implications for "cerebral allergies...neurological and psychological hypersensitivity, MCS [multiple chemical sensitivity], cognitive dysfunction, CFS [chronic fatigue syndrome]..."⁷ He claims that *Borrellia* and other infectious organisms that have got into the brain are releasing ammonia and causing a hyperpermeable BBB, or leaky brain syndrome. Ammonia may be converted to glutamine, which may affect the BBB. Then larger molecules such as dietary amino acids may too readily enter the brain.⁸ The Functional Acuity Contrast Test, also called the Visual Contrast Sensitivity Test, is recommended to test for cerebral dysfunction.

Systemic inflammatory diseases

are also suspected of causing BBB permeability, or perhaps they are partially a result of something that has caused BBB permeability. Other factors have recently been found to induce BBB breakdown. Research is ongoing to allow greater amounts of drugs to penetrate the BBB. Mannitol, given intravenously with subsequent drug administration, is being used to induce BBB permeability.

Electromagnetic radiation also causes BBB breakdown. In 1977, researchers observed that very low

levels of microwaves applied to the brain rapidly initiated BBB permeability.

Microwave radiation caused albumin to leak from capillaries, causing neuron damage and BBB permeability. In 1988, scientists found that BBB leakage can occur after two minutes of microwave exposure and at a density level of only 1/10,000th of a watt. This is far less than the radiation absorbed by a cellphone-user's brain.⁹

Finnish scientists have found that cellphone radiation can shrink brain cells, making them more permeable to leaking toxins.¹⁰ There may be a vicious cycle in play here for sufferers of EMF sensitivity. The BBB has also been found to contain magnetite, and so would be sensitive to purely magnetic fields.

Ultrasound radiation is being used to open up small areas of the BBB for subsequent drug administration. Some researchers have stated that testing for possible permanent brain damage from such ultrasound-irradiated brain areas has been insufficient to date.¹¹ Certain governments are known to have created ultrasound devices to be used for "crowd control"—and they claim that these are safe. Now you know better.

One would expect that a crisis in blood flow in the brain might have serious consequences for the BBB.

Systemic inflammatory diseases are also suspected of causing BBB permeability, or perhaps they are partially a result of something that has caused BBB permeability.

Indeed, there is a transient loss of the BBB that occurs within minutes or hours of a stroke. Even a small percentage of loss of BBB function, but over a lengthy interval, may lead to degenerative neurological illnesses. A cerebral ischaemic event—**stroke**—leads to oedema and BBB breakdown.¹² BBB permeability after a stroke has been shown to be very variable both in time and location. Openings of 20 nanometres occur and then close off, and some areas of the brain have greater permeability than others. Further changes can then take place in the BBB endothelium involving depositing of fibrin, platelets, adhesion molecules and, later, macrophages (white blood cells). Ischaemia (lack of blood flow) leads to the death of brain cells.

Shortly we'll see how a hidden heart defect causes stroke.

Nutritional Deficiencies and the BBB

Deficiencies of certain nutrients can cause BBB permeability. **Zinc** deficiency has been found to adversely affect the BBB, after the BBB was first subjected to excess oxygen stress.¹³ Deficiency of **omega-3 fatty acids** has also been found to adversely affect the BBB.¹⁴ Omega-3 deficiency has been linked to depression, so increased BBB permeability may be linked to this "mental illness". **Thiamine** (vitamin B₁) deficiency has been found to adversely affect BBB integrity.¹⁵ The crucial antioxidant **glutathione** has been found to play a role in BBB integrity.¹⁶ Iodine deficiency has been implicated in BBB permeability, and also led to decreased transport of glucose and an amino acid in the brain.¹⁷ **Iodine** is part of the thyroid hormones, so there may be a link involved in hypothyroidism leading to retardation, if present in infancy.

Correcting nutritional deficiencies has been aided recently by nanotechnology, which allows for liposomal encapsulated nutrients (or drugs) to get past the BBB. Liposomes utilise phospholipids to surround a nutrient or drug. But great care should be taken with this new technology as it may not be safe to get certain nutrients rapidly into the brain. Nature devised or evolved the BBB for good reason.

Alzheimer's disease may entail protracted BBB leakage.¹⁸ Deficiency of the recently found protein apolipoprotein E (apoE) in the brain leads to significant loss of BBB integrity and may be linked to Alzheimer's. A **high cholesterol** level is one factor that seems to potentiate the apoE-deficient BBB integrity

diminishment. **Brain tumours** are also known to be associated with leaky BBBs.

Blood-brain barrier hyperpermeability may be involved in hypertension. Researchers observed rats with kidney defects that led to excess sodium chloride passing through the BBB.¹⁹ This then led to **hypertension**. Here an essential nutrient, sodium—via BBB hyperpermeability—entered the brain in harmful, excess amounts.

The BBB may be involved in **obesity**. Leptin is a protein implicated in obesity. Ordinarily, leptin signals satiety. In some obese people, this signal does not work properly; this is called *leptin resistance*. Researchers in one study found: "...serum triglycerides impair the ability of

the BBB to transport leptin. Triglycerides are likely a major cause of the leptin resistance seen in both starvation and obesity. Lowering triglycerides may be therapeutically useful in enhancing the effects of leptin on weight loss."²⁰

A related research area is ascertaining if the BBB is normally permeable to certain nutrients, when scientists just assumed it was not. Folic acid and iron have now been found to cross the BBB under normal circumstances. Does BBB breakdown subsequently allow excess passage of these nutrients into the brain? Folic acid is known to exacerbate histamine release from certain cells. And we have already seen histamine's involvement in BBB breakdown. So we would have a vicious and harmful cycle, possibly involving mast cell disease.²¹ Folic acid is a methyl donor, and researchers have noted that some chronically ill people get worse from taking methyl donor supplements.

Excess folic acid has been found to cause reactive airways disease in animals.

Multiple sclerosis is another disease linked to BBB breakdown. Takashi Kanda states: "In multiple sclerosis (MS), disruption of the BBB is the initial key step in the development of inflammatory lesions ... once the BBB breaks, massive infiltration of T cells, augmented expression of adhesion molecules on endothelial cell surface, and leakage of inflammatory cytokines and antibodies will aggravate the MS lesions."²²

There are areas of the brain that are outside the BBB. The circumventricular organs (CVOs) are BBB-deficient areas that communicate with the cerebrospinal fluid and facilitate the flow of blood-borne substances between the brain and peripheral organs. CVOs include the

Blood-brain barrier hyperpermeability may be involved in hypertension. Researchers observed rats with kidney defects that led to excess sodium chloride passing through the BBB.

pineal gland, parts of the pituitary gland, the hypothalamus and other tissues. So some of our most important brain organs, like the pituitary and hypothalamus, have diminished BBB protection. Corticotropin-releasing hormone (CRH), released by the hypothalamus during stress, has been found to cause BBB permeability.

Researchers have found that BBB cells alone regulated the amount of glucose entering the brain, and that the BBB created more glucose transporter molecules within itself in response to hyperinsulin-induced hypoglycaemia in rats.²³ So perhaps we should say that the blood-brain barrier itself has a brain. This compensating effect was noted in rats that recovered on their own after two days of hypoglycaemia.

Migraines, Strokes and the Hole in the Heart

Migraine sufferers often also suffer from depression, anxiety/panic and sleep problems. All these may entail increased permeability of the BBB. Migraine *without* aura is called *common migraine*. Migraine *with* aura is called *classic migraine*. The aura stage consists of visual disturbances: flashing lights, zigzagging lines, rainbow areas, vertigo, loss of part of the visual field, pins and needles on one side of the face, and numbness.

Classic migraine has three phases: the aura phase, the headache phase and the post-headache phase. The aura phase lasts about a half-hour, and often has a preceding premonition phase. The onset of the painful headache phase usually ends the aura phase. The throbbing or pounding headache pain may start out in one area and spread to a much larger area, and can last for hours up to a day. The headache phase can be accompanied by severe sensitivity to light, smells, sounds and touch. The post-headache phase can include chills, sweats, diuresis, polyuria and shakes.

Common migraine may have precursor events of moodiness, fatigue or mental lapses. The headache phase may be similar to the classic migraine headache phase. One can also have the purely *optic migraine* of feeling sick *with* aura symptoms, including temporary partial loss of the visual field, but *without* getting the headache. The aura phase has been suspected of being due to vasoconstriction, and the headache phase due to vasodilation. Recently, the aura phase has been said to coincide with a cortical spreading depression (SD) wave. This is a depolarisation (reversal or reduction of the electrical potential of cell membranes) wave moving at about three millimetres per minute in the cerebral cortex. Cerebral blood flow is altered during this SD wave. A brief, spreading, hypaeremic (above normal)

blood flow pattern is followed by a much longer lasting, spreading, oligoemic (diminished) blood flow pattern. The SD wave can be triggered by electrical, mechanical or toxic factors. Migraine cessation has also been attained by the elimination of certain foods.

Recent research has found a delayed BBB permeability increase and subsequent cortical oedema from a single episode of an SD wave, and that repetitive SD waves cause BBB permeability beginning within two hours of onset.²⁴ Another study has found that "chronic cerebral hypoperfusion induces BBB damage with subsequent morphological changes of the vascular structure in the corpus callosum".²⁵ (The corpus callosum lies between the two brain hemispheres and is involved in dyslexia and other problems.) The associated leakage into the brain of macromolecules, such as proteases and immuno-globulins, may contribute to the formation of white-matter lesions (visible on MRI) which are associated with decreased cognition in the elderly.

But what can cause chronic cerebral hypoperfusion? Hidden heart conditions are known to do this. One in particular is involved in migraines, strokes and other problems. This is the *patent foramen ovale* (pronounced "pay-tent foray-men oh-val-ee"), or PFO. It is an atrial septal defect. *One out of about every three people has a hole or tunnel between the two upper chambers of the heart that*

One out of about every three people has a hole or tunnel between the two upper chambers of the heart that did not seal properly in infancy.

*did not seal properly in infancy.*²⁶ This is partially based on analysis of a 1984 Mayo Clinic autopsy study of 965 people, which *excluded* obviously diseased hearts. The study revealed a 27.3 per cent prevalence for all ages. For people who died in their first three decades of life, the prevalence was 34.3 per cent. As obviously diseased hearts were excluded, 27.3 per cent is likely a significant underestimate for the entire population. Enlightened researchers now cite a 35 per cent PFO prevalence.²⁷

The PFO allows for poorly oxygenated blood to go to the brain and the rest of the body. Recent research has proven the role of the PFO in causing migraines (more so if there is aura), ischaemic strokes and transient ischaemic attacks (TIAs) which usually include the mind going blank. *Strokes and TIAs occur, in part, because the PFO causes clots or micro-clots to form.* The PFO may be causative of, or linked to, exercise intolerance, asthma, pulmonary hypertension and cardiac degeneration. It gets larger and more problematic with age.

When closure of the PFO was attained, via catheter implantation of a small closure device, migraines were serendipitously found to cease in many sufferers, including divers. It can prevent new strokes from occurring. Such devices currently all contain nickel, which can be problematic for allergic or porphyric

people. Hopefully, better methods such as stem cells will be used in the future.

The PFO is now recognised as a leading cause of ischaemic stroke and classic migraines. A well-known medical centre states: "About 40 percent of patients who have an ischemic stroke have no known cause (called cryptogenic stroke). PFO is present and associated with an increase in stroke in about 40 percent of cases."²⁸ I believe that is a conservative estimate, and that the PFO can also cause or exacerbate other problems including fatigue, myalgia, multiple chemical sensitivity, EMF sensitivity, food reactivity and respiratory disorders. In addition to the problematic nickel, getting the catheter-implanted device also entails taking blood-thinning drugs for months before and after implantation. The commonly used blood-thinner warfarin was first used as rat poison.

Israel's Prime Minister, Ariel Sharon, after suffering a mild, ischaemic stroke in December 2005 and getting diagnosed with a PFO, took blood-thinners. In January 2006, he suffered a haemorrhagic stroke the evening before he was to have PFO closure surgery. "Several senior doctors [said] 'there was indescribable negligence'... Questions were also raised about the dosage he received."²⁹ He was taken to the hospital by an hour-long ambulance ride—instead of by helicopter—after his massive haemorrhagic stroke. He was formally removed from office in April 2006 and since then has been comatose.

In late April 2010, rock musician Bret Michaels was hospitalised for a minor stroke caused by his previously hidden PFO. He underwent successful closure surgery on 24 January 2011.

The PFO can be tested for via the (less invasive) Transcranial Doppler (TCD) test or the Transoesophageal Echocardiogram (TOE) test. The TCD test involves injecting a saline solution with micro-bubbles of air and seeing if a shunting, or crossover, of blood between the atria occurs by finding the bubbles in the brain via the Doppler device which is placed on the head. The hidden hiatal hernia and vagus nerve imbalance syndrome is involved in the PFO mechanism, I claimed after 27 years of helping people with these problems.³⁰ Vagal nerve stimulation or imbalance can cause a *more open* PFO state.

All this shows that one of the most crucial things for maintaining a strong blood-brain barrier may be to ascertain and correct—or mitigate the effects of—the hidden PFO. This can prevent or diminish migraines, strokes and other problems. *The PFO may be a primary cause of BBB fragility and subsequent permeability and chronic or*

environmental illness in some people. It would be synergistic with other medical problems that a person has.

Talking about PFO closure with cardiologists can be problematic. In discussing implanting two closure devices with two cardiologists, I received, alas, what I believe are typical responses. The first one said, "The salesman told me the device has no nickel"—despite the fact that *the very name* of the device, "30NT", refers to it ("N" stands for nickel and "T" for titanium; "30" is the nickel percentage, the remainder being titanium). Several years later, I broached the subject with another cardiologist. He said that the device had no nickel—I think he never knew or cared to know what it was made of, but that didn't stop him from providing false information—despite the fact that *the very name* of the device, "15NT", refers to it (this device has 15 per cent nickel). The second one told me, after I told him that I'd

written a book on the PFO, that "the PFO is not capable of causing any problems other than what insurance currently reimburses for—and I am the doctor; do not contradict me". Words to live by...or perhaps, more likely, words to die by?

Holistic Helpers

We've seen that our precious brains have a barrier that is now known to break down more easily than was thought

possible. Permeability of the BBB may be involved in stroke, migraine, Alzheimer's disease, MS, Lyme disease, EMF sensitivity, food allergies, hypertension, brain injury, tumours and obesity. BBB permeability can be caused by emotional stress, toxicities, drugs, nutritional deficiencies, trauma, heat, allergies, MSG, EMF/microwaves, ultrasound, heart defects and other factors. To protect our brains from the possibly devastating effects of BBB permeability, we need to avoid or counter those factors.

Helpful methods to ensure a properly functioning BBB can include stress reduction, energy balancing via kinesiology, acupressure, acupuncture, reflexology, breathing techniques and the Rochlitz Heart Integration Exercises.³¹ The brain's central acupuncture meridian can be balanced by running the hand over it five times, going up from the groin to under the lower lip. Lightly holding points on the forehead, three centimetres above the centre of each eyebrow for 30 seconds to five minutes, also helps reduce stress and balance the brain, improving the blood flow. This is a neurovascular technique. For reflexology, rub hard the top/central parts of the five toes, especially the big toe. Cranial adjustments may also help. Complete food testing with

The PFO may be a primary cause of BBB fragility and subsequent permeability and chronic or environmental illness in some people.

Continued on page 81

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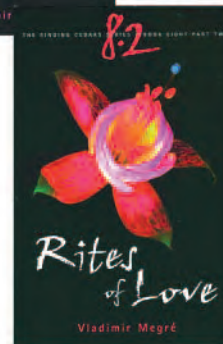
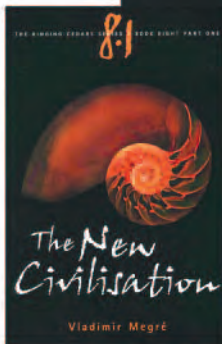
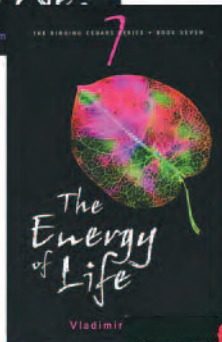
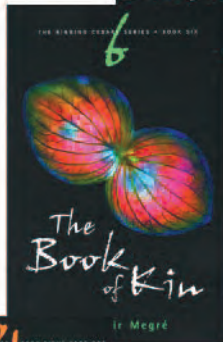
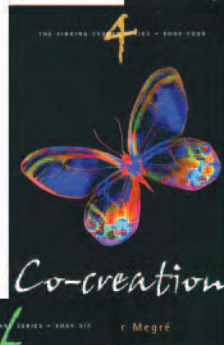
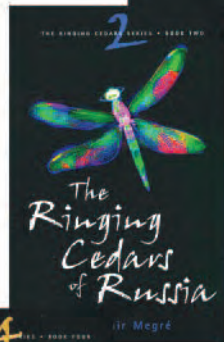


In 1994 a Siberian elder told the entrepreneur Vladimir Megré a fascinating story about the “ringing cedars” - trees respected from Biblical times for their curative powers and the capacity to reconnect human beings with the Divine. The elder told him where such a ringing cedar was growing in the Siberian backwoods.

Vladimir Megré set out on an expedition to find the tree. But his encounter with the elder’s granddaughter, Anastasia transformed him so deeply that he abandoned his commercial plans and, penniless went to Moscow to write a book about what she shared with him.

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A NEW MECHANISM FOR MATTER INCREASE WITHIN THE EARTH

A plausible new argument suggests that, based on known physical phenomena, particles from the Sun may account for Earth expansion.

by John B. Eichler © 2011

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According to Expansion Tectonics, geological data support the claim that the Earth has been gaining matter over geological time. The source of this new matter and the specific manner of how the Earth gains it remain a mystery which affects the viability of Expansion Tectonics. This article proposes a new mechanism for matter gain. In summary, based on the electric nature of our universe, it is suggested that this gain is primarily fed by solar particles that are transferred to the Earth's interior by electron and proton conduction. It is argued that such a process is plausible and has support based on theoretical and empirical studies appearing in existing scientific literature.

Expansion Tectonics

For over a century, many professional geologists have speculated on the possibility that the Earth has undergone a steadily increasing expansion. In the past 60 years, the two names most notable in this regard are Professor Samuel Warren Carey and his successor Dr James Maxlow, both geologists from Australia. These and other scientists have arrived at the conclusion that, based on sound empirical evidence, the observed geology of the Earth can only be explained if the Earth has been increasing its radius substantially over a time period of several billion years.

In the 1990s, Maxlow in his graduate research pursued the Earth expansion hypothesis in much greater detail. Maxlow initiated his studies soon after the Commission for the Geological Map of the World and UNESCO had completed worldwide geological mapping of the surface of the Earth, both on land and under the oceans, assembling extensive ageing data of the entire crust. This mapping then formed the basis for Maxlow's research.

Maxlow determined that the Earth has undergone an exponential increase in radius since the beginning of Earth history some 4,000 million years ago. What this means is that, for over 90 per cent of its existence, the increase in Earth radius was much less than the thickness of a human hair per year, and then, about 200 million years ago, this rapidly increased to its present rate of 22 millimetres per year.

By systematically taking away the area represented by the oceans and constructing progressively smaller-radius Earth models, Maxlow demonstrated that it is possible to reduce the Earth's radius and fit all of the present continents together at about 55 per cent of the current Earth radius at the beginning of the Jurassic Period some 200 million years ago. Similarly, by investigation of ancient interior continental basins, Maxlow found that it was possible to extend this value downwards to approximately 27 per cent of the current value at the beginning of the Archaean Aeon some 4,000 million years ago. From the beginning of the Archaean to the present day, this represents about a 50-fold increase in volume. In all cases, Maxlow was able to achieve a better than 99 per cent land-mass fit as he progressed

stepwise back in time, providing conclusive evidence for Expansion Tectonics.

A detailed technical discussion of the geological and other evidence supporting this expansion process, termed by Maxlow as Expansion Tectonics, is beyond the scope of this article but is covered extensively elsewhere (Carey, 1996; Maxlow, 2005; Scalera & Jacob, 2003).

Carey considered and subsequently rejected a number of possible causes of expansion such as (1) a pulsating Earth, (2) meteoric and asteroidal accretion, (3) a constant Earth matter with phase changes of an originally superdense core, (4) continual reduction of the universal gravitational constant, and (5) a cosmological cause involving a continual increase in matter. The problem with each of these possible causes is that none seemed to account for the proposed magnitude of expansion. Furthermore, most of these possible causes involve only theoretical speculation.

Clearly, if the Earth has been gaining matter at the levels required (from what geological evidence suggests), there must be some other mechanism underlying this matter increase. Such a mechanism is suggested here, based on electron and proton conduction in solids, which is consistent with known empirically determined characteristics of matter.

Clearly, if the Earth has been gaining matter at the levels required...there must be some other mechanism underlying this matter increase.

A Proposed New Mechanism

Dr Hannes Alfvén, Nobel laureate and recognised plasma physics expert who is considered the father of the field, has said that our universe is one where over 99 per cent of the matter present is in the form of plasma. Plasma currents consist of charged particles, both electrons and negatively or positively charged ions, which move in unison (although in opposite directions) under the influence of electric and magnetic fields. Subsequent exploration of space by artificial satellites and space probes has verified that such currents do exist. Even though these charged particles are widely separated, as is the case in the relative void of space, the sheer number of particles is so large that currents in the billions of amps or more are created by their motion (Lerner, 1992). This subject matter has been analysed in detail in many technical books and papers (e.g., Alfvén, 1986; Peratt, 1990, 1995). For our purposes, what is important here is that vast numbers of charged particles do indeed exist in space.

What is suggested here is that the constant bombardment of the Earth by charged particles, primarily from our Sun, provides a source for the matter necessary to account for the increase in matter within

the Earth without the necessity of invoking esoteric theoretical processes. More importantly, all this occurs within the confines of known physics.

The Global Electric Circuit

Our Earth is very active, both from an electric and a magnetic standpoint. In a similar manner as to how a current flowing through a coil of wire produces a magnetic field, the Earth's magnetic field is inferred to be generated by currents of electricity within the Earth. Additionally, there is a large amount of electrical activity below, on and above the surface of our planet.

The ionosphere ranges from 50 to more than 400 kilometres above the Earth's surface. It is characterised by a mixture of free electrons and ions of various elements including hydrogen (whose ion is a single proton), thus creating a plasma current due to the Earth's magnetic field. From an electric point of view, there exists a voltage potential which ranges from

200,000 to 300,000 volts or more between the ionosphere and the surface of the Earth (Markson & Muir, 1980). The atmosphere acts as an insulator, making it difficult for electric current to travel to and from the Earth's surface to the ionosphere except under special conditions. This also has been extensively studied by others. In effect, we live between the plates of a huge capacitor where one plate is the ionosphere and the other the

surface of the Earth.

In thunderstorms, clouds build up large static charges in a similar way to how you might build up a charge on your body in cold weather by walking across a rug; when you reach for a door knob or other metallic device, a spark is generated between your hand and the device. Nature does the same thing, in essence, only it is called "lightning" and is vastly more intense. The potential between a cloud and the ground may extend upwards to several million volts, and the current that is discharged averages about a trillion watts (Christian & McCook). It's not surprising that this amount of power is generated, considering that a lightning strike has such a high voltage together with estimated currents of up to 50,000 amperes. This means that there is a huge number of negatively charged electrons travelling between a cloud and the Earth's surface, conducted via an ionised path consisting of plasma.

With the advent of artificial satellites capable of recording lightning discharges with a high degree of accuracy, it has been estimated that about 45 to 50 lightning flashes occur every second worldwide from more than 1,500 to 2,000 thunderstorms in progress

during that second. This means that every day approximately 4,000,000 lightning discharges take place, resulting in about 1.4 billion occurrences each year. About 80 per cent of the lightning flashes are between clouds, while the remaining 20 per cent are between clouds and the surface of the Earth.

Nature abhors with a vengeance an imbalance in electric charge distribution. After the lightning strike, the cloud has an unbalanced charge. It experiences an interaction with the ionosphere above it to try to become neutral again by the transfer of electrons to the cloud. But each lightning strike creates a more negative Earth by passing electrons to it. In an attempt to restore balance, some means must exist to transfer current back to the ionosphere to complete what is known as the "global electric circuit" (Bering *et al.*, 1998) or the "global atmospheric electrical circuit" (Harrison, 2004).

Figure 1 represents a simplified complete circuit. Lightning sends electrons to the ground where the charge spreads, since the surface layers of the Earth are good conductors of electricity. In what is referred to as the "fair-weather return current", the high potential between the ground and the ionosphere drives current flow through the air to the ionosphere to close the circuit.

It must be appreciated that in any electrical transfer, the large potential difference between the ground and the ionosphere also will drive positively charged ions down towards the ground because the Earth has a negative electrostatic charge. Any time there is a potential difference and there are charged particles present, these particles will move. And the ionosphere, under the influence of the magnetic field lines of the Earth, has all kinds of ionised particles as well as electrons moving primarily in a north-south direction. In addition, there are continual streams of electrons and ions from the Sun which serve as a potentially vast supply of available charged particles to account for the hypothesised matter gain within the Earth.

In summary, ours is a world where ionised particles

abound whether from plasmas formed by the electric discharge in a bolt of lightning or plasmas present in the ionosphere due to particle bombardment from the Sun.

New Matter Requires Protons and Electrons

We are all familiar with electric conduction when it comes to the electric currents that we use every day to power devices around us. We know, for example, that copper and aluminium are excellent conductors of electricity. But current conduction is not limited to just metals. The Earth itself is an excellent conductor, which is why when you touch an electrical outlet while standing

on the earth you feel a zap as electricity travels through your body between the outlet and the ground. We even know through this often accidental, simple experiment that the body itself is a good conductor of electricity.

Most discussions about the flow of electricity focus on the movement of electrons under conditions of voltage potential difference, since it is so common. Not so obvious in everyday life is the recognition that magnetic fields are also prime movers of electrons and other charged particles, and nowhere is this truer

than within the magnetic field generated by the Earth itself.

The Earth is continually being bombarded by charged particles, both electrons and ions, from our Sun. These particles become entrapped in the Earth's magnetic flux lines in space, forming plasma sheaths which channel these particles away from most of the Earth—with the exception of at its poles, where the magnetic lines of force converge. The beautiful aurora borealis and aurora australis (northern and southern lights) are ribbons of plasma where incoming charged particles enter our atmosphere, driven by the magnetic field of the Earth. But a magnet has two poles and each pole acts on particles of the same charge, be it negative or positive.

In a plasma, electrons and negative ions (atoms which have gained an extra electron, making them negative)

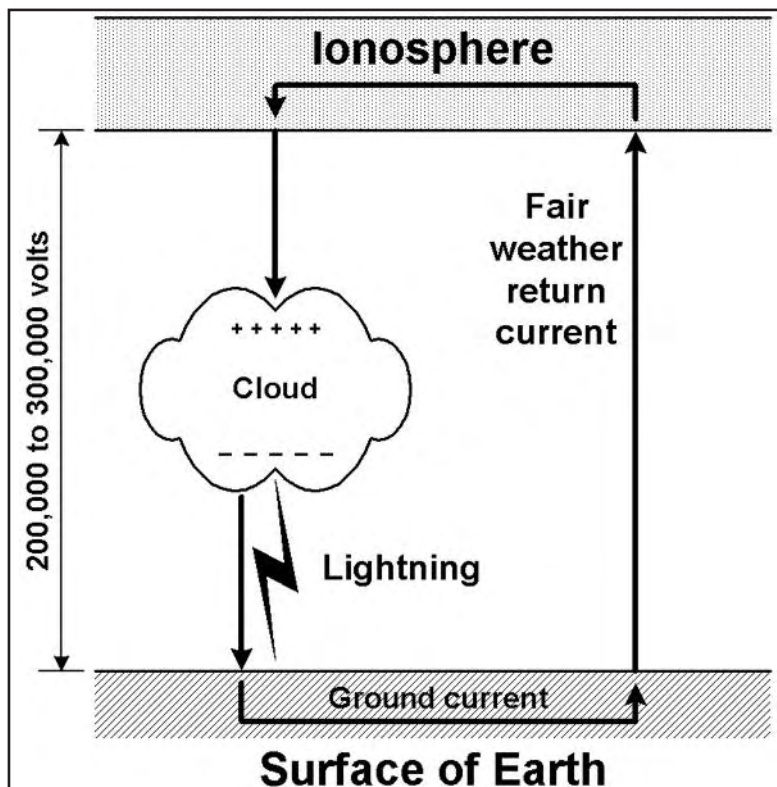


Figure 1: The Global Electric Circuit

flow in one direction, whereas protons (ionised hydrogen) and other positively charged ions flow in the opposite direction to that of the negatively charged particles. From a particle standpoint, there are differences to be noted. Electrons, being lightweight, as opposed to protons and other positive ions (made up of protons and neutrons in ionised atoms), travel with a higher velocity than do ions. But particles of each charge come under the same force provided in a magnetic field, only they have different movement characteristics.

When a thunder cloud moves over an area of land, the potential difference between the cloud and the ground creates a current flow of electrons to or from the ground directly below the cloud. This is a local effect. However, disregarding local effects, there is a component of magnetic force from the Earth which acts on charged particles. We know that currents flow within the Earth, so why shouldn't there be a similar flow of individual protons within the Earth?

It is good to reiterate at this point that new matter, in the form of atoms, requires both electrons and protons; either alone is not enough. When we are talking about matter increase within the Earth, we therefore must have both types of particles present. Is there such a phenomenon as proton flow within a liquid or solid?

It is good to reiterate at this point that new matter, in the form of atoms, requires both electrons and protons; either alone is not enough.

Proton Conduction

There is a large amount of both theoretical and experimental evidence for proton conduction. Much of the recent research effort in this field has been motivated by the desire to find substances which can effectively separate charged particles in materials having practical applications, particularly in areas such as fuel cells, electrochemical sensors, electrochemical reactors and electrochromic devices (Kreuer, 1996).

What has been made clear from this research is that the mechanism of proton conduction is much different than that of electron conduction. Whereas electron current flow is generally based on freely mobile electrons as found in metals, protons don't move in a similar manner because free protons don't behave like free electrons. Protons tend to bind to the electrons in outer orbit around the atoms in a liquid or solid. Then the protons migrate in a molecule-to-molecule fashion when acted upon by a magnetic force field.

A couple of points to keep in mind are that protons are the same order of magnitude in size as electrons, and hence individual protons conduct in liquids and solids better than other heavier positively charged ions. The reason for this is that the smallest atom is roughly

10,000 to 100,000 times larger than either an electron or a proton. The theory behind proton conduction is complex, so only highlights will be discussed here. Individual protons are extremely active and tend to bind easily whenever atoms are present with outer-orbit electrons which may be shared.

There are two primary modes of proton conduction discussed in the literature (although others have been considered). The first mode is where the proton forms a bond with an existing atom. For example, the oxygen in a water molecule (H_2O) may temporarily gain an extra proton (H_3O). If the molecule is capable of rotation, the extra proton (whose bond is relatively weak) can create a bond with a nearby water molecule and then break loose from its existing bond with the first water molecule. In this manner, the proton is passed from molecule to molecule, which essentially provides a method for proton conduction (Poulsen, 1980). Water

(liquid or solid) is not the only type of molecule in which this effect has been studied (Glasser, 1975).

The second mode of conduction is where a larger molecule exists which contains a number of tightly bound atoms. Of particular interest here is that materials exhibiting the structure of perovskite (a mineral with the same type of crystal structure as calcium titanium oxide, $CaTiO_3$) have oxygen atoms which create an

interactive electric-potential field where a proton finds a resting spot between such atoms (Kreuer, 1996). Assuming that these molecules are in a matrix structure, as is frequently the case with solids, a virtual path is created that is analogous to a virtual proton-carrying wire, so that protons can travel almost unimpeded from molecule to molecule.

The point being made here is that proton conduction in both liquids and solids has been observed experimentally and has been intensively studied. Proton conduction is not just a theoretical phenomenon; it is empirically based.

Within the interior of the Earth, several well-defined layers have been found by using a variety of techniques, primarily by recording and analysing seismic waves. Furthermore, studies have been conducted with regard to proton conduction in the materials of which these layers are composed (Yoshino, 2010). The lower mantle, which constitutes the bulk of the material of the Earth, is believed to be composed primarily of perovskite, which, as mentioned above, has been found to be a conductor of protons. Consequently, it is argued here that there exists a probable pathway for likely conduction of protons deep within the Earth under the

influence of the Earth's magnetic field, thus providing a viable method of proton transport. But what happens to this concentration of protons within the Earth?

Nucleosynthesis and Transmutation within the Earth from Protons and Electrons

Protons, being of like charge, normally repel each other with a vengeance. However, quantum and other effects come into play. The problem with nuclear fusion is trying to keep a group of charged particles together for sufficient enough time for fusion to occur, thus liberating energy. Protons in close proximity encounter what is known as the "Coulomb barrier". As the protons get closer together, the force of repulsion between them becomes exponentially greater. Theoretically this force should reach a near infinite level, making it impossible for nuclear fusion to occur.

Nucleosynthesis is the formation of atoms more complex than the hydrogen atom. It is generally believed that nucleosynthesis of the heavier elements only occurs in interiors of stars where extremely high temperatures and pressures are thought to occur, leading to the conclusion that most of the heavier elements found in the universe have been created in this manner.

To assume that the Earth is gaining matter and that this may be due to nucleosynthesis within the Earth seems to fly in the face of conventional wisdom—and it does. However, if the geological evidence strongly suggests that the Earth's radius is getting larger with time (due to the Earth's gain of new matter), as Expansion Tectonics advocates maintain, then some mechanism must be at play to account for this additional matter. Clearly, the solid nature of the crust of the Earth is relatively impervious to the infusion of most matter, with the exception being electrons and the nuclei of the lightest elements, most likely hydrogen or an isotope of hydrogen.

Transmutation is the changing of one element into another by radioactive decay, nuclear bombardment or similar processes. New matter introduced into the Earth would require transmutation as well as nucleosynthesis. According to conventional physics, both processes normally occur when high energy levels of the interacting particles are present. The question here is whether or not these processes could happen should high-energy particles not be present. Over the last two decades, work

has been going on in this area of research. To understand this better, we turn our attention to the subject of what is generally referred to as "cold fusion". The research into this subject is complex, with many unanswered questions remaining.

In 1989, two researchers, Dr Martin Fleischmann and Dr Stanley Pons at the University of Utah, announced that they had achieved nuclear fusion in their laboratory. They claimed that this was done by electrolysis, using a palladium cathode with heavy water (deuterium oxide), with the result being that the energy output, based on measured heat, was greater than the energy input. They hypothesised that two atoms of deuterium (a stable

isotope of hydrogen) fuse, creating a helium atom and liberating heat in the process. For them to have done this in a laboratory at low energies was thought to have been impossible. Since the 1950s, billions of dollars had been spent trying to accomplish fusion through expensive atom-smashing-type machines with very limited success. The hope had been to provide a cheap source of energy. Absent in Fleischmann and Pons's experiment were all the exotic by-products normally expected when high-energy fusion occurs under thermonuclear conditions with temperatures in the millions of degrees.

Below are the important points relevant to the discussion here. The best source of current information about cold fusion, i.e., low-energy nuclear reactions, is <http://www.lenr-canr.org>. I encourage interested readers to check out this website.

- Cold fusion has been experimentally verified in a

number of laboratories around the world, including in the USA. Because of the nature of the experimentation, the most difficult part of this effort is in carrying out the extensive instrumentation procedures required to obtain definitive results. However, scientists working with cold fusion generally agree that there is no question about its working. Excess energy is released through the fusion process, as predicted by nuclear physics, and has been measured.

- Various theoretical analysis models have been proposed to explain the process, and headway is being made in this regard according to a number of investigators (e.g., Fleischmann, Pons & Preparata, 1994; Beaudette, 2002). Although cold fusion of deuterium to create helium (and other atomic nuclei) ends with the same final result as hot fusion, the

To assume that the Earth is gaining matter and that this may be due to nucleosynthesis within the Earth seems to fly in the face of conventional wisdom—and it does.

process by which this occurs is much different, primarily in the absence of high-energy by-products including radiation. Clearly, a new physical process seems to be at work that begs more theoretical attention.

- It has been reported in many instances that once the electrolysis current was turned off, the heat generation process continued for extended durations, i.e., hours and/or days afterwards (Beaudette, 2002). Presumably this is due to the palladium becoming saturated with deuterium, allowing continuation of the fusion effect independently of additional power input.

- Some researchers have reported that atomic transmutation occurred in cathodes made of various materials. For example, one researcher using high-purity nickel-coated beads as the cathode found that after five weeks about 40 per cent of the nickel had been transmuted into a mixture of other elements including chromium, iron, copper, selenium, silver, cadmium, antimony and lead (Beaudette, 2002).

- Over two decades ago, it was proposed that nucleosynthesis has perhaps been occurring in condensed matter within planets, moons, etc. Some research was done over that period in an attempt to prove or disprove this hypothesis (Bockris & Mallove, 1999). This research involved looking for fusion by-products, primarily isotopes of hydrogen and helium. The principal radioactive isotope of hydrogen looked for is tritium, which has a half-life of 12.32 years. Because of this short half-life, tritium in nature doesn't remain present for long and hence is quite rare. With helium, there are two stable isotopes (^3He , ^4He) which allow for a ratio of one to another to be calculated. The ratio of naturally occurring isotopes of helium is much different than the ratio produced in fusion reactions, allowing detection of these reactions. Gas analysis searches were conducted in two primary areas.

The first area included so-called "hot spot" volcanoes, like Kilauea in Hawai'i and Alcedo in the Galápagos, which produce magma from plumes which supposedly rise hundreds of kilometres from the core-mantle boundary, as opposed to crustal volcanoes which are regarded as rather shallow in comparison (Jones & Ellsworth, 2003; Tebbe, 1980). The deeper volcanoes have yielded tritium presence and helium ratios ($^3\text{He}/^4\text{He}$) much higher, by factors of tens to hundreds, than do the shallower crustal volcanoes, indicating the possible by-products of fusion.

The second area is that of volcanic crater lakes (Jiang *et al.*, 2007). Towards the bottom of many such lakes, the water does not mix with the upper-layer water so gases

trapped in the bottom layers typically remain unaffected for thousands of years. Research has shown that the presence of tritium (with its short half-life) and high helium ratios strongly indicates that the source of these isotopes is from mantle degassing rather than from the Earth's surface. This unusually abnormal finding has led the researchers to the tentative conclusion that it fits with the hypothesis of what would be expected if fusion were occurring deep within the Earth.

Conclusions and Comments

For over a century, many professional scientists have maintained that expansion of the Earth has occurred. Numerous technical articles and books have expressed this hypothesis as a viable and indeed necessary one to explain the observed empirical geological facts known about our planet. Expansion Tectonics, as it is known today, alleviates the reliance on other theories that have been put forth, such as Continental Drift and Plate Tectonics.

However, Expansion Tectonics, in and of itself, has not inspired a paradigm shift away from the currently held paradigm of Plate Tectonics. When one asks why this is true, the response which most frequently comes back is the question, "If the Earth has undergone expansion, where did the increase in matter come from?" Carey, for one, spent the

majority of his lifetime trying to provide an answer to this question. Time and again he considered possible mechanisms, mostly theoretical, to explain this question of increase in matter, only to reject such mechanisms for one reason or another. Any mechanism should have a foundation in the area of experimental physics rather than in purely theoretical physics abstractions.

This article proposes and examines what is considered a plausible answer to this question based upon physical processes that have been experimentally observed. It has never been observed, for example, that matter just pops into being where nothing was before. What is required is (1) a source for new matter, (2) a means whereby this matter can penetrate into the Earth's interior, and (3) a mechanism by which heavier elements may be formed.

Empirical geological evidence strongly indicates that Expansion Tectonics is indeed valid, so the task confronted has always been to formulate a viable mechanism whereby this expansion occurs. In a plasma universe, the Earth is under constant bombardment with all the necessary components to reconstitute matter from its constituent parts deep within the Earth.

Expansion Tectonics, as it is known today, alleviates the reliance on other theories that have been put forth, such as Continental Drift and Plate Tectonics.

Continued on page 82

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CAN ZERO-POINT ENERGY GAIN CREDIBILITY?

by Brian Westenhaus © 2011

There is a lot of activity in zero-point energy (ZPE) around the world. In the United States, it remains an oddball or unscientific field. In other places, the science is taken much more seriously. This writer abhors the notion of being hooked into "known" science when a lifetime is already filled with the facts being updated, corrected and reframed. Far better to keep an open mind: opportunity comes when preparedness and new events collide. Zero-point energy and cold fusion are now events, right or wrong; but, if right, one had better be prepared.

The astronomy and cosmology sciences have observed that two-thirds of the total universe is comprised of an invisible type of energy, about which little is known or only slightly more than the fact that it exists. One cannot see this type of energy; thus it's been given the name "dark energy". The name does not compare with or connote "dark" or some miraculous paranormal forces; it simply points out that one cannot see this energy, just like one cannot see anything in darkness. The name also indicates that we have little knowledge of its nature or origin.

This energy is sometimes referred to as "space energy" or "vacuum energy" because it is a property of mere space and thus vacuum. If classical physics is right, this energy is everywhere. It does not require a good vacuum in order to establish this energy. There is a great deal of space, even inside "solid" objects. Things are rather like that: space contains this energy independently, whether it contains

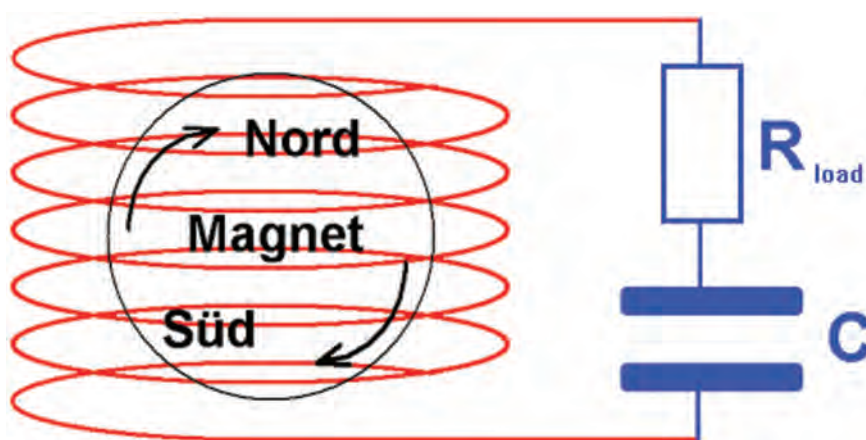
any visible matter or not. Another portion of this energy is "quantum mechanical zero-point energy" because it is supposed that it originates from quantum mechanical zero-point oscillations. Though these oscillations are rather abstract, they are well known within quantum mechanics and have been for several decades.

With that in mind, and for some this is an adulteration of the theory, there is energy everywhere in the quantum state to be harvested. The engineering goal is to make the ZPE visible and manifest it in the laboratory, leading to a harvest for mankind's use. That would convert the classical physics dark energy into mechanical energy, thus proving the classical theory. That premise for progress should—but doesn't—light a fire under the physics field to encourage experimentation.

This brings us to what might be the leading, bleeding edge of physics theory and engineering. Claus W. Turtur (Fachbereich Elektrotechnik, University of Applied Sciences

Braunschweig-Wolfenbüttel) and Wolfram Knapp (Institute for Experimental Physics, Otto-von-Guericke University Magdeburg) think they have devised a device that can harvest the ZPE and obtain some mechanical energy activity.

The result is no small matter, even though the attention paid is quite small. Turtur's problem in obtaining public recognition is that the ZPE explanation requires considerable mathematics and physics skills. It's quite a lot to digest, and the presentation lends no sound-bite material for the lazy journalist. So I will attempt to provide an explanation about Turtur's paper suitable for the layperson such that the import, if it turns out to be really there, is within grasp. Turtur has realised that his previous harvesting attempts were based in the electrostatic field, netting such small results that practicality was out of reach. Thus the new work focuses on the energy density of magnetic fields because it increases the availability of energy by several orders of magnitude.



This set-up with load resistor shows the results of Claus Turtur's paper: a powerful zero-point energy motor with realisable dimensions. (Source: Claus W. Turtur)

Turtur's paper proposes a way for theoretical construction of a zero-point-energy converter in the kilowatt range (see <http://tinyurl.com/4zhcaql>). The result is a model of a ZPE motor with a diameter of 9.0 centimetres and a height of 6.8 cm, producing 1.07 kilowatts—able to power more than 10 100-watt bulbs.

The paper is arranged into numbered parts. Part 1 discusses how the project is defined, i.e., the theory is provided that's awaiting experimentation. At this writing, no working unit has been built, but the mathematics and theory show that the materials needed would be the limitations.

Parts 2 to 5 explore the chain of thoughts that took Turtur to the device proposal. It's important to follow these along, as the discussion shows the steps of theory development. Over the course of the discussion, three questions arise.

Now for the layperson, keep in mind that the quantum oscillations are very, very small and happen over time. That makes the management of timing or tuning the device key to its operation. If one's device can't tune to the time segments of oscillation, the energy pick-up isn't going to happen. That means Turtur had to stabilise the device inputs with pulsed signals. Oscillations are wavelike in that there is an "up" or "down", so to speak, to tune for. Turtur's breakthrough is in understanding that the tuning has to adjust to the two resonances between the two motions of the oscillation. Now for the first "Ahah!" moment: the differential of the two resonances is the energy value that can be harvested.

Then, as seen in part 4, Turtur was ready to try another design with a transformer-style coil pair for shunting out some power. The next "Ahah!" moment yielded 63 milliwatts. Now

Turtur is getting somewhere.

Part 5 provides not so much an "Ahah!" as a brainstorm moment. Here it's realised that the initial concept suggesting that the oscillation would be expressed in a capacitor could be revised to have the oscillation occur in the device's coil. The luxury of a theory with mathematics has rewards—something that the cold fusion crowd is still seeking. The brainstorm solves the matter of getting a capacitor to have moving plates that can be tuned. Instead, a commercial capacitor might well work. The other advantage is that the energy density would be within the magnetic side of the device, so

Turtur's paper proposes a way for theoretical construction of a zero-point-energy converter in the kilowatt range.

harvesting is at that level instead of at the electrostatic level. The device then has the tuning motion coming from an electromagnet within an electromagnet, much like an electrosolenoid in simple terms.

The difficulty is in the tuning. The problem in a nutshell: oscillation of an electromagnet within an electromagnet. The solution: rotate a permanent magnet instead.

Part 6 explains the use of the rotating permanent magnet in considerable detail. One key is that Turtur has worked out an algorithm to find the tuning points for a working conversion device. Once one has a grounding in the theory, puts the algorithm to work and builds the conversion device, it should work.

This is surely just the beginning.

Several engineering types would have the skill set to build a device, and it would be no surprise if some inquisitive engineers showed up with working devices in the coming months.

Turtur points out that the device has limitations based in the materials. Magnet rotational speeds are within common material specification ranges. The wire within the coil is going to be an issue, limiting the potential amperage. But that does not mean that the device cannot be scaled up.

21st-Century Energy Breakthrough

Where does that leave us? For this writer, the ZPE concept for now has a theory that can be grasped with working mathematics explaining what's going on. Turtur deserves congratulations: the breakthrough of seeing, understanding and devising a converter of the energy available in quantum oscillation might be the opening point of an energy-filled 21st century for humanity.

But is the theory right and can the device be made to work? Almost everything an engineer would need has been provided by Turtur. The intellectual property is open source now. The test is in the intelligence and application of skill for building a device, followed by a determined persistence for debugging.

One or two of these devices would provide a very energy-dense portable power unit. The market is huge, the production cost looks to be very low, and the operating management seems adaptable to IC chips. This is quite something, if it works. Let's hope it does. ∞

(Source: *Brian Westenhaus, NewEnergyAndFuel.com, 17 February 2011, <http://tinyurl.com/4fyfayu>. Note: Professor Claus W. Turtur's article "A Connection between Gravitation and Other Interactions" was published in NEXUS 11/02.)*

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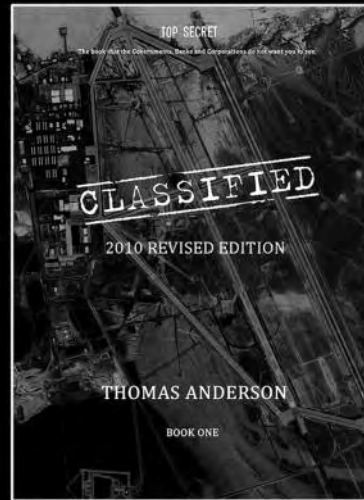
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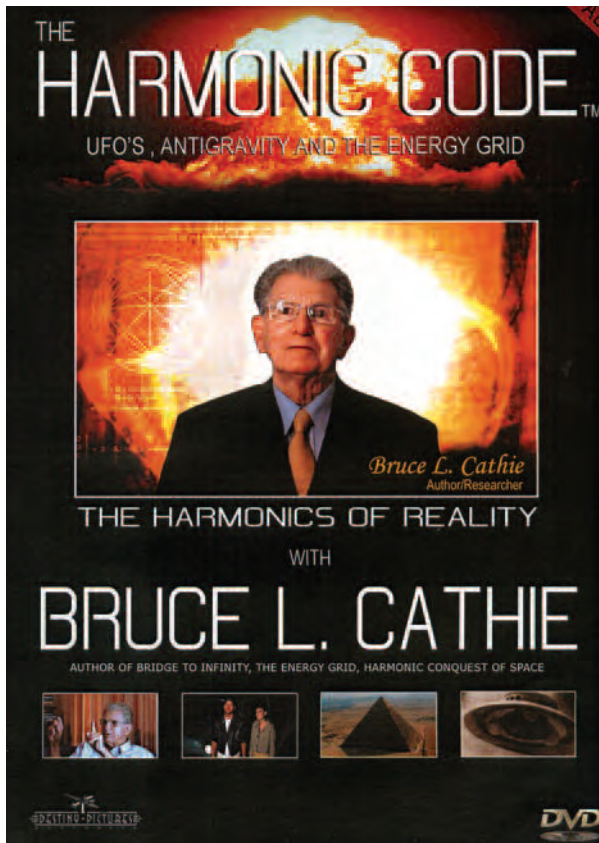
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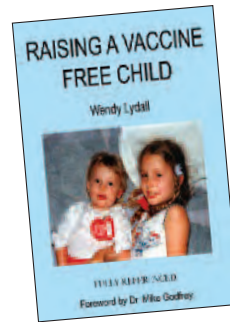
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WHO WROTE THE REPTILIAN AGENDA?

The Nag Hammadi Codices and the Mesopotamian cuneiform tablets both tell of alien intervention with humanity.

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THE ORIGIN OF THE ANUNNAKI SCRIPT

A collector's edition entitled "Secrets of the Da Vinci Code", published by U.S. *News & World Report*, features a brief interview with James Robinson, general editor of *The Nag Hammadi Library in English*. Correcting *Da Vinci Code* author Dan Brown's reference to the Nag Hammadi texts as scrolls, Robinson points out that they are codices—"books with individual pages". "They are actually the oldest examples we have of leather-bound books," he said.

Amazingly, whatever the significance of their content—and we have yet to comprehend what that might be—the Nag Hammadi Codices (NHC) are the earliest surviving examples of bound books. Close reading of these arcane materials shows that the Gnostics, as teachers in the ancient Mysteries were called, were deeply concerned with an alien intrusion upon humankind.

Entities that they called Archons appear to be identical to the extraterrestrials (ETs) of modern ufology. The codices indicate both reptilian and "Grey" types: a *drakonic* type, and a neonate type suggested by the image of a prematurely born foetus. The former are the overlords; the latter, servile robotic drones who obey a hive mentality. The NHC do not contain graphic physical descriptions of these alien intruders, but present ample information to profile them comparatively with the two types of ETs most widely discussed today.

Alien Profile

Perhaps one-fifth of the intelligible material in the NHC concerns the origin, methods and motives of the Archons, also called "authorities, governors". Their name derives from the Greek *arche*, "first, from the beginning", because, according to Gnostic cosmology, they emerged at an early stage of the solar system *previous to the formation of the Earth*. These bizarre entities may be regarded as a locust-like species of cyborgs with silicon-based bodies so designed to permit only brief forays into the Earth's oxygen-rich atmosphere. They inhabit the solar system at large, travelling among the planets in alien-engineered spacecraft. Gnostic texts hint that they may be compared to custodial engineers of the inanimate clockwork mechanism of the system. Some, but not all, UFO sightings and abductions may be attributed to them.

Although Archons do exist physically, the real danger they pose to humanity is not invasion of the planet but *invasion of the mind*. The Archons are intrapsychic mind-parasites who access human consciousness through telepathy and simulation. They infect our imagination and use the power of make-believe for deception and confusion. Their pleasure is in deceit for its own sake, without a particular aim or purpose. They are robotic in nature, incapable of independent thought or choice, and have no particular agenda except to live vicariously through human beings. Bizarrely, they are able to

pretend an effect on humans which they do not really have. For instance, they cannot access human genetics, but they can pretend to do so in such a way that humans fall for the pretended act, as if staged events were taken for real. In this respect, Archons are the ultimate hoaxers. This is the essence of "archontic intrusion", as I call it. The trick is: if humanity falls under the illusion of superhuman power, it becomes as good as real—a self-fulfilling delusion.

In the cosmic perspective, the Archons present a dynamic aspect of the evolutionary scenario of humankind, through which human potential is tested. The Gnostic view of their role closely matches the "flyers" in *The Active Side of Infinity*—the last book of Carlos Castaneda, who says that the flyers are "the means by which the universe tests us". There are numerous close parallels between Castaneda's and Gnostic teachings.

This profile of the Archons is not speculative. It follows what can be gathered from the Gnostic writings. For instance, NHC texts describe how the Archons attempted to rape Eve—clearly a mythological rendition of genetic intervention. Such passages appear to support the claims of alien interbreeding so widely discussed today. But in the Gnostic account, the alien intruders did not succeed in this act of cross-species intervention: they *tried*, but *failed*.

The notion that Archons present a test to humanity—explicitly stated by Castaneda, if one accepts the Archons/flyers correlation—can also be traced in some NHC writings, especially *The Apocryphon of John*. This text suggests that the Aeon Sophia, the cosmic intelligence of the Earth, engages the Archon species and uses its deviant and deceptive influence for such a purpose. The account of how the overlord of the authorities "committed adultery with Wisdom [Sophia]" and binds humanity to "a chain of blind compulsion [*heimarmene*]" is baffling, to say the least (NHC II, 1:28.16).

To sort out and clarify what the Sophianic narrative may have to say about the test of the Archons is a great challenge to our understanding of the Gnostic message and how it can benefit humanity today.

Cuneiform Lies

So, the earliest surviving documents in book form, the Nag Hammadi Codices found in Egypt in 1945, contain an account of alien intrusion with descriptive clues on the physical form of the intruders. But what about the *earliest known writings in any form*?

Archaeologists tell us that cuneiform writing was invented in Mesopotamia around 3200 BC, long before

bound books appeared. The cuneiform record on clay tablets presents a fascinating repertoire of stories about human prehistory.

Cuneiform texts such as *Atrahasis*, *Enuma Elish* and *Enki and the World Order* describe an alien race called the Anunnaki—"those who from heaven to earth came", as Zechariah Sitchin translates that term. Sitchin is well known for his densely researched books on the Anunnaki, whom he identifies with the biblical Nephilim and the Watchers of the Book of Enoch. These are alien entities who "came into the daughters of men", as Genesis says. In short, they interbred with the human race.

Assumed to be factual, the Sumerian tablets give an account of alien intervention upon humankind by a master race from another world or dimension. This is "the Anunnaki script", as I call it. Sitchin and many others take this script for a record of actual events in prehistory.

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The tablets describe two Anunnaki leaders, Enki and his half-sister Ninursag, who produce a hybrid slave race by mixing their divine genes with the inferior genes of the Lu-Lu, the indigenous ape-like peoples of the planet. Thus, an alien "interbreeding program" is central to the Anunnaki narrative. This is also a key event in the "reptilian agenda".

Indeed, the story of Enki and Ninursag may be considered

the foundation myth of that agenda. A foundation myth is a story that legitimates a social or cultural custom or order. It is worth noting that the Anunnaki script is the foundation myth of theocracy, rulership by the gods or descendants of the gods. The ancient theocrats claimed descent from the reptilian alien race.

It is an indisputable fact that this story is written down in the oldest surviving records, but is the story *itself* a fact? And if Anunnaki intervention were not a fact, but a fiction presented as fact, how would we know? How would we be able to tell the difference? What critical faculties would be required for such an exercise of discernment?

How amazing it is that the *oldest known writings* and the *earliest surviving books* both tell the same story! The cuneiform tablets and the Nag Hammadi books both describe an alien intervention scenario. To my knowledge, no attention has yet been given to this remarkable coincidence.

But hold on a second. There is a huge difference in the way that these two sources handle the foundation myth of the reptilian agenda. The cuneiform record presents alien intervention as if it were solid fact, an event that really happened in prehistory.

By contrast, Gnostic writings in the NHC put the story of the Anunnaki (called the Archons) in the cosmological perspective of the fallen goddess myth, then analyse and deconstruct it in quite rigorous terms. The trained seers of the Mysteries had a definite fix on the Anunnaki, including a view of their origins and motives, and within that view they took a critical approach to intervention. In short, they deconstructed the Sumerian narrative and exposed part of it to be a fabrication, a lie.

The cuneiform record itself is just a story, without critical commentary. We are not told the source of the story, who authored it. By contrast, we know that the NHC texts come from Gnostic sects of the pre-Christian Mysteries. Although almost all the authors remain anonymous, we know them as having been participants in that ancient tradition of spiritual education, the Mystery Schools.

The resident seers of those organisations took special interest in a panoramic view of human evolution, with particular attention to interference from non-human channels, but they did not report that the human species has been engineered by alien forces. Several passages in the NHC describe the "alien interbreeding program", yes, but always treating it as a *failed venture*:

"The Archons came to Adam. When they saw Eve talking to him, they said to each other:

"What sort of creature is this luminous woman? ... Now come, let us lay hold of her and cast our seed into her, that she may become soiled and unable to access her inner light. Then those whom she bears will be under our charge..."

"But Eve, being a free power, laughed at their decision. She put mist in their eyes [and escaped them]."

(*On the Origin of the World*, NHC II, 5:116.10ff)

This is one of several riveting passages that show Eve, the primal woman who represents the human race, outwitting the Archons. Another text describes how Eve leaves her "phantom image" for the Archons to defile, but they are unable to access her body, i.e., human genetic structure. If the Gnostics knew what they were talking about, and were not themselves merely fabricating a tall tale, the Archon/Anunnaki race did *attempt* to interbreed with humanity, but failed.

If this is true, the cuneiform record is false, a deliberate fiction intended to deceive. It is *mythological*

disinformation. That possibility must be allowed, but can it be investigated?

Consider this: actual alien intervention in human genetics would have an effect, obviously, but equally so would a *false claim of intervention* were it taken for real. The physical and evolutionary effect of genetic intervention, however, would be impossible to trace without samples of pre-intervention DNA to compare to modern DNA. So, even if it is literally true, the cuneiform story cannot be confirmed, or denied, scientifically.

Testing Credulity

There is no way to prove the effects of actual genetic intervention in a remote time, but the effects of a hoax purporting such intervention can be investigated. Gnostic seers appear to have understood that the interventional power of the Archons is pure fakery, like the special effects of the Wizard of Oz.

But for humanity, imagination is powerfully real and directs our purposeful behaviour in a crucial way: we have first to imagine a goal or objective in order to pursue it. Presented with a decoy in place of a real objective, we will pursue the decoy and adapt our behaviour to a false set of events. The Sophianic story about the testing of the Archons may refer to the risk of pursuing fake objectives, such as a "war on terror", when we fail to apply our intelligence to the quest for a true version of events.

The Archon story tests us, perhaps more than the Archons themselves do, or can do. The intervention story tests human

credulity and poses a riddle: do you accept the power of your imagination to invent something that comes true and use it in that way, or are you in default imaginatively, overpowered by an invention that pretends to be true?

The "reptilian agenda" propounded by David Icke and others is an extrapolation of the Sumerian cuneiform story. If the Gnostic critique of the Anunnaki script is correct, this would amount to the unwitting perpetuation of an ancient hoax.

Icke and others such as Michael Tsarion and Jordan Maxwell appear to be completely uninformed about Gnostic teachings on the Archons. Moreover, they do not question Sitchin's weak points: namely, his inability to confirm the return of Nibiru, the home planet of the Anunnaki, by astronomical science, and his failure (or

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refusal) to describe their physical appearance. Most ET speculators who follow Sitchin assume that the Anunnaki are reptilians; for instance, R. A. Boulay in *Flying Serpents and Dragons*—an excellent book, by the way, and more deeply researched than Sitchin's books in some ways.

Serpentine Wisdom

Another account of the failed rape of Eve occurs in *The Reality of the Archons* (NHC II, 4). Here again the Mystery teachers offer wise counsel concerning the reptilian factor in human evolution. According to the Gnostics, the *serpent* in the Garden of Eden was a benefactor because it advised the first humans to eat the forbidden fruit that opened their eyes to heightened or paranormal perception. *The Reality of the Archons* says explicitly: "The female spiritual principle came through the snake, the instructor."

This passage identifies the psychophysical energy known in Asian mystical practices as *kundalini*, the "serpent power". This electricity-like spiralling energy called *kundalini* belongs equally to the cosmos, the Earth and the human body, integral to our corporeal and spiritual make-up. It has been universally equated with goddess divinities or *shaktis*. Raising *kundalini* is the aim of yogic practices that have persisted for thousands of years.

The serpentine power is also the form of divine energy—intelligence witnessed by countless people who have undergone *ayahuasca* trance. Veteran shamans assert that this serpentine power is an actual dynamism of nature, a supernatural creature to be encountered in the altered state of *ayahuasca* trance over and over again. Sacha Mama, the great serpentine wisdom goddess of the Amazon, is identical with the Rainbow Serpent of the Australian Aborigines. Countless other examples and parallels of the "female spiritual principle" could be given.

But note carefully: *this telluric-vision serpent is not a reptilian entity*. A serpent is a reptile, but not every reptile is a serpent. An iguana, a salamander, a monitor lizard from Indonesia—these are reptiles, but not serpents. No one mistakes a lizard for a garden snake. The snake exhibits a particular legless morphology of the reptilian class of creatures, distinct and separate from other reptiles. But where in all the accounts and analyses of the "reptilian agenda" does anyone make this obvious distinction? So far, nowhere.

The Endowment of Serpentine Power

Whatever the threat to humanity, real or imagined, coming from reptilians such as the scaly overlord of the Gnostic Archons, the gift of the serpent power is clear. In all esoteric systems, eastern and western, the serpent is the agent and symbol of wisdom: Sophia. In Asia and in the Western Mysteries, masters of the coiling energy were called "serpents of wisdom". They were teachers, healers and guides, not power-crazed theocrats or tyrants who claimed descent from alien serpent gods. Gnostic initiates and their counterparts in the ancient world never claimed to be descendants of off-planet deities as theocratic rulers did, citing the Anunnaki script.

The benevolent and healing *serpent power* is a spiritual birthright that bonds the human species directly to the planetary goddess. *Kundalini* is essential to the wisdom endowment that nature has implanted in us for sanity. Countless myths attest to the beauty and power of the serpentine connection. Eve, the instructor, did not merely eat the forbidden fruit presented by the snake in Eden: she herself is an instrument of the serpent power.

The role of this power as a teacher, healer and visionary guide to the human species is immeasurably great, and the record of its presence stands out everywhere in ancient mythology, mystical and esoteric traditions and indigenous lore.

The *form* of the Archons or Anunnaki ETs is reptilian (*drakonic* in the NHC text), but the *faculty* built into our psychosomatic structure, by which we detect and repel alien intrusion, is *serpentine*.

To confound the divinely endowed serpentine power integral to our biopsychic functions with the alien reptilian menace is grotesque, a ridiculous error. The difference between the two is as clear as day, once it is pointed out. No one doing research into ancient esoteric and mythological lore should fail to note that difference.

Writers such as David Icke dwell on the reptilian menace as the problem facing humanity, but ignore the serpentine endowment provided as the solution to that very threat. They explain in detail the fight-or-flight impulses of the R-complex or reptilian brain without a word on the serpent power that resides in the spinal column or how it informs the subtle anatomy of the *chakras* and enlivens the entire network of the autonomic nervous system.

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Gnostics from the Mysteries taught that we must recognise our benign serpentine endowment to face the intrusive reptilian influence. The Gospel of Philip describes the use of the serpentine power *kundalini* to repel alien intrusion.

Today we hear claims regarding reptilian aliens, of how they manipulated us genetically in ancient times, of their horrific rituals and shape-shifting powers, of how they are running the world, etc. Unfortunately, most of the chatter on the "reptilian agenda" ends up providing hype for the scaly intruders, who, in my opinion, are enormously overrated.

Gnostics taught that the signature of the Archons is *hal*, the Coptic word for "simulation". They warned us in no uncertain terms to distinguish between what the Archons can actually do and what they merely simulate with the alien technology of VR, virtual reality.

These cosmic cousins of ours may be lolling in perverse delight at bringing humanity down to their level, turning us into monsters of aggression and conformity, slavish control-freaks. But their game or test is not what it appears to be, if they prevail by tricking us to annihilate ourselves.

What if Arch-*con* looming power over us depends upon the *con* we perpetrate in our own minds, giving our power away to them?

Imagination fuelled by *kundalini* gives total immunity to alien intrusion is what the Gnostics taught.

Channelled Fiction

To return to the coincidence that the oldest bound books and the oldest written records treat the same scenario, the "reptilian agenda" stands or falls on how we view the cuneiform accounts, the oldest version of the alien intrusion plot. It would be irresponsible to ignore the deconstruction of those accounts found in the Nag Hammadi Codices.

Finally, we might ask, "Who wrote the cuneiform stories?" The answer is: scribes in the service of the Sumerian theocrats. This answer is incomplete, however, because scribes just write things down; they do not originate what they write. Who then originated the intervention stories taken down in cuneiform by scribes? I propose that it was soothsayers and advisers in the service of the theocrats, the patriarchal tyrants of the Fertile Crescent.

No ancient royal court was without a Chaldean, or psychic medium, if not a whole team. Is it surprising that psychics advising the theocrats would produce a story to please their masters—specifically, a story

making the tyrants out to be descendants of "gods" and, at the same time, slaves (albeit privileged ones) to the higher race that claims to have created them? This message is schizophrenically ambivalent and, as such, totally consistent with the split-mind bias of channelled material and the mentality that produces it.

The Second Treatise of the Great Seth in the NHC asserts the bold heretical view that Abraham, Moses, the Patriarchs and even Jesus the Messiah were duped by Archons. They suffered a false sense of grandiosity based on the illusion of being chosen by the off-planet father god, Jehovah, whom Gnostics identified with the Archon overlord, a nasty reptilian called Ialdabaoth.

The same observation of duping can be applied to the egomaniacal patriarchs who founded the first city-states in the Near East. They bought the Anunnaki script hook, line and sinker because it fed their pretensions of descent from superhuman masters and legitimated their enslavement of the general populace.

The story telepathically received by their advising soothsayers was highly appealing because it provided a *divine mandate for their schemes of world domination*.

Plus ça change, plus c'est la même chose ("The more it changes, the more it stays the same").

The picture of global *realpolitik* is not much different today. Now, as way back then, reptilians may appear to be

running the show, but this can be so only if human complicity, and credulity, enable them to maintain the illusion of power that they do not have.

In reality, the "authorities" rule by the power of illusion, not by actual and veracious power. Gnostics would insist that actual power on Earth *comes from the Earth* through humanity's bond to the planetary goddess whose name means "wisdom", Sophia, and whose instrument is *serpentine*.

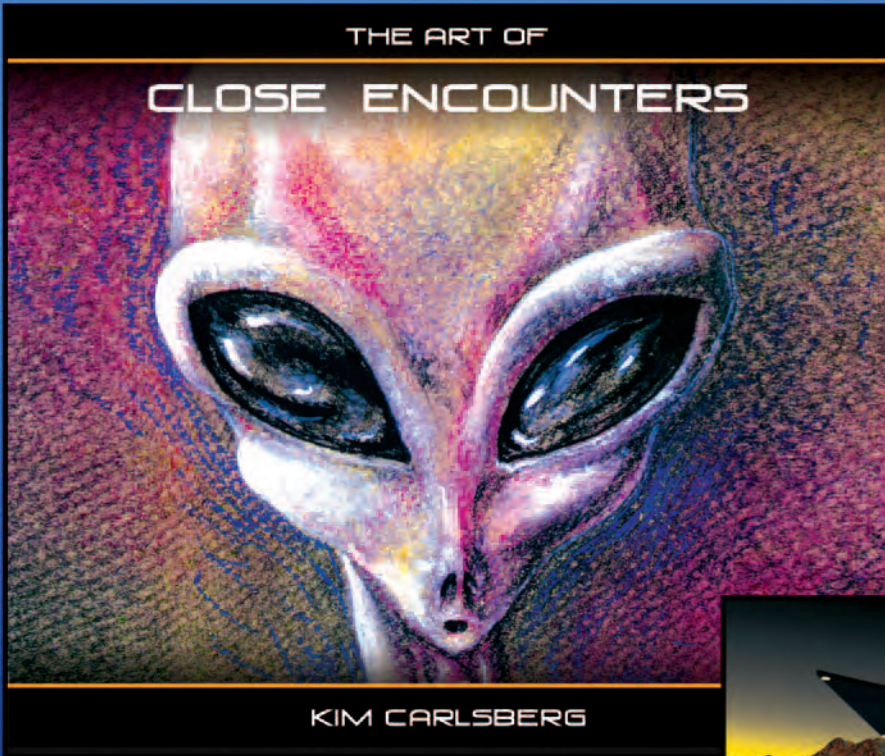
It may be that the Archons fed the Anunnaki script to ancient mediums to plant a lie in human imagination, as a test which Sophia allows them to perform. (Such would be my best shot at a brief paraphrase of the baffling passage in *The Apocryphon of John*.) But if the cuneiform stories are the product of psychic channelling in ancient times, then how reliable are they?

The scant material surviving in the NHC reflects the record of trained seers who worked in teams over millennia to explore the supernatural and investigate the prehistory of the human species.

The Gnostics who detected the Archons were experienced in parapsychology and had a cosmic

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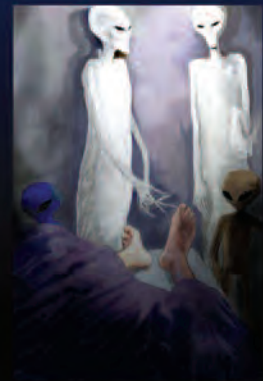


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**"CoEVOLUTION" REVISITED:
CONVERSATIONS WITH AN ALIEN**
by Alec Newald © 2011

New Zealander Alec Newald claims that in 1989 he was abducted for 10 days by benevolent extraterrestrials and taken to their home planet Haven. His 1997 book CoEvolution is an account of many of his amazing experiences. Alec has decided to release more revelations, as you'll read below. Editor

Here you will find information that I held back from the manuscript of my book *CoEvolution*. I did not want great sections of my personal thoughts and attitudes to be on public display, as my life had been ripped apart by this whole affair and I was a little tender around the edges back then.

Meetings with Zeena

I wanted to learn more about the times during my early childhood when I would set out for school in the mornings but never seemed to arrive. I can still recall "awakening" in the afternoon on the back steps of a church near my home. As was normal

with many conversations with Z-5, an alien for want of a better word, I received far more information than I knew what to do with or comprehend at the time.

It was during one of these conversations that I learned that my host and others of her kind knew me by another name. To them I had always been known as Anu. The ancient spelling of this name has often been recorded through history as simply An. Strangely enough, these are my Earthly initials in this very lifetime, or at least the two initials I use the most. I have never used my middle given name. Perhaps we cannot entirely escape our past. Or is there a deeper reason, perhaps as a reminder?

I was soon to learn that our lives are dotted with signposts to help show us the way and to remind us of our goals and intentions. It's just that most of us forget to watch out for them or are unaware that we are even following a path, as happened to me.

At this point, I need to tell you that I didn't really like the idea of communicating with an entity whose

name tag was more like that of a robot, so for my personal comfort I bestowed upon her the more Earthly name of Zeena. She seemed to accept it as readily as I had accepted mine.

Zeena continued to answer my questions about my missing childhood school time, during which I attended "other" lessons it seems.

"You don't remember the lessons but still they influence your life path. You follow the teachings from day to day; your Higher Self never forgets," she explained.

I looked at her. "But my life has been very average. How could this be the chosen path of my Higher Self?"

"Do not think so negatively about your wonderful life on Earth, Anu. Have you not always followed your passions?"

"Well, yes, I guess so," I replied.

"You need not guess. We, I, can read your entire life path right to this very moment."

I must admit that this rocked me a little.

"Are you telling me that everything I have ever done you know about?"

Zeena looked to comfort me.

"Not every detail; just the imprint of your intent, your joys, your sorrows—your emotional imprint. By following your passions, your soul or the spirit of your Higher Self has been bathing in the wondrous excitement of these physical endeavours. By the very act of following what excites you, there is very little negative energy attaching itself to your physical framework.

"It might be best described as getting itself tangled in the wiring, for it is not so much a physical illness but a mental one. I had best be careful here, or you might misunderstand what I am trying to say. Negative energy is what causes most illness among your kind. Surely you have noticed how you never have any serious sickness? We are very interested in this aspect of your physical make-up. We need to know how to be healthy on your planet, also. We may know the theory to these things but we need to study the practical application of this theory. In that way, you have been most helpful to us; you might say, a living experiment."

I did not quite know what to make of that last statement. I must admit it made me feel a little uneasy.

Hidden ET Bases on Earth

Zeena continued once again.

"In the past, when some of our people tried to live in isolated outposts on Earth, they quickly became ill and many died. One such outpost was a very small island in your southern oceans, known to your people as Southern Thule. This was before the base was compromised by unfriendly forces.

"We tried to live there underground to remain undetected and private, even though we had permission to use it as such by the governing body in control of that small piece of land. Mostly we had to live beneath the surface because of the extreme weather conditions in that area. This

was a test laboratory, if you like; a place where we experimented with ways to overcome the dangerous toxins in your atmosphere and underground, a place to allow our young people to acclimatise to Earth's conditions.

"The reason I raise this point is that we have tried to live on Earth already but found our metabolisms unable to cope with the negative forces and energies that pervade your planet. Mostly this has to do with the dark energy I mentioned earlier, which is not a native but a hybrid visitor

"... increasing storms and very unusual weather in all parts of your planet ... is part of an unseen war which is in fact a mind war to this point in time, but it could become far worse than that."

designed to do the work of others. You don't realise how much resistance you have built up as a race, naturally combatting this parasite. But we have little or no immunity to it and need to boost ourselves quickly and effectively. This is where you once again have been of help to us, Anu.

"I know you have been unaware of the parasite's existence until our meeting, but still you build your immunity naturally just as you do with any unseen germ."

At this point I had to butt in.

"Southern Thule? I thought you said earlier it would be too dangerous to give out locations on Earth that you have been using as bases, just in case someone manages to get inside my mind."

"Yes, it would be," she replied, "but we no longer use it. Perhaps one day we will take you to our new base;

another visit, perhaps another time when we think we are ready to show you the new 'us'."

The new "us"? I could only ponder on the meaning of that small word.

Zeena continued to describe what had happened to base number one.

"As if the parasitic force were not successful enough in killing off some of our kind, the base was also attacked by human forces. Of course, they could not damage our underground facilities from a surface attack. It was just a statement as if to say, 'Time to move on before we get serious about evicting you'. Some landlord—and this from the very ones that many years before said we could use the land."

I had to ask, "Who had given you permission?"

"Your so-called world government, the ones that control you when the dark force is taking a holiday. The 'unseen ones' to you, perhaps, but we know them only too well. However, it might well be that there are others now in control of this; we are not yet sure."

Zeena then continued to help me come to grips with what she was trying to say.

"I have gained permission from the Elders to help you understand better what this coming war might be like. We have already told you there will be increasing storms and very unusual weather in all parts of your planet. This is part of an unseen war which is in fact a mind war to this point in time, but it could become far worse than that. Please let me explain why this could be so.

"The Earth and you are not dissimilar. The Earth has a body just as you have. The Earth also has a consciousness just as you have. Your consciousness resides outside your physical body. The air about the Earth contains its consciousness. The Earth has been infected by the dark force both in mind and body.

"When I said you had built up a resistance to the force, this is only so far as the infection within the consciousness is concerned; in other words, the infection within the atmosphere you are resistant to, but you have not yet been exposed in full to the infection within the Earth's body.

"When we set up one of our bases at Southern Thule, there was good reason for this: not only was it isolated, which suited our work, but it was also infected beneath its surface with what I could call a 'black plague'. It is like a concentration of negative energy.

"We wanted to see if we could nullify this plague before it made its way to the surface by accident or design. It is easier to control if it is kept near zero degrees, so it was best to work with it in the colder regions of your planet. Heat appears to be its friend. If it were ever released into the tropics, I don't think we could deal with it. Our interests as well as yours are endangered here somehow. We must prevent this exposure.

"It was a set-back to have our project at Southern Thule shut down, even after our friends in Argentina tried to help. We have since moved to another location. Our work continues; it is not over yet.

"We have even stronger friends than those in the south of the Americas. Perhaps one day you will know this, but never forget that we are not friends of those of the stars and stripes. If someone tells you your ET brothers and sisters are coming and to hold your hands to those that come to visit with the stars and stripes, let it be said

there is danger in the air, for this could never happen.

"The battle in the atmosphere is the outward sign as the storms build in intensity, so those manipulating the forces are becoming more and more desperate. Perhaps this will be a good sign for you because, as some of you say, the darkest hours come before the dawn.



"Perhaps the best sign of the war's end is the appearance once more of the gold coin. I do not fully understand your monies and how you rate their worth; to us, gold can be food. You know this, for you are now partaking of it. We have seen the value of gold come and go with your peoples many times over the past few millennia. Perhaps today it is worth its least, as you do not use it as monies as you once did.

"Those of you who are our greatest enemies do not want the true value of gold to be known, so it is predicted

that when a gold coin once again has true value to your people the war will end. It is difficult for me to explain because, as I said, I do not understand some of your values, and your food I understand even less."

Protecting against the Parasite

My next question.

"How can you transfer my protective abilities against this parasite to yourselves if you suggest it is just a case of a natural build-up of immunity due to constant exposure and if it is not so much a disease but a controlling energy force?"

"You might be surprised at what we can do, for it is not your terrestrial body that carries the immunity; it is your conscious outer self which wears this new armour," Zeena assured.

"You might recall I said earlier that it was more a case of your wiring being affected than your physical body; and as you are really one of us that just happens to be wearing a terrestrial suit for the

time being, it is not such a big deal, as you might say, to slip you out of your suit for a short period of time and try to synthesise or clone your other self. From that we will learn much."

"You said before that if I wished *not* to remember any of this interaction, you could wipe my mind of it. What if I chose to remember?"

"Then we would have some work to do," Zeena commented. "There is a process you need to go through upon your arrival back on Earth that normally edits your memory of everything that has happened off

planet. It is just the physical process of fitting you back into the normal state—what you might call a denser being, a more compressed self.

"The new material you have taken in, the new information, never sticks. It is like your dreams. In fact, it is exactly like a dream memory. Some very small fractions you might remember, but quickly the details will fade and, try as you might, you will lose most of your recall. The only way we can restore it is to feed it back to you once again in dreams, only over and over again until finally it becomes a normal memory of a normal event. But even this does not always work. It is, as you say, a hit-and-miss affair; and as well as that, it will only work if we are in Earth time and space. I can't do it from home. I, we, need to be in your airways, so to speak. Do you understand what I am saying?"

"Well, yes. It sounds like a difficult job, kind of labour intensive. I can see how you would not want to do it to everyone you put back," I replied.

"Exactly, and it might be best for you if you don't remember, because from experience I think you will never be able to live a normal life again if your memory of this is fully restored. You should weigh the pros and cons of this very carefully. You are still young in Earth years, with most of your life ahead of you. Even if you are exceptional, I doubt you will survive to live a normal life—or worse, it could very well end your life if you try to convince the wrong people of what you have seen and done.

"This is very dangerous territory and there are many on your planet that would rather see the back of you, I think. I hope I am making the dangers clear to you, Anu. I do not want to be responsible for harm coming your way."

Reviewing Childhood Memories

"So this is why I can't remember

what happened to me when I was a young boy?" was my next question to Zeena.

"Not exactly. We never took you off planet when you were young. We presented you with a holographic classroom or learning centre. We simply made you invisible to others while this was being presented to you. You simply stepped out of your time zone for a short while. In actual Earth time, mostly you were never gone for more than a few moments. It was only very occasionally that you might have had some missing time: I mean, real-time outages where you don't

"We never took you off planet when you were young. We presented you with a holographic classroom or learning centre. We made you invisible to others while this was being presented to you."

remember what happened for part of a day. This is very disruptive and we try not to do it very often. It would have been important, whatever it was that could take away some of your real time on Earth.

"If it helps you at all, it is only the young, who are very important to us, that this would ever happen to. Please believe me, Anu, when I say that we care very much for you. We always are trying to protect you. We know that by interacting with you there is always a chance we could endanger you. But ultimately it was always your choice to live this life: that is a decision you made before you were born. I did not see you choose your life, but I know you would have been privy to most of the ups and downs of your life choice. We always are. You, me, the rest of the world's population have all made choices.

"It is difficult to say this, but you should never really feel sorry for anyone. They are mostly living their chosen life within a small degree of alteration. But this is a very deep subject and I am perhaps not skilled in this area to give out too much information. If you need to go deeper, I would refer you to my Guardian, the Elder you met when you first came aboard, for surely then you would know more than you could ever imagine. This is another place it is dangerous to tread, because to know too much about the life you are living is to endanger its existence.

"Forgive me, Anu; I must leave you for a short time. I feel I need guidance before I say or do more."

Acclimatising to a New Light

This was the first and only time that Zeena had excused herself almost in mid-sentence. Never before had I seen her falter in her presentation of information to me. In many ways, it only endeared her to me all the more to know that she

was not just an infallible machine regurgitating information like some computer program. It made me see her in a new light—a better light, in fact.

But that is a dangerous road for me, and one that I would rather not travel down in relating my experiences to you right now. For I was not sure how I should feel towards Zeena. I was still a stranger in a strange land, in spite of what was being presented to me. I could still feel the resistance from many of the crew when I was nearby, perhaps with good cause on their behalf because of the dangers they face from humans when they come anywhere near Earth time-space. But, all that aside, I was on my own here. I felt that one wrong move from me and things could get very interesting in the wrong sort of way.

So once again I was left to my own

devices to roam the transporter, or platform as I heard some of the crew describe this machine that could traverse time-space and dimensions just as easily as we would cut cake...

When Zeena joined me once again to carry on our conversations and her explanations, she almost seemed like a different person. For some reason, she seemed to have lost her self-confidence. Through this I felt another side to her, a loving gentleness not easily detected before with her aloof, matter-of-fact form of presentation.

We mostly had these talks in what I called the "oval room", the number one recreation room, I guess, for crew and passengers. It's surprising how soon you can get used to something that at first might have taken your breath away. Not enough that Zeena had a blue body and looked just a little more than unworldly. Not enough that I looked the same. But here we were in a room that had no corners, no lights, but was never dark. Constantly the room would change colour from a light green to a pink or purple, then go back to a creamy silver. I still had trouble gauging distances in these curved rooms: they did not always look so big, but it took an age to travel from one side of them to another.

I now rarely needed any sleep, and not eating or even desiring hard food seldom crossed my mind as strange any more. Talking without sound was another aspect of life that I was starting to get used to, although I would occasionally catch myself speaking words as I communicated to Zeena.

The Bigger Picture

So my questions drifted back to life or, to be more precise, life before life. I wanted Zeena to expand on her explanation about our life choices. I had felt she was about to describe something of importance and certainly

of great interest to me when she pulled back from the conversation and excused herself.

For the first time in our interactive relationship, I felt a hesitance from her to proceed with an explanation.

"Perhaps I should approach this subject from another direction," she suggested. "One of the main reasons there is resistance from my people to interact with the Earth's population to a more expanded extent is because of your belief systems or understanding of the self.

"... your people are not yet ready to embrace the truth. This is not to put the people of Earth down, for they are but puppets at this time in your history. If we could declare all the truth at one time, your civilisation would most likely collapse ..."

"We are constantly underwhelmed by your sciences, which appear to be held in such high regard by your peoples. Your scientists appear to be diligent in their endeavours, but darker forces control them. Their vision is confused by their inability to expand and combine the knowledge they hold.

"Small sections of knowledge are never combined so that a bigger picture can be seen. In this way they are controlled, because the right hand never knows what the left hand has discovered and vice versa. Those among you gifted enough to be able to see all are quickly dispatched by the unseen ones and your history books mostly deprived of their contributions, so you all remain deprived of your true history and an understanding of what being human is all about.

"The non-physical aspects of life on Earth or life in a human body have generally been ignored by your sciences at the direction of the darker

forces. The science of your churches, which you might expect to discover and reveal this subject to all, has been corrupted also, but you know this so I do not need to expand on it now.

"Still, I hope this gives you an overview of just how extensive the censorship of your knowledge about the self is, and how it continues. Without this knowledge, you are but children and easily controlled. You could be turned against us at the whim of the unseen ones, and anything we might tell you would be looked upon with more than suspicion.

"To condense what I am trying to say here, your people are not yet ready to embrace the truth. This is not to put the people of Earth down, for they are but puppets at this time in your history. If we could declare all the truth at one time, your civilisation would most likely collapse—and this we do not wish to see."

Confronting the Truth

"So what is all this about, then?"

I had to ask the question. My mind was flooded with the confusion of having been told so much, and at the same time told that this was information I was not ready for!

"Why are you telling me this? What can I do with this knowledge? Not that I know much of what you talk about, but, even so, why tell me this if you feel I am not ready or the human race is not yet ready to deal with it?"

"I have to tell you because you asked," Zeena replied.

"It is strange that you still do not realise you are not one of them. You are one of us. I am trying to remind you of that which you already know but have just forgotten because of your circumstance. You need not repeat any of this information to anyone if you so choose. It is for your benefit that I recite this account of life on Earth.

"It has been suggested to me that

perhaps it would be better for us and for you to keep most of this information to yourself in the short term. Perhaps, at some later stage in your life on Earth, you might consider that the information I am now sharing with you is ready to be passed on to others. This we will leave to your judgement, but, for now, treat it as a reminder of the way things are. We feel it could be of help to you in the trials which will confront you after your return to life on Earth.

"Now, if you wish, I will remind you of what your sciences have yet to discover about the non-physical aspects of life on Earth."

I duly indicated that I wished her to proceed.

"You have two bodies back on Earth, the physical and the non-physical, so you never walk alone. Most on Earth intrinsically know this, but your science is working hard to disavow the fact. What we are trying to do in our experiments and visits to Earth is to fuse the two aspects of humanity into one whole; in other words, for you to be aware of the other self. We have failed thus far in our experiments. If we should

succeed, the unseen ones would lose control over the population of Earth, the Sun would shine a different colour, the deserts would bloom again and Eden would once more become the garden of plenty.

"Those that dwell in an existence close to yours draw off the light, for they live in a darker world. They extract the life force from your planet in a way that not only drags down your own moral fortitude but depletes nature's energies as well.

"Only a few of your kind have stumbled upon the existence of this other world, and they have been dispatched and dealt with by the unseen ones and their corrupt legions that dwell among you. Many of your own kind have given themselves to

this force for a token moment of personal glory, which is all that each life on Earth really is—only a moment of your personal history, a blink of an eye.

"So this is the dark force I often speak to you about. As I have described it to you, it is within you and without. By that, I mean that it possesses some of you while it resides elsewhere," Zeena advised.

"Once again I have diverted from the true subject, that of your choice in this life on Earth. I hope you can find it in your heart to forgive those on Earth that have fallen prey to the unseen ones. If you have no warning of these things, you have little defence. Those that forget the lessons of past lives live

If we should succeed, the unseen ones would lose control over the population of Earth, the Sun would shine a different colour, the deserts would bloom again and Eden would once more become the garden of plenty.

the same mistakes over and over until they at last recall them. Many among you are weak and fall prey to an easy life path, which the unseen ones are only too happy to provide if they gain from such.

"Before being born, you were given a glimpse of your life path, for a labyrinth of choices always comes your way as you navigate towards your chosen goal. All lives are chosen as lessons. You feel a need to improve some aspect of your being? A life path is chosen to help with this learning. Often you can be distracted, the chosen path forgotten, and the lesson does not take place. So you must attempt it over again. For some, this can happen many times before any progress is made.

"The glimpse of your life before it takes place is to help you remember which choices to make if you are to reach your goal, but still it is easy to forget. Just as you forget your dreams when you awaken from sleep, so it is easy to forget your chosen path once you are born. Practice makes perfect, as your people say, and as one lives through more and more experiences it is easier to focus on the goals that have been set. So the older, more experienced soul has fewer distractions, does not get hooked into power plays, does not sell out to the highest bidder and usually stands out among your kind for totally different reasons than those that are glorified by the promoters of fame and fortune."

∞

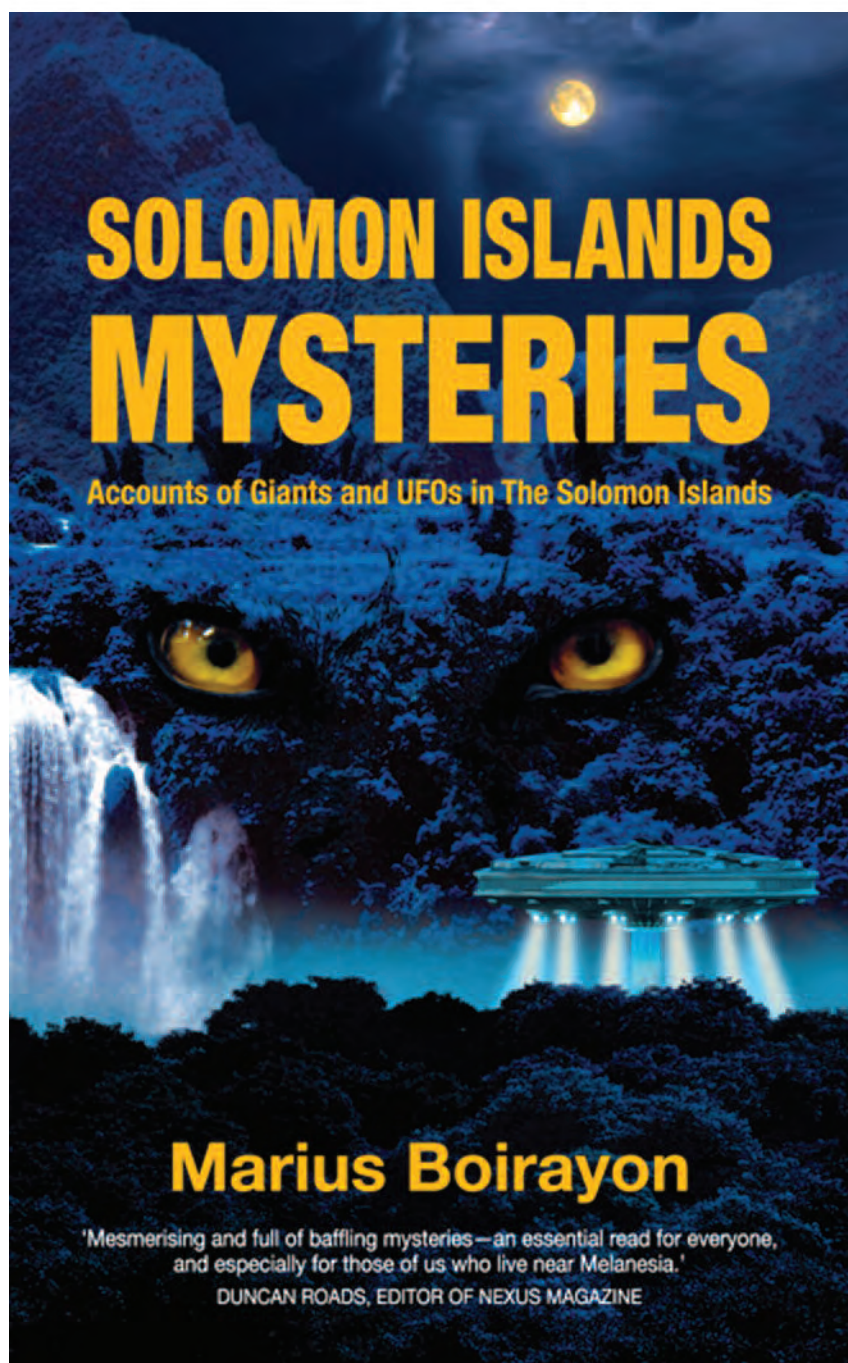
About the Author:

Alec Newald has been a professional yachtsman and sailmaker for most of his adult life. At the age of twenty-four, he started his own sailmaking business and has been working for himself almost ever since. For a short time, he delved into the world of motorsport and running his own car-sales business before returning to sailmaking.

Alec Newald is the author of *CoEvolution: An Interplanetary Adventure* (NEXUS Publications, 1997; available at <http://www.nexusmagazine.com>; reviewed in NEXUS 4/03, with extracts in 4/02 and 16/04). Alec has additional chapters and updates on events since the mid-1990s to include in a second edition of *CoEvolution*, to be released by NEXUS Publications later this year. He is also seeking a publisher for an adventure novel built around his extraordinary experiences.

Correspondence for Alec Newald should be sent care of the Editor, NEXUS Magazine, PO Box 30, Mapleton Qld 4560, Australia, or via email at editor@nexusmagazine.com or the website <http://www.nexusmagazine.com>.

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REVIEWS

BOOKS

Reviewed by Ruth Parnell

THE ARCHETYPAL COSMOS

by Keiron Le Grice

Floris Books, Edinburgh, UK, 2010

ISBN 978-086315-775-2 (328pp tpb)

Available: www.florisbooks.co.uk

We stand at a pivotal point in human evolution and are being challenged on many levels: cultural, political, ecological and spiritual. How can we make sense of these uncertain times? In the view of philosopher Keiron Le Grice, PhD, we need a coherent framework in which to understand our plight and give direction for a future of integration rather than fragmentation.

A new archetypal astrology could provide the answer: a synthesis of the insights of depth psychology, borrowed from Carl Jung, and comparative mythology, influenced by Joseph Campbell, combined with the new scientific paradigm thinking of theorists like Bohm, Sheldrake, Grof and Swimme. Scientific rationalism has dispelled the importance of myth in our modern lives, and yet the new science is revealing the connection between the inner realm of the psyche and the outer realm of the cosmos.

Archetypal astrology, with its emphasis on a mythic perspective that includes the hero's journey, is imbued with principles that can bring us into a meaningful conscious connection with the deeper cosmic order that shapes our progress. It can succeed where religion and science fail us. The hero's journey can become that of each individual and reunite us with the natural order along a path laid by our ancestors in deep antiquity. Humanity has much to gain from this synthesis between planetary cycles and the dynamics and patterns of human experience.

A new, meaningful, spiritual era is at hand, promises Dr Le Grice.

AFTERLIFE

by Barry Eaton

Allen & Unwin, Crows Nest, NSW, 2011

ISBN 978-1-74237-484-0 (286pp pb)

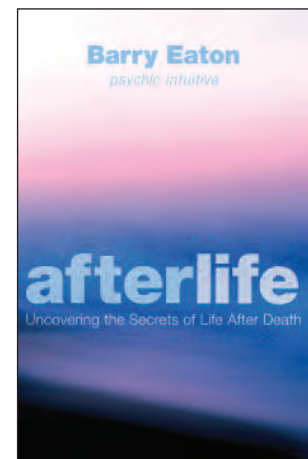
Available: www.allenandunwin.com;

This stunning book describes the passage from life through death and into the afterlife—as much as it can be grasped by us on this side of the fence. *Afterlife* is the first book by long-time Australian radio and TV presenter Barry Eaton, who has worldwide audiences for his Net-based RadioOutThere.com and RadioNEXUS programs. A psychic himself, Eaton has had many like-

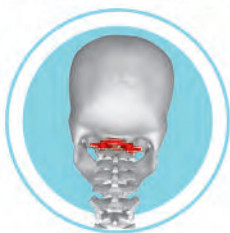
minded friends make an impact on his life, and he retells his and their stories with sensitivity and clarity.

Age-old questions to do with fear of death, where we go when we die, and whether there is punishment for suicide are all covered here. There are reports on ghost hauntings, the light at the end of the tunnel, the astral healing centre and soul families. There are activities in the afterlife, communications beyond the grave and preparations for the next life to consider. Eaton confronts his past incarnation as a soldier who died at the Somme during World War I, and he brings many insights from his research and experiences.

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REVIEWS



RANDI'S PRIZE

by Robert McLuhan

Matador, UK, 2010

ISBN 978-1-84876-494-1 (418pp pb)

Avail: www.troubador.co.uk/matador

Freelance journalist and former *Guardian* foreign correspondent Robert McLuhan is well suited to writing a book on the paranormal: he's been a member of the UK Society for Psychical Research for nearly two decades. McLuhan in his book's title refers to the Canadian stage magician James Randi, who, back in the 1960s, put up a million dollars for anyone who can convince him that they have psychic powers—a prize that no one has yet claimed.

McLuhan argues that sceptics like Randi have too much sway when they debunk the paranormal: they have a negative influence on scientific and public opinion and yet they understand little about what they're debunking. Scientific researchers who do explore parapsychical phenomena have indeed found anomalies worthy of further study, but the sceptics explain away these anomalies as being due to fraud or an overactive imagination. Consequently, science and society lose out and the messengers are denigrated. It's time to replace our broad culture of disbelief in the

paranormal with a more discerning view, says McLuhan in his thoughtful, well-balanced work that touches on deeply spiritual elements and offers an enlightened way forward.

LIFE AND DEATH ON MARS:

The New Mars Synthesis

by John Brandenburg, PhD

AUP, Kempton, IL, USA, 2011

ISBN 978-1-935487-36-4 (275pp tpb)

Avail: adventuresunlimitedpress.com

Much of what science understands about Mars is wrong, says US astrophysicist Dr John Brandenburg. Life once thrived on Mars in a similar way to on Earth, and quite possibly even seeded life on Earth via crashed meteorites. However, in its long history, Mars experienced two major catastrophes: one by ice, from which life did re-emerge, and one by fire, from which it did not. Before Dr Brandenburg gets to the core of his argument, he highlights what Mars has meant to humanity through the ages, embraced in mythology and even in modern military symbology.

One of the unexplained discoveries about Mars is the presence of a xenon isotope in the atmosphere and an abundance of uranium and thorium on the surface. Dr Brandenburg posits that these elements are the products of a

natural fission reaction: the ore bodies containing these oxides were infiltrated by water, went critical and caused a thermal neutron reaction with fallout that rained down and caused the end of life on Mars. Debris patterns can be seen radiating from a site in the northwest of Mare Acidalium. He hypothesises that the event was probably triggered by a change in groundwater distribution related to a global cooling event, and that it would have produced an energy release equal to the impact of a 70-kilometre-diameter asteroid.

Mars is an undeniable teacher for us Earthlings, and it has much to say about the cosmos, too, according to Dr Brandenburg in his controversial, well-illustrated book.



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Reveals a 2012 Prophecy by unknown Author. Banking Collapse Announces the Beginning of the Golden Age, and Are You ready to go Home to 5D Earth by Maya12-21-2012.Com. Finally, we have actor and singer Will Smith with a thought-provoking "idea", that I believe will take mankind to the next step of our Evolution come 2012/2013, titled 'Metaphysics and Alchemy; Power of Me'. **Pal HD (High Definition) 1hr : 18mns**

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REVIEWS

ATLANTIS AND THE CYCLES OF TIME

by **Joscelyn Godwin**

Inner Traditions, Rochester, USA, 2011
ISBN 978-1-59477-262-7 (436pp tpb)
Available: www.InnerTraditions.com;
www.brummybooks-music.com.au

Much has been written about the lost continents of Atlantis and Lemuria from an occult perspective as well from a rationalist view based on geographic and geological data, but these perspectives have not really been synthesised into a coherent whole. Scholar, translator and music professor Dr Joscelyn Godwin applies his talents to reconciling the two.

Just among the rationalists, there are scientific hypotheses about Atlantis having been in the Arctic and Antarctic, in Britain, Malta, Cyprus, the Caribbean and Central America, to name but a few, proffered by thinkers and researchers through the last few centuries and even very recently. The esotericists include Saint-Yves d'Alveydre and Papus, Theosophists from Blavatsky to Bailey, René Guénon, the "sleeping prophet" Edgar Cayce and more.

In his study of Atlantis research, mythology and interpretation, Professor Godwin reveals that all these viewpoints, some which are sourced from sacred texts, prophecy

and paranormal communications, are linked to cycles of time, the main cyclical systems being the Four World Ages and the Precession of the Equinoxes. He notes that 2012 features in cyclical theories unrelated to the Mayan calendar, and that the rhythms of history, the "human life-wave" through the ages, are fractal. He sheds light on our immediate future, evolution and reincarnation, root races and catastrophe theory.

TIME OF THE QUICKENING

by **Susan B. Martinez, PhD**

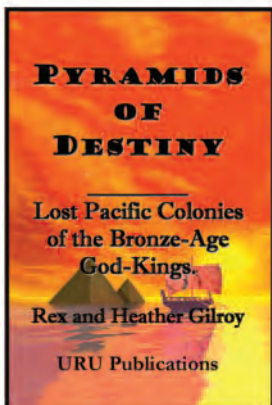
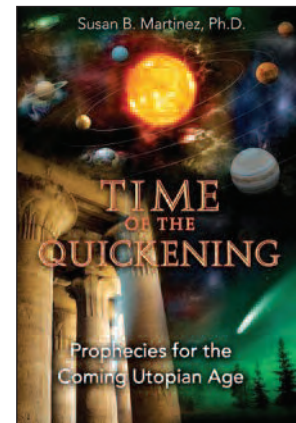
Bear & Company, Rochester, USA, 2011
ISBN 978-1-59143-126-8 (374pp tpb)
Avail: BearandCompanyBooks.com

Fed up with inaccurate prophecies? Linguist, anthropologist and paranormal researcher Susan B. Martinez, PhD, has developed a mathematical way of divining the future. It's based on a 12,000-year-old system—the Egyptian Tables of Destiny—that can foretell every day of the year accurately, based on the Earth's magnetic rhythms.

Dr Martinez is an expert in the 19th-century Oahspe Bible, which presents the Tables and their prophetic numbers of Earth cycles (11, 33, 66, 99, 363 among them). She's applied her system to cycles of hurricanes, earthquakes, floods and

volcanic eruptions and shown that the numbers stack up over intervals through time.

From reviewing the cycles of history from biblical times and the prophecies of notable seers from Nostradamus and Cayce to Jeane Dixon and Chet Snow, Dr Martinez concludes that we're in the early stage of a Utopian Age—the time of the "quickenings" of the human race, the opening of our etheric sight. But we have many flashpoints along the way. One of them, foreseen for 2011, seems to be on the mark; it involves France and a time wave going back to the 1880s–90s. Her takes on our past and her forecasts for our future, e.g., on America's destiny, the world economy and climate change, make this a system to be taken seriously.



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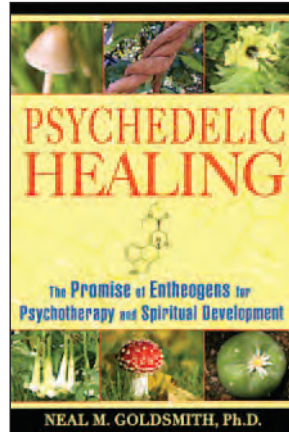
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PSYCHEDELIC HEALING
by Neal M. Goldsmith, PhD
Healing Arts Press, Rochester, VT, 2011
ISBN 978-1-59477-250-4 (238pp tpb)
Available: www.HealingArtsPress.com;
www.brumbybooks-music.com.au



The late 1960s clampdown on research into psychedelic drugs as therapeutic catalysts is being released as interest in their psychiatric use grows at the top US medical schools like Harvard and Johns Hopkins. Clinical evidence shows that entheogens—substances which engender the spiritual in us—can ease anxiety in the dying, treat addiction, cure post-traumatic stress disorder and overcome deep-seated emotional blocks.

New Yorker Neal Goldsmith, PhD, a psychotherapist who specialises in psychospiritual development, explains that the curative effect of entheogens comes not from a chemical effect on the body but from the triggering of a peak or spiritual experience. He has studied the use of entheogenic substances in the rituals of indigenous cultures and examined the growing body of research into psychedelics. Indeed, he recounts some of his own experiences with mind-expanding drugs including LSD, MDMA and psilocybin on his journey of growth and discovery. He's part of a global network of psychedelics researchers sharing their findings on the Net.

Dr Goldsmith proposes how psychedelic healing can be

incorporated into a new, integrated psychotherapy that harnesses the emotional, mental and spiritual healing powers of these entheogenic drugs within a clinical setting. He gives guidance on safe "tripping" and on handling emergencies. He also suggests moves that could change existing drug laws and health policies. This is a visionary approach towards a whole new reality.

THE ART OF SOARING
by Vladimir Dolokhov and Vadim Gurangov

Deep Snow Press, USA, 2010 (first published in Russian, 1998)
ISBN 978-0-9842873-1-4 (239pp tpb)
Available: www.DeepSnowPress.com

This charming self-help book about practical magic, written by two Russian spiritualists, became a best-seller when it was first published in Russian. This English-language edition is translated by linguist Mark Havill, PhD, who has worked with the authors since 1993, and edited by Leonid Sharashkin, PhD, who also edited the English versions of the famous Ringing Cedars series.

Authors Dolokhov and Gurangov draw on Russian proverbs and folklore as well as the works of Carlos Castaneda and Richard Bach in helping us discover the magician within each of us. They explain that the magician is playful and joyful, is not focused on any outcome, and is prepared for anything while hoping for the best—and all with good humour. One of the principal tenets of their magical system is the need to enter the "state of soaring", which is like a heartfelt, ecstatic dance experienced in the moment.

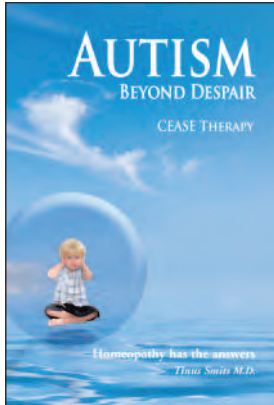
We can live our lives as magical acts, and the authors show how the way of the magician involves taking creative action, e.g., expressing thankfulness and having the world respond to creativity to provide the best outcomes for all involved. It's a process of joyfully participating in creation, even if we have to "test the waters" initially. Inspirational!



REVIEWS

AUTISM: Beyond Despair CEASE Therapy by **Tinus Smits, MD**

Emryss Publishers, Netherlands, 2010
ISBN 978-90-76189-28-4 (191pp hc)
Available: www.emryss.com



For decades, Dutch homeopathic doctor Tinus Smits, MD, has been healing behavioural and other problems in children by detoxifying them of the vaccines they were given as babies and toddlers. Further, he has been giving them homeopathic treatments in conjunction with orthomolecular doses of nutritional supplements, effecting cures in most cases. In time, he turned his attention to autism, noting that the same kind of treatments worked for this disorder, a blockage in the brain.

Fundamental to Dr Smits's treatment is getting to the cause of the illness. In some cases, even with autism, pharmaceutical drugs have been responsible for triggering the condition. The treatments need to be prescribed and tailor-made by specially trained homeopathic practitioners because of the multi-faceted aspects even of just the homeopathy form involved.

From his years of clinical observation and practice, Dr Smits has developed a therapy that he calls CEASE—Complete Elimination of Autistic Spectrum Expression—and has had amazing successes with it, as the case studies and parents' testimonials in this book attest. He discusses the genesis of autism via vaccination and medication (even

drugs taken by the mother during pregnancy), how to detoxify vaccines using potentised vaccines and how to treat intestinal disorders and aggression or hyperactivity with diet, including the right fatty acid intake.

Dr Smits's CEASE therapy promises enormous benefits in most cases, and fortunately there are more and more homeopaths being trained in the procedures. For further details, visit www.cease-autism.com.

MY EXPERIENCES OF ALIENS AND OTHER REALITIES – Volume One by **Dr J. S. Chiappalone**

Zeus Publications, Australia, 2010
ISBN 978-1-921731-71-6 (302pp pb)
Available: www.zeus-publications.com

The world is reaching a tipping point in the great battle between good and evil, says Dr Joseph Chiappalone, a metaphysical author, medical doctor and contactee. According to information he says he received in 1985 aboard the ethereal mothership of the Space Command, led by a group of spiritually advanced beings, Earth is to be rid of the evil that's been present here for aeons—and it's going to be a rocky ride. These interdimensional beings have plans for the evacuation of humans who are aligned with the Light before they initiate the destruction of the planet. The good doctor was convinced that this "corrective process" was scheduled to happen a decade or so ago (this edition is an update on earlier writings).

Dr Chiappalone is certain about who is on the side of the evil alien overlords; some of them work in his own profession! As for aliens, the Greys and their reptilian masters are the baddies, while the "theomorphic" interdimensional beings in contact with Higher Mind and who travel in plasma ships are the goodies.

Dr Chiappalone has been on an amazing personal quest spanning several decades, and here he shares his journey and Gnosticism-inspired revelations to help us through these challenging "end times".

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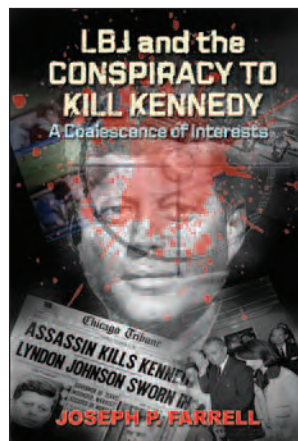
REVIEWS



LBJ AND THE CONSPIRACY TO KILL KENNEDY

by Joseph P. Farrell

AUP, Kempton, Illinois, USA, 2011
ISBN 978-1-935487-18-0 (302pp tpb)
Avail: adventuresunlimitedpress.com



Here, prolific investigative author Joseph P. Farrell (*Babylon's Banksters*, 17/05; *Roswell and the Reich*, 17/04) directs his attention to the JFK assassination and the "coalescence of interests" that sought to overthrow President Kennedy in a *coup d'état*. The premise put to him by his publisher was to uncover what role Vice President Lyndon B. Johnson (LBJ) may have had in the conspiracy in the light of the "Texas connection", but Farrell has taken a different tack by reconciling LBJ's probable role within the wider context of vested groups: Soviets, Cubans, Mafia, Big Oil, banksters, the military, a host of alphabet agencies (CIA, FBI, ONI, NASA) and the Secret Service.

Farrell, whose fascination with the JFK assassination began at the time, when he was just six years old, utilises research from others who have already identified major players, in order to draw links between these groups and their agendas and to identify who knew what and their possible level of involvement in the assassination. In his analysis, Farrell considers mind-controlled patsies including Jack Ruby, doppelgängers, bullet-counting errors, ritual magic, Masonic symbolism and mysterious deaths of key witnesses. There's

damning evidence of LBJ's involvement in the conspiracy, e.g., in the planning of JFK's Texas trip.

This is a deep political conspiracy exposé that's an engrossing read.

FINAL WARNING: A History of the New World Order

by David Allen Rivera

Progressive Press, 2010 (3rd ed., part 1)
ISBN 978-1-61577-929-1 (366pp tpb)
Available: www.amazon.com;

www.gazellebooks.co.uk

There's nothing new about the concept of a New World Order (NWO). According to author David Rivera, the term has been in use since at least 1915, but the idea that a shadowy cabal beyond the reach of rulers and presidents is controlling world events and manipulating the masses is far older. However, the cabal is now much closer to establishing its long-desired one-world government than ever before.

Rivera's book *Final Warning* was first published in 1984 and has been republished and/or revised several times since then; this is the third edition of part one (part two covers end-time prophecies and is available at www.comingjudgement.250x.com).

Rivera concludes from his extensive research that descendants of the original Illuminati, which disbanded after a short life in the 1790s, are still hell-bent on the goal of a one-world socialist government, and, having also implemented the communist revolution and set the stage for World War II, now operate through such organisations as the United Nations, the European Union, the Bilderbergs, the Trilaterals and more.

Moves towards globalisation of the world marketplace via organisations such as NAFTA and the WTO are further implementing the NWO agenda, as are moves to institute a one-world currency, foment riots and revolutions, and remove citizens' basic rights not just in the USA but around the globe.

A punchy historical overview with themes of control and suppression.



REVIEWS



UNDERGROUND

by Suelette Dreyfus and Julian Assange

William Heinemann/Random House Australia, 2011 revised edition (first pub. by Reed Books, Australia, 1997) ISBN 978-1-74275-202-0 (495pp pb) Available: www.randomhouse.com.au



With all the interest in WikiLeaks these days and with the controversy surrounding its releases of sensitive US diplomatic cables, it's instructive to recap on the culture of computer hacking that ultimately led to the creation of this website for whistleblowers. This second edition of journalist Dr Suelette Dreyfus's book *Underground* is an update of the 1997 original with a new introduction and conclusion by Dreyfus as well as an introduction by Julian Assange, dated 2001, five years before he founded WikiLeaks. Assange had research input into the original book and now has co-author status. The book documents anarchistic young Australian hackers' attempts to have fun while taking on the forces of the US establishment including the military, NASA and the Department of Energy, e.g., subjecting their computers to the "WANK worm".

There are tales of convictions and imprisonment for acts of infiltration, and of the descent into crime, drug addiction and madness. The early bulletin-board days are on display, as are alter-egos and enough techno-babble to baffle all but those who are highly proficient in computer

programming. This is important documentation of the social history of the 1980s–1990s computer underground, with reflection from the 21st century at a time when WikiLeaks has to exist because of a lame media and when its founder has to fight for his rights as an Australian citizen. Meantime, hacking has gone to a new level of "worm-as-cyber-weapon" and the surveillance state is not only legal but compulsory.

WALL STREET AND THE RISE OF HITLER

by Antony C. Sutton

Clairview Books, UK, 2010 ISBN 978-1-905570-27-0 (220pp tpb) Available: www.clairviewbooks.com

This third book in a trilogy by Professor Antony Sutton (1925–2002), published in 1976, was exceptional at the time for its examination of the rise of corporate-sponsored socialism in Germany in the 1920s and the corporate financing of Adolf Hitler's ascent to power and preparations for war. British publisher Clairview has released a reproduction edition of this classic, hard-to-get book *Wall Street and the Rise of Hitler*, a key reference work for serious students of recent history.

Sutton exposes the financial assistance of Wall Street in Germany's rebuilding in the 1920s, including that of many well-known American corporations which aided the subsequent war footing: General Electric, Standard Oil, ITT, Ford, General Motors, Chase and Manhattan banks, and Rockefeller and Morgan interests among the many. Moreover, these US interests were not permitted to take anything out of Germany, so there had to have been other reasons for promoting the Nazi regime and financing preparations for a new world war.

Sutton adds that establishment historians have overlooked the occult driving force behind Nazism—a point which many researchers have expanded upon in ensuing decades. Essential background reading.

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Compiled by Duncan Roads

ANCIENT TECHNOLOGY IN NAZCA & CENTRAL PERU with David Hatcher Childress © 2010

Available: Adventures Unlimited Press, Box 74, Kempton IL 60946, USA, www.adventuresunlimitedpress.com

In this fifth instalment in the Ancient Technology series, David heads down the Pan American Highway from Lima to Ica and Nazca in Peru.

In Ica he examines the huge, elongated skulls discovered in the area, and then he visits the strange museum of Dr Cabrera with its collection of thousands of stones depicting dinosaurs and humans.

Next, David and the team fly over the Nazca geoglyphs in order to grasp their amazing complexity. Were they meant to be seen only from the air?

The team then journeys to Cuzco in central Peru and visits the megalithic sites of Ollantaytambo, Machu Picchu and Sacsayhuamán, taking in a special examination of a megalithic rock quarry near the Inca Trail.



THE AFTERLIFE INVESTIGATIONS A Survival Project Production © 2010

Available: Insight Media, London, UK, www.theafterlifeinvestigations.com

This award-winning documentary by Tim Coleman is being hailed as the best-ever compilation of scientific evidence in support of life after death.

One of the main topics is the Scole Experiment, where for five years a

group of researchers and mediums witnessed and investigated more phenomena than in any other experiment in paranormal history.

Another is the electronic voice phenomenon (EVP): can the dead speak to the living via electronic devices like radios, tape recorders and computers?

These experiments may finally convince you that there is life after death. A fantastic documentary!

WHAT IN THE WORLD ARE THEY SPRAYING? The Chemtrail/Geo-Engineering Cover-up

by G. Edward Griffin, Michael Murphy and Paul Wittenberger © 2010

Available: www.realityzone.com

By now, everyone has seen crisscrossing streaks of white clouds trailing behind jet aircraft, stretching from horizon to horizon,

eventually turning the sky into a murky haze. Our innate intelligence tells us that these are not all just mere vapour trails from jet aircraft. So who is doing this, and why?

This film tells the story of a rapidly developing industry called geo-engineering, driven by scientists, corporations

and governments intent on changing global climate, controlling the weather and altering the chemical composition of our soil and water — all supposedly for the betterment of mankind. Although officials insist that these programs are only in the discussion phase, evidence is abundant that they have been underway since about 1990—and the effects on crops, wildlife and human health have been devastating.

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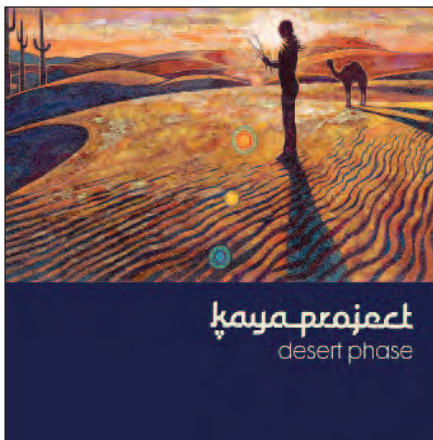
Reviewed by Richard Giles

DESERT PHASE

by Kaya Project

Interchill Records, UK, 2010 (66mins)
Distributors: **Australia**—The Planet Company, tel (02) 9283 8250; **UK**—Interchill Records, www.interchill.com; www.kayaproject.com

This album has been inspired by three deserts—the Sonoran, the Thar and the northern Sahara—and by Kaya Project's experiences in those deserts in Arizona, Rajasthan and Morocco. The tracks reflect the timeless, haunting nature of these deserts, and some are reflections of the areas' peoples and a tribute to their resilience. Other tracks are based in folklore or cinematic myth. Omar Faruk Tekbilek makes an appearance on one track of *Desert Phase*. Thoughtful and atmospheric music that's highly recommended.



OUT OF THE BLUE & INTO THE AMAZON

by Emily Burrige

Emily Burrige Music, UK, 2010 (2CDs, 49mins)

Distributor: **UK**—Emily Burrige Music, www.emilyburrige.com

Emily Burrige has produced a unique two-album set with *Out of the Blue* and *Into the Amazon*. She interweaves classical cello works with her own compositions, and her technological expertise allows her to

create pieces which shift in and out of a familiar classical repertoire into her own dreamspace. The second CD takes us on a captivating journey into the world of the Xavante people of the Amazon. Burrige combines their songs and lyrics with her cello and the sounds of the jungle. A very unusual and distinctive creation.

BHAKTI BAZAAR

by Jai Uttal

Sounds True, USA, 2010 (68mins)
Distributors: **Australia**—Brumby Books & Music, tel (03) 9761 5535; **USA**—Sounds True, tel 1800 333 9185, www.soundstrue.com

Jai Uttal has a number of releases to his credit (e.g., see NEXUS 3/01, 9/05). Vocalist Tina Malia and Nepalese bamboo flautist Manose join with Jai and Ben Leinbach to create *Bhakti Bazaar* in tribute to "yoga and other joys" and to awaken the flame of devotion. The featured instruments include dotar, electric guitar and slide tamboura. The music is very laid-back devotional and on the cutting edge of the new wave of kirtan singing. Relaxing and calming in that quietist musical genre.

PATH OF COMPASSION

by Karunesh

Real Music Records, 2010 (66mins)
Distributors: **Aust**—Brumby Books & Music, tel (03) 9761 5535; **Europe**—MCC, tel +49 4102 898202; **USA**—Real Music, tel 415 331 8273, www.realmusic.com

Mau-i-based Karunesh (Sanskrit for "compassion") has created this album especially for yoga, massage and relaxation (also see *Zen Breakfast* review, NEXUS 8/06). "I want to go beyond the limits and barriers separating different cultures, mixing different music styles and letting them flow and dance together," says Karunesh. This world fusion album would be the ideal accompaniment for your cosy evening by the fire or your exercise and yoga sessions. Soothing, relaxing music.



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America's Emerging Space Weapons Arsenal

Continued from page 16

Continued next edition...

About the Author:

John Lasker is a freelance journalist who was born and raised in Buffalo, New York, and now resides in Columbus, Ohio, USA. His work has been published hundreds of times in 50 different newspapers and magazines, including *Wired*, *Christian Science Monitor*, *Toward Freedom* and *Fate*. He covered the 2008 US presidential election from central Ohio for Agence France-Presse. In 2010, he published his first non-fiction book *Technoir* (e-book available from <http://store.thebooksale.com/science-fiction/technoir>); this article is based on chapter three of this book. He received a grant from the Knight Foundation in 2011 to write about non-combat deaths of US female soldiers.

John Lasker can be emailed at johnlasker@sbcglobal.net.

Endnotes

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Fooling Ourselves on the Value of Vaccines

Continued from page 33

past. It is also time we insisted that all future consideration of policy begin with a recognition of the fact that vaccines made little, if any, contribution to the massive historical decline in deaths. ∞

About the Author:

Greg Beattie is an Australian author who made headlines in 1996 when he took his local government body to the Human Rights Commission for banning his unvaccinated children from child care, but lost. The battle was documented in his first book, *Vaccination – A Parent's Dilemma* (Oracle Press, 1997), published in English, Swedish and Korean and now available as an e-book. The sequel to this book, *Fooling Ourselves on the Fundamental Value of Vaccines*, was self-published in February 2011 as an e-book. Both e-books are available from Greg Beattie's website

<http://vaccinationdilemma.com>.

To contact the author, email him at admin@vaccinationdilemma.com. For more information on this subject, visit <http://vaccinationdilemma.com>.

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The Hole in the Heart and the Blood-Brain Barrier

Continued from page 40

kinesiology is important.

Find out if you have the common but hidden heart defect, patent foramen ovale, and correct it or ameliorate its effects, such as in correcting the hiatal hernia/vagus nerve syndrome. PFO closure or amelioration can prevent a stroke and stop migraine, further cardiac degeneration and other problems. It is hoped that, soon, better closure options will appear—or maybe you can tolerate the nickel and blood-thinners. Here I would recommend kinesiological testing.

I have found that certain food reactivities worsen the PFO or other heart problems. Obviously avoid caffeine, nicotine, MSG and excess salt, but also try to avoid wheat and nightshades—tomatoes, potatoes, peppers. Trigger-point work is beneficial, as certain body points reflex back to the heart or coronary

arteries.^{32, 33} Consider taking vitamin E, evening primrose oil, magnesium and coenzyme Q10. Eat smaller, more frequent meals. Avoid lifting or over-strenuous exercise that increases abdominal pressure, and don't do any diving.

We have seen that if we keep our blood-brain barriers not too permeable, our brains may be healthier and happier—and the rest of us may follow suit. ∞


About the Author:

Steven Rochlitz, PhD, was originally a physics professor. For the past 30 years he has researched chronic and environmental illnesses and taught his seminars across the world, including in Australia, New Zealand, Europe and the Americas. His unique system incorporates kinesiology, nutrition and human ecology. He has written nine books, six of these on alternative medicine. His latest book is *Porphyria: The Ultimate Cause of Common,*

Chronic, & Environmental Illnesses (see review in NEXUS 18/02). His article "Porphyria: A Cause of Chronic Illnesses", was published in NEXUS 18/01. Further research is at his website <http://www.wellatlast.com>. Dr Rochlitz can be emailed at info@wellatlast.com.

Editor's Notes:

- This article is extracted from Dr Steven Rochlitz's books *Hidden but Pandemic Heart Defect as Possible Cause of MCS, "Allergies", Chronic Fatigue, Brain Fatigue and Other Degenerative Illness: The Patent Foramen Ovale* (2005) and *The Blood-Brain Barrier, and its Permeability from Allergies, Toxins, Stress, and Nutritional Deficiencies: Its Link to the Hiatal Hernia and the PFO* (2009). To purchase these books, go to <http://www.wellatlast.com/books.html>.
- Due to space constraints, we are unable to publish the endnotes accompanying Dr Rochlitz's article. To view these, go to his website <http://www.wellatlast.com>.

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A New Mechanism for Matter Increase within the Earth

Continued from page 48

Theoretical constructs that have never been experimentally observed are not required. The Earth, having a magnetic field strong enough to interact with impinging particles, gathers more than sufficient fundamental particles, namely electrons and protons, to account for a slow increase in matter internally over hundreds of millions of years. There is, therefore, no lack of component particles to create new matter deep within the body of the Earth. The exact process by which this occurs is complex in nature and, like the interior of the Earth itself, involves speculation as to its dynamics. It is argued that the avenue of approach proposed here is plausible and warrants further serious scientific investigation. If new matter has been added to the interior of the Earth, there must be an answer to the riddle of the dynamics of the process.

At the level of human perception it may seem that the Earth is an impenetrable solid, and this perception gives rise to the notion that it is impossible for new matter somehow, as if by magic, to make its way to the Earth's deep interior. But, as argued here, there are mechanisms which have an empirical basis whereby this may occur on a subatomic level. It is extremely doubtful that humans will ever penetrate much below the Earth's crust (the deepest hole depth obtained to date is approximately 0.1 per cent of the Earth's radius), so it is a near certainty that the best we will ever achieve are very-small-scale, time-limited experimental laboratory simulations based upon what we can only speculate is going on within the deep interior of the Earth.

Perhaps the time has come to stop ignoring the growing geological and other evidence against Plate Tectonics and in favour of Expansion Tectonics and begin to consider that we may, in fact, have an element-synthesising factory right beneath the ground on which we walk. ∞

Acknowledgements:

Special thanks go to Dr James Maxlow (Australia), Professor Andre K. T. Assis (Brazil) and Professor Charles M. Anderson (USA) for their helpful comments and suggestions in the preparation of this article.

About the Author:

John B. Eichler graduated from the Illinois Institute of Technology with majors in physics and mathematics. Under a contract from the US Atomic Energy Commission, he worked on computer analysis of blast shields for nuclear reactors and other government research activities at the IIT Research Institute. Later, his efforts were in the design and implementation of new computer systems. After retiring, he went back to graduate school at the University of Arkansas in Little Rock, where he's been working on the manuscript for his forthcoming book *An*

Infinite Universe. He's currently working on a thesis titled "An investigation of a scientific paradigm shift: the rhetoric of an uphill battle". John Eichler's interest in Expansion Tectonics began in 1958 when he arrived at the conclusion that the Earth had undergone a significant expansion over time. His search for a viable mechanism to explain the matter gain utilising empirical evidence has led to the writing of this article.

John Eichler can be contacted by email at jeichler@AnInfiniteUniverse.org.

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Who Wrote the "Reptilian Agenda"?

Continued from page 59

perspective centred on the divine intelligence of the Earth. They learned directly from disciplined trance instruction, giving them access to the planetary mind.

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They preserved in imagination and practice the connection to the divine source of our species, the Pleroma or galactic centre.

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The first step in confronting the

reptilian menace is to set the story straight and see the disinformation in the cuneiform scenario, to name the game of alien deception as the Gnostics themselves did. ∞

About the Author:

John Lash is a self-educated freelance scholar who combines studies and experimental mysticism to teach directive mythology: the application of myth to life, rather than its mere interpretation.

He is a leading exponent of the power of myth to direct individual experience and drive historical events over the long term. An expert on sidereal mythology, naked-eye astronomy, precession and the world ages, he also teaches a critique of belief systems.

On his website Metahistory.org, John Lash presents a radical revision of Gnosticism, with original commentaries on the Nag Hammadi Codices.

He also presents a complete restoration of the Sophianic myth of the Pagan Mysteries, the sacred story of Gaia-Sophia, recounting the origin of the Earth and the human species from the galactic core.

He is the author of *The Seeker's Handbook* (1991), *Twins and the Double* (1993), *The Hero – Mankind and Power* (1995), *Quest for the Zodiac* (1999) and *Not In His Image* (2006).

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Editor's Note:

John Lash's manuscript "Who Wrote the Reptilian Agenda" was first published in March 2005 and revised in October 2010. This is an edited extract from the revised manuscript. Visit the web page <http://tinyurl.com/35r9oot> for the complete version.

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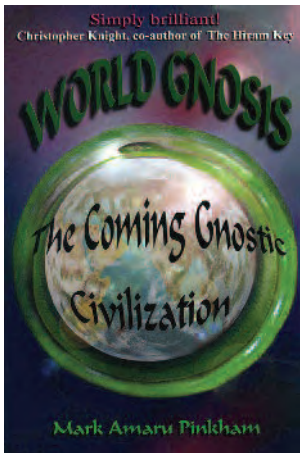
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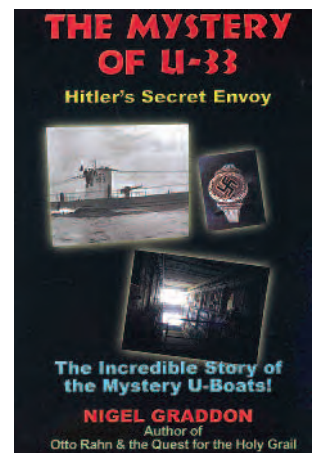
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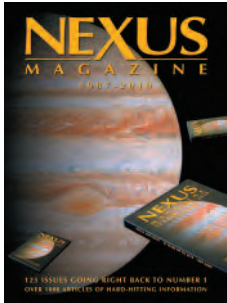
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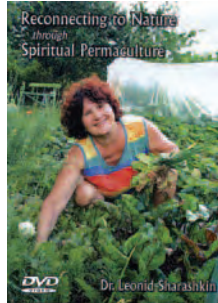
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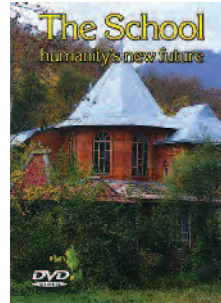
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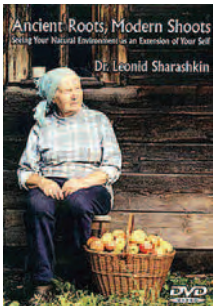
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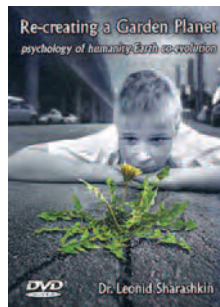
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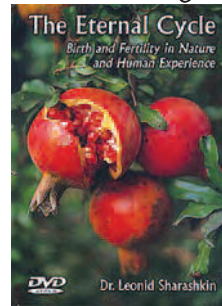
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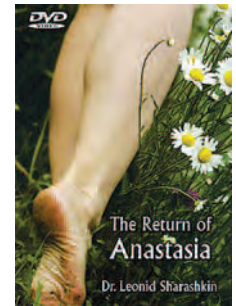
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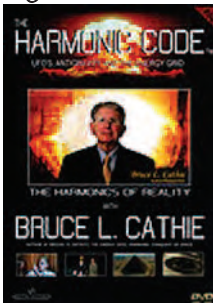
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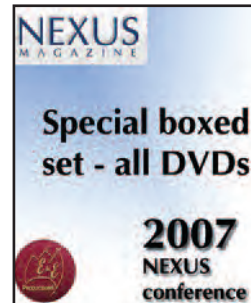
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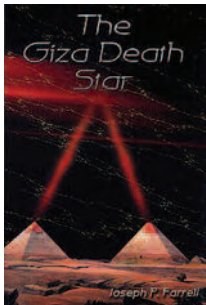


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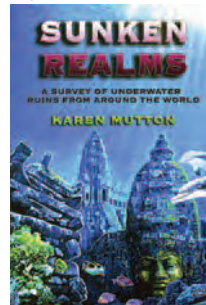
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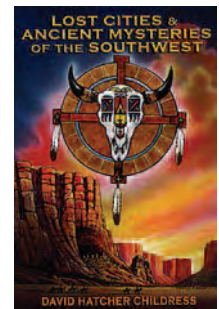
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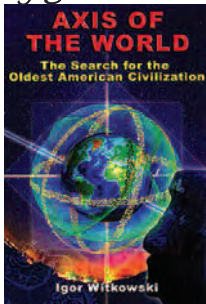
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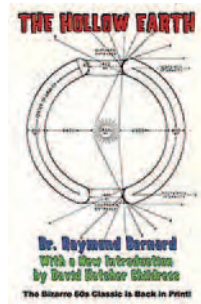
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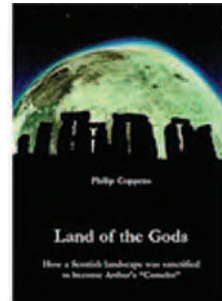
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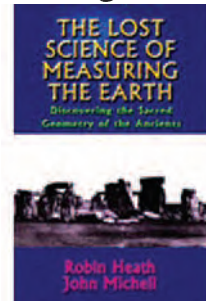
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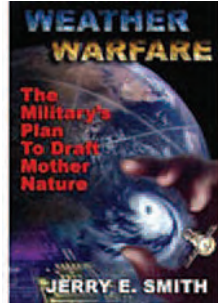
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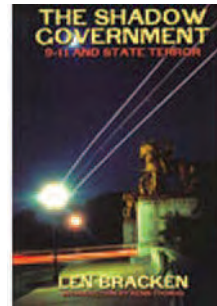
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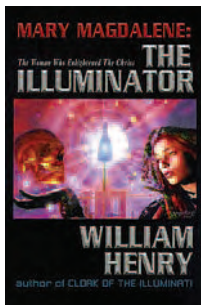
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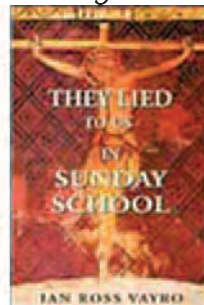
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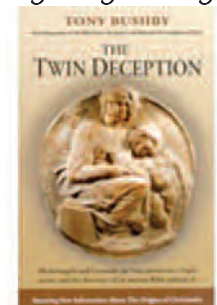
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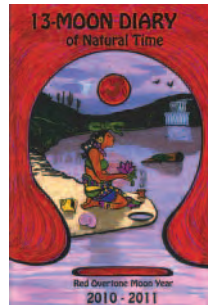
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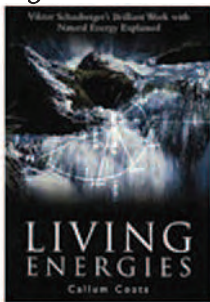
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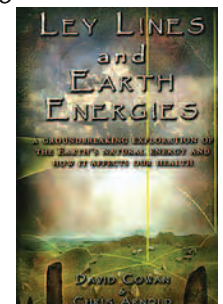
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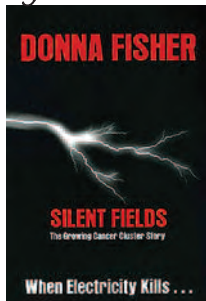
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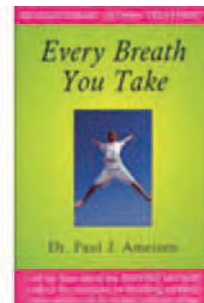
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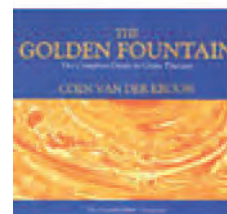
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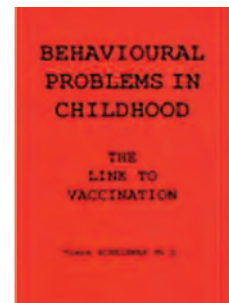
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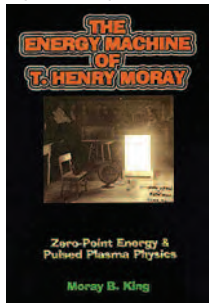


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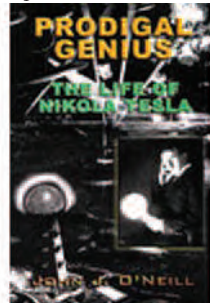
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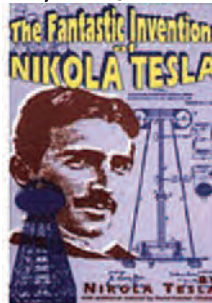
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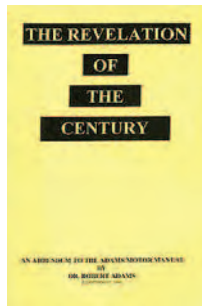
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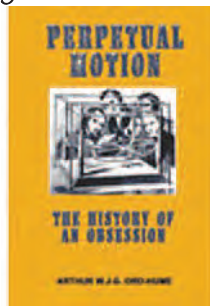
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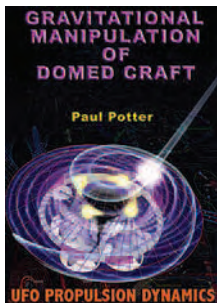
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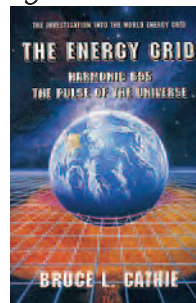
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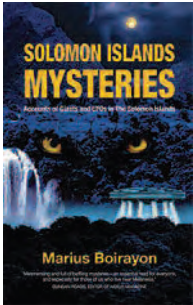


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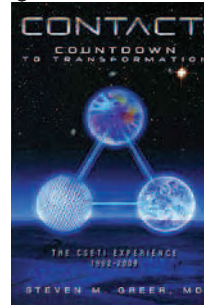
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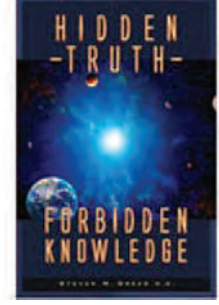
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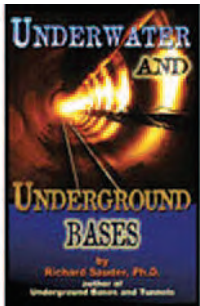
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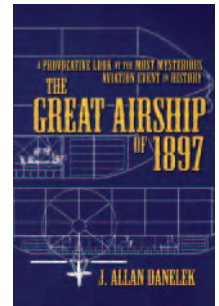
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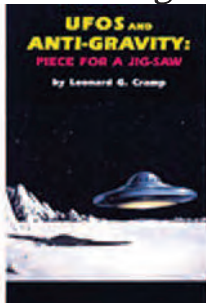
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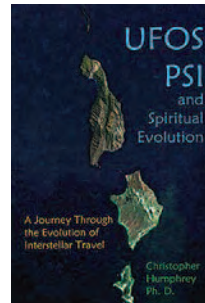
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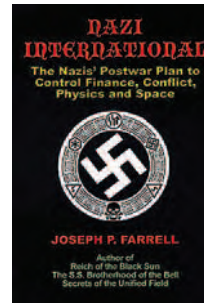
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