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# NEXUS

June-July 2012

NEW TIMES

Vol. 19, No. 4

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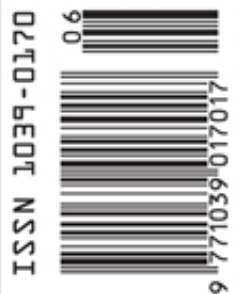
**Big Pharma's borax conspiracy**

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ISSN 1039-0170

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# NEXUS

NEW TIMES MAGAZINE

Volume 19, Number 4

PO Box 30, Mapleton Qld 4560, Australia

JUNE – JULY 2012

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

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# NEXUS MAGAZINE

Volume 19, Number 4

JUNE – JULY 2012

## PUBLISHED BY

NEXUS Magazine Pty Ltd, ABN 80 003 611 434

## EDITOR

Duncan M. Roads

Email: editor@nexusmagazine.com

## CO-EDITOR

Catherine Simons

## ASSISTANT EDITOR/SUB-EDITOR

Ruth Parnell

## OFFICE ADMIN/EDITORS' ASSISTANTS

Jenny Hawke; Susie Foster

## MAIL ORDER DEPARTMENT

Richard Giles; Susie Foster

## WEB MISTRESS/PROOFREADER

Jenny Hawke

## CONTRIBUTORS THIS ISSUE

Tony Cartalucci; Thomas Kirschner and Douglas Dietrich; Andrew Goldsworthy, PhD; Walter Last; Steven Rochlitz, PhD; Dan Eden; Sterling D. Allan; David Hatcher Childress

## CARTOONS

Phil Somerville

## COVER GRAPHIC

Jeff Edis, jeff\_edis@hotmail.com

## PRINTING

Beaudesert Times, Queensland, Australia

## AUSTRALIAN DISTRIBUTION

Network Services (ACP)

## HEAD OFFICE – All Correspondence

PO Box 30, Mapleton, Qld 4560, Australia.

Tel: (07) 5442 9280; Fax: (07) 5442 9381

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

**NZ OFFICE:** Tel: +64 (0)9 405 1963; Email: office@nexusmagazine.co.nz

**UK OFFICE:** 55 Queens Rd, East Grinstead, West Sussex, RH19 1BG. nexus@ukoffice.u-net.com

**EUROPE OFFICE:** Postbus 10681, 1001 ER Amsterdam, The Netherlands. Email: nexus@fsf.nl

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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

Rounding up the potential news items for inclusion in this issue of NEXUS was a sobering experience indeed this time. Am I becoming more sensitive, or is the global future for mankind looking more precarious each week? Are we on an "out-of-control" disaster train on the way to a profit-driven oblivion? Or are we on a carefully steered, fully controlled, perception-managed ride of massive social change? Maybe it's "all of the above".

Lately it seems that "doom", or potential doom, is around every corner, and even more disturbing is the fact that some sub-cultures are now urging it on. That's right: millions of seemingly intelligent people now believe that the only thing that's going to solve the world's problems is a sudden event that will remove all the "badness" and evil from the world. Some call it "the rapture"; some call it "ascension". Some just want a huge tidal wave to push the "re-set button" because they feel that they've just had enough.

Is this "surrender to doom" a sign that people have given up on any alternatives? It certainly suggests that the masses have zero faith in their leaders to fix any problems. The message that our planet is dying—and that we are to blame—is almost everywhere now. It is being taught in schools, and it underwrites the theme of most eco-documentaries screened on mainstream TV. It's therefore not surprising to me that an increasing number of people are feeling quite powerless in how they see their ability to change anything.

On the bright side, however, is an ever-growing "army" of people around the planet, from all cultures and countries, who, despite knowing the odds, still give up their time and resources to try to improve the world for others. The Internet age, with its massive information and instant communication-exchange ability, presents us with *both* the flood of info that makes us realise our global predicament and a tool with which to coordinate action to counter it.

I also want to point out that humanity already has the know-how and the technology to fix our problems, and in a short period of time. Decades ago, operational teleportation, antigravity devices, inertialess drives, limitless energy sources and an array of other technologies were developed that would not be believed in the context of today's orthodox scientific consensus. That technology exists right now—but for reasons of profit and power it is denied for our general use. Whether this hidden technology will be used to control or to liberate us remains to be seen. In fact, some of this very advanced technology was developed by Germany before and during World War II, as you will read in the first of a series of interviews with former US military librarian Douglas Dietrich. Douglas was exposed to information that reveals a very different history of the 20th century than that which we were taught in school, including the fact that Nazi Germany had the atomic bomb and detonated it *before* the Americans were even close.

Fortunately, I do have a "feel-good" article for you in this issue. It's about how we are all beings of light, and about how light can rearrange our very DNA. This may be something that many readers have felt intuitively already. If so, I hope you appreciate this validation of the idea that we are all immortal, spiritual beings of light.

Duncan

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# Breakthrough Study: Water Nanostructures Support Electromagnetic 'Water Memory' Theory

Fifteen years ago Wellness defied scientific orthodoxy to claim that water had a memory and retained, like a computer disc, the 'electromagnetic frequencies' of all the contaminants it comes into contact with.

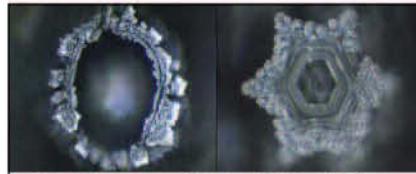
And, regardless of its purity, level of alkalinity, ionization or the method of filtration these 'memories' were still likely present.

We claimed that truly healthy water needed to be filtered both physically and 'energetically'. Pretty radical stuff.



**Far-Infrared Magnetic Resonance Activation**  
Only Wellness technology has the key to transforming ordinary water into healthier, extraordinary water.

This is why we were the first water filtration technology to develop a powerful 'Magnetic Resonance Activation' field in our unique Volcanic Mineral water filter systems.



**Tap Water Crystals Before & After Wellness**  
These pictures were taken by Masaru Emoto on behalf of NEC Corporation and are exclusive to Wellness.

Way back in 1996 the water crystal pictures of Masaru Emoto gave us a hint that our technology was doing something different.

Only Wellness uses this revolutionary natural energising process to naturally ionize water while improving its hydrating properties.

*[Wellness] water showed 2.22 times more dissolved oil than tap water, has lower internal surface tension and acts as a surfactant.... The quality of this water is excellent and is like natural spring water."*

Mr. K. Matsushita - Water Institute for Life and Natural Science Co. - Japan

## SCIENCE CONFIRMS REALITY

In 2009 Nobel Laureate Prof. Luc Montagnier demonstrated that water holds the resonant frequencies of DNA. When nucleotides, the raw building blocks of all DNA, are introduced into purified water once containing the DNA remnant 'frequencies' in the water appeared to assemble the raw nucleotides into a copy of the source DNA. To find out more about this revolutionary study please visit [wellness.com.au](http://wellness.com.au)



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# Letters to the Editor ...

## Iodine Deficiency Remedy

Dear Editor: After reading the article about iodine deficiency [19/03], I realised that I have been badly affected by this and have started taking Lugol's solution.

I haven't sweated for years, even when living in Brisbane. I had a thecoma (a rare ovarian tumour), with a cyst attached, at the age of thirty-nine. I have dry, sensitive skin and multiple allergies. I have never smoked or taken drugs, I drink very little alcohol and have a healthy diet and lifestyle, and I could never figure out what caused all my problems.

I am so grateful for this article and am telling everyone about it. Why is the government not doing anything about this? It's a national disgrace. People are suffering all kinds of illnesses for the want of some iodine in their diet.

After two weeks of taking Lugol's, I felt a bit of dampness at the back of my neck when baking cakes. It was so weird to feel myself sweat. I have had some spots pop up randomly on my back and arms, but never had this before; it must be the toxins coming out. I also have arcus, probably due to my body storing fat.

Thank you for this article; I wish I had known about it years ago.

Patricia Q., Scotland, UK

## Power of the Banks

Hi Duncan: Thank you for the magazine. This is just to raise the risks associated

with the banks which you may or may not be aware of, or have covered already.

Speaking as an ex-management specialist, my view is that computer systems are one of the mechanisms that have enabled the concentration of the enormous power in banking into a very few hands at the top—and in doing so, played a large part in freeing them to engage in the sort of reckless speculation with customers' money that brought about the recent crash.

Thirty years ago I could walk into the local branch of my bank and walk out again with a term loan based solely on the fact that the local managers knew me and my situation and because they had the authority (and the responsibility that followed from it) to authorise it.

These days, the local staff have almost no authority, and, worse still, see themselves as having no role in the management of the bank or their branch. Lending decisions are almost entirely centralised and automated based on box-ticking.

The banks take no account of local knowledge, staff judgement and customer relationships, and senior management authority (despite almost total isolation from the customer and its own staff) is absolute.

Is it any wonder that disastrous large-scale lending and investment decisions were made in

recent years by these people sitting in their ivory (glass and concrete, actually) towers?

Every visit sees more counters closed, longer queues and more machines. The queues are very deliberately created to drive customers towards the machines.

Every visit sees the bureaucracy become ever more stifling. Even the tiniest technicality is now enough to block a transaction, no matter how well known the customer actually is to the staff. Personal information is meanwhile routinely passed on to the tax authorities, for example.

Perhaps I'm one of a very few, but this doesn't feel to me like progress.

The banks and the financial industry are headed in the opposite direction.

They are, in my opinion, out of control, while power is concentrated in the hands of a dangerously few individuals right at the top.

Ian M., Ireland

[Dear Ian: It's almost as if the banks have a hidden agenda to discourage people from physically visiting branches, and thus push us into more online and cashless transactions. Ed.]

## Little People Photograph

Dear Duncan: Thank you for your magazine; always so interesting. When reading about the mini-entities coming in UFOs in Malaysia [19/02], I was reminded of a picture I had seen previously of "mini people".

It was in France (as I am French, and now Australian). One day, the teacher passed around a small geography book which belonged to a student's father who told her to bring it to school for us to see. This was around 1954. Inside was a photograph of small people with Tibetan features. They were standing near an empty one-litre glass milk bottle. The father was as tall as the bottle, the mother a little smaller and the children, one son and one daughter, even smaller of course. They were wearing colourful clothes; the mother and the daughter had long skirts.

Underneath the picture was written that there were 100 of them left, but no more explanations. I remember that they had a very sad look.

Perhaps one of your readers would have heard about this race. If so, I would be very interested to know more about it.

Kind regards,  
A. M., Qld, Australia  
[Me too! Ed.]

## Mass Tree Deaths Shock

Dear Duncan: There was bad news from botanists interviewed on the ABC TV science program *Catalyst* on Thursday 26 April in a segment on tree deaths [go to [tinyurl.com/7ar627b](http://tinyurl.com/7ar627b)].

They claim that a climate change tipping-point has already been reached, and around the world trees of all species are dying off in big numbers. There are reports of vegetation dying

## ... more Letters to the Editor

everywhere in Europe, Africa, America, the Amazon and Australia. The most beautiful, pristine forests in the world are dead and dying.

Prof Giles Hardy stated: "We haven't seen such scale of damage...in recorded history."

Dr Craig Allen stated: "[W]e see everything from grasses and shrubs to trees dying... So what we're seeing in these forest die-off events around the world are trees passing the tipping point of stress..."

Dr Martin Bader, who is monitoring several major Western Australian species, said: "Sixty or seventy per cent of the banksias died last summer... [T]he banksias...are all dead; they're gone for good."

As the narration said, almost overnight this banksia-dominated woodland has gone. "The implications for nectar-loving birds, insects and mammals are profound."

Dr George Matusick stated: "These are some of...the toughest trees I've ever seen. Now we're seeing conditions that are going outside their ability to cope."

Dr Craig Allen also stated: "No major forest type is immune... What's most alarming is that these die-off events...may be just at the very front edge of what could be wholesale mortality of the world's forests..."

This means that all the world's animals are now rapidly going extinct. Not only are the bees that

pollinate our crops going extinct, but now our crops are dying off as well—which means that we will all shortly starve to death.

The planet is about to die! Scientists all over the world are recording the death of our planet in 2012. The Mayans were correct.

Regards,  
Gary Opit and Carmel Daoud, Brunswick Heads, NSW, Australia

[Hi Gary and Carmel: I saw that show and was gobsmacked! The growing scale of the disaster is horrifying, to say the least. However, I did not share their assumption that the damage is from climate change. I see too many cases of ecosystem damage from man-made chemicals being used as evidence of damage from man-made global warming to jump to causative conclusions just yet. Oh, and on your depressing doom list, you forgot Fukushima: if reactor unit no. 4 collapses, we are all going to die anyway. Ed.]

### Fátima's "Solar Miracle"

Dear Editor: In "The Vatican and the Secret Lies of Fátima", April–May 2012 [19/03], Philip Coppens takes a searching look at the murky byways of Vatican politics.

The "secrets" allegedly passed to the three children never sounded very impressive, and it's doubtful whether they retain much interest even among the most devout Catholics.

However, Coppens mentions only briefly the *real* mystery of Fátima: the "solar miracle" witnessed by thousands on 13

October 1917, including two British tourists and others several miles away.

This otherworldly phenomenon of a great moving light in the sky, which hovered for several minutes before apparently plunging earthwards to terrify many onlookers, has never begun to be explained in either scientific or religious terms.

Photographs exist of rows of watchers in a wet field in the Cova da Iria, staring skywards.

Afterwards, many wrote accounts of their experiences. One called it "the most colossal miracle in history".

Was it some strange meteorological happening, still not understood? Alien visitation? Time warp? Intrusion from another dimension? Or, as many believe, a demonstration of Divine power?

Nearly a century after the event, it is unlikely—unless something similar happens at Fátima or elsewhere in the world—that a comprehensive explanation will ever be found. But trying to find one is more interesting than worrying about those so-called secrets.

Sincerely,  
M.G.S., United Kingdom

### Dangers of DECT Phones

Dear Duncan: I note Kathy R.'s letter about an intractable ear problem in the April–May 2012 issue [19/03] and feel I must comment. I measure electromagnetic fields in houses and businesses,

and for many years have concentrated on fields from our electricity supplies only.

About 18 months ago, I started checking for radiofrequency fields in the home. To my horror, I found many cases of people sleeping or sitting near their cordless telephone base stations of the DECT [digital enhanced cordless telecomms] type.

Without exception, all of these people had identical symptoms to Kathy's. The power supply of these telephones radiates a pulsing radiofrequency signal continuously, whether the phone is being used or not. This problem does not exist with earlier phones prior to the DECT type.

Once the phone is replaced, the symptoms will slowly decrease—and I must stress that the relief is not always immediate, depending on the damage done.

One of my worst cases was of a lady with a modern hearing aid who sat within 10 centimetres of the phone aerial: any signal from the phone was being amplified by the hearing aid electronics.

So, worry less about the Earth's magnetic field and/or its interaction with the Sun and just replace the wireless telephone with a good-old-fashioned wired one. Keep up the good work.

John Lincoln, EMR Surveys, Sydney, Australia

## JAPAN SHUTS DOWN LAST WORKING NUCLEAR REACTOR

Japan is shutting down its last working nuclear reactor as part of the safety drive imposed after the March 2011 tsunami triggered a meltdown at the Fukushima plant.

The closure of the third reactor at the Tomari plant in Hokkaido prefecture, northern Japan, means that all of the country's 50 nuclear reactors have been taken offline, leaving the country with no nuclear-derived electricity for the first time since 1970.

Until last year's earthquake and tsunami triggered radiation leaks at Tokyo Electric Power's Fukushima Daiichi nuclear power plant, Japan was the world's third-biggest user of atomic energy.

All the reactors have been shut down for routine maintenance. They must withstand tests against earthquakes and tsunamis, and local authorities must give their consent in order for plants to be restarted.

(Source: *Guardian.co.uk*, 5 May 2012, <http://tinyurl.com/bmy8cb5>)



## INTENSE LIGHT PREVENTS AND TREATS HEART ATTACK

There are lots of ways that physicians might treat a patient after a heart attack: certain resuscitation methods, aspirin, clot-busters and more. Now University of Colorado (CU) medical school researchers have found a new candidate: intense light.

"The study suggests that strong light, or even just daylight, might ease the risk of having a heart attack

or suffering damage from one," said Tobias Eckle, MD, PhD, an associate professor of anaesthesiology, cardiology, and cell and developmental biology at the University of Colorado School of Medicine. "For patients, this could mean that daylight exposure inside of the hospital could reduce the damage that is caused by a heart attack."

The connection between light and myocardial infarction, known commonly as a heart attack, lies in the circadian rhythm, the body's clock that is linked to light and dark. The circadian

clock is regulated by proteins in the brain, but the proteins are in other organs as well, including the heart.

Dr Eckle and Holger Eltzschig, MD, PhD, a professor of anaesthesiology at CU, found that one of those proteins, Period 2, plays a crucial role in fending off damage from a heart attack and is activated by strong daylight.

(Source: *ScienceDaily*, 25 April 2012, <http://tinyurl.com/bnzbkb8>)

## SYNTHETIC DNA EVOLVES ON ITS OWN

Scientists from the UK's Medical Research Council Laboratory of Molecular Biology have created synthetic compounds called XNAs, which can also store and copy genetic information.

In a "big advancement", these artificial compounds can also be made to evolve in the lab, according to a new study by co-author Dr John Chaput of the Bidesign Institute at Arizona State University, USA.

First, researchers made XNA building blocks to six different genetic systems by replacing the natural sugar component of DNA with one of six different polymers—synthetic chemical compounds.



"They're not the prices, they're the Geiger readings."

# ... GLOBAL NEWS ...

The team then evolved enzymes, called polymerases, that can make XNA from DNA, and others that can change XNA back into DNA. This copying and translating ability allows for genetic sequences to be copied and passed down again and again—an artificial heredity.

All of XNA's actions are "completely controlled by experimentalists—it's 100 per cent unnatural," Chaput noted.

Such control means that scientists can "use [XNA] to ask very basic questions in biology", such as about the origins of life, Chaput said.

"It's possible that life didn't begin with DNA and proteins like we see today. It may have begun with something much, much simpler," he said.

A scientist could potentially evolve XNA to discover various functions that would have been important for early life.

(Source: *National Geographic News*, 19 April 2012, <http://tinyurl.com/c86q2pb>)

## PARALYSIS CASES RISING WITH POLIO VACCINATIONS

Cases of non-polio acute flaccid paralysis, better known as AFP, have sharply risen with the increase in the administration of oral polio vaccination (OPV) in India under the much-acclaimed polio eradication program.

According to a report by Dr Neetu Vashisht and Dr Jacob Puliyeel, appearing in the April–June issue of the *Indian Journal of Medical Ethics*, the incidence of non-polio AFP increased by 12 times over and above the normal rate with the onset of the administration of OPV 10 years ago.

Dr Puliyeel, also a member of the National Technical Advisory Group on Immunisation and of the Working Group on Drugs & Food Regulation for the 12th Five Year Plan, said that there was a definite correlation between the increase in the number

of AFP cases and the irrational administration of OPV.

Normally, he said, the chances of children under the age of 15 getting affected by non-polio AFP are 1–2 per 100,000, but the rate of non-polio AFP nationally "is now 12 times higher than expected". In 2011, an additional 47,500 children were newly paralysed, over and above the standard rate of two children per 100,000 non-polio AFP cases, says the journal paper.

(Source: *Deccan Chronicle, India*, 14 April 2012, <http://tinyurl.com/8xwo6ck>)

## FUKUSHIMA'S SPENT FUEL: A DISASTER LOOMING

Japan's former Ambassador to Switzerland, Mitsuhei Murata, was invited to speak at the Public Hearing of the Budget Committee of Japan's House of Councillors on 22 March, on the Fukushima nuclear power plant accident.

Before the committee, Murata strongly stated that if the crippled building of reactor unit no. 4—with 1,535 fuel assemblies in the spent fuel pool 100 feet (30 metres) above the ground—collapses, not only will it cause a shutdown of all six reactors but it will also affect the

common spent-fuel pool containing 6,375 fuel assemblies, located some 50 metres from the no. 4 reactor. In both cases, the radioactive assemblies are not protected by a containment vessel; dangerously, they are open to the air. This would certainly cause a global catastrophe like we have never before experienced. Murata stressed that the responsibility of Japan to the rest of the world is immeasurable. Such a catastrophe would affect us all for centuries.

According to Robert Alvarez, former Senior Policy Advisor to the Secretary and Deputy Assistant Secretary for National Security and the Environment at the US Department of Energy, the spent fuel rods contain "roughly 85 times the amount of Cs-137 [caesium-137] released at the Chernobyl accident as estimated by the US National Council on Radiation Protection".

If that much caesium-137 were released, it would destroy the world environment and our civilisation. This is not rocket science, nor does it connect to the pugilistic debate over nuclear power plants. This is an issue of human survival.

(Source: *Akio Matsumura*, 4 May 2012, [akiomatsumura.com/2012/04/682.html](http://akiomatsumura.com/2012/04/682.html))



## REALITY TELEVISION

# ... GLOBAL NEWS ...

## THE CORPORATE NETWORK THAT RUNS THE WORLD

An analysis of the relationships between 43,000 transnational corporations (TNCs) has identified a relatively small group of companies, mainly banks, with disproportionate power over the global economy.

The study's assumptions have attracted some criticism, but complex-systems analysts contacted by *New Scientist* say it is a unique effort to untangle control in the global economy. Pushing the analysis further could help to identify ways of making global capitalism more stable, they say.

The study, by a trio of complex-systems theorists at the Swiss Federal Institute of Technology in Zürich, is the first to go beyond ideology to identify empirically such a network of power. It combines the

mathematics long used to model natural systems with comprehensive corporate data to map ownership among the TNCs.

Previous studies have found that a few TNCs own large chunks of the world's economy, but they included only a limited number of companies and omitted indirect ownerships, so they could not say how this affected the global economy—whether it made it more or less stable, for instance.

The Zürich team can. From Orbis 2007, a database listing 37 million companies and investors worldwide, they pulled out all 43,060 TNCs and the share ownerships linking them. Then they constructed a model of which companies controlled others through shareholding networks, coupled with each company's operating revenues, to map the structure of economic power.

The work, to be published in PLoS One, revealed a core of 1,318 companies with interlocking ownerships (see image). Each of the 1,318 had ties to two or more other companies, and on average they were connected to twenty.

What's more, although they represented 20 per cent of global operating revenues, the 1,318 appeared to own collectively through their shares the majority of the world's large blue-chip and manufacturing firms—the "real" economy—representing a further 60 per cent of global revenues.

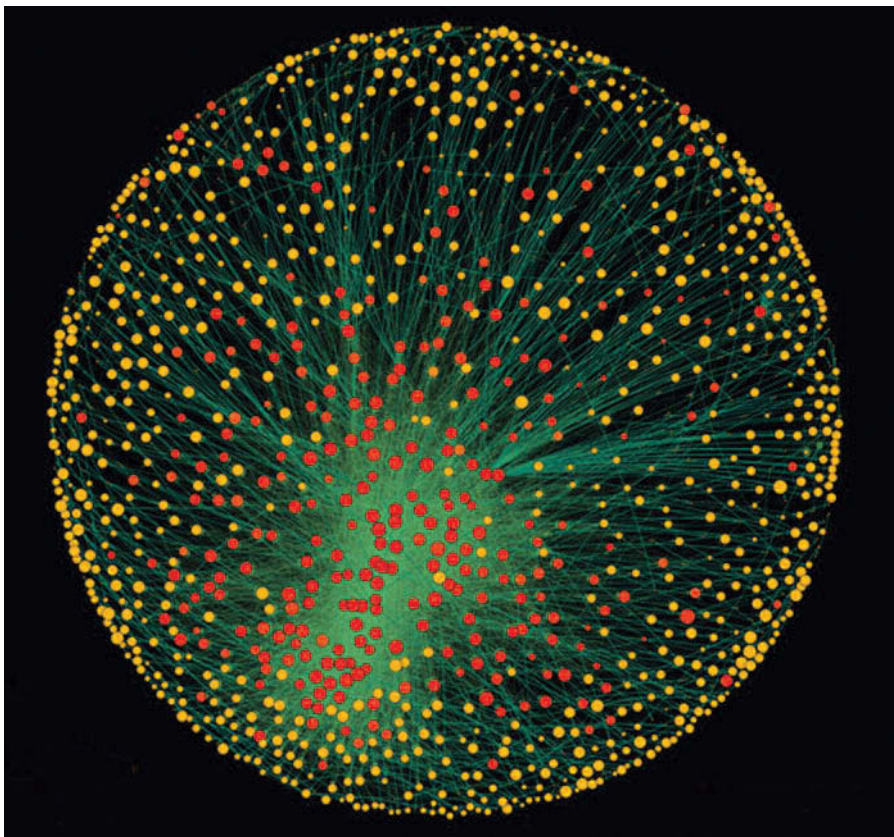
When the team further untangled the web of ownership, it found that much of it tracked back to a "super-entity" of 147 even more tightly knit companies—all of their ownership held by other members of the super-entity—that controlled 40 per cent of the total wealth in the network.

In effect, less than one per cent of the companies controlled 40 per cent of the entire network.

These are the top 20 of the 147 superconnected companies:

1. Barclays Bank PLC
2. Capital Group Companies, Inc.
3. FMR Corporation
4. AXA SA
5. State Street Corporation
6. JPMorgan Chase & Co.
7. Legal & General Group PLC
8. Vanguard Group, Inc.
9. UBS AG
10. Merrill Lynch & Co., Inc.
11. Wellington Management Co., LLP
12. Deutsche Bank AG
13. Franklin Resources, Inc.
14. Credit Suisse Group
15. Walton Enterprises, LLC
16. Bank of New York Mellon Corp.
17. Natixis SA
18. Goldman Sachs Group, Inc.
19. T. Rowe Price Group, Inc.
20. Legg Mason, Inc.

[Editor's Note: The data used in this research is from 2007, i.e., before the "global financial crisis".] (Source: *New Scientist*, 22 October 2011, <http://tinyurl.com/6gzde4f>)



The 1,318 transnational corporations that form the core of the economy. Superconnected companies are red; very connected companies are yellow. The size of the dot represents revenue. (Image: PLoS One)

## PSYCHIATRY "BIBLE" AUTHORS LINKED TO INDUSTRY

A study is raising concerns over the independence of the *Diagnostic and Statistical Manual of Mental Disorders* (DSM), published by the American Psychiatric Association (APA). DSM-5 is due to be released in May 2013.

Dr Lisa Cosgrove of Harvard University and Dr Sheldon Krimsky of Tufts University analysed the financial disclosures of 141 members of the "work groups" drafting the manual and found that 57 per cent had links to industry. What's more, the work groups that had the most members with industry ties were considering illnesses for which drugs are the front-line treatment and for which proposed changes to diagnosis are especially controversial.

(Source: *New Scientist*, 14 March 2012, <http://tinyurl.com/8zpwceg>)

## CIA AND MOSSAD REPORTEDLY BEHIND SYRIA BOMBINGS

The Turkish daily paper *Aydınlık* reported on Monday [7 May] that "CIA and Mossad agents have carried out—and [are] still [carrying out]—various attacks in several countries including Iraq, Pakistan and Libya". The report makes it clear that the agents bombed mosques during the occupation of Iraq in order to incite Shi'ites against Sunnis and vice versa.

"Those agents have achieved their goal where most of their operations were targeting Shi'ite and Sunnite mosques. All bombings were declared suicide attacks, while the suicide bombers were announced killed, but the fact is contrary to what was claimed," the daily added.

The newspaper pointed out that CIA and Mossad are adopting the same method now in Syria in order to thwart the plan of the UN envoy to the country, Kofi Annan.

(Source: *Al-Manar News*, 9 May 2012, <http://tinyurl.com/d8dz8km>)

## RUSSIAN OPPOSITION LEADERS CAUGHT ATTENDING "CONFAB" AT US EMBASSY IN MOSCOW

In mid-January 2012, just days after Michael McFaul arrived in Moscow to begin his stint as US Ambassador to Russia, Russian opposition leaders lined up outside the US Embassy to meet him in a bizarre confab that reeked of both treason and duplicity.

Approached by journalists enquiring as to why they had all come to greet the US Ambassador, the leaders gave responses that ranged from silence to dismissive jibes—implying that the journalists represented government efforts to undermine their work and legitimacy. It is a common response given by Russia's opposition members when any reporters attempt to question them about their increasingly overt ties to Wall Street and London.

Present at the US Embassy confab were regular mainstays of the western media's coverage of anti-Vladimir Putin protests, including Boris Nemtsov, Yevgeniya Chirikova of "Strategy 31", funded by the US Department of State's National Endowment for Democracy (NED), Lev Ponomarev of the NED, the Ford Foundation, Open Society and the USAID-funded Moscow Helsinki Group, and Liliya Shibanova of the NED-funded GOLOS Association, an allegedly "independent" election monitoring group that served as the primary source of accusations of voting fraud against Putin's United Russia party. Clearly, this wasn't the first time that both words and cash had been exchanged between the Russian opposition and the US State Department, but it's perhaps the most overt example yet of such flagrant conspiring.

The US Ambassador to Russia, Michael McFaul himself, is a card-carrying member of both Freedom House and the National Endowment for Democracy, two organisations notorious for extraterritorial meddling in the foreign affairs of sovereign nations and demonstratively funding, supporting and directing Russia's so-called opposition. It was accurately predicted in the October 2011 article "Agitator Nominated for Next US 'Ambassador' to Russia" that McFaul's primary goal would be to continue with America's "disingenuous front of 'resetting' with Russia, while simultaneously subverting the Russian government with US-funded political unrest". It appears that McFaul has begun his work in earnest.

Despite damning exposure of the Russian opposition's ties to Wall Street and London, the western media, even as recently as this weekend [5–6 May] during protests against Russian President Vladimir Putin's inauguration, insist that such connections are the creation of Kremlin-controlled propaganda. The Associated Press, in the article "Putin Returns to Presidency in a Changed Russia", accuses Putin of portraying the protesters as "in the pay of the Americans and intent on bringing about a revolution that would take Russia back to the instability and humiliations of the 1990s". AP adds that "with Kremlin-controlled television still the main source of information for most Russians, many believed him".

In reality, Putin's assessment of the opposition is verified by the National Endowment for Democracy's own website and the "About Us" pages of the opposition's various websites, and is confirmed by confabs conducted by opposition members themselves with foreign interests in foreign embassies on Russian soil. And indeed, many of those who are leading Russia's opposition are members and representatives of the corrupt oligarchies that plundered Russia in the 1990s after the fall of the Soviet Union. The treason is so overt, it begs the question as to whether the United States has indeed become this recklessly brazen, this desperate, or is playing a broader geopolitical gambit yet to be revealed.

(Source: *Tony Cartalucci, Land Destroyer Report*, 6 May 2012, <http://tinyurl.com/727bg03>)

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# DOUGLAS DIETRICH ON THE HIDDEN SIDE OF HISTORY

*A former  
US Department of  
Defense military  
librarian and  
Marine reveals  
hidden imperial and  
World War II  
history, including  
how Nazi Germany  
was the first power  
to develop and  
deploy the atomic  
bomb.*

*Part 1*

An Interview with  
**Douglas Dietrich**  
© 29 April 2012

by **Thomas Kirschner**  
Publisher of the German edition  
of NEXUS Magazine

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

**Thomas Kirschner [TK]:** How did you start out so young, with a career in destroying classified military documents?

**Douglas Dietrich [DD]:** When I was in what is normally called high school, I was learning a vocational trade in commercial illustration. During that period of time, all the while I was at this vocational institute, there was an Albanian secretary who was working with the Department of Defense with Radio Free Europe in the United States, sending broadcasts to behind the Iron Curtain in Albania. Because of that, she knew that there was an opening with the Department of Defense library for a librarian's aide at the Presidio military base in San Francisco.

The reason that this is important is because the Presidio military base was something that I had access to as a military dependent. Since my father was military, I had a dependent's ID—meaning that I could go on base, shop in the commissary and use various military facilities. So because I already had access to the base, I got the job as a librarian's aide at age 16, around 1982, just shelving books originally, and everything got more in-depth from there.

This means that I was working as a civilian on a military base, but the Presidio military base was particularly important because it was where the United Nations was founded, just three days and three weeks after the Japanese attack on Pearl Harbor on 7 December 1941. What happened was that President Franklin Roosevelt founded the United Nations with its original five Security Council members, one of which was Nationalist China, and that is important because I was born in Taiwan, where Nationalist China ultimately re-established itself.

**TK:** But you are an American citizen aren't you?

**DD:** That is correct. I was born in Taiwan, but my father was an American serviceman, so that made me automatically a naturalised American citizen and, as a result, that is why I was able to get military dependent status, why I was able to work for the government.

In terms of some of the difficulties behind my personal situation, why I appreciated the history of what I was looking at in terms of document destruction was because, as a military librarian, one of my primary responsibilities was document destruction. The reason why I appreciated history so much was that my mother was Asian, and Asians were classified for a long period of time as enemy aliens. You see, because they all looked alike, the Americans claimed that all Asian Pacific Islanders and mainlanders were enemy aliens. No GIs were allowed to marry them, so what happened was that all of the officers and servicemen who were trying to marry Asian women overseas ended up suing the US military.

The Supreme Court of the United States overturned all of these women being enemy aliens. It overturned that uniform code of military justice as unconstitutional. At the same time, the Treaty of Peace with Japan was

signed, which was 8 September 1951. Until that time, Japan and the United States were still legally at war.

To clarify this, the base that I worked on was where the United Nations was founded. The United Nations was organised by Roosevelt three days and three weeks after the Japanese attack on Pearl Harbor as an organisation of war, as per Article 42 of the United Nations Charter—in lieu of a constitution it has a charter—but it was meant as an organisation of war, originally to coordinate all partisan or resistance armies behind the lines of Axis-occupied nations. Everywhere, from Denmark to the Philippines, any resistance armies that were fighting the Axis were supposed to be supplied and coordinated by the United Nations.

The Presidio military base operated as the US Western Defense Command from 1941 to 1946, but it was also the base from which all of the US wars with the Philippines, Vietnam, Korea, and any of the Pacific coastal South American nations were sourced. It served as the "Pentagon" of the United Nations as well.

In 1945, with the cessation of proactive hostilities, the United Nations as a *peace* organisation, a peace branch, was set up in New York City. However, the military branch of the UN was set up a long time before in San Francisco and was to remain there for many years.

As a result, I was dealing with all the military documents of the United Nations, which gave me a far different perspective of the world around me than most people have.

There was even a UN battle flag known as the United Nations Honour Flag. It was just four simple vertical stripes in red on a white background, to represent the four freedoms of Franklin Roosevelt, and this flag was in operations as a battle flag until 1948 or 1949. Different people conclude that it stopped being used as a battle flag just very shortly before the Treaty of Peace with Japan was signed. The reason why is that the United Nations was still legally at war with Japan.

It is a very confusing issue for most people, but they do not understand how important it is because this is one of the reasons why the Japanese and the Germans and the United Nations have very strange relations. The United Nations went through a lot of difficulties and, at this point in history, it was a very anachronistic body, just like the League of Nations was.

In terms of Germany's peace treaty with the United Nations on 12 September 1990, after the fall of the Berlin Wall in 1989, the United States, the Soviet Union, France and then Great Britain finally concluded a peace treaty with the Federal Republic of Germany and the German Democratic Republic.

**TK:** I always heard that we still don't have a peace treaty. That is what people always tell you in Germany.

**DD:** It is interesting. They are probably correct in the sense of the Third Reich. That is the problem. Many people don't understand that, as far as the Third Reich is concerned, it is a government in exile, just like the Nationalist Republic of China on Taiwan. The Nationalist Republic of China re-established the island of Taiwan and it considers itself the legal representative government of all mainland China, or at least it did until very recently.

### Japanese Documents on a Jewish State

**TK:** Please continue. It is very interesting.

**DD:** The point is that by dealing with all of the documents that I was destroying, which came from other countries whether Allied or Axis, one of the issues I was contending with was that they would have

American intelligence officers interpret these documents—but only to the point where the officers felt the content was pertinent, and then they would write a summary to justify or dismiss further translation.

As an example, the Japanese before World War I had a life-and-death struggle with Tsarist Russia that had been ongoing since 1904. The Japanese nation, which had a Third World economy at that time, was going broke from fighting with

Tsarist Russia. What saved the Japanese was that an American–Jewish person in New York began to finance the Japanese war efforts because he had lost many relatives to the Russian Tsarist anti-Semitic program. As a result, the Japanese were able to carry their war to victory. By the time of the 1930s, the Japanese were ready to repay the Jewish population by resettling an enormous number of them in northern Manchuria. When they did this, Adolf Hitler thought that this was a fabulous idea. He wanted to make sure to expel as many Jews as he could from Europe, and he helped the Japanese re-establish an enormous part of the Jewish population into northern Manchuria.

That nation is still there today, between Manchuria and the former Soviet Union. Search for the term "Jewish Autonomous Oblast" on the Internet. It is functionally, at this point, like a dependency, a fiefdom of Russia, but the reality is that it is a pseudo-independent buffer state. It is simply not recognised by the United Nations, in a very similar way to, say, Kurdistan.

The Israelis don't want anyone to know about this nation because they are afraid that all of the Palestinians and the rest of the Arab world might say,

**“...I was dealing with all the military documents of the United Nations, which gave me a far different perspective of the world around me than most people have.”**

"Well, that 'Israel' in Asia existed long before the Israel in the Mediterranean. Why didn't/don't you all move there?"

It is like a huge, dirty secret, but I want the world to know about this because the plans that the Japanese had for establishing this nation-state were basically what I was incinerating.

So this is an example of how the Americans would handle that sort of information. An intelligence officer would get all these volumes of Japanese papers in the post-ceasefire era and say, "This looks interesting", and would bring them home to the United States. And since the United Nations military branch was in the Presidio military base in San Francisco, the documents would be brought there because it was a *military* issue. I destroyed literally thousands and thousands of these types of documents.

**TK:** Did you get a chance to read many of those particular documents before you burned them?

**DD:** They were all in Japanese, so what I had to read in those cases were the American translations. I read about 100 pages, which in itself is an enormous amount of information that was never given to the American education system, never given to the American media, but this is something that I can prove to people because not only can they look it up on the Internet, they can visit the place.

### Genocide and Ecocide in Bari

**DD:** In the case of so many other things, we have similar examples. I will give you an example of the kind of warfare that happened on the European continent which people are totally unaware of.

The Americans, as well as the British, had been so badly defeated so many times in North Africa by the Deutsches Afrikakorps under Field Marshal Erwin Rommel that they felt that an invasion of the European continent would be so costly that they would rather use weapons of mass destruction to try to force the Third Reich to ask for peace. The entire intent was just to bomb Germany with nerve gas, against the laws of the Geneva Conventions and the international law of the League of Nations, of which the United States was a founding member, indeed *the* founding member. They were willing to break their own international laws because they were *that* desperate.

What happened was that the Americans and the

British shipped in tons of mainly mustard gas, but there were any number of other early developmental, experimental nerve agents that they brought into the port of southern Italy at Bari. At Bari, you had all of these merchant ships, British and American, surrounded by military ships where they had captured southern Italy and they were getting ready to bomb the cities of Düsseldorf and Köln with gas bombs.

When German naval intelligence discovered the presence of all these chemical weapons, it notified Reichsmarshal Herman Göring of the Luftwaffe. On 2 December 1943, the Germans conducted a strategic bombing campaign of Bari. It was so masterful that it did more damage to the American fleet than the American fleet had suffered at Pearl Harbor. All of those

ships at Bari, literally well over 17 Allied merchant ships and well over as many military ships with all of those tons of nerve gas agents, exploded and an enormous cloud of toxic chemicals flew over the city of Bari and killed hundreds of thousands of people.

**TK:** Why don't we ever hear of that?

**DD:** You will never hear of that because the American government was forced at the end of the war to support the Marshall Plan for reconstruction and, during that period of time, they paid an enormous amount of bribes to the successive Italian governments to keep it a secret. The successive governments conducted an enormous reconstruction of the city of Bari, cleaned up all of the cadavers and buried as many of them as they could. They actually had to incinerate them to prevent plague because the bodies bloated with the nerve gas, just

as they did on the fields of France in World War I, and exploded, so they provided an enormous breeding-ground for potential plague-carrying agents like rats or flies and various other pests.

**TK:** That must have spoiled the whole ecosystem there, too.

**DD:** In those days, nobody concentrated on examining or analysing ecocide or environmental damage. I never saw any records concerning that.

Bari was totally reconstructed and made into a new, thriving city. At that time, the damage to Bari made the Italian population so resentful, so hateful of the Allied forces that Mussolini was able to stabilise the Salò

**“All of those ships at Bari ... with all of those tons of nerve gas agents, exploded and an enormous cloud of toxic chemicals flew over the city of Bari and killed hundreds of thousands of people.”**

Republic in the North. Pretty much until the end of the war, until he himself died, the Salò Republic remained in the northern region of Italy, allied to the Third Reich, and that part was never conquered or taken by the Allies. They were able to claim victory on the Italian Peninsula, but Mussolini's front never failed.

This goes to show you how little anyone knows about their history. As a matter of fact, the German forces at Monte Cassino and these various other areas on the Italian Peninsula refused to surrender for the most part to British and American forces, so the Americans had to bring Brazil into the war. At that point, Brazil declared war on the Axis and it was the Brazilian forces that would take the surrenders of the various German or Italian units in various areas because they would not surrender to the British or the Americans.

### Behind the Surrenders

They have covered this up so well that people know nothing about it. That, essentially, is what is so important, and this is why peace has been declared with the German Democratic Republic and the Federal Republic of Germany. It was because, at this point, the Allies needed German money. The only way they could get German money was to end the war with the two replacement governments for the Third Reich.

On 12 September 1990, as I said, the United States, the Soviet Union, France and Great Britain concluded a peace treaty with the Federal Republic of Germany and the German Democratic Republic. So World War II was formally over, as far as those entities were concerned, but neither of those entities existed during the Second World War.

Nevertheless, the formality had to be concluded so that they could get the Deutsche Mark to back up the euro. Think about what I am saying. The nations that concluded this treaty with Germany, both East and West, were France, Great Britain, the United States and the Soviet Union. Where was China? The Nationalist Republic of China was the fifth ally on the United Nations Security Council. China never declared peace with Germany because China had already done so, many years before, and that was in 1945.

In 1945, the Nationalist Republic of China declared peace with the Third Reich and the Empire of Japan, and that is why, if you ever take a look at those photographs of that phony surrender on the USS *Missouri*, where you

see all of those Allied officers standing on the deck of the *Missouri* supposedly accepting a surrender from the Japanese leadership, one thing you don't see is any Chinese leader. You have to wonder, "Well, good God, the Japanese were as involved on the Chinese front as the Germans on the Russian front."

As a matter of fact, most of the Japanese forces were on the Chinese front. Most people are totally unaware of this, but over 90 per cent of the Japanese military spent all of World War II in China. Everything the Americans ran up against in the Pacific was less than 10 per cent of the Japanese war machine. The Japanese considered the Chinese front to be the primary front, just like the Germans considered the Russian front to be the primary front. So why were the Chinese not on that ship? The reason why is because they had already settled for peace with Germany and Japan.

You can take a look at the entire world history of the American republic from when they fought the Barbary pirates in North Africa to when they fought nations in South America, or when they fought in Angola, Vietnam, Cambodia. What is the one thing that every nation on Earth that has fought the United States has in common? Poverty. Enormous poverty.

There are no nations that have ever fought a war with the United States where the United States after that war said, "Hey, let's help you out. Let's do some reconstruction. Gosh, we have done so much damage to your country. Let's help you fix up again." Only Germany and Japan and the Axis of nations that were outside of the Soviet sphere of influence got reconstruction from the Americans. Why? Because they were able to force the Americans into reparations. That is why General George Catlett Marshall,

Chief of Staff of the United States Army, who institutionalised the Marshall Plan, was the only soldier in history ever to win the Nobel Peace Prize.

### Roosevelt's Plans for Total War

**TK:** Did I get that right? The Americans had to pay reparations to the Germans?

**DD:** Yes, and you can imagine that this is hard for many Germans to believe because most Germans are under the impression of how terrible it was after the war, and it was. It was terrible after the war, but a lot of British would complain because with their austerity programs in some ways they were worse off than the

**“The Japanese considered the Chinese front to be the primary front, just like the Germans considered the Russian front to be the primary front. So why were the Chinese not on that ship?”**

Germans were, and they were supposed to be one of the victors in the war. You have to ask yourself: how did this happen? What was going on?

One of the worst things that happened was that America was literally led by a madman, Franklin Delano Roosevelt. He was a madman who had no concept of peace. He was infatuated with the concept of extermination. Many people are unfamiliar with the concept of total war as perceived by the British and ultimately by the Americans.

**TK:** So total war is a concept of genocide, isn't it?

**DD:** Absolutely. The British failed in this because they lacked the technology in the hundreds of years of wars with the Irish, the Scots and the Welsh to eradicate them. The Americans were trying that with the Southern Celtic French. The overwhelming numbers of Americans in the North during the Civil War were Anglo and Teutonic. There were descendants from the Pennsylvanian Dutch, many Anglo-Saxon Protestants; whereas in the South they were overwhelmingly descended from the Celtic peoples: Scots, Irish, various Gaelic peoples, French Huguenots, who were French Protestants. They were culturally and ethnically very different in composition from those in the Northern states, so when the Northern states conducted the Civil War they were conducting a war of extermination that reflected what the British had been conducting with their Celtic French for many hundreds of years. That was simply a carry-on of that cultural phenomenon.

It was from this that Franklin Delano Roosevelt developed his concept of total war. When he was originally Assistant Secretary of the Navy from 1913 to 1920, Roosevelt developed the strategic priorities of an actual plan which he submitted to the American military commanders in 1935, where he recommended the seizing of Halifax and Montréal in Canada in a lightning campaign before Great Britain could intervene decisively. They fully expected the British to get aid from Japan because Japan was a fellow monarchy that was being threatened by the United States, which always promoted democracy in the same manner that the Soviet Union promoted communism: by violence, at the barrel of a gun, by force of arms.

They calculated that the British Navy would threaten the US interests in control of the Philippines, Alaska, Hawaii, Guam, Samoa, Cuba, Puerto Rico and even the Panama Canal. In exchange for these losses, President Roosevelt planned to conquer Canada. It would have been his version of Adolf Hitler's conquest of the Soviet

Union. This prize would become an arsenal to manifest destiny and a platform from which to rebuild and eventually to regain all that would be lost elsewhere. He had a whole series of plans that were basically designed for the conquest of any individually developed nation on Earth.

War Plan Red meant war with the British Empire. War Plan Crimson was specifically the invasion of Canada, and War Plan Orange was war with Japan. All who say, "Oh, these were just contingency plans", are totally unaware of the fact that the United States had worked on and revised War Plan Red until it was one of the most detailed war plans in the history of mankind.

Literally thousands of pages, something like hundreds of volumes, went into this, and they were going to invade a neutral Canada, abolish the government, hold the conquest in perpetuity and destroy the population. They were going to use poison gas. That was authorised. As a result, the British began a military build-up in the inland ocean of the Great Lakes. The Great Lakes of the United States are considered an inland ocean in terms of naval affairs.

As a result of this period of tension, in August 1935 over 35,000 regular United States Army and National Guard troops, elements of five divisions, manoeuvred as the first army in a show of force that anticipated commencement of War Plan Crimson. This war plan, as I said, was a subset of War Plan Red, which was the projected war with Great Britain, with the British conflict—a worldwide conflict—

easily making the term World War II appropriate. This showing of the flag extended all over upstate New York, backed by 15,000 more US National Guardsmen conducting corps-level operations in Pennsylvania.

An invasion of Canada would have deprived the British Royal Family of a potential relocation site in the event of a Nazi invasion of the British Isles.

Because of this double threat that it faced between the Third Reich and the United States, the Royal Crown bought off American aggression by giving Roosevelt the opium trade in China that had floated the British Empire for almost 100 years.

In the 1800s, a distant relative of mine, Commissioner Lin, fought in the Opium Wars against the British Empire. He sacrificed his career in fighting the British. Ultimately, when the British conquered much of China and won the Opium Wars, they forced the Qing Dynasty, the Manchurian rulership of China, to buy massive amounts of opium from them and give it not only to the entire population but to their royal families.

The British were producing cannonball-sized balls of

**“...the Royal Crown bought off American aggression by giving Roosevelt the opium trade in China that had floated the British Empire for almost 100 years.”**

opium in India and shipping them upriver into China where they eviscerated the Chinese economy and population, but this made Britain one of the richest empires on Earth. The British turned all that over to the Americans to pay Roosevelt off so that he wouldn't invade Canada, and, as a result, that is what started the war with Japan. With the Americans taking over the opium trade in China, it brought them into direct conflict with the Japanese Empire. That is what led to the Second World War.

As for the British, they began in terms of the monarchy to manipulate the politics of the British Prime Ministry to get Winston Churchill into power. At the time that Roosevelt was threatening Canada and the British Empire, he didn't have Churchill to deal with.

One of the reasons Churchill was put into power was that he was half-American. His mother was Jennie Churchill, a US citizen, and thus he was able to placate and manipulate the madman Roosevelt into war away from Great Britain and into war with Germany. That is one of the major reasons why he was put into power.

That is another aspect of history of which everyone in America is unaware—because it is a totalitarian society, as ruthless in its destruction of historical documents as was the Soviet Union. There is nobody in America who even knows this. There are very few people in Britain who know this.

**TK:** Nor in Germany. We are always told that Germany started the war, and we only know the story from this perspective.

**DD:** Yes, well, don't feel alone in that because nobody learns this in Japan, nobody learns this in the United States and nobody learns this in the Soviet Union. How many people remember that Roosevelt died before Hitler did? Almost nobody remembers this. This is one of the reasons why the Third Reich was able to force America into concessions.

**TK:** Hang on. The Third Reich was able to force America into what? Into concessions?

**DD:** Absolutely. Concessions would mean that the Americans would allow various advantages to the Nazi civilian government for relocation. Just like the Nationalist Chinese government was able to relocate itself onto the island of Taiwan, the Third Reich was able to relocate itself initially to Argentina, then to Antarctica and now, eventually, to what was referred to as Unterland.

One of the reasons why Grand Admiral Karl Dönitz of the U-boat arm of the Kriegsmarine was able to become

the last Führer of the Third Reich after Adolf Hitler is because he was in charge of so many important operations. One of them was Operation *Hannibal*, the largest evacuation of civilians in the history of humanity.

### German and Japanese Atomic Warfare

**TK:** They were evacuated to...where?

**DD:** To central Germany from the Baltic nations: Estonia, Latvia and Lithuania. The Nazis considered Estonia, Latvia and Lithuania to be Germanic nations that had been part of the Order of Teutonic Knights for many thousands of years, or hundreds of years at least. They felt that these were Germanic populations that they did not want to leave under the Soviet Union without rescuing as many as they could. This is one of the reasons why, when the Germans developed the atomic bombs, they were used primarily in Courland, part of Latvia. Courland is basically where the Germans deployed a tactical atomic weapon. This is something very important to remember.

**TK:** When was that exactly?

**DD:** In October 1944.

**TK:** So you are saying that the Germans had an atomic bomb in 1944?

**DD:** Absolutely. This is what is so important. The Americans have turned the atomic bomb of theirs into a religion. To them, it is literally like a religious object. There were multiple

reasons for this, but the main reason was money.

There were only two nations on Earth which had an industrial base but did not have an air force: Imperial Japan and the United States. What Japan had was the Imperial Japanese Navy Air Service and the Imperial Japanese Army Air Service. The Americans had the US Naval Air Corps, the US Marine Corps Aviation and the US Army Air Forces, but there was no United States Air Force until 1947.

The only way the Americans could get an air force was to sell the lie that their strategic bombing had worked. But their strategic bombing hadn't worked at all. It failed to hinder effectively increasing productivity rates under the administration of Albert Speer. Their strategic bombing had failed to damage the war effort of the Japanese—at all.

**TK:** Can I interrupt again and go back with you to the topic of the atomic bomb being in possession of the Germans? That is one thing that the Germans would never believe. They would think, "Hey, if they had the atom bomb, why didn't they use it?" But you said that they *did* use it.

**DD:** They *did* use it, and here I will tell you something.

**“Courland is basically where the Germans deployed a tactical atomic weapon. This is something very important to remember.”**

Germany had an enormous mining industry. So did the Japanese. There were large uranium ore deposits in North Korea, which was part of Japan. There were large uranium deposits in Bohemia, the Reich Protectorate of Bohemia and Moravia. Reinhard Heydrich of the Sicherheitsdienst, the SD, was the Deputy Reich-Protector of Bohemia and Moravia, and one of the reasons that he was in charge was because of the technical development of uranium.

**TK:** But I think uranium is not the only ingredient in the nuclear weapon. Didn't they also desperately try to produce heavy water?

**DD:** Heavy water plants existed in Norway. As a matter of fact, they were common enough that the British were able to identify a heavy water plant in Narvik, in Norway, and they actually sent a Norwegian commando team to blow it up. There were attacks on various German heavy-water plants. One of the larger ones was in the Eastern European region, and I believe that this is best gone into with certain people who have done their best to investigate it, such as Nick Cook or Joseph Farrell.

**TK:** But they never concluded that the Germans did have an atomic bomb and made use of it. I don't remember having read that.

**DD:** No. The problem is that researchers like Farrell or Cook are outsiders looking in and not insiders looking out. I was exposed to the documents such as those of SS General Jakob Sporrenberg, who, in his Polish war crimes affidavit—basically concerning his help with developing the atomic bomb—told about the development and the deployment at Courland.

At the end of the war, the Americans and the Soviets propagandised that every inch of land in Germany or continental Europe basically had been swept or occupied by either the Soviets or the Americans. This is not true. There were many areas that were pockets of Third Reich administration long after the Soviets and the Americans met each other at several points of the map. One of those areas that was occupied by the Third Reich after the Soviets and the Americans had met was where all these talk-down processes were going down with various elements of the Reich's government.

Where the Third Reich was relocating itself, it had various units in these pockets of Europe that were still holding on to areas in the mountains, areas in Estonia

on the Baltic Peninsula. Estonia was held because, to cover the massive evacuation of civilians in Operation *Hannibal*, which was ongoing in October 1944, Adolf Hitler ordered the deployment of a nuclear weapon and stopped the Soviets' push. It was the German version of what the Japanese did on the Korean Peninsula.

Everyone knows that the Demilitarized Zone in the Korean Peninsula divides North and South, but nobody knows how it got there. If you look into regular history books, nobody explains why the Soviets stopped on that line. They had basically swept into Manchuria, they had occupied the Jewish Autonomous Oblast, they were going in to South Korea and they were ready to invade Japan. People don't understand that the Korean Peninsula and Japan are so close that you can drink a can of beer on the Korean or Japanese beach and if you throw it in the water it will flow up onto the other nation's beach.

If the Soviets had gone down to South Korea they would have invaded Japan, but they were stopped because of the Japanese deployment of atomic weapons on 12 August 1945. The Germans did the same in Courland.

There was an affidavit concerning the interrogation of a Luftwaffe test pilot, which was released during the Clinton administration, who provided evidence that the Third Reich tested an atomic bomb probably via a very, very large cruise-missile delivery. It caused a mushroom cloud on the Baltic coast that was a full kilometre in diameter, with continuous internalisation of combustion leading to electrical interference with instruments in Great Britain.

**TK:** So, by the end of 1944, how many nations would you say had the atomic bomb?

**DD:** The Axis—Germany and Japan—had it first, and then the Americans developed it last. The Axis viewed these atomic bombs as operational ordnance.

Because of the report of the mushroom cloud on the Baltic, Great Britain put all of its constables, fire departments and medical evacuation teams within the civil defence infrastructure on atomic alert. This is why US troops hit the D-Day beaches with Geiger counters.

The United States was faced even more with Grand Admiral Karl Dönitz's Operation *Seewolf*. On 1 April 1945, the British warned the Americans and Canadians of what they'd found out from their intelligence units on continental Europe. They said that Grand Admiral Karl Dönitz had launched what was known as the Fenris Wolf

**“If the Soviets had gone down to South Korea they would have invaded Japan, but they were stopped because of the Japanese deployment of atomic weapons on 12 August 1945.”**

Pack. It consisted of six *über* U-boats *en route* to North America that were capable of delivering very large rockets that contained nuclear warheads. Because of this, the Commander-in-Chief of the Atlantic Command (CINCLANT) warned the American public on national radio and through newspapers that they had better prepare for an atomic attack from the Third Reich.

**TK:** Wow, I can't believe it! So why did they lose the war, then? Or did they never lose it at all?

**DD:** Well, in a very real sense, they did not! But on 24 April, after nine days of engagement, the last of the *über* U-boats were destroyed by the US Navy. However, Grand Admiral Karl Dönitz had proved his point: that he was capable of a nuclear attack against the United States. The reason why Adolf Hitler gave him the go-ahead for this was because in October 1944, when the atomic bomb was deployed to stop the advancing Soviet forces in Estonia, the Germans stopped the Soviet advance cold and they were able to hold Courland until after the Soviet occupation of Berlin. Because of that, the Wehrmacht forces were there, but, during that period of time, during the deployment of the bomb itself, medical doctors informed Adolf Hitler that the radiation caused by that bomb did cellular damage.

This was the first time in history that an atomic weapon had been deployed, and through its deployment the German medical community was able to identify the fact that radiation does not behave like a virus, that the cell could not fight off the radiation with antibodies. When the doctors told this to Adolf Hitler, they explained to him that radiation, unlike a disease, does not fight by the rules; the body cannot defend itself against the radiation or build up an immunity.

Adolf Hitler was obsessed with biological analogies. He viewed antipartisan warfare as an immunisation process. He actually used that analogy multiple times. When he was confronted with this reality of atomic weapons, Hitler felt that any further deployment on the continent of Europe would be a threat to the genetic viability of Aryan man. He swore that, no matter what happened, he would never again deploy atomic weapons on the continent of Europe.

**TK:** From where do you know all these things? Was this all in the documents that you had to incinerate?

**DD:** Very much so. They translated summarisations into English, and then the Americans said, "We don't want anyone to know this."

This is why it is so important for me to talk about the

air force. The whole purpose of the Americans organising an air force was to have a bottomless pit in which to hide stolen American money. To do that, they needed to tell the public, "We have to build atomic weapons because atomic weapons won the war." It was all a lie, and the only way to contain the lie was to just destroy all evidence of the truth.

The reality was that the Little Boy bomb was a German bomb. It was a standardised piece of atomic ordnance that was developed by the Axis. It had bombs by the dozens. But the Axis, both the Germans and the Japanese, viewed these as operational-level ordnance—not tactical, not strategic, not to break a war, but something to break an army in the field. The Germans were the first to develop them. They had a realistic version of them, and the reason why the Little Boy was built the way it is, is because the entire thing was built to fit inside the fuselage of a medium bomber, and the

bomber itself was the delivery system. In other words, it would be a suicide bomber. The Japanese were very comfortable with this. The Germans also developed a suicide pilots corps that was willing to utilise this weapon. They never needed to deploy it. ∞

#### Editor's Note:

Part two in our next issue covers underground bases in Antarctica, foo fighters, Nazi claims of extraterrestrial contact, what

really happened during Operation *Highjump*, and more.

#### About the Author:

Douglas Dietrich is the son of a decorated US Navy sailor. He worked for 10 years as a US Department of Defense military librarian at the Presidio military base in San Francisco, where one of his major duties was document destruction. He was responsible for incinerating highly classified materials on critical historical topics. Each night, from memory, he made entries in a personal notebook of all of the top-secret documents he had destroyed.

Dietrich experienced the Kuwaiti campaigns of operations *Desert Shield* (1990) and *Desert Storm* (1991) as a US Marine, during which time he was exposed to cyclosarin nerve gas which resulted in collapsed lungs and radical experimental surgery. After mustering out of the USMC in late 1991, he began a career as a private security agent which continued until he became a full-time carer for his dying parents. He now channels his energies into media production, conference presentations and radio interviews covering a wide range of hidden history topics. See the review of his DVD *Roswell and the Rising Sun* in this issue.

For more information, visit Douglas Dietrich's website <http://www.douglasdietrich.com>.

**"The reality was that the Little Boy bomb was a German bomb. It was a standardised piece of atomic ordnance that was developed by the Axis..."**

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# THE BIOLOGICAL EFFECTS OF WEAK ELECTROMAGNETIC FIELDS

*Adverse health effects from exposure to weak electromagnetic fields are the result of structurally important calcium ions being removed from cell membranes, causing leakage into the interior of the cells and long-term damage to cellular functioning.*

by Andrew Goldsworthy, PhD  
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Email: [a.goldsworthy@ic.ac.uk](mailto:a.goldsworthy@ic.ac.uk)

From the web page:  
<http://tinyurl.com/2nfujj>

There have been many instances of harmful effects of electromagnetic fields from cellphones (a.k.a. mobile phones), DECT phones (a.k.a. cordless phones), Wi-Fi, power lines and domestic wiring. They include an increased risk of cancer, loss of fertility, effects on the brain and symptoms of electromagnetic (EM) intolerance. Many people still believe that because the energy of the fields is too low to give significant heating, the fields cannot have any biological effect. However, the evidence that alternating electromagnetic fields can have non-thermal biological effects is now overwhelming (see <http://www.bioinitiative.org> and <http://www.neilcherry.com>). The explanation is that it is not a heating effect, but mainly an electrical effect on the fine structure of the electrically charged cell membranes upon which all living cells depend.

Alternating electromagnetic fields can induce *alternating currents* to flow through living cells and tissues. These can interfere with the normal *direct currents* and voltages that are essential for the metabolism of all cells. Virtually every living cell is a seething mass of electric currents and electrical and biochemical amplifiers that are essential for their normal function.

My main objective here is to show how most of the adverse health effects of electromagnetic fields can be attributed to a single cause, that being that they remove structurally important calcium ions (electrically charged calcium atoms) from cell membranes, which then makes these membranes leak.

## Electromagnetic Fields Affect Many, But Not All People

Many of the experiments on the biological effects of alternating electromagnetic fields appear to give inconsistent results. There are many reasons for this, including differences in the genetic make-up, physiological condition and history of the test material. In humans, reported effects include an increased risk of cancer, effects on brain function, loss of fertility, metabolic changes, fatigue, disruption of the immune system, and various symptoms of electromagnetic intolerance.

Not everyone is affected in the same way, and some may not be affected at all. However, there is increasing evidence that the situation is getting worse. Our electromagnetic exposure is rapidly increasing, and previously healthy people are now becoming sensitised to it. In this study, I am concentrating on the cases where there have been definite effects, since this is the most efficient way in which we can find out what is going wrong and what can be done to prevent it.

The fields that give the most trouble are in the extremely low frequency range (ELF), and also radio frequencies that are pulsed or amplitude modulated by ELF. (Amplitude modulation is where the strength of a carrier wave transmits information by rising and falling in time with a lower frequency that carries the information.)

## Why Microwaves are Particularly Damaging

The frequency of the carrier wave is also important. Higher frequencies, such as the microwaves used in cellphones, Wi-Fi and DECT phones, are the most damaging. Our present exposure to man-made microwaves is about a million billion billion (one followed by 18 zeros) times greater than our natural exposure to these frequencies. We did not evolve in this environment and we should not be too surprised to find that at least some people may not be genetically adapted to it. As with most populations faced with an environmental change, those members that are not adapted can become ill, die prematurely or fail to reproduce adequately. Ironically, those who are electromagnetically intolerant may be better equipped to survive, since they are driven to do whatever they can to avoid the radiation.

The main reason why microwaves are especially damaging is probably because of the ease with which the currents that they generate penetrate cell membranes. Cell membranes have a very high resistance to direct currents, but, because they are so thin (about 10 nanometres), they behave like capacitors so that alternating currents pass through them easily. Since the effective resistance of a capacitor to alternating current (its *reactance*) is inversely proportional to its frequency, microwave currents pass through the membranes of cells and tissues more easily than do radio waves of lower frequencies, and therefore they can do more damage to the cell contents.

## Calcium Loss from Cell Membranes

Calcium loss from cell membranes explains most of the adverse health effects. I became interested in this topic when I was working on the biological effects of physically (magnetically) conditioned water, which is widely used to remove lime scale from boilers and plumbing. It is made by allowing tap water to flow rapidly between the poles of a powerful magnet or by exposing it to a weak, pulsed, electromagnetic field from an electronic water conditioner. Water treated in this way can remove calcium ions (electrically charged calcium atoms) from surfaces, and the effect on the water can last for several days.

I was following up some Russian and Israeli work that had shown that magnetically conditioned water could increase the growth of crops, but it turned out to be far more important than that. The underlying principle was also to explain the mechanisms by which weak electromagnetic fields can damage living cells, and also what can be done to stop it.

Probably our most important discovery was that when tap water was conditioned by weak electromagnetic fields, the treated water gave similar effects in yeast to those from exposing the yeast itself, amongst which was an increased permeability of the cell membranes to poisons (Goldsworthy *et al.*, 1999). Since it had been known since the work of Bawin *et al.* (1975) that weak electromagnetic fields could remove calcium ions from the surfaces of brain cells, it seemed likely that both the conditioned water and the electromagnetic fields were working in the same way, i.e., *by removing structurally important calcium ions from cell membranes, which then made them leak*. We now know that membrane leakage of this kind can explain most of the biological effects of both conditioned water and of direct exposure to electromagnetic fields.

## Growth and Conditioning

We also showed that the effects of conditioned water on the growth of yeast cultures depended on the length of the conditioning process. Less than 30 seconds of conditioning stimulated growth, but more than this inhibited growth. It was as if the conditioning process was steadily generating one or more chemical agents in the water.

A low dose from the shorter conditioning period stimulated growth, but longer conditioning periods gave higher doses

which were inhibitory.

By the same token, blood continually circulating for prolonged periods under the pulsating fields from a cellphone or similar device could become toxic to the rest of the body. This means that no part of the body, from the brain to the liver and gonads, can be considered to be safe from the toxic effects of pulsed electromagnetic fields.

## The Radiation Hormesis Phenomenon

Many people have shown similar dual effects with direct exposure to both *ionising and non-ionising* radiation. Small doses of otherwise harmful radiation often stimulate growth and appear to be beneficial—a phenomenon known as *radiation hormesis*—but larger doses are harmful. It also explains why small doses of pulsed magnetic fields are effective in treating some medical conditions such as broken bones (Bassett *et al.*, 1974) but prolonged exposure is harmful.

It also explains some of the apparent inconsistencies found when comparing different experiments and why meta-analysis of the data should be treated with caution. Clear positive and clear negative results (depending on the dose and the condition of the

**...microwave currents pass through the membranes of cells and tissues more easily than do radio waves of lower frequencies, and therefore they can do more damage...**

material) when taken together could be mistaken for no effect, but with a high degree of variability.

### Cell Amplification and Response to Weak Signals

We now know that electromagnetic growth stimulation is almost certainly due to electrochemical amplification followed by the activation of the MAP [mitogen-activated protein] kinase cascades by free calcium ions leaking into the cytosol (the main part of the cell). The inward leakage of calcium ions is the normal mechanism by which a cell senses that it has been damaged and triggers the necessary repair mechanisms. This involves huge amplification processes so that even minor leakage (e.g., due to membrane perforation or weak electromagnetic fields) can give rapid and often massive responses.

The first stage in the amplification is due to the calcium gradient itself. There is an enormous (over a thousandfold) concentration difference for free calcium between the inside and outside of living cells. In addition, there is a voltage difference of many tens of millivolts acting in the same direction. This means that even a slight change in the leakiness of the cell membrane can permit a very large inflow of calcium ions. It's like a transistor, where a slight change in the charge in the base can allow a massive current to flow through it under the influence of a high-voltage gradient between the emitter and collector.

The next stage in the amplification is due to the extremely low calcium concentration in the cytosol so that even a small ingress of calcium ions makes a big *percentage difference*, to which many enzymes within the cell are sensitive.

Even more amplification comes from the MAP kinase cascades. These are biochemical amplifiers that enable tiny amounts of growth factors or hormones (perhaps even a single molecule) to give very large effects. They consist of chains of enzymes acting in sequence so that the first enzyme activates many molecules of the second enzyme, which in turn activates still more of the third enzyme, etc. The final stage then activates the protein-synthesising machinery needed for cell growth and repair.

At least some of these cascades need calcium ions to work (Cho *et al.*, 1992), so the inward leakage of calcium through damaged cell membranes will increase the rate of these processes to stimulate growth and repair.

However, these repairs can make deep inroads into the cell's energy and resources, and its ability to make good the damage will depend on its physiological and nutritional condition. This means that, if the damage is prolonged or persistent, sooner or later the cell runs out of resources and gives up, which is when we see the inhibitory phase, perhaps followed by apoptosis (cell death) or the loss of some of the cell's normal functions. We are now seeing this loss of function increasingly after prolonged human exposure to cellphone base station radiation, e.g., the loss of thyroid gland function after six years of exposure (Eskander *et al.*, 2012).

### EM Effects on the Glands

Gland cells may be particularly sensitive to radiation because their secretions are normally produced in internal membrane systems which can also be damaged. Their secretions are usually released in vesicles (bubbles of membrane) that fuse with the external cell membrane and disgorge their contents to the outside (*exocytosis*). The vesicle membrane then becomes part of the external membrane. The resulting excess external membrane is counterbalanced by the reverse process (*endocytosis*) in which the external membrane buds off vesicles to the inside of the cell, which then fuse with the internal membranes. In this way, an active gland cell may internalise the equivalent of its entire surface membrane about once every half an hour. This means that if the surface membrane is damaged directly by the fields or by electromagnetically conditioned blood, the damaged membrane rapidly becomes part of the internal membrane system, upon which its normal activity depends. If the damage is too severe, the whole gland may lose its normal function.

### EM Effects on the Endocrine System and Obesity

Although electromagnetic fields frequently stimulate glandular activity in the short term, long-term exposure is often harmful in that the gland ceases to work properly. This is particularly serious for the glands of the endocrine system (those that coordinate our bodily functions) since it can affect many aspects of metabolism and throw the whole body out of kilter. For example, it may be responsible, at least in part, for the current outbreak of obesity and the many other illnesses that stem from it.

**It's like a transistor, where a slight change in the charge in the base can allow a massive current to flow through it under the influence of a high-voltage gradient between the emitter and collector.**

A good example of this is the thyroid gland, which is in an exposed position in the front of the neck. Rajkovic *et al.* (2003) showed that after three months' exposure to power-line frequencies, the thyroid glands of rats showed visible signs of deterioration.

They also lost their ability to produce the thyroid hormones, which they did not recover even after the fields were switched off. Esmekaya *et al.* (2010) found a similar visible deterioration of the thyroid gland in rats exposed to simulated 2G cellphone radiation for 20 minutes a day for three weeks.

Eskander *et al.* (2012) found that people living for six years within 100 metres of a cellphone base station showed a significant reduction in the release into the blood of a number of hormones, including ACTH [adrenocorticotrophic hormone] from the pituitary gland, cortisol from the adrenal glands, and prolactin and testosterone from organs elsewhere. However, the most highly significant loss was in their ability to produce the thyroid hormones.

The expected consequence of this is hypothyroidism, the most frequent symptoms of which are *fatigue* and *obesity*. It may not be a coincidence that about a quarter of a million UK citizens are now suffering from what is being diagnosed as chronic fatigue syndrome, and about eight out of 10 are either overweight or clinically obese.

The incidence of obesity may be exacerbated by effects on the release of the appetite-regulating hormones ghrelin and peptide YY. Ghrelin is synthesised in the stomach wall and makes us feel hungry, whereas peptide YY is made in the intestine wall and makes us feel full. In normal people, the level of ghrelin in the blood is high before a meal and goes down afterwards, whereas peptide YY goes up—so we go from feeling hungry to feeling full, which stops us overeating. However, in obese people the level of both hormones stays roughly the same throughout so that they never feel completely full and they eat in an unregulated manner (Le Roux *et al.*, 2005; Le Roux *et al.*, 2006).

If prolonged exposure to electromagnetic fields limits the release of these hormones in the same way as they affect the release of ACTH, cortisol, prolactin, testosterone and the thyroid hormones, it may explain why so many people find it difficult to stop eating and end up being clinically obese.

## Electromagnetic Effects on the Adrenal Gland

• **Cortisol:** Augner *et al.* (2010) in a double-blind study (where neither the subject nor the person recording the results knows whether the radiation is switched on or off) showed that short-term exposure to the radiation from a 2G (GSM) cellphone base station increased the cortisol level in the saliva of human volunteers. Cortisol is a stress hormone that is normally produced in the cortex of the adrenal glands and is controlled by the calcium level in their cells (Davies *et al.*, 1985), so electromagnetically induced membrane leakage letting more calcium into the cytosol should also have this effect.

Cortisol is part of a mechanism that puts the body into a "fight or flight" mode, in which more sugar is released into the blood, sensitivity to pain is reduced and the immune system is suppressed. In fact, cortisol and its relatives are used medicinally to relieve pain and also to suppress the immune system after transplant surgery. However, when exposure to base station radiation does it, it is not good news since the suppression of the immune system will also increase the risk of infection and of developing tumours from precancerous cells that might otherwise have been destroyed.

• **Adrenalin:** Buchner and Eger (2011) studied the effect of a newly installed 2G cellphone base station on villagers in Bavaria and found that it caused a long-lived increase in the production of adrenalin. This is an important neurotransmitter which acts on adrenergic receptors to increase the calcium concentration in the cytosol. It is also synthesised in the adrenal

medulla in response to signals from the sympathetic nervous system. Adrenalin, too, puts the body into fight or flight mode by diverting resources from the smooth muscles of the gut to the heart muscle and the skeletal muscles needed for flight or combat. In addition, it stimulates the production of cortisol by the adrenal cortex and indirectly reduces the activity of the immune system and resistance to disease and increases the risk of getting cancer.

Some people get pleasure from the "adrenalin rush" caused by doing energetic or dangerous things, and this could be a contributory factor to the addictive nature of cellphones. However, on the downside, known effects of excess adrenalin include headaches, cardiac arrhythmia, high blood pressure, tremors, anxiety and inability to

**It may not be a coincidence that about a quarter of a million UK citizens are now suffering from what is being diagnosed as chronic fatigue syndrome, and about eight out of 10 are either overweight or clinically obese.**

sleep. These results confirm and explain some of the findings of Abdel-Rassoul *et al.* (2007), who found that people living near cell towers (masts) had significant increases in headaches, memory loss, dizziness, tremors and poor sleep.

### Calcium Leakage and Brain Function

Normal brain function depends on the orderly transmission of signals through a mass of about 100 billion neurons. Neurons are typically highly branched nerve cells. They usually have one long branch (the axon) which carries electrical signals as action potentials (nerve impulses) to or from other parts of the body or between relatively distant parts of the brain (a nerve contains many axons bundled together). The shorter branches communicate with other neurons where their ends are adjacent at synapses. They transmit information across the synapses using a range of neurotransmitters, which are chemicals secreted by one neuron and detected by the other.

Calcium ions play an essential role in brain function because a small amount of calcium must enter the cytosol of the neuron before it can release its neurotransmitters (Alberts *et al.*, 2002). Electromagnetically induced membrane leakage would increase the background level of calcium in the neurons so that they release their neurotransmitters sooner. This improves our reaction time to simple stimuli but it can also trigger the spontaneous release of neurotransmitters to send spurious signals that have no right to be there, which makes the brain hyperactive and less able to concentrate.

### Autism Spectrum Disorders and EMF

Possibly the greatest damage to the brain from microwaves is when it is first developing in the foetus and the very young child, where this can lead to autism. Dr Dietrich Klinghardt has shown a relationship between microwaves and autism (a summary of his work can be found at the ElectromagneticHealth.org web page <http://tinyurl.com/3pujavs>).

Autism is a group of lifelong disorders (autism spectrum disorders, or ASD) caused by brain malfunctions and is associated with subtle changes in brain anatomy (see Amaral *et al.*, 2008, for a review). The core symptoms include an inability to communicate adequately with others as well as abnormal social behaviour, poor verbal and non-verbal communication, unusual and restricted interests, and persistent repetitive behaviour. There are also non-core symptoms such as an increased risk of epileptic seizures, anxiety

and mood disorders. ASD has a strong genetic component, occurs predominantly in males and tends to run in families.

It has been hypothesised that some genetic forms of ASD can be accounted for by known mutations in the genes for ion channels, which result in an increased background concentration of calcium in neurons. This would be expected to lead to neuronal hyperactivity and the formation of sometimes unnecessary and inappropriate synapses, which in turn can lead to ASD (Krey and Dolmetsch, 2007).

There has been a 60-fold increase in ASD in recent years, which cannot be accounted for by improvements in diagnostic methods and can only be explained by changes in the environment. This increase corresponds in time to the proliferation of mobile telecommunications, Wi-Fi and microwave ovens as well

**There has been a 60-fold increase in ASD in recent years, which...can only be explained by changes in the environment.**

as extremely-low-frequency fields from household wiring and domestic appliances. We can now explain at least some of this in terms of electromagnetically induced membrane leakage leading to brain hyperactivity and abnormal brain development.

### Leakage Affects Neurons

Neurons transmit information between one another via chemical neurotransmitters that pass across the synapses where they make contact. Their release is normally triggered by a brief pulse of calcium entering their cytosols. If the membranes are leaky due to electromagnetic exposure, the neurons will already have a high internal calcium concentration as calcium leaks in from the much higher concentration outside. This puts the cells into hair-trigger mode so that they are more likely to release neurotransmitters, and the brain as a whole may become hyperactive (Beason and Semm, 2002; Krey and Dolmetsch, 2007; Volkow *et al.*, 2011). This results in the brain's becoming overloaded with sometimes spurious signals, leading to a loss of concentration and attention deficit hyperactivity disorder (ADHD).

### Symptoms of Electromagnetic Intolerance

Electromagnetic intolerance is a condition in which some people experience a wide range of unpleasant symptoms when exposed to weak non-ionising radiation. There is every reason to believe that prolonged exposure will increase the severity of the symptoms, so if you suffer from any of them you should do whatever possible to minimise further exposure.

Symptoms include skin rashes, cardiac arrhythmia, headaches (sometimes severe), pain in muscles and joints, sensations of heat or cold, pins and needles,

tinnitus, dizziness and nausea. A more complete list of symptoms can be found at ElectroSensitivity UK's web page <http://tinyurl.com/6qs8ew>. Most if not all of these can be explained by the radiation making the cells leak.

When skin cells leak, this is perceived by the body as damage to the tissue. This increases the blood supply to the area to repair the damage and causes a rash.

When the cells of the heart muscle leak, this weakens the electrical signals that normally control its contraction. The heart then runs out of control to give cardiac arrhythmia. This is potentially life threatening.

When sensory cells leak, they become hyperactive and send false signals to the brain. We have a variety of sensory cells, but they all work in much the same way. Whenever they sense what they are supposed to sense, they deliberately leak by opening ion channels in their membranes. This reduces the natural voltage across these membranes, which makes them send nerve impulses to the brain.

Electromagnetically induced cell leakage would have the same effect, but this time it would make them send *false* signals to the brain to give the false sensations of electromagnetic intolerance. This could also be exacerbated by the nerve cells involved being made hyperactive due to calcium ingress.

When leakage occurs in the sensory cells of the skin, this can give sensations such as heat, cold, tingling, pressure, etc., depending on which types of cell are most sensitive in the individual concerned.

When leakage occurs in the sensory hair cells of the cochlea of the ear, this gives tinnitus which is a false sensation of sound. When it occurs in the vestibular system (the part of the inner ear that deals with balance and motion), this results in dizziness and symptoms of motion sickness including nausea.

### Radiation Effects on DNA

Cellphone radiation can damage DNA. Lai and Singh (1995) were the first to show this in cultured rat brain cells, but it has since been confirmed by many other workers. A comprehensive study on this was in the Reflex Project, sponsored by the European Commission and replicated in laboratories in several European countries. The researchers found that radiation like that from GSM (2G) cellphone handsets caused both single- and double-stranded breaks in the DNA of cultured human and animal cells. Not all cell types were equally affected, and some, such as lymphocytes, seemed not to be affected at all (Reflex Report, 2004).

In susceptible cells, the degree of damage depended on the duration of the exposure. With human fibroblasts, it

reached a maximum at around 16 hours (Diem *et al.*, 2005). However, it would be unwise to assume that exposures of less than 16 hours are necessarily safe, since DNA damage may give genetically aberrant cells long before it becomes obvious under the microscope.

It would also be unwise to assume that the damage would be restricted to the immediate vicinity of the handset, since, as described earlier, the effects of the radiation can be transmitted in the bloodstream in the form of magnetically conditioned blood, so nowhere is safe, not even the sex organs.

### Cellphones Increase the Risk of Cancer

If similar DNA fragmentation were to occur in the whole organism, we would expect an increased risk of cancer, since essential genes that control cell division may be either damaged or lost. Recent studies on the incidence of brain cancer are already beginning to show this.

Heavy cellphone use roughly doubles the risk of getting brain cancers in adults on the side of the head used for the cellphone. For younger people, the risk increases to five times more (Hardell and Carlberg, 2009).

Since brain cancers normally take decades to develop, it is too soon to assess the final impact of the radiation, but the World Health Organization has already classified cellphones as a Group 2B carcinogen (possibly

carcinogenic) similar to benzene and DDT. Other head cancers are also on the increase, including cancers of the parotid salivary gland (next to where you hold your cellphone) and the thyroid gland, which is in the neck.

Think twice before you use a cellphone or install a cordless phone or Wi-Fi. The consequences are only now becoming apparent; neither the government nor the telecommunications industry will tell you what they are, but they are not good. ∞

The researchers found that radiation like that from GSM (2G) cellphone handsets caused both single- and double-stranded breaks in the DNA...

### About the Author:

Andrew Goldsworthy, PhD, is a retired lecturer from Imperial College London, which is renowned for its expertise in electrical engineering and health matters. Dr Goldsworthy has spent many years studying calcium metabolism in living cells and also how cells, tissues and organisms are affected by electrical and electromagnetic fields. He can be contacted at [a.goldsworthy@ic.ac.uk](mailto:a.goldsworthy@ic.ac.uk).

### Editor's Note:

Dr Goldsworthy's article was first published in 2007 and updated in March 2012. Due to space constraints, we are unable to publish the complete text and references. To access the original article, go to <http://tinyurl.com/2nfujj>.

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*"Nothing strengthens authority so much as silence."*  
- Leonardo da Vinci.

*"All that is necessary for the triumph of evil is that good men do nothing".*  
- Edmund Burke.

*"For the truth is, the supreme, absolute, and uncontrollable authority remains with the people".*  
- Sir Robert Garran (1867-1957): *Commentaries on the Constitution of the Commonwealth of Australia.*

We know that Nexus readers are wide awake on how local and geopolitical agendas are eroding our living standards and liberties; effectively leaving us with a bleak and uncertain future. It is clear that very little democracy exists in Australia considering our bullying governments of the past & present have ceased paying any attention to the voice of the people a long while ago.

A growing number of Australians are feeling this frustration, but for the first time in our political history, we are now in a position to do something about reconfiguring the landscape of Australian politics so that it actually serves "us" - the way it is meant to. Enough is enough!

It's time to act and unite as the voice of the people. We must introduce an honest monetary system, a single fair tax, and uphold natural justice into our political system if we are to take back control of our destiny. Summon a future that you, your family and all Australians can celebrate by contributing towards creating a better Australia for all. **Please join and support the Australian Sovereignty Party** – the very vehicle that will bring about genuine democracy, and good governance.

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- ✗ No toxic additives to our food or drink.
- ✗ No invasion of other sovereign states.
- ✗ No "wide open" borders.
- ✗ No political correctness replacing the truth.
- ✗ No censorship by government.
- ✗ No carbon tax based on ~~global warming,~~ ~~climate change,~~ global climate disruption.
- ✗ No weaponisation of space.

- We are over-taxed! At least 50% of your income goes towards tax! It's truly outrageous!
- Our health system is third world standard with emergency rooms overwhelmed and too many people stuck on waiting lists – unacceptable!
- Electricity rates and the price of petrol is out of control!
- Government is force medicating us through vaccinations and fluoridation. We should be free to choose our medication and what we consume!
- Political correctness is eroding our freedom of speech!
- Why should it take a lifetime to pay off a house? You shouldn't have to pay back three times what you borrowed!
- Are you tired of the Labor/Liberal duopoly?!

**THEY DON'T LISTEN!**

The will of the Australian people is ignored far too often. Parliament has far too much power. The Australian Sovereignty Party wishes to foster in a just and fair model of governance called 'Direct Democracy' – where the people hold the power to veto any legislation they don't approve of, or introduce legislation that we believe to be fair and just, and for the benefit of all.

Thomas Jefferson once said, *"When the government fear the people, there is liberty. When the people fear the government, there is tyranny."*

*Think about this; if we keep doing what we're doing, we'll keep getting what we're getting!*

The Australian Sovereignty Party is seeking 500 members to register federally. We realise that petitions and rallies are useless. The only way to rectify and bring to light these issues that greatly affect our wealth and health, is to fight for them in the political realm; where all the decisions are made!

To put this into perspective, the Australian Greens have fewer than 10,000 members, and are the third major party in Australia. We don't want to stop at 500 members. If every single Nexus Magazine reader were to become a member of the ASP, we would be three times the size of the Australia Greens! Do you realise the potential to take our country back?

The ASP wishes that every person reading this article becomes a member of our party – it's easy, it costs nothing, and you'd be contributing to the solution we all seek! Our membership base consists of many Nexus readers amongst other conscientious and free-thinking citizens that want to see an honest and representative government! Support the only political party in the world that will represent YOUR ideals!

**To support Australia's last chance at rebuilding our values and prosperity, read our policies, and become a member at:**

**[www.sovereigntyparty.org.au](http://www.sovereigntyparty.org.au)**

# THE BORAX CONSPIRACY

*Borax, a naturally occurring mineral and a source of the essential element boron, is an inexpensive and effective antiseptic, antifungal and insecticidal treatment but its use is being outlawed by health authorities worldwide.*

by Walter Last © April 2012

Website:  
<http://www.health-science-spirit.com>

## HOW THE ARTHRITIS CURE HAS BEEN STOPPED

It is difficult to imagine that borax, this humble cleaner and insecticide, has the potential to bring down our economic system singlehandedly. But you do not need to worry; the danger has been recognised and the necessary steps are already being taken to defuse the situation. I will start with the basics and you will understand what I mean as the story unfolds.

Mined borax is the source of other manufactured boron compounds. The main deposits are in Turkey and California. The chemical name is sodium (or disodium) tetraborate decahydrate (or, simply, sodium borate), meaning that it contains four atoms of boron combined with two sodium atoms and 10 molecules (or sometimes less) of crystallisation water. Borax is the sodium salt of the weak boric acid. In solution, borax is strongly alkaline. When ingested, it reacts with hydrochloric acid in the stomach to form boric acid and sodium chloride. The boron content of borax is 11.3 per cent, while for boric acid it is 50 per cent higher. Ingested boron compounds are rapidly and nearly completely excreted with the urine. Formerly, boric acid was widely used as a food preservative but is now banned in most countries.

Boron is present in all plants and unprocessed foods. Good diets provide 2–5 mg of boron per day, but in reality the average intake in developed countries is 1–2 mg of boron per day, and institutionalised patients may receive only 0.25 mg. Chemical fertilisers inhibit the uptake of boron from the soil. Boron intake is further reduced by discarding cooking water of vegetables, and by the phytic acid in baked goods and cereals. All this makes health problems from boron deficiency very common.

## Health Effects of Boron

Borax and boric acid have basically the same health effects with good antiseptic, antifungal and antiviral properties but only mild antibacterial action. Boron is essential for the integrity and function of cell walls and for the way signals are transmitted across membranes. Boron is distributed throughout the body, with the highest concentration in the parathyroid glands followed by bones and dental enamel. It is essential for healthy bone and joint function, regulating the absorption and metabolism of calcium, magnesium and phosphorus through its influence on the parathyroid glands. With this, boron is to the parathyroids what iodine is to the thyroid.

Boron deficiency causes the parathyroids to become overactive, releasing too much parathyroid hormone which raises the blood level of calcium by releasing calcium from bones and teeth. This then leads to arthritis, osteoporosis and tooth decay. With advancing age, high blood levels of calcium lead to calcification of soft tissues causing muscle contractions and stiffness; calcification of endocrine glands, especially the pineal gland and the ovaries; arteriosclerosis; kidney stones and calcification of the kidneys, ultimately leading to kidney failure.

Boron deficiency combined with magnesium deficiency is especially damaging to the bones and teeth. Boron affects the metabolism of steroid hormones, and especially of sex hormones. It increases low testosterone levels in men and oestrogen levels in menopausal women. It also has a role in converting vitamin D to its active form, thus increasing calcium uptake and deposition into bone and teeth rather than causing soft tissue to calcify. Other reported benefits are improvement of heart problems, vision, psoriasis, balance, memory and cognition. Boron compounds have anti-tumour properties and are "potent anti-osteoporotic, anti-inflammatory, hypolipemic, anti-coagulant and anti-neoplastic agents".<sup>1</sup>

### The Arthritis Cure of Dr Rex Newnham

In the 1960s, Rex Newnham, PhD, DO, ND, then a soil and plant scientist in Perth, Western Australia, developed arthritis. Conventional drugs did not help, but he realised that plants in that area were rather mineral deficient. Knowing that boron aids calcium metabolism in plants, he started taking 30 mg of borax a day, and in three weeks all pain, swelling and stiffness had disappeared.

Health and medical authorities were not interested in his discovery, but improving arthritis sufferers were delighted. Eventually he had tablets made containing 3 mg of boron, and only by word of mouth he sold 10,000 bottles a month. When he asked a drug company to market the tablets, it indicated that this would replace more expensive drugs and reduce profits. It so happened that it had representatives on government health committees, and arranged that in 1981 Australia instituted a regulation which declared boron and its compounds to be poisons in any concentration. He was fined \$1,000 for selling poison, and this successfully stopped his arthritis cure in Australia.<sup>2</sup>

Subsequently, Dr Newnham published several scientific papers on borax and arthritis. One paper covered a double-blind trial in the mid-1980s at the Royal Melbourne Hospital, which showed considerable improvement in 70 per cent of those who completed the trial; only 12 per cent improved on a placebo.<sup>3</sup> He also found that the traditional sugarcane islands have very low soil-boron levels due to long-term heavy use of chemical fertilisers. Jamaica has the lowest level, and the arthritis rate is about 70 per cent; he noted that even most dogs were limping. Next comes Mauritius, with very low boron levels and a 50 per cent arthritis rate. The daily boron intake in these countries is less than 1 mg/day. The USA, England, Australia and New Zealand generally have average soil-boron levels, with an estimated intake of 1–2 mg of boron and an arthritis rate of about 20 per cent. All

spas reputedly curing arthritis have very high boron levels. These are also high in Israel, with an estimated daily boron intake of 5–8 mg and an arthritis rate of only 0.5–1.0 per cent.

Bone analysis showed that arthritic joints and nearby bones have only half the boron content of healthy joints, and synovial fluid that lubricates joints is boron deficient in arthritic joints. After boron supplementation, bones were much harder than normal. With additional boron, bone fractures healed in about half the normal time in both humans and animals. Dr Newnham once saw a baby girl, aged nine months, with juvenile arthritis, and borax cured her in two weeks.

Dr Newnham wrote that, commonly, people can get rid of their pain, swelling and stiffness in about one to three months. Then they can reduce treatment from three boron tablets to one tablet (each 3 mg) per day as a maintenance dose. He also stated that patients with rheumatoid arthritis often experienced a Herxheimer

reaction and that this is always a good prognostic sign. They must persevere, and in several more weeks the pain, swelling and stiffness will be gone.<sup>4,5</sup>

The Herxheimer reaction is an early aggravation of symptoms with increased pain due to toxins released by killed *Candida* and mycoplasma. I was surprised that this fungicidal effect is already present at such a low dose. It is equally surprising that also about 30 per cent with

osteoarthritis experienced a Herxheimer reaction, suggesting that the border between osteoarthritis and rheumatoid arthritis is rather fluid. In longstanding and resistant cases, use other antimicrobials in addition.

### Osteoporosis and Sex Hormones

Boron deficiency causes large amounts of calcium and magnesium to be lost with the urine. A borax supplement reduces this loss by nearly 50 per cent. As the lost calcium comes from resorbed bone and teeth, boron deficiency is the most important factor causing osteoporosis and tooth decay. About 55 per cent of Americans over 50 have osteoporosis, and of these about 80 per cent are women. This is responsible for millions of fractures each year.

After rats with osteoporosis were given borax for 30 days, their bones were normal.<sup>6</sup> These beneficial effects are due to a higher boron content of the bones, which makes them harder, and a normalisation of sex hormones, which stimulates the growth of new bone.

Low oestrogen levels after menopause are a main reason why many women develop osteoporosis. In men, testosterone levels decline more gradually with later onset of osteoporosis. Boron supplementation in postmenopausal women doubles the blood level of the

**Health and medical authorities were not interested in his discovery, but improving arthritis sufferers were delighted.**

most active form of oestrogen, 17-beta oestradiol, to the level found in women on oestrogen replacement therapy, and also testosterone levels double.<sup>7</sup> Boron does not raise oestrogen above normal healthy levels, but instead balances sex hormones in a similar way as does maca root powder. In younger men, 100 mg of daily borax increased the level of free testosterone (which matters most) by one third.<sup>8</sup> This is of special interest for body-builders.

Contrary to the medical preference of chemically castrating men with prostate cancer, research with boron shows that elevated testosterone levels are beneficial by shrinking prostate tumours and prostate-specific antigen (PSA) levels (PSA being a marker for tumours and inflammation in the prostate). It also improves memory and cognition in elderly individuals.<sup>9</sup> Also, with oestrogen-sensitive breast cancer, I would use borax to normalise the calcium-magnesium metabolism and cellular membrane functions rather than feel restricted by a possibly faulty medical concept.

### Fungi and Fluoride

"Borax Cures" is an Earth Clinic forum<sup>10</sup> with many successful *Candida* treatments. Low- to medium-weight individuals use ¼ teaspoon of borax powder, and those with heavier weight use ½ teaspoon per litre of water. One drinks the water, spaced out during the day for four or five days a week, as long as required.

Many contributors wrote that it cured or greatly helped them. Read, for instance, this post: "I also have psoriasis, so maybe the soreness in my joints is the psoriatic arthritis creeping in. I thought, after reading about borax here on this forum, I would give it a try. OMG! In one day, the soreness in my knees has vanished!... Also, my psoriasis seems a lot better after two days drinking ¼ tsp borax in one litre of water per day."

Here's one about toe fungus: "He wet his feet and then took a handful [of borax] and rubbed it all over his feet. He said it stopped itching immediately! He was stunned. A few weeks later, I asked him how his athlete's foot was, and he said: 'Oh wow! It hasn't come back! That stuff totally cured it.'"

Other enthusiastic posts are about vaginal thrush. Borax appeared to be more effective than other remedies. Commonly, one large gelatine capsule filled with borax or boric acid was inserted at bedtime for several nights or up to two weeks. Alternatively, the powder was mixed with cool, solidified, coconut oil as a bolus or suppository.

A recent scientific study<sup>11</sup> confirms these positive observations with vaginal thrush. Boric acid in a filled capsule worked even in cases of drug-resistant *Candida* and against all the tested bacteria. Because of the greater dilution, a douche may not be strong enough for bacteria and drug-resistant *Candida* but should work for normal *Candida*. Borax, due to its alkalinity, was more effective than boric acid.

Normally, *Candida* exists as harmless oval yeast cells. When stressed, chains of elongated pseudohyphae develop and, finally, strongly invasive long, narrow and tube-like filaments called hyphae. These damage the intestinal wall and cause inflammation and leaky gut syndrome. Pseudohyphae and hyphae can be seen in the blood of individuals with cancer and autoimmune diseases. *Candida* can also form tough layers of biofilm. Boric acid/borax inhibits the formation of biofilms and the transformation of harmless yeast cells into invasive hyphae. In other articles I have shown that this process, usually initiated by antibiotics, is a basic cause of most of our modern diseases, and this makes borax and boric acid primary health remedies.

A scientific review in 2011 concluded that "boric acid is a safe, alternative, economic option for women with recurrent and chronic symptoms of vaginitis when conventional treatment fails".<sup>12</sup> Being so much better than drugs, why not use it as the first option?

A study from Turkey<sup>13</sup> showed the protective effect of boric acid on food contaminated with mycotoxins, especially fungal aflatoxins. Among these, aflatoxin B<sub>1</sub> (AFB<sub>1</sub>) causes extensive DNA damage and is the most potent carcinogen ever tested, especially affecting liver and lungs and also causing birth defects, immunotoxicity and even death in farm animals and humans. Boric acid treatment was protective, with increased resistance of DNA to oxidative damage induced by AFB<sub>1</sub>. The strong antifungal action of boric acid is, of course, the reason why traditionally it has been used as a food preservative.

Borax, similar to the equally endangered Lugol's solution, can also be used to remove accumulated fluoride and heavy metals from the body.<sup>14</sup> Fluoride not only causes bones to deteriorate, but also the pineal gland to calcify and the thyroid to become underactive. Borax reacts with fluoride ions to form boron fluorides which are then excreted in the urine. In a Chinese study, 300 to 1,100 mg/day of borax was used for three months to

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treat 31 patients with skeletal fluorosis. The treatment was very effective.

One Earth Clinic forum contributor suffered with fibromyalgia/rosacea, chronic fatigue and temporomandibular joint disorder (TMJ) for over 10 years due to fluoride. She used ¼ teaspoon of borax and within two weeks her face cleared, the redness faded, her body temperature normalised, her energy level increased, and she steadily lost excess weight.

Another post read: "Seven years ago, thyroid cancer; the next year adrenal fatigue, then early menopause; the following year, uterine prolapse followed by hysterectomy; the following year, fibromyalgia and neuropathy. Early childhood was fluoridated water along with fluoride tablets. Fall of 2008, I was looking at total disability. I could barely walk and couldn't sleep because of the pain, and was throwing up daily from the pain in my back... After reading about fluoride, I came to understand where all of my problems originated... I began the borax detox of ¼ tsp in a litre of water, and within three days my symptoms were almost gone."

### The Calcium–Magnesium Ratio

There is antagonism as well as cooperation between calcium and magnesium. About half the total body magnesium is found in bones and the other half is *inside* the cells of tissues and organs. Only one per cent is in the blood, and the kidneys keep this level constant by excreting more or less with the urine. In contrast, 99 per cent of calcium is in the bones, and the rest is in the fluid *outside* of cells.

Muscles contract when calcium moves into the cells, and they relax when calcium is again pumped out and magnesium moves in. This cellular pump requires much energy to pump calcium out, and if cells are low in energy then calcium may accumulate inside cells. This then leads to only partial relaxation of the muscles, with stiffness, frequent cramps and poor blood and lymph circulation. The problem gets worse, the more that calcium moves from bones into soft tissue. Nerve cells can also accumulate calcium, leading to faulty nerve transmission. In the lens, excess calcium causes cataracts. Hormonal output keeps reducing as endocrine glands increasingly calcify and all other cells become handicapped in their normal functions. In addition, this excess calcium causes intracellular magnesium deficiency. Magnesium is needed to activate countless enzymes, and a deficiency leads to inefficient and blocked energy production.

**With boron deficiency, too much calcium moves into the cell while magnesium cannot displace it. This is the condition of old age and of the boron-deficiency diseases leading up to it.**

A further problem is that excess calcium damages the cell membrane and makes it difficult for nutrients to move in and for wastes to move out. When the intracellular calcium level gets too high, the cell will die. This shows the importance of boron as a regulator of cell membranes, especially in regard to movements of calcium and magnesium. With boron deficiency, too much calcium moves into the cell while magnesium cannot displace it. This is the condition of old age and of the boron-deficiency diseases leading up to it.

While in good health and especially in younger years, a calcium–magnesium ratio of 2:1 is normal and is supplied with a good diet; but with increasing age, boron deficiency and resulting diseases, we need progressively less calcium and more magnesium.

For boron to be fully effective in reversing tissue calcification, ample magnesium is required. For elderly individuals, I recommend 400–600 mg of magnesium together with the daily borax supplementation spaced out during the day; and with protracted joint problems, additional transdermal magnesium. However, oral magnesium needs to be adjusted for its laxative effect. I doubt that calcium supplements are beneficial in the case of osteoporosis. In my view, these individuals have plenty of calcium stored in soft tissues where it does not belong, and supplementing boron and magnesium is expected to redeposit this misplaced calcium into the bones. I regard the medical focus on a high-calcium intake as a prescription for accelerated ageing.

### What and How Much to Use

In some countries (e.g., Australia, New Zealand, USA), borax can still be found in the

laundry and cleaning sections of supermarkets. There is no "food grade" borax available or necessary. Boric acid, if available, may be used at about ¾ the dose of borax.

First, dissolve a lightly rounded teaspoonful (5–6 grams) of borax in one litre of water. This is your concentrated solution. Keep the bottle out of reach of small children.

- A standard dose is one teaspoonful (5 mL) of concentrate. This has 25–30 mg of borax and provides about 3 mg of boron. Take one dose daily with drink or food. If that feels right, then take a second dose with another meal. As a maintenance dose, you may continue indefinitely with one or two doses daily.

If you have arthritis, osteoporosis or related conditions, menopause or stiffness due to advancing years, or if you need to improve low sex-hormone production, then

increase intake to three or more spaced-out standard doses until you feel that your problem has sufficiently improved. Then drop back to one or two doses per day.

If you want to try the higher dose recommended by Earth Clinic for treating *Candida* and removing fluoride from the body, then use the concentrated solution thus:

- lower dose for low to normal weight: 100 mL (½ tsp of borax powder); drink at spaced-out times during the day.
- higher dose for heavier individuals: 200 mL (¼ tsp of borax powder); drink at spaced-out times during the day.

Always start with a standard dose and increase gradually to the intended maximum. Take the maximum amount for four or five days a week, as long as required.

Borax is rather alkaline, and in higher concentrations it has a soapy taste. You may disguise this with lemon juice, vinegar or ascorbic acid.

Borax and boric acid have been classified as reproductive poisons in Europe, and since December 2010 are no longer available to the public within the European Union. Presently, borax is still available in Switzerland,<sup>15</sup> but shipment to Germany is not permitted. In Germany, a small amount (20–50 g) may be ordered through a pharmacy as ant poison, but the sale has to be registered.

Boron tablets can be bought from health shops or over the Internet, commonly with 3 mg of boron. These contain tightly bound boron not present in ionic form, as with borax or boric acid. While they are suitable as a general boron supplement, I do not expect them to work against *Candida* and mycoplasmas or as a quick arthritis, osteoporosis or menopause cure. Most scientific studies and individual experiences were with borax or boric acid. To improve effectiveness, I recommend taking three or more boron tablets spaced out daily for an extended period, combined with sufficient magnesium and a suitable antimicrobial program.<sup>16</sup>

### Possible Side-Effects

While side-effects from pharmaceutical drugs tend to be negative and often dangerous, with natural medicine such as borax therapy these are usually healing reactions with beneficial long-term effects. Most common is the Herxheimer reaction from eliminating *Candida*.

In some of the above forum posts, rapid improvement was experienced within days. This is always a functional response. High cellular calcium levels cause muscle contraction with cramps or spasms as a common cause of pain. Boron, especially together with magnesium, can rapidly relax these muscles and take away the pain.

However, with longstanding severe calcifications, a large amount of calcium cannot be redistributed in a short

time. This leads to increased calcium levels in the affected area, especially the hips and shoulders, and for a considerable time can cause problems such as a tendency to severe cramping and pain, or problems with the blood circulation or nerve transmission. Nerve-related effects in hands and feet may be numbness or reduced skin sensitivity. Higher amounts of calcium and fluoride passing through the kidneys may cause temporary kidney pain. Such healing reactions cannot be avoided when aiming for a higher level of health. Whenever you experience an unpleasant effect, reduce borax intake until the problem subsides. Then gradually start increasing again. Helpful additional measures are a greatly increased fluid intake, using more organic acids such as lemon juice, ascorbic acid or vinegar, and improving lymph flow as with rebounding, walking or inverted positions.

### Toxicity Issues

Government health agencies are concerned about boron toxicity. You might be concerned as well if you read the following, pertaining to sodium chloride (salt): "Acute oral toxicity [LD<sub>50</sub>, the dose at which half of the tested animals die]: 3000 mg/kg [Rat]... Chronic Effects on Humans: Mutagenic for mammalian somatic cells... Slightly hazardous in case of skin contact, ingestion or inhalation. Lowest Published Lethal Dose (LDL) [Man]...1000 mg/kg... Causes adverse reproductive effects in humans (fetotoxicity, abortion) by intraplacental route... [M]ay increase risk of Toxemia of Pregnancy in susceptible women... May cause adverse reproductive effects and birth defects in animals, particularly rats and mice (fetotoxicity, abortion, musculoskeletal abnormalities, and maternal effects [on ovaries, fallopian tubes])... May affect genetic material (mutagenic)... Ingestion of large quantities can irritate the stomach...with nausea and vomiting. May affect behavior (muscle spasticity/contraction, somnolence), sense organs, metabolism, and cardiovascular system. Continued exposure may produce dehydration, internal organ congestion, and coma..."<sup>17</sup>

Now, compare the sodium chloride toxicity with the Material Safety Data Sheet (MSDS) for borax/boric acid: "Low acute oral toxicity; LD<sub>50</sub> in rats is 4,500 to 6,000 mg/kg of body weight... Reproductive/developmental toxicity: Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. Studies with the chemically related boric acid in the rat, mouse and rabbit, at high doses, demonstrate developmental effects on the fetus, including fetal weight loss and minor skeletal variations. The doses

**High cellular calcium levels cause muscle contraction... Boron, especially together with magnesium, can rapidly relax these muscles and take away the pain.**

administered were many times in excess of those to which humans would normally be exposed... No evidence of carcinogenicity in mice. No mutagenic activity was observed for boric acid in a battery of short-term mutagenicity assays. Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid dust and sodium borate dust... [and] no effect on fertility."<sup>18</sup>

Here you see that table salt is 50–100 per cent more toxic than borax; it changes the genetic material and is mutagenic, while borax is harmless in this regard. Infants are most at risk from high borax ingestion. It has been estimated that 5–10 grams can cause severe vomiting, diarrhoea, shock and even death, but lethal doses are not well documented in the literature.

The following toxicity data are from documents of the US Environmental Protection Agency and the Centers for Disease Control.<sup>19, 20</sup>

A review of 784 accidental human poisonings from 10 to 88 grams of boric acid reported no fatalities, with 88 per cent of cases being asymptomatic, meaning that they did not notice anything. However, gastrointestinal, cardiovascular, hepatic, renal and central nervous system effects, dermatitis, erythema and death have been observed in some children and adults exposed to more than 84 mg boron/kg, corresponding to more than 40 g of borax for 60 kg of body weight.

Animal studies have identified reproductive toxicity as the most sensitive effect of boron ingestion. Exposure of rats, mice and dogs for several weeks showed some damage to the testes and sperm at doses of more than 26 mg boron/kg, which corresponds to 15 g of borax/day for 60 kg of body weight. Most at risk is the developing foetus, and, in the studied animals, rats were most affected. In one study, slight reductions in the foetal body weight were already found at 13.7 mg boron/kg/day used during pregnancy. The no-effect dose was set at less than 13.7 mg/kg/day, corresponding to about 7 g of borax for 60 kg of body weight.

However, a rat study lasting for three generations found no reproductive toxicity at 30 mg boron/kg/day. This dose corresponds to 17 g of borax for 60 kg ingested for three generations! In another three-generation study, no problem was found at 17.5 mg boron/kg/day, corresponding to 9 g of borax/60 kg, while the next higher tested dose of 58.5 mg/kg/day, corresponding to 30 g of borax/60 kg, resulted in infertility. Therefore, we can assume that the safe reproductive dose is up to about 20 g/60 kg/day.

Human studies of the possible association between impaired fertility and high boron levels in water, soil and

dust in Turkish populations and boron mining and processing workers found no effect. One study even reported elevated fertility rates in borax production workers as compared to the US national average.

All this is important because possible reproductive toxicity is the official reason for the present assault on borax. The sodium chloride MSDS mentioned above also states: "While sodium chloride has been used as a negative control in some reproductive studies, it has also been used as an example that almost any chemical can cause birth defects in experimental animals if studied under the right conditions." Keep this in mind when you read the following.

### The Assault on Borax

Arthritis and osteoporosis affect about 30 per cent of people in developed countries. Osteoporosis requires more long-term hospital care than any other individual disease. This is a main source of income for the

medical-pharmaceutical system. If the boron-magnesium cure becomes widely known, this vital income stream will stop. The medical-pharmaceutical industry cannot allow this to happen.

When Dr Newnham discovered the boron-arthritis cure, it was not a big problem for the pharmaceutical companies because news travelled slowly and was easily suppressed. This is very different now. In

response, borax is publicly demonised and important articles about it have been removed from PubMed.

In the European Union, borax is now replaced by a borax substitute. Borax and boric acid were reclassified as "Reprotoxic Category 2", and since December 2010 have been banned from public sale. This is part of a Globally Harmonized System of Classification and Labelling of Chemicals (GHS). In 2012, Australia is to implement new GHS regulations.<sup>21</sup>

To paraphrase the European Chemicals Agency's reason for its reclassification of boron products: The available data do not indicate major differences between laboratory animals and humans, therefore it must be assumed that the effects seen in animals could occur in humans, as epidemiological studies in humans are insufficient to demonstrate the absence of an adverse effect of inorganic borates on fertility.

A dose of 17.5 mg boron/kg/day was derived as an NOAEL [no effect level] for male and female fertility. For the rat, decreased foetal weight occurred at 13.7 mg boron/kg/day, and a safe limit of 9.6 mg/kg/day has been derived.<sup>22</sup>

**This is very different now.  
In response, borax is  
publicly demonised and  
important articles about it  
have been removed  
from PubMed.**

**Continued on page 79**



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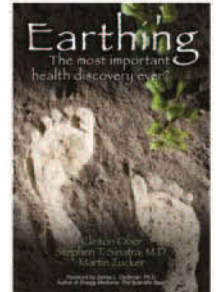
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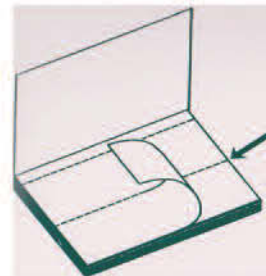


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## How important is LYMPH in your Body?

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***Dr A.C. Guyton Textbook of Medical Physiology***

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Ian Pettitt, CEO of ZENPOD Health, is a Certified and Registered Lymphologist. His instructional video, (supplied with every ZENPOD Lymphaciser) shows his 9 point program of how to use the unit. Called “Energising by Lymphacising”, the program is a sequence of movements that act on the unseen energy cycles within every human body. The stressless actions on the ZENPOD activate and organise the vital balance needed with the motion of the cleansing systems through our bodies 14 meridians - always in it's own time and harmony, as all healing comes from within.

Ian teaches people to take charge of their own health. He believes Lymphacising is a system which can not only maintain a high level of health; it can also help clear long standing problems. This is because the lymphatic system

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Ian teaches how to self balance hip heights and “switch on” 12 of the 14 acupuncture meridians into their two hour maintenance cycles (within the first four minutes of use). Self healing your health problems will regain better posture and attitudes.

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# UNDERSTANDING OUR CRUCIAL CYTOCHROME P450 ENZYMES

**The cytochrome P450 enzymes are central to the proper functioning of our metabolism, but any defect or deficiency in these enzymes can lead to chronic inflammatory and environmental illnesses, often by causing food reactions and addictions.**

by Steven Rochlitz, PhD © 2011

Post Office Box 2154  
Cottonwood, AZ 86326, USA

Email: [info@wellatlast.com](mailto:info@wellatlast.com)

Website:

<http://www.wellatlast.com>

Cytochrome P450 metabolism is one of the final frontiers of both standard medicine and the conundrum of chronic and environmental illnesses. Deficiency or defect in these enzymes is often at the heart of inflammatory or allergy-like illness. Adrenal, thyroid and other endocrine dysfunctions may involve these enzymes, as can mast cell disease, chronic fatigue syndrome (CFS) and some types of arthritis.

The cytochrome P450 enzymes are haem proteins, which means that they contain iron surrounded by porphyrin compounds. Some 40 per cent of the body's manufactured haem goes into creating the cytochrome P450 enzymes. These crucial enzymes metabolise cholesterol and some hormones, detoxify external chemicals, and process or create some vitamins. By "external chemicals" I mean naturally occurring toxins, drugs, man-made toxins, and compounds in foods.

You can see why we need such enzymes to survive by realising that if we are exposed to some specific toxin via ingestion or inhalation, we will need more of the enzyme that detoxifies this specific toxin. The body's process of creating more of such specific CYP450 enzymes after exposure to some compound that they absorb and metabolise is called "induction". The opposite, decreasing the activity of a specific CYP450 enzyme, is called "inhibition". The most common reaction catalysed by CYP450 is the addition of one atom of an oxygen molecule into a compound while the other oxygen atom is reduced to water. This is called a "mono-oxygenase reaction".

The CYP450 enzymes occur in virtually all cells, but in differing amounts in different organs. They have been found in the inner membrane of the cell's mitochondria—the body's energy factories, thus indicating a *possible chronic fatigue connection*—and in the endoplasmic reticulum. The CYP450 enzymes got their name from their absorption of blue-indigo light of 450-nanometre wavelength (the "P" stands for "pigment"). There are over 50 known CYP450 enzymes in our bodies, and some common illnesses result from the fact that different people have very differing amounts of particular CYP450 enzymes—up to 40 times or more. These differences, at the microscopic level, account for some very observable events at the macroscopic level. One such observable difference is the very different tolerances that people have to amounts of caffeine, alcohol, medicinal or recreational drugs and, indeed, any xenobiotic that they may take.

What this means regarding, say, caffeine is that, in those with defective and/or deficient CYP450s, a little acts like a lot—*because it is not sufficiently broken down*. At the macroscopic level, the person with this anomaly may get very nervous from a small amount of caffeine. In the early stages, the person may actually be addicted to it, perhaps due to endorphin release as the body attempts to counter the adverse reaction. Another possibility with caffeine relates to its diuretic capability. Someone with deficient caffeine-processing CYP450 enzymes might be made ill from caffeine ingestion due to loss of sodium and other minerals and water.

Even stress intolerance can be due to a CYP450 anomaly. This is because these enzymes process adrenal hormones. For some people, the smallest stress makes them feel very ill because the increased level of adrenal hormones induces specific CYP450 enzymes. If these are deficient, the adrenal hormones can build up to dangerous levels or at least to a level that the person walks around with "the shakes". Thus this mechanism may account for numerous seemingly "emotional" or "mental" illnesses.

The notion of defective CYP450 enzymes may relate to the person having (usually hidden) porphyria. Recall [NEXUS 18/01] that in porphyria—which I stated that some 20 per cent of us may have a genetic predisposition for—attempts to increase production of haem compounds often end up causing an increase in the level of circulating porphyrin compounds. This then causes much illness and suffering. It is heavy metal or other toxic exposure that if high enough or if long-lasting enough can cause a permanent CYP450 problem. This is really porphyria, but "the powers that be" do not want the word "porphyria" to be used—probably because they do not want us to realise the extent, possible deliberateness and *permanent harm* that can arise from the toxic exposures to which we are subjected. One example of this is that most pesticides are created to overwhelm and destroy the CYP450 enzymes in plants—but because our CYP450s are virtually identical, pesticides at any level are harmful to humans. Eating organic is wise.

### CYP450 Enzymes, Foods and Drugs

We will also see that individual CYP450 anomalies account for allergy-like reactions to specific foods in many people. This is because the CYP450 enzymes process specific compounds in various foods. If a substance in a food attempts to activate a specific CYP450 that is deficient or defective, the food compound may not be detoxified and may build up to a toxic level in the body and/or again may lead to toxic levels of porphyrins circulating as well. This effect accounts for why skin or blood tests often do not find evidence of food "allergies" in these people. It is not an antibody–antigen reaction but a metabolic one. Indeed, if a slight immunological reaction does also ensue, this can cause far greater harm than expected because another CYP450 enzyme that processes histamine may also be deficient or defective.

Another now common phenomenon that the CYP450 anomaly accounts for is that many people taking vitamins or herbs do not see improvement.

Often the opposite occurs. Here again, specific CYP450 enzymes are activated by specific vitamins or herbal compounds. But if these specific CYP450s are defective or deficient, these herbal compounds or supplements may build up to toxic levels and/or induce the creation of toxic levels of porphyrins again.

This may be an unspoken but common occurrence in the patients of alternative practitioners. Because either no type of testing occurs beforehand for supplements or the testing—including muscle testing—is not accurate, the patient continues to react adversely to assumed beneficial supplements. For 32 years I have had people bring up to hundreds of supplements for testing. This culminated in 2002 with my creating special kinesiological testing to determine if foods or supplements will elicit adverse reactions via the mechanism discussed in this article. Some people test badly for 98 per cent of their supplements. One mistake that supplement companies make is to play the one-

upmanship game and try to add more ingredients than their competition does, thus causing one or more ingredients to react adversely.

If you are among the 20 per cent that this applies to, consider taking supplements that come as powders or in capsules with little or no excipients and perhaps with only the one nutrient that you wish to take. Also, the person with deficient or defective CYP450

enzymes may have to take supplements in a very different way. *If you can take them at all, try taking smaller amounts and rotate them—i.e., take your supplements only every 4–5 days or so.* But know that some people cannot take *any* vitamin or herbal supplement. Homeopathic remedies may also be problematic either because of reaction to the alcohol, lactose or sucrose or because the remedy is not dilute enough for these people.

The need to rotate supplements mirrors the need to do likewise with foods in people with these CYP450 anomalies. Indeed, microscopic CYP450 anomalies may again explain the macroscopic problems of *universal food reactivity, addiction and withdrawal*. Food addiction is a rampant problem. Sometimes a specific substance added to food is notoriously addictive, as is the case with monosodium glutamate (MSG). Other times, specific natural food components in these foods cause an adverse reaction—and, in the early stages, sometimes an addiction—and a withdrawal phase. Once a set of CYP450 enzymes is induced (or attempted to be induced) by a specific food component, the effects of this induction can be felt for several days due to the individual CYP450 enzyme's *half-life* (1–4 days) and/or the time needed to clear the body of excess porphyrins.

**If a substance in a food attempts to activate a specific CYP450 that is deficient or defective, the food compound may not be detoxified...**

This can explain why the withdrawal phase from a food lasts about four or five days. Stopping and preventing further induction of specific CYP450 enzymes is accomplished by adhering to the Rotary Diversified Diet (RDD). One does not eat the same food again until four days later and even avoids foods in the same family for two days. While allergists first proposed this some 75 years ago, this may be the first accurate explanation for it. Everyone with any inflammatory or allergy-like illness should try it.

Many people with chronic illness know some of these things intrinsically, but most often the full extent or nature of the problem is not yet known. Someone may variously be avoiding *only one* of the following components in foods: gluten/gliadin, sulphur compounds, salicylates, oxalates, lectins, sialic acid, advanced glycation end-products (AGEs), belladonna alkaloids (nightshades) or others. But people with these problems may need to avoid more than one of these groups. Indeed, some people react to foods in *all* these groups. Then there may be little left to eat. However, we can utilise our knowledge of the half-life effect of the CYP450 enzymes—or the knowledge that has come from environmental physicians—and that is to *rotate all foods*, else safe foods may soon cause adverse reactions. Since most of these reactions are not permanent or true allergic reactions, many previously unsafe foods—but not all—may be tolerated on a rotating basis. The sickest people are often those who are eating only 3–5 foods every day. Also among the sickest are those who are taking drugs or supplements daily that they are unknowingly reacting to every day.

The danger of reacting to drugs or anaesthetics is illustrated by the following. As most physicians know little about all this—or don't act accordingly—when a prescribed drug does not have the desired effect, many physicians will then merely say, "Well, let's try you on a higher dose or a longer period of time". Sometimes this may actually be correct (from their point of view), as it is possible to have an overabundance of specific CYP450 enzymes that process a drug. Then more of the drug is needed to overcome the rapid metabolising of it before it can take effect. However, if the drug was first ineffective and was overridden by side-effects, it may be an indication of a deficiency in the specific CYP450s needed to process it. Then giving a higher dose may have drastic consequences.

So, whether for drugs or supplements/herbs, the "logic" of saying "If the lower dose didn't help you, just take more" can be harmful, even fatal. CYP450 uptake accounts for 75 per cent of drug metabolism in the body. It is admitted that in the USA alone, over 100,000 people per year die from adverse drug reactions. Much of these are said to be from interactions between drug-induced CYP450 enzymes, which we will shortly discuss.

Some people report lifelong problems after taking certain drugs. These include birth control pills, antidepressant drugs, antipsychotic drugs, anti-epileptic drugs—indeed, any drug. Sulfonal, the first popular sulphur-containing drug used in the 1880s, caused adverse and, likely, porphyric reactions in some 14 per cent of those who took it. Likewise, any toxic exposure

may overload the CYP450 enzymes and other systems and cause lifelong problems. Chemotherapy for cancer patients is known to have done this, and sometimes causes lifelong intolerance to the sun. Recall that the CYP450 enzymes got their name because they absorb blue-indigo light, and anyone who is sun or light sensitive may have an anomaly in these enzymes causing this sensitivity. Pesticide exposure is known to have caused lifelong chronic illness, in part via CYP450 anomalies; and mercury compounds may have the greatest capacity to create lifelong defect and/or deficiency in numerous CYP450 enzymes. Again, this may really be porphyria.

#### CYP Detoxifies Toxins in Plants

Virtually all living entities, from simple viruses to single-celled plants and animals to higher mammals, have CYP450 enzymes. Some mammals have

more than the 50–60 that humans have. Mice, for example, have 101 known CYPs. (I will henceforth drop the "450".) On the evolutionary timeline, the gene for CYP is thought to have existed for more than 3.5 billion years. As plants and animals evolved together, it is thought that with more higher animals around to eat plants, the plants began to create more toxic compounds within them, and animals then had to evolve with more CYP enzymes to survive ingesting the evolving plants' toxins.

Recently, in addition to detoxifying ingested or inhaled toxins and metabolising various compounds in the body, CYP was found to be involved in vascular autoregulation, particularly in the brain.

**The sickest people are often those who are eating only 3–5 foods every day. Also among the sickest are those who are taking drugs or supplements daily that they are unknowingly reacting to every day.**

So these enzymes may be involved in blood–brain barrier permeability, which I addressed in NEXUS 18/03. However, the fact that *the highest concentration of CYP is in the liver and small intestine* indicates that detoxifying food compounds may be the primary goal of these enzymes. CYP has also been found in the lungs, skin, kidneys, bladder, brain, blood vessels and to a lesser extent in all the cells of the body.

Cytochrome P450 enzymes may play an important role in cancer. Some CYPs may bioactivate pro-carcinogens into carcinogens, and some CYPs are involved in the removal of carcinogens from the body.

Several cancers are known to be hormone sensitive, and thus the CYPs involved in, for example, steroid or retinoic acid metabolism may be involved in suppression or promotion of malignancies. There is also indication that CYPs in the lung may be involved in reactions that promote lung cancer, especially in cigarette-smokers.

CYP is known to change as we progress from infancy to old age. For example, CYP1A2 is not expressed in neonates, making them susceptible to toxicity from drugs and caffeine, which is also metabolised by CYP1A2. Probably we are all better off without caffeine, but it's important to keep very young children away from cola, tea or coffee.

Some CYPs are found throughout the body, e.g., CYP51, while others are found in just one specific tissue. CYP11B2 has been found only in the glomerulosa zone of the adrenal gland.

### CYP-Mediated Drug Interactions

Let's examine some specific, important CYP enzymes. Chronic ethanol consumption has been found to induce CYP2E1 and may increase the likelihood of toxicity. CYP3A4 makes up about 30 per cent of all CYP in the liver and about 70 per cent of small intestinal CYP. This large family of enzymes metabolises more drugs than any other CYP450, but it also metabolises steroid hormones, cholesterol and vitamin D. Now if someone is taking several drugs, potentially serious problems may arise, as follows. If one drug inhibits the CYP-mediated metabolism of another drug, the second drug may reach a toxic level in the body. This is why pharmacists and physicians first ask for the complete list of drugs that a person may be taking.

However, CYPs do not know the origin of the

compounds that interact with them. Naturally occurring compounds may also induce or inhibit CYP activity. Compounds including bergamottin, dihydroxy-bergamottin, paradicin-A and naringenin, found in grapefruit and some other fruits, have been shown to inhibit CYP3A4-mediated metabolism of some drugs, leading to increased bioavailability and thus the possibility of overdosing. Because of this risk—involving CYP3A4—avoiding grapefruit while taking drugs is often advised.

An example of the complexity of all this relates to St John's Wort (SJW), a herbal remedy used for depression. Scott and Elmer in 2002 stated that SJW "...illustrates how results obtained *in vitro* may not reflect what happens *in vivo*. SJW has been found to inhibit several

CYP isozymes *in vitro*, including CYP2C9, CYP2D6, and CYP3A4. *In vivo*, however, SJW appears to be an enzyme inducer. This mismatch between laboratory and clinical findings may be explained by a constituent of SJW, hyperforin, that affects the production of metabolizing enzymes. Hyperforin appears to bind to a nuclear receptor called the pregnane X receptor, increasing the expression of CYP3A4. This activity, which is not observed *in vitro*, leads to increased CYP3A4 availability and subsequent increased metabolism of drugs acting as substrates for CYP3A4... Drug interactions with St John's wort mediated by CYP3A4 could be lethal."<sup>1</sup>

Readers of NEXUS are aware, of course, of Big Pharma's desire to eliminate natural remedies, but this article indicates the potential danger of taking several things—herbs or drugs—at the same time.

CYP46, which appears to rid the brain of excess cholesterol, and

CYP51 are involved in cholesterol metabolism. CYP26 is involved in retinoic acid metabolism. CYP19A catalyses androgens into oestrogens. CYP7 is involved in bile acid synthesis. CYP5 is involved in thromboxane synthesis. CYP8 is involved in prostacyclin synthesis. CYP1A is involved in bilirubin metabolism. The CYP4 family is involved in metabolism of fatty acids, including arachidonic acid.

Some of the CYP2 family is found in high amounts in the nasal mucosa, and some of what they do is to interact with and detoxify cigarette smoke. Here again we see how these microscopic enzymes may account for how some people are profoundly affected by the smell of cigarette smoke.

**Cytochrome P450 enzymes may play an important role in cancer. Some CYPs may bioactivate pro-carcinogens into carcinogens, and some CYPs are involved in the removal of carcinogens from the body.**

## CYP450 Enzymes and Ethnic Variations

In my last article in NEXUS [19/02], I discussed the role of the common class of drugs called "beta-blockers", prescribed originally for hypertension but now given for anxiety, post-traumatic stress disorder and cancer.

The role of beta-blockers—first noted in 1989 in causing "permanent anaphylactic reactivity", presumably what is now called "mast cell disease"—was cited. It is CYP2D6 that processes beta-blockers. It is also known that many people lack a functioning 2D6, and this varies according to race/ethnicity.

L. DiAnne Bradford found: "Over 40 cytochrome P450 (CYP) 2D6 allelic variants have been discovered thus far. The alleles may be classified on the basis of the level of activity for which they encode CYP2D6 enzymes, into functional, non-functional and reduced function groups. CYP2D6 allele frequency is known to vary amongst racial/ethnic groups.

"Generally, for European Caucasians and their descendants, the functional group of alleles are predominant, with a frequency of 71%. Non-functional alleles represent 26% of the variability, mainly CYP2D6\*4. In Asians and their close descendants, functional alleles represent only ~50% of the frequency of CYP2D6 alleles. Asians and Pacific Islanders have a high frequency (median = 41%) of a reduced function allele, CYP2D6\*10...indicating slower metabolism..."<sup>2</sup>

The article goes on to cite differences in 2D6 for other ethnic groups.

## Multidrug Resistance Protein

Another class of compounds has been found to assist the CYP enzymes. There is an association between some CYPs and the transmembrane pump protein, P-glycoprotein 1 (Pgp1) (the "P" stands for "permeability"). It's also being called "multidrug resistance protein 1". It transports a wide variety of substrates across extra- and intracellular membranes, and is found in the liver, pancreas, kidney, colon, jejunum, adrenal gland and capillary endothelial cells comprising the *blood-brain and blood-testis barriers*.

It binds to adenosine triphosphate (ATP) as well as to the substrate. Pgp1 functions as a transporter in the blood-brain barrier and is involved in drug resistance. It transports lipids, steroids, xenobiotics/drugs, peptides and bilirubin across cell membranes. It aids CYP4503A in the task of removing toxic metabolites and xenobiotics from cells into urine, bile and the intestinal lumen.

## The Vitamin D Issue

Vitamin D is metabolised by CYP24 and CYP27, but other CYPs may be involved as they metabolise cholesterol. The issue of vitamin D is very complicated. Many people are being found to have low blood levels of vitamin D, and many practitioners are dealing with this simplistically. Some people found that when they took vitamin D supplements—often prescribed in massive doses—they became ill. They may have hidden porphyria or other problems with CYP450 enzymes.

One protocol now being used involves people with chronic fatigue syndrome or any inflammatory or environmental illness rigorously avoiding supplements *and foods* with any appreciable vitamin D content. Supposedly this needs to be done for years before improvement is felt. I think that, rather, the matters discussed herein and in my previous articles need to be addressed. However, it may be correct for some people to avoid vitamin D ingestion—especially in massive

doses—even if they have low blood levels. This should be dealt with individually. Perhaps it is the body's wisdom to have caused the low level.

It must be noted that because of CYP deficiency or defect, there may be people who cannot safely take *any* supplements. Such people should learn energy balancing to improve their health.

Getting tested for as many CYP450 enzymes as possible is

a good idea, especially if you have any chronic illness, or indeed just for longevity. The ability to do this varies by country. In the USA, until June 2009 it was easy to get such testing. Several companies had offered panels which tested for numerous CYP450s. They were variously labelled as "immunological panel", "cardiovascular panel", etc. Then the FDA banned these tests. If your country also is making this difficult, I've thought of one way around this...

The drug companies are making it easy, and soon perhaps mandatory, to get tested for various cytochrome P450 enzymes that detoxify the drugs they manufacture. Yet some of these CYPs are the very same ones involved in various chronic illnesses. While the drug companies are interested in selling more drugs and not being sued, you can make use of what they are facilitating for the ends I have described here!

Likewise, if you suspect you have porphyria—and recall that I have written that the tests for this are easily interfered with or perhaps deliberately corrupted—then once again try to get CYP450 testing. Because these tests are not readily interfered with is perhaps the reason why they were banned in the USA.

**It must be noted that because of CYP deficiency or defect, there may be people who cannot safely take *any* supplements.**

## The Liver's Detoxifying Phases

Many toxins are fat soluble, and it is the liver's job to make them water soluble so that they can be eliminated via the kidneys or else via bile/stool. Phase I is mostly cytochrome P450-mediated detoxification. These reactions add oxygen (oxidation) and are also called "bioactivation". But this phase actually creates free radicals and can even make some chemicals carcinogenic. If the liver's subsequent Phase II is underfunctioning, many of the free radicals and potential carcinogens created via the Phase I reactions can get into the bloodstream and cause harm and illness. Some labs test for Phase I and II activity as well as for glutathione levels. This may involve ingesting aspirin, acetaminophen and caffeine. Then blood, urine and saliva are taken to assay how well and how quickly the liver processes these chemicals. Phase I can be inhibited by grapefruit (naringenin), some herbs, spices and drugs. Other herbs can enhance Phase I. Some Phase I intermediate metabolites are similar or identical to sedative compounds. They can cause fatigue, as in CFS. Aldehydes also are produced in Phase I reactions.

There is significant individual variability here, since some 57 known genes—each with many variations, some over 100—code for about this same number of known CYP450 enzymes. Thus there is a tremendous variability in mankind's reactions to foods, drugs, environmental chemicals, our own hormones, etc. There is also a wide variation in the *amount* of CYP450 enzymes in people. This can account for small amounts of compounds in food or air causing illness in some.

With exposure to toxic substances, the activity and number of specific CYP450 enzymes that take up these specific toxic substances—and similarly our own hormones and food compounds—increase. Again, this is called "induction". Also induced are other hepatic detoxification enzymes involved in conjugation (Phase II), namely sulphur transferase, and in acetylation and sulphation. Chronic toxic exposure causes the creation of more CYP450 enzymes, and their activity can eventually lead to hepatic and other tissue damage. If toxic exposure is too great or too frequent, the conjugating nutrients—glutathione peroxidase, glutathione reductase, vitamin E, vitamin C, carotenes, superoxide dismutase (SOD)—may become depleted, leading to peroxidation and tissue damage, but the opposite effect can be harmful too.

This is part of the complexity of the CYP450 system. *Deficient, inhibited and/or porphyric CYP450s may make it more difficult to clear hormones and inflammatory compounds, e.g.,*

*histamine.* This can lead to metabolic toxicity, inflammatory conditions and allergy-like disorders. People with underactive CYP450 enzymes can be more susceptible to caffeine intolerance, drug intolerance, multiple chemical sensitivity (MCS) and universal food reactivity. Inhibition of CYP450s can be caused by low caloric intake or fasting, protein deficiency, phosphatidylcholine deficiency, antihistamines, cimetidine, naringenin in grapefruit, vitamin C and A deficiencies, and bacterial endotoxins.

If Phase I is *overactive*, obviously decreasing the toxic burden on the body is key. Cutting down on protein and indoles (in cruciferous vegetables) can also help normalise a hyperactive Phase I. *The best current solution may be to avoid xenobiotics, as exposure leads to the body's attempts to create more CYP450s.* This apparently only ends up yielding more porphyrins and perhaps less-detoxifying CYP450s in some people.<sup>3</sup> Indeed, the

**Chronic toxic exposure causes creation of more CYP450 enzymes, and their activity can eventually lead to hepatic and other tissue damage.**

complexity of the CYP450 enzymes is indicated by the fact that a *single food, or even a food component, may induce some CYP450 enzymes and inhibit others.* *The various interacting parameters—induction, inhibition, half-life—of the CYP450 system at least partially account for universal food reactivity as well as for food addiction and withdrawal.*

A low-fat, organic diet can be crucial for improving CYP450/Phase I functioning. Try to avoid

all toxic substances in air, water and food. Special liver-enabling nutrients like glutathione and other antioxidants *may* help. The newer liposomal or acetyl forms of glutathione are recommended here. Ideally, muscle-test every food and supplement before ingesting. Failure to do this with a good and accurate kinesiologist (or to become one yourself, or for your partner to become one) is a leading reason for the failure of chronically ill people to get well.

## Gilbert's Syndrome and Intolerance to Fats

Above I noted that CYP1A is involved in bilirubin metabolism. CYP2E1 is also involved in metabolising lipid peroxide radicals produced from fats. Now, many people with chronic and/or environmental illness recognise that the onset of it included intolerance to fatty foods. They may have noted yellow or green stools, feeling sick or having abdominal pain or other complaints as a result of eating fatty foods. *Five to 10 per cent of humanity is said to have an hereditary mutation causing them to have Gilbert's syndrome (GS).* *The percentage is much higher for people with chronic inflammatory illness, though most will never get tested for GS.* (Gilbert was French, so his name is

**Continued on page 80**

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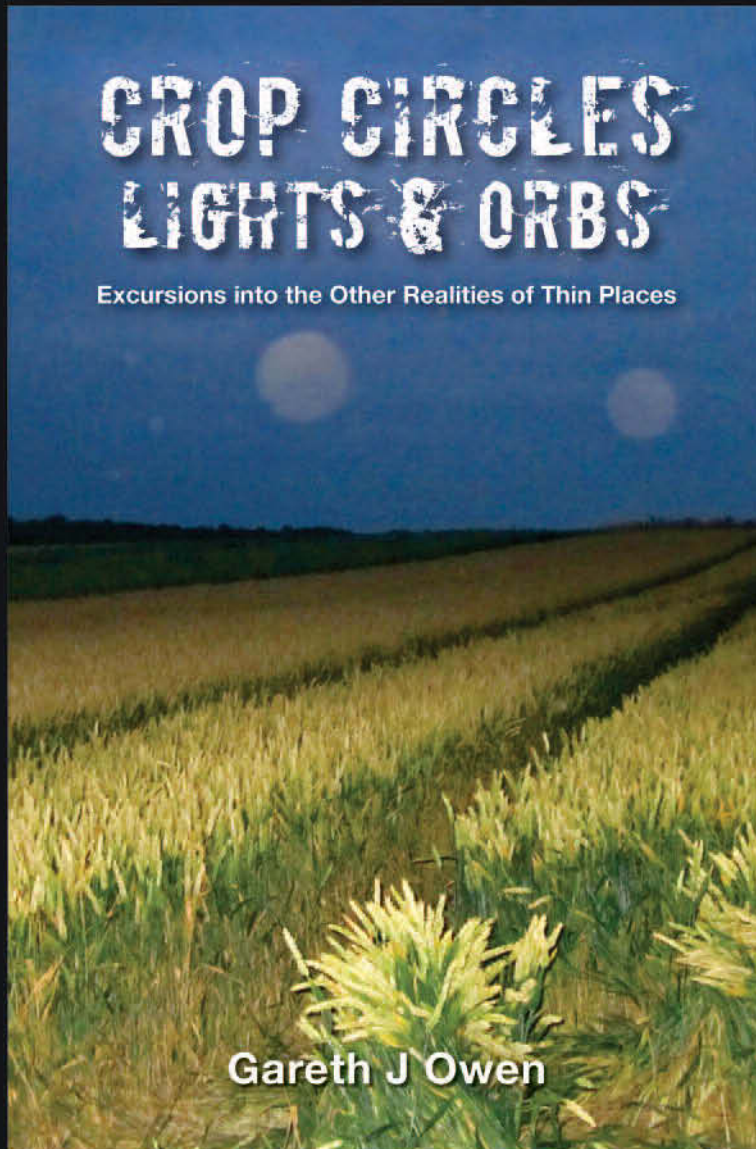
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# DOES DNA EMIT LIGHT?

*Living organisms use light, or photons, to communicate with each other. As biophysicist Dr Fritz-Albert Popp discovered, DNA is an essential source of light emissions, sending out biophotons across a wide range of frequencies.*

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## Are Humans Really Beings of Light?

I get lots of suggestions for stories, and I really appreciate them, but some of them are too good to be true. An example of this is the story of a giant human skeleton—maybe 40 feet [around 20 metres] tall—that was discovered by a Russian archaeological team. The story had photos and links accompanying it and looked promising, but when the links were researched they went in a circle. Each link used the other link as the source. Finally, the elements of the photos turned up and we recognised that a good Photoshop job had fooled everyone.

I had this same experience when I was sent an article where a Russian (again) scientist, Dr Pjotr Garjajev, had managed to intercept communication from a DNA molecule in the form of ultraviolet photons—light! What's more, he claimed to have captured this communication from one organism (a frog embryo) with a laser beam and then transmitted it to another organism's DNA (a salamander embryo), causing the latter embryo to develop into a frog! But this was just the beginning.

Dr Garjajev claims that this communication is not something that happens only inside the individual cells or between one cell and another. He claims that organisms use this "light" to "talk" to other organisms and suggests that this could explain telepathy and ESP. It was like human beings already had their own wireless Internet based on our DNA. Wow!

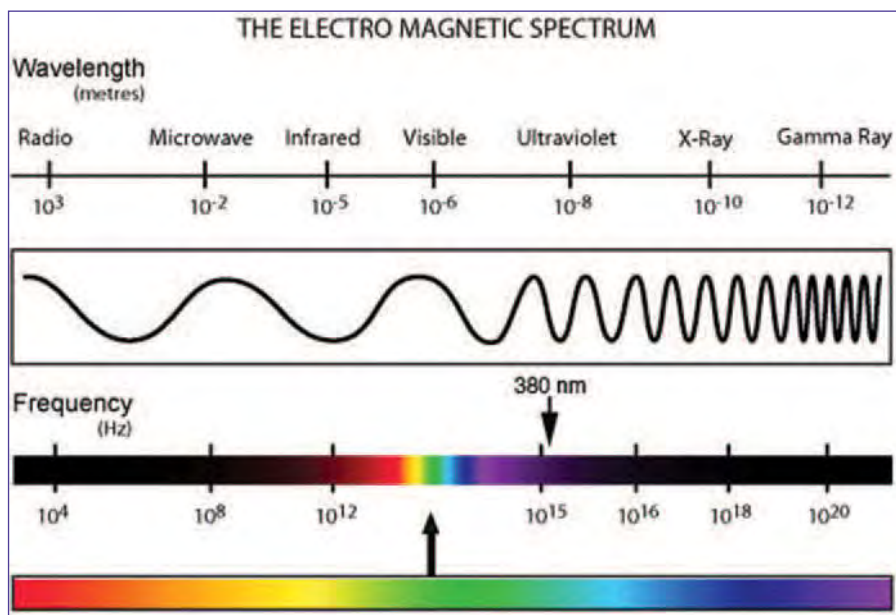
I tried to find a scientific journal that had this experiment. All I could find were blogs and other websites that carried the same story, word for word, without any references—that is, until I stumbled on the work of Dr Fritz-Albert Popp. Then everything I had just read seemed very plausible.

Fritz-Albert Popp thought he had discovered a cure for cancer. I'm not convinced that he didn't. It was 1970, and Popp, a theoretical biophysicist at the University of Marburg in Germany, had been teaching radiology—the interaction of electromagnetic (EM) radiation on biological systems. Popp was too early to worry about things like cellphones and microwave towers which are now commonly linked with cancers and leukaemia. His world was much smaller.

He'd been examining two almost identical molecules: benzo[*a*]pyrene, a polycyclic hydrocarbon known to be one of the most lethal carcinogens to humans, and its twin (save for a tiny alteration in its molecular makeup), benzo[*e*]pyrene. He'd illuminated both molecules with ultraviolet (UV) light in an attempt to find exactly what made these two almost identical molecules so different.

## Why Ultraviolet Light?

Popp chose to work specifically with UV light because of the experiments of a Russian biologist named Alexander Gurwitsch who, while working with onions in 1923, discovered that roots could stimulate a neighbouring plant's



All vibrations of energy are part of the electromagnetic spectrum. These include electrical energy, heat, sound, light, radio waves and radioactive waves. Ultraviolet light is merely a small portion of the spectrum of EM energy with a very short wavelength.

roots if the two adjacent plants were in quartz glass pots but not if they were in silicon glass pots—the only difference being that the silicon filtered UV wavelengths of light while the quartz did not. Gurwitsch theorised that onion roots could communicate with each other by ultraviolet light.

Popp discovered that benzo[*a*]pyrene (the cancer-producing molecule) absorbed the UV light, then re-emitted it at a completely different frequency. It was a light "scrambler". The benzo[*e*]pyrene (harmless to humans) allowed the UV light to pass through it unaltered. He was puzzled by this difference, and continued to experiment with UV light and other compounds. He performed his test on 37 different chemicals, some cancer-causing, some not. After a while, he was able to predict which substances could cause cancer. In every instance, the compounds that were carcinogenic took the UV light, absorbed it and changed or scrambled the frequency.

There was another odd property of these compounds: each of the carcinogens reacted only to light at a specific frequency—380 nanometres (nm) in the ultraviolet range. Popp kept wondering why a cancer-causing substance would be a light scrambler. He began reading the scientific literature, specifically about human biological reactions, and came across information about a phenomenon called "photorepair".

### Understanding Photorepair

It is well known from biological laboratory experiments that if you blast a cell with UV light so that 99 per cent of the cell, including its DNA, is destroyed, you can almost entirely repair the damage in a single

day just by illuminating the cell with the same wavelength at a much weaker intensity. To this day, scientists don't understand this photorepair phenomenon, but no one has disputed it.

Popp also knew that patients with xeroderma pigmentosum eventually die of skin cancer because their photorepair system can't repair solar damage. He was also struck by the fact that photorepair worked most efficiently at 380 nm—the same frequency that the cancer-causing compounds react to and scramble.

This was where Popp made his logical leap. If the carcinogens only reacted to this frequency, it must somehow be linked to photorepair. If so, this would mean that there must be some kind of light in the body responsible for photorepair. A compound must cause cancer because it permanently blocks this

light and scrambles it, so photorepair can't work any more. It seemed logical, but was it true?

### Light Inside the Body

Popp was freaked out by this. He wrote about it in a paper, and a prestigious medical journal agreed to publish it.

Not long after that, Popp was approached by a student named Bernhard Ruth, who asked Popp to supervise his work for his doctoral dissertation. Popp told Ruth he was prepared to do so if the student could show that light was emanating from the human body.

This meeting was fortuitous for Popp because Ruth happened to be an excellent experimental physicist. Ruth thought the idea was ridiculous, and immediately set to work building equipment to prove Popp's hypothesis wrong.

Within two years, Ruth had constructed a machine resembling a big X-ray detector which used a photomultiplier to count light, photon by photon. Even today, it is still one of the best pieces of equipment in the field. The machine had to be highly sensitive because it had to measure what Popp assumed would be extremely weak emissions.

In an old documentary film taken in the laboratory at the International Institute of Biophysics, Dr Popp opens a chamber about the size of a bread box. He places a fresh cutting from a plant and a wooden match in a plastic container inside the dark chamber and closes the lightproof door. Immediately he switches on the photomultiplier and the image shows up on a computer screen. The matchstick is black while the green, glowing silhouette of the leaves is clearly visible.

Dr Popp exclaims: "We now know, today, that man is essentially a being of light!"

In 1976, they were ready for their first test with cucumber seedlings. The photomultiplier showed that photons, or light waves, of a surprisingly high intensity were being emitted from the seedlings. In case the light had to do with an effect of photosynthesis, they decided that their next test—with potatoes—would be to grow the seedling plants in the dark. This time, when the seedlings were placed in the photomultiplier, they registered an even higher intensity of light. What's more, the photons in the living systems they'd examined were more coherent than anything they'd ever seen.

Popp began thinking about light in nature. Light was present in plants and used during photosynthesis. When we eat plant foods, he thought, it must be that we take up the photons and store them.

When we consume broccoli, for example, and digest it, it is metabolised into carbon dioxide (CO<sub>2</sub>) and water, plus the light stored from the sun and photosynthesis. We extract the CO<sub>2</sub> and eliminate the water, but the light—an EM wave—must be stored. When taken in by the body, the energy of these photons dissipates and becomes distributed over the entire spectrum of EM frequencies from the lowest to the highest.

This energy is the driving force for all the molecules in our body. Before any chemical reaction can occur, at least one electron must be activated by a photon with a certain wavelength and enough energy.

The award-winning biochemist Dr Albert L. Lehninger mentions in his textbook [*Principles of Biochemistry*] that some reactions in the living cell happen quite a lot faster than what corresponds to a 37°C temperature. The explanation seems to be that the body purposely directs chemical reactions by means of electromagnetic vibrations (biophotons).

### **Photons (Light) Control Everything in the Cell**

Photons switch on the body's processes like an orchestra conductor bringing each individual instrument into the collective sound. At different frequencies, they perform different functions. Popp found that molecules in the cells responded to certain frequencies, and that a range of vibrations from the photons caused a variety of frequencies in other molecules of the body.

This theory has been supported by Dr Veljko Veljković, who heads the Centre for Multidisciplinary Research and Engineering at the Vinča Institute of Nuclear Science in Belgrade. She dared to ask the question that has forever puzzled cellular biologists: what is it that enables the tens of thousands of different kinds of molecules in the organism to recognise their specific targets?

Living processes depend on selective interactions between particular molecules, and this is true for basic metabolism to the subtlest nuances of emotion. It's like trying to find a friend in a very big, very crowded ballroom in the dark.

The conventional picture of a cell even now is that of a bag of molecules dissolved in water.

Through bumping into one another by chance (random collisions), those molecules that have complementary shapes lock onto each other so that the appropriate biochemical reactions can take place. This "lock and key" model has been refined to a more flexible (and realistic) "induced fit" hypothesis that allows each molecule to change shape slightly to fit the other better after they get in touch, but the main idea remains the same.

It is supposed to explain how enzymes can recognise their respective substrates, and how antibodies in the immune system can grab onto specific foreign invaders and disarm them. By extension, that's how proteins can "dock" with different partner proteins, or latch onto specific nucleic acids to control gene expression, or assemble into ribosomes for translating proteins or other multi-molecular complexes that modify the genetic messages in various

ways. But with thousands—or even hundreds of thousands—of reactions happening each second in just one cell, this seems to be pushing the "mechanical" concept a bit too far.

What has been proposed is that somehow each molecule sends out a unique electromagnetic field that can "sense" the field of the complementary molecule. It's as if there is a "dance" in the cellular medium and the molecules move to the rhythm. The music is supplied by the biophoton.

As Dr Mae-Wan Ho, of the Institute of Science and Society, comments:

"[Veljko] Veljković and [Irena] Cosić proposed that molecular interactions are electrical in nature, and they take place over distances that are large compared with

**Popp found that molecules in the cells responded to certain frequencies, and that a range of vibrations from the photons caused a variety of frequencies in other molecules of the body.**

the size of molecules. Cosic later introduced the idea of dynamic electromagnetic field interactions, that molecules recognize their particular targets and vice versa by electromagnetic *resonance*. In other words, the molecules send out specific frequencies of electromagnetic waves which not only enable them to 'see' and 'hear' each other, as both photon and phonon modes exist for electromagnetic waves, but also to influence each other at a distance and become ineluctably drawn to each other if vibrating out of phase (in a complementary way)...

"There are about 100,000 chemical reactions happening in every cell each second. The chemical reaction can only happen if the molecule which is reacting is excited by a photon... Once the photon has excited a reaction it returns to the field and is available for more reactions... We are swimming in an ocean of light."

These "biophoton emissions", as Popp called them, provided an ideal communication system for the transfer of information to many cells across the organism. But the single most important question remained: where was the light coming from?

A particularly gifted student talked him into another experiment. It is known that when ethidium bromide is applied to samples of DNA, it insinuates itself in between the base pairs of the double helix, causing the DNA to unwind. The student suggested that, after applying the chemical, they measure the light coming from the sample. Popp found that the greater the concentration of ethidium, the more the DNA unravelled but also the stronger the intensity of light. Conversely, the less he used, the less light was emitted.

He also found that DNA could send out a wide range of frequencies, some of which seemed to be linked to certain functions. If DNA stored this light, it would naturally emit more light on being unzipped.

These and other studies proved to Popp that one of the most essential sources of light and biophoton emissions was DNA. DNA was like the master tuning fork of the body. It would strike a particular frequency and certain molecules would follow. It was also possible, he realised, that he had stumbled upon the missing link in current DNA theory that could account for perhaps the greatest miracle of all in human biology: how a single cell can turn into a fully formed human being.

## How Cells "Talk" to Each Other

When you get a cut or scratch on your skin, the cells that are injured somehow signal the surrounding healthy cells to begin reproducing copies of themselves to fill in and mend the opening. When the skin is back to normal, a signal is sent to the cells to tell them to stop reproducing. Scientists have wondered exactly how this works.

With biophoton emissions, Popp believed he had an answer to this question. This phenomenon of coordination and communication could only occur in a holistic system with one central orchestrator. Popp showed in his experiments that these weak light emissions were sufficient to orchestrate the body's repairs. The emissions had to be low intensity because these communications took place on a very small, intracellular, quantum level. Higher intensities would have an effect only in the world of the large and would create too much "noise" to be effective.

The number of photons emitted seemed to be linked to the organism's position on the evolutionary scale: the more complex the organism, the fewer photons were emitted. Rudimentary animals and plants tended to emit 100 photons/cm<sup>2</sup>/sec at a wavelength of 200–800 nm, corresponding to a very-high-frequency EM wave well within the visible range, whereas humans tended to emit only 10 photons/cm<sup>2</sup>/sec at the same frequency.

In one series of studies, Popp had one of his assistants—a 27-year-old healthy young woman—sit in the room every day for nine months while he took photon readings of a small area of her hand and forehead. Popp then analysed the data and discovered, to his surprise, that the light emissions followed certain set patterns—biological rhythms at seven, 14, 32, 80 and 270 days—and he noted similarities by day or night, by week and by month, as though the body were following the world's biorhythms as well as its own.

## Cancer is a Loss of Coherent Light

So far, Popp had studied only healthy individuals and found an exquisite coherence at the quantum level. But what kind of light was present in those who were ill?

Popp tried out his machine on a series of cancer patients. In every instance, these patients had lost those natural periodic rhythms as well as their coherence. The lines of internal communication were

**The number of photons emitted seemed to be linked to the organism's position on the evolutionary scale: the more complex the organism, the fewer photons were emitted.**

scrambled. They had lost their connection with the world. In effect, their light was going out.

Just the opposite is seen with multiple sclerosis. MS is a state of too much order. Patients with this disease are taking in too much light, thereby inhibiting their cells' ability to do their job. Too much cooperative harmony prevents flexibility and individuality—like too many soldiers marching in step as they cross a bridge, causing it to collapse. Perfect coherence is an optimal state between chaos and order. With too much cooperation, it is as though individual members of the orchestra are no longer able to improvise. In effect, MS patients are drowning in light.

Popp also examined the effects of stress. In a stressed state, the rate of biophoton emissions goes up—a defence mechanism designed to restore the patient's equilibrium.

Popp now recognised that what he'd been experimenting with was even more than a cure for cancer. Here was a model which provided a better explanation than the current neo-Darwinist theory for how all living things evolved on the planet.

Rather than being a system of fortunate but ultimately random error, if DNA uses frequencies of every variety as an information tool then this suggests instead a feedback system of perfect communication through waves that encode and transfer information.

### **“Good Vibes” Means Coherent Light**

Popp came to realise that light in the body might even hold the key to health and illness. In one experiment, he compared the light from free-range hens' eggs with that from penned-in, caged hens. The photons in the former were far more coherent than those in the latter.

Popp went on to use biophoton emissions as a tool for measuring the quality of food. The healthiest food had the lowest and most coherent intensity of light. Any disturbance in the system increased the production of photons. Good health was a state of perfect subatomic communication, and ill health was a state of communication breakdown.

We are ill when our waves are out of synch.

Biophoton emission detection is currently used commercially in the food industry. Agricultural science is looking at biophoton emissions to determine plant health for the purposes of food quality control.

BioPhotonen is a company working for the development and practical applications of biophotonics. The work is based on a variety of patents. BioPhotonen solves practical problems of the food industry, environmental industry, cosmetics industry, etc.

### **Offshoots of Dr Popp's Discovery**

In the 1970s, Dr Veljko Veljković also discovered a method for predicting which of the hundreds of new chemicals made by the rapidly expanding chemical industry were carcinogenic by calculating certain electronic, biophotonic properties of the molecules. This method was soon found equally applicable to predicting organic chemicals that were mutagenic or toxic, and even those that were antibiotic or cytostatic (anticancer). Dr Veljković's institute in Belgrade has since teamed up with other European laboratories to apply the same method to drug discovery, especially against AIDS disease.

### **Biophoton Therapy**

Biophoton therapy is the application of light to particular areas of the skin for healing purposes. The photons (light) that are emitted by these units are

absorbed by the skin's photoreceptors and then travel through the body's nervous system to the brain, where they help regulate what is referred to as our human bio-energy. By stimulating certain areas of the body with specific quantities of light, biophoton therapy can help reduce pain as well as aid in various healing processes throughout the body.

The theory behind biophoton therapy is based on the work of

Dr Franz Morell and has been expanded by the work of Drs L. C. Vincent and Fritz-Albert Popp, who theorised that light can affect the electromagnetic oscillation or waves of the body and regulate enzyme activity.

It took some 25 years for Popp to gather converts from among the scientific community. Slowly, a few select scientists around the globe began to consider that the body's communication system might be a complex network of resonance and frequency. Eventually they would form the International Institute of Biophysics, composed of 15 groups of scientists from centres around the world.

Popp and his new colleagues went on to study the light emissions from several organisms of the same species, first in an experiment with a type of water flea of the genus *Daphnia*. What they found was nothing short of astonishing. Tests with a photomultiplier showed that the water fleas were sucking up the light emitted from each other. Popp tried the same experiment on small fish and got the same result. According to his photomultiplier, sunflowers were like biological vacuum cleaners, moving in the direction of the most solar photons to Hoover them up. Even bacteria swallowed photons from the media they were put in.

**The healthiest food had the lowest and most coherent intensity of light. Any disturbance in the system increased the production of photons.**

## Communication in Organisms

Thus, it dawned on Popp that these emissions had a purpose outside the body. Wave resonance wasn't only being used to communicate inside the body but between living things as well. Two healthy beings engaged in "photon sucking", as he called it, by exchanging photons.

Popp realised that this exchange might unlock the secret of some of the animal kingdom's most persistent conundrums: how schools of fish or flocks of birds created perfect and instantaneous coordination.

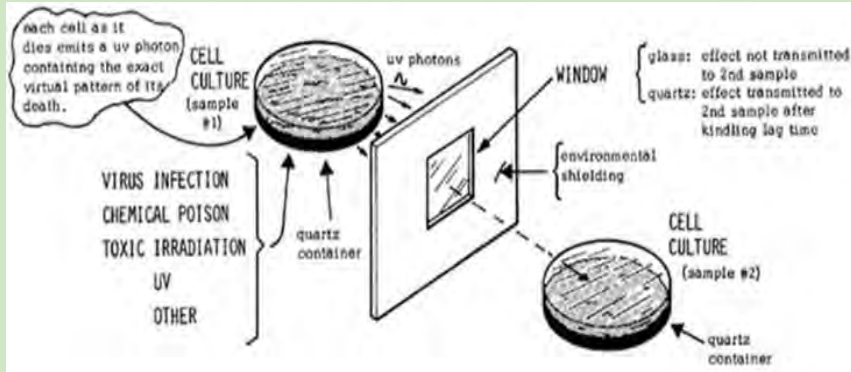
Many experiments on the homing ability of animals demonstrate that it has nothing to do with following habitual trails, scents or even the EM fields of the Earth but, rather, some form of silent communication that acts like an invisible rubber band, even when the animals are separated by miles of distance.

For humans, there was another possibility. If we could take in the photons of other living things, we might also be able to use the information from them to correct our own light if it went awry.

Popp had begun experimenting with such an idea. If cancer-causing chemicals could alter the body's biophoton emissions, then it might be that other substances could reintroduce better communication. Popp wondered whether certain plant extracts could change the character of the biophoton emissions from cancer cells to make them communicate again with the rest of the body.

He began experimenting with a number of non-toxic substances purported to be successful in treating cancer. In all but one instance, these substances only increased the photons from tumour cells, making them even more deadly to the body.

The single success story was mistletoe, which appeared to help the body to "resocialise" the photon emissions of tumour cells back to normal.



### Death Transmission via the Paranormal "Light" Channel

Some extremely interesting experiments were performed by V. P. Kaznacheyev et al. regarding the paranormal transmission of death by light inter-organism communication.

Briefly, two groups of cells were selected from the same cell culture and one sample placed on each side of a window joining two environmentally shielded rooms. The cell cultures were in quartz containers. One cell culture was used as the initiation sample and was subjected to a deadly mechanism—virus, germ, chemical poison, irradiation, ultraviolet radiation, etc. The second cell culture was observed so as to ascertain any transmitted effects from the culture sample being killed.

When the window was made of ordinary glass, the second sample remained alive and healthy. When the window was made of quartz, the second sample sickened and died with the same symptoms as the primary sample.

The experiments were done in darkness, and over 5,000 were reported by Kaznacheyev and his colleagues. The onset of induced complementary sickness and death in the second culture followed a reasonable time—say, two to four hours—behind sickness and death in the primary culture.

The major transmission difference between window glass and quartz is that quartz transmits both ultraviolet and infrared well, while glass is relatively opaque to ultraviolet and infrared. Both quartz and glass transmit visible light. Thus glass is a suppressor of the paranormal channel, while quartz is not.

In 1950, western researchers found that cells could be killed in darkness with ultraviolet radiation, kept shielded from visible light for 24 hours or longer, and then if radiated with visible light the cells would start reviving by hundreds of thousands even though they had been clinically dead.

Specifically, every cell emits mitogenetic radiation in the ultraviolet range twice: when it is born and when it dies. The UV photon emitted at death contains the exact virtual state pattern of the condition of the cell at death. The healthy cells are bombarded with death messages from those that are dying, and this diffuses the death pattern throughout the healthy culture, eventually kindling into the same death pattern there.

#### Reference

V. P. Kaznacheyev et al., "Distant Intercellular Interactions in a System of Two Tissue Cultures", *Psychoenergetic Systems*, vol. 1, no. 3, March 1976, pp. 141-142

In one of numerous cases, Popp came across a woman in her thirties who had breast and vaginal cancer. Popp found a mistletoe remedy that created coherence in her cancer tissue samples. With the agreement of her doctor, the woman stopped any treatment other than the mistletoe extract and, after a year, all her laboratory tests were virtually back to normal.

To Popp, homoeopathy was another example of photon sucking. He had begun to think of it as a "resonance absorber". Homoeopathy rests upon the notion that like is treated with like. A plant extract that at full strength can cause hives in the body is used in an extremely diluted form to get rid of the hives. If a rogue frequency in the body can produce certain symptoms, it follows that a high dilution of a substance which can produce the same symptoms would also carry that frequency. Like a resonating tuning fork, a suitable homoeopathic solution might attract and then absorb the abnormal oscillations, allowing the body to return to normal health.

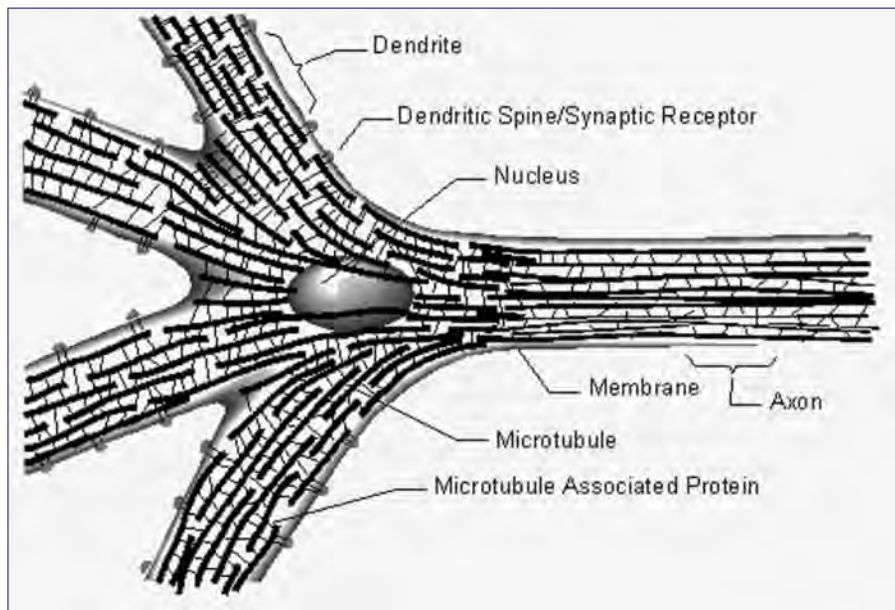
Popp thought that electromagnetic molecular signalling might even explain acupuncture. According to Traditional Chinese Medicine, the human body has a system of meridians, running deep in the tissues, through which flows an invisible energy which the Chinese call *ch'i*, or the life force. The *ch'i* supposedly enters the body through these acupuncture points and flows to deeper organ structures (which do not correspond to those in western biology), providing energy (or the life force). Illness occurs when this energy is blocked at any point along the pathways. According to Popp, the meridian system transmitted specific energy waves to specific zones of the body.

Research has shown that many of the acupuncture points have a dramatically reduced electrical resistance compared with the surrounding skin (10 kilo-ohms and three mega-ohms respectively).

Orthopaedic surgeon Dr Robert Becker, who has done a great deal of research on EM fields in the body, designed a special electrode recording device that rolls along the body like a pizza cutter. His many studies have shown electrical charges corresponding to the Chinese meridian points on every one of the people tested.<sup>2</sup>

## Light in Human Consciousness

I mention this latest work for those who may wish to explore the boundaries of photon research and theory.



Schematic of the central region of the neuron (distal axon and dendrites not included), showing parallel-arrayed microtubules interconnected by microtubule-associated proteins (MAPs). Microtubules in axons are lengthy and continuous, whereas in dendrites they are interrupted and of mixed polarity. Linking proteins connect microtubules to membrane proteins including receptors on dendritic spines.

In a ground-breaking paper with the lengthy title of "Orchestrated Objective Reduction of Quantum Coherence in Brain Microtubules: The 'Orch OR' Model for Consciousness" by Stuart Hameroff and Roger Penrose, the brain is described as a quantum computer whose main architecture consists of the cytoskeletal microtubules and other structures within each of the brain's neurons.

If you examine a neuron, you will see that there are many hollow tubes surrounding the axon. These microtubules have been thought of as a kind of scaffold to support the nerve fibre, but they are now getting a second look as the possible architecture of our consciousness.

The particular characteristics of microtubules that make them suitable for quantum effects include their crystal-like lattice structure, hollow inner core, organisation of cell function and capacity for information processing. According to the researchers, their size appears perfectly designed to transmit photons in the UV range.

To quote Hameroff and Penrose:

"Traditionally viewed as the cell's 'bone-like' scaffolding, microtubules and other cytoskeletal structures also appear to fill communicative and information processing roles. Theoretical models suggest how conformational states of tubulins within microtubule lattices can interact with neighboring tubulins to represent, propagate and process

**Continued on page 82**

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## THE TOP FIVE EXOTIC FREE-ENERGY TECHNOLOGIES

by Sterling D. Allan © 2012

Pure Energy Systems News (PESN)

<http://Top5Energy.com>

For a decade now, I have been searching the planet for exotic free-energy technologies that can bring us clean, renewable, practical, dependable and affordable energy in a distributed manner—freeing us from our dependence on fossil fuels, the grid and all the control and pollution that comes with it.

PESWiki covers the entire spectrum of clean-energy technologies, from conventional methods such as solar, wind, geothermal, tide, wave and river on the one hand, to very unconventional or "exotic" technologies such as magnet motors, over-unity electromagnetic motors, gravity motors, cold fusion and vortex technologies on the other.

Here are five of the best exotic technologies I've found so far, which are closest to the market.

### 1. Defkalion: Modular Heat Reactor

Defkalion's 5–45-kilowatt (kW) modular heat reactor is not yet a product that you can go out and purchase, but it is getting close to the market. It will provide competitively priced thermal energy, but with very low fuel costs for the nickel and hydrogen used in the reaction chambers that will last for six months of continuous output without refuelling.

The Hyperion unit is described as a 5-kW, heat-producing, chemically assisted, low-energy nuclear reactor (LENR). Up to nine modules can be combined to form a 45-kW unit.

According to Defkalion: "The

technology is currently in its final stages of becoming an industrialized and commercially viable prototype. This forms the basis for a broad range of products under the commercial name Hyperion. The current range of products produces surplus energy from 6 to 30 times more heat than energy consumed during its operation. Licensing of all Hyperion products is in progress."

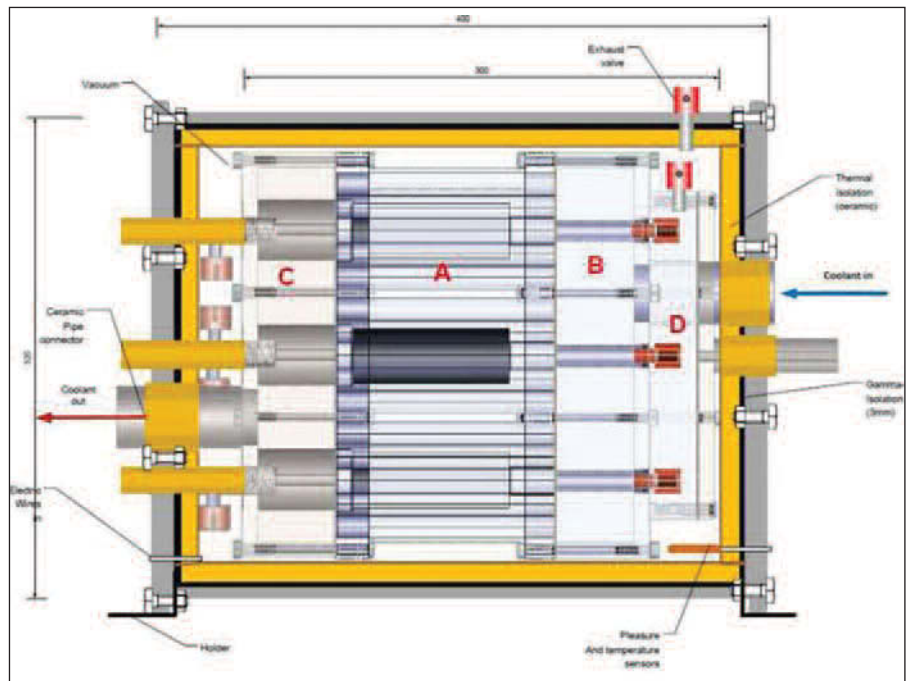
Defkalion's scientific R&D team claims to have managed successfully to trigger and monitor chemically assisted, low-energy nuclear reactions caused by nickel [Ni] and hydrogen [H] nuclei. It claims "a solid basis to control the triggering and termination conditions of the Ni–H reactions with Hyperion reactors, as well as the necessary conditions for stable performance".

For all intents and purposes, from what I can tell, it's basically [Andrea]

Rossi's E-Cat [Energy Catalyst], though Defkalion claims that it is different and was developed independently by Defkalion. Apparently the company is confident that the core reactor design is different enough from Rossi's to claim unique status.

Rossi terminated his relationship with Defkalion in early August [2011]. Defkalion was going to be the licensee to handle all licensing of the technology in the world, except for the Americas and the military. However, according to Rossi, Defkalion did not reach an important financial payment milestone; and according to Defkalion, Rossi had not performed adequate testing of the E-Cat.

- For more information, visit <http://www.defkalion-energy.com>. More from PESN is available at <http://tinyurl.com/7yv2are>.



Hyperion Kernel and Inbox design (multi-reactor model)

## 2. Brillouin: Capture Reactions

One of the most exciting fields in the exotic free-energy world right now is colloquially called "cold fusion", or low-energy nuclear reactions (LENR)—"low energy" referring to the relatively low energy required to initiate the nuclear event that produces copious amounts of energy, usually cleanly.

Brillouin's technology uses the hydrogen in ordinary water in a nuclear process that produces no hazardous waste. Its proprietary electron pulse generator promotes proton-electron capture reactions.

The pulses change some of the protons in metal to neutrons, and surrounding nuclei subsequently capture these produced neutrons. The subsequent neutron capture reactions generate heat; and because the pulses are controlled, the thermal output from Brillouin's proprietary technology safely provides clean heat on demand.

The process stimulates a controlled electron capture reaction (CECR) in a catalyst. This process creates low-energy neutrons. The neutrons generate heat as they are captured, building heavier elements.

Brillouin Energy Corporation has had two significant independent

validations of its scientific model and claims. One of those was by Los Alamos National Laboratory; the other was by Dr Michael McKubre, of SRI International, who subsequently joined its board of advisers. McKubre was especially impressed by the consistency of the results. This was the first time (in the LENR experimental arena) that he was able to repeat something every time, without exception.

One of the next development steps is going to involve a relationship with SRI to build and test the Brillouin New Hydrogen Boiler™ (NHB™) or "Hot Tube", entailing BEC's new dry boiler system, which will be able to produce heat from 400°C to 500°C.

This technology will be capable of running power-plant turbines. Licensing this boiler technology is going to be the lowest-hanging fruit because of the number of power-plant systems that have been mothballed by stringent EPA regulations.

BEC expects to be able to generate power at *one cent per kilowatt-hour*, with no toxic emissions of any kind.

• More from PESN is available at <http://tinyurl.com/6wr4mte>. Also see <http://www.brillouinenergy.com>.

## 3. Inteligentry: Plasmic Transition

After several attempts to mesh Abusy schedules, I finally was able to hook up with John Rohner, CEO of Inteligentry, to interview him about the latest developments in his Plasmic Transition Process™—noble-gas engine technology.

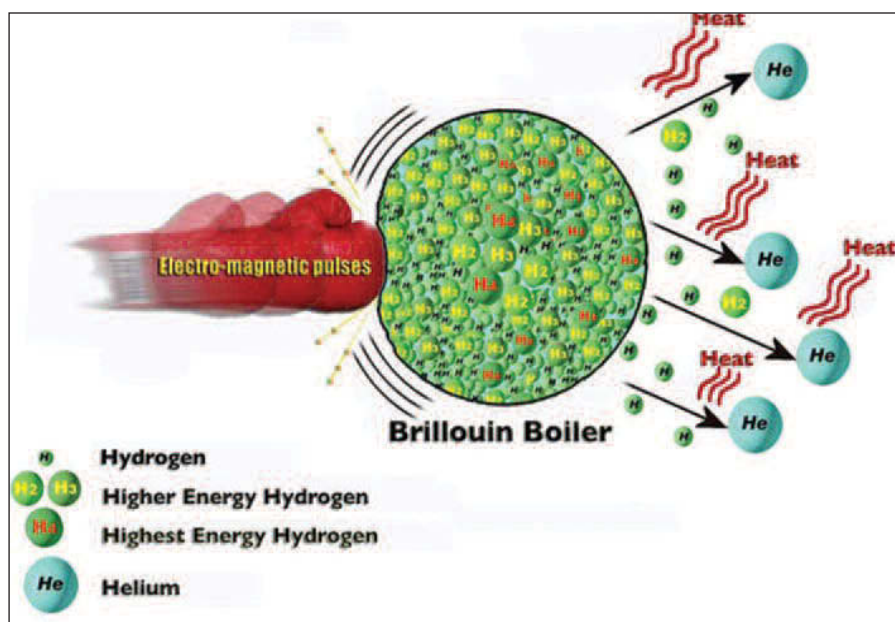
My overall impression after talking to him is that his company is further along than I'd thought. He's aiming to have the public announcement of the first batch of mass-produced products (thousands) ready for purchase by September or sooner.

For those of you not familiar with this technology, it is an engine that runs on what John calls a "plasmic transition" process using noble gases to create the plasma, with a coil around the cylinder to control the plasma and a high-voltage spark (actuator) to initiate the process.

The fuel is essentially free, both because so little is consumed over time and because the fuel is inexpensive. Also, because it has fewer moving parts and its power density is greater, the engine itself is much less expensive to build than the engine it would be replacing.

We're talking *engine-driven generator technology that would not only be clean but more affordable than energy that comes from the grid*, enabling off-grid, distributed, concentrated and portable power applications touching on nearly every energy need in today's society, while also enabling applications that hitherto were not feasible, such as buildings and communities that float in the air and flying vehicles. It also makes energy deployment entirely feasible to places where power is currently unavailable, such as in the Third World.

John is not sure what the initial units will cost; that will be determined largely by the manufacturers. However, the company's goal is to get the two-cylinder engine price down to US\$275 within three years. That is inconceivably cheap, considering the energy that it puts out.



# NEWSCIENCE NEWSCIENCE NEWSCIENCE

My usual disclaimer: as good as all of this sounds, if I were getting directly involved in this venture, putting in substantial capital, I would first require some kind of demonstration of the technology—under a non-disclosure agreement. Or at least I would want to see the reports made by others who had seen such a demonstration.

• For more details from PESN, go to <http://tinyurl.com/6o57bgl>. Also see <http://www.inteligeny.com/>.

#### 4. Endless Electric Field Generator: A Solid-State Breakthrough

Early last year I became aware of a group which has a battery-type technology, except this is not a battery as it never needs to be recharged. Having reviewed the best clean-energy technologies since 2002, I would place this at the very top of my list of most promising energy technologies—both the technology and the company behind it [which wishes to remain private].

A New Energy Congress associate of mine, Tai Robinson, and I have visited the company and have seen a prototype in operation. This small R&D company has been in existence for around 20 years, with several technologies already developed. The staff are very qualified scientists and technicians, and have some 22 patents and several published, peer-reviewed papers.

According to another associate, Mark Dansie, they have developed two types of generator which, "once manufactured, do not rely on any catalytic, chemical reaction or nuclear materials". The units "should continue to generate for at least 20 years, and testing of the material for the last three years has shown no change in structure or performance". He noted: "These are both material technologies, no electronics or moving parts, so they are solid state."

Mark also said: "The first device consists of three materials that are

layered onto each other. The first layer is already a known material that generates electricity when stimulated. The second material stimulates the first material or layer to produce the electricity. However, to stimulate the second material you need another or third material. The combination of the materials and their composition determine the voltage. The surface area and how well the materials contact each other determine the current. The materials can be multilayered to increase current output. Voltages typically vary between 1 and 40 volts DC, but have been measured up to 100 volts in extreme-cold conditions."

The second device "has some advantages over the first as it does not need to be layered," said Mark. "It is a different process where the materials are mixed and put through a simple process, with the end result being a material that puts out a permanent electrical field."

The description is oversimplified, "as there are some critical processes that have to be undertaken to make this work". Mark added: "Once the material is assembled and initiated, it will continue to produce electricity for at least 20 years, possibly up to 100 years."

"At present, power outputs are low; however, voltages are high. The current can be increased by

increasing the surface area," said Mark. The generators "also do not need any temperature differential, and do not use EMF as they operate normally in a Faraday cage".

According to Mark, "other companies have tested and verified the results for up to two years, and many other engineers and scientists who have reviewed the data and witnessed demonstrations have confirmed the results".

Mark also noted: "They have mainly focused on understanding the science and experimenting with different processes and materials. The next step is to engineer the process and materials into a form that is ready for manufacturing. They have no intent to become a manufacturer and are happy to license the technology for manufacturing and applications."

• More details from PESN can be found at <http://tinyurl.com/cdzqv8q>.

#### 5. NanoSpire: Cavitation ZPE

On 25 April, I interviewed inventor Mark LeClair, along with two of his associates, at NanoSpire,™ Inc., to talk about Advanced Cavitation Reentrant Jet Technology for Alternative Energy and Nanotechnology.

Based in Maine, USA, they published a press release in February, titled "NanoSpire, Inc.

LESSON NINE: Exercise caution when using delete button.



# NEWSCIENCE NEWSCIENCE NEWSCIENCE

Successfully Harnesses Cavitation Zero Point Energy to Produce Dramatic Levels of Fusion & Transmutation in Water". Here's an excerpt from the opening of this press release:

"Nanospire, Inc. is announcing successful completion of its investigation of fusion produced by the phenomena of cavitation in water, providing profound implications for the utilities and energy industries. Under the right conditions, cavitation, a form of boiling, can produce high speed jets as the cavitation bubbles collapse. NanoSpire has pioneered the controlled formation and aiming of these (known as re-entrant) jets, resulting in four recently issued patents."

Here is the opening paragraph of the company's executive summary:

"NanoSpire, Inc. was founded in January 2002 to commercialize a new generation of cavitation reentrant jet-based tools and processes. NanoSpire provides the first machine tool capable of cutting, drilling, welding, hammering, and annealing materials only a few nanometers in size by harnessing and controlling the energy of

cavitation microjets. NanoSpire's team has been invited to present at numerous nanotechnology conferences. NanoSpire won the prestigious Innovation Technology Award at the Nanotech 2003 + Future Conference in Tokyo."

"We have fundamental control over cavitation," said Serge Lebid, a co-discoverer of the phenomenon and company co-founder, in our interview. For example, they can control cutting in zinc oxide to within two nanometres.

I'm still trying to wrap my head around this one. One of the mechanisms that stood out to me is as follows. This is an oversimplification, I'm sure, but at least it will give you an idea of the general phenomena allegedly involved.

A simple pump is used to generate the cavitation bubbles. In the process of imploding, a solid crystal of water is formed that is involved in the burrowing effect. Zero-point energy [ZPE] shows up in that process to drive it, pulling it along by its own shock wave—which has been named the LeClair effect—and that in turn sets up the nuclear event (both fusion and fission are

possible) where most of the heat energy is then manifest.

In early experiments, they produced 3,000 watts of thermal output, using just 800 watts to run the pump (the only input energy required on their part). This COP [coefficient of performance] of 3.4 is comparable to a heat pump, but would be cheaper to build and operate.

## A Zillion Other Applications

For NanoSpire, producing energy is a "side effect" of some very exciting phenomena that take place. For example, Mark LeClair claims that with this technology you can transmute water into specific elements or families of elements on the periodic chart—which could come in very handy for producing things like phosphorus, which is very difficult to mine as it explodes when exposed to air.

They could also produce tritium, transuranic elements and precious metals.

Applying the technology to microsurgery could cure macular degeneration. Microcatheters, made possible by this technology, could enable repair of heart valves. "A nanobot, armed with a canister of positrons, could create an artificial immune system," LeClair said.

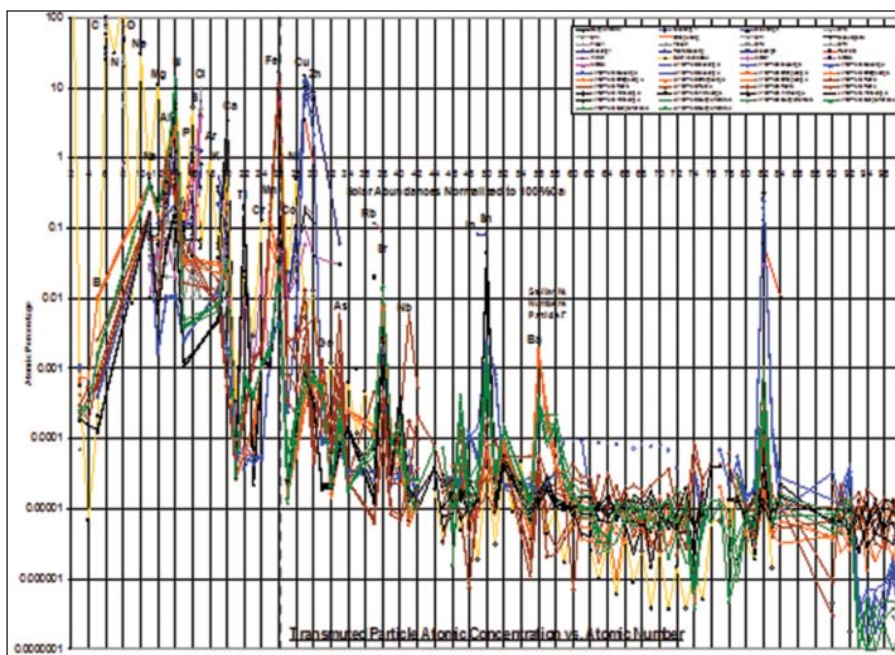
It could be used in food processing, painting, laying coatings down on materials or removing materials. "You can add materials top down or bottom up."

Dissimilar materials can be welded together. You could hard-face cylinders with diamond, with better adhesion. Stereolithography is another area with vast applications.

For more details, and to listen to the interview with Mark LeClair, go to <http://tinyurl.com/bu2jppql>. ∞

## About the Author:

Sterling D. Allan is CEO of Pure Energy Systems Network, set up to find and facilitate the best exotic free-energy technologies. Go to [www.PESN.com](http://www.PESN.com).



Transmuted Particle Atomic Concentration vs. Atomic Number

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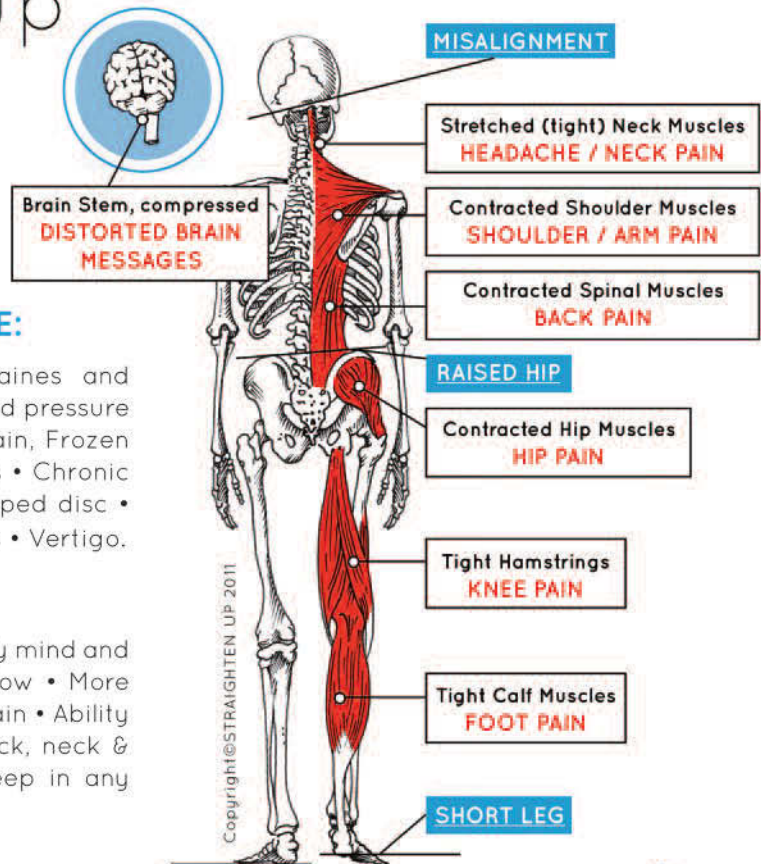
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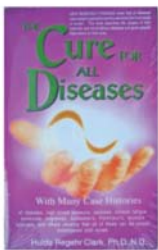
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# THE ANCIENT MEGALITHS OF CENTRAL SULAWESI

*Curious stone sculptures found in Central Sulawesi, Indonesia, could be as much as 5,000 years old and have similarities with megalithic monuments in other parts of the world such as Central America.*

Introduction by  
David Hatcher Childress  
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Recently I became acquainted with the Bada Valley in Central Sulawesi, Indonesia. I had seen some photos from the Tropenmuseum (Museum of the Tropics) in Amsterdam, the Netherlands, and realised that a megalithic mystery was to be had in a remote valley of this island in Southeast Asia.

According to its website, the Tropenmuseum is one of Europe's leading ethnographic museums, renowned for its collections. The permanent and temporary exhibitions display art objects, photographs, music and films from non-western cultures. The permanent exhibitions include collections from Southeast Asia, Oceania, West Asia and Africa.

Being part of the Royal Tropical Institute, the museum is more than just a museum. Experts assist museums around the world in capacity-building and other activities; for example, collecting and preserving local cultural heritage. Other activities of the museum include promoting innovative initiatives in the field of museums.

The photos of Bada Valley that I could find in the museum are quite amazing. I share them with the reader here.

Bada Valley, sometimes called Napu Valley, is located in the Lore Lindu National Park and contains hundreds of finely carved megaliths. They go back to at least 1400 AD and are probably much older. No one knows who the builders were. The locals are apparently as mystified about the megaliths as archaeologists are. The megaliths are magnificent and enigmatic, and they testify to a genius and high civilisation that we know nothing about. It seems that the World Explorers Club should make an expedition into this area!

One of the things that most impresses me is the similarity of some of the Bada Valley statues with Olmec statues in Mexico and Guatemala. This is an area of research that I intend to pursue.

I did some research online, including checking out a website devoted to information on the Bada Valley: the extensive Indonesian tourism site at <http://indahnesia.com> with the motto, "Discover Indonesia Online". Since I haven't been to the Bada Valley yet, I will let the tourism site tell you about the mysterious valley and its megaliths.

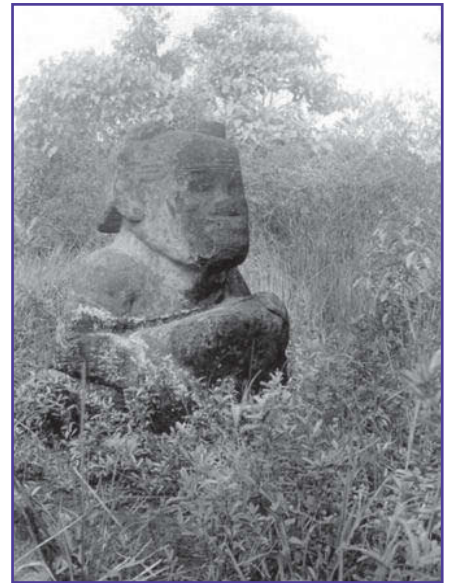
Here is the Bada Valley article, written by an anonymous author and posted at [http://indahnesia.com/indonesia/CENBAD/the\\_bada\\_valley.php](http://indahnesia.com/indonesia/CENBAD/the_bada_valley.php). [It is slightly edited for publication here; Ed.]

## Old Art and Modern Humans

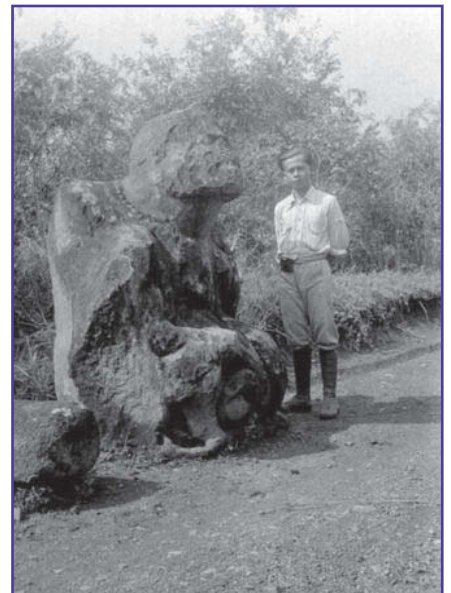
An impressive phallic symbol, carved out to express a human shape, rises from the ground. The face—several bend lines, round eyes and a slightly opened mouth—watches to the west with a timeless expression, unmoved and incomprehensible like the Sphinx. This megalithic art, massive and simple, kept its tremendous silent power even after someone had tried to brush away the natural erosion.



Three people standing beside the Palindo statue in the Bada Valley in the 1930s. (Photo: Tropenmuseum of the Royal Tropical Institute (KIT), Amsterdam)



Megalithic statue near Lahat (Photo: Tropenmuseum)



Megalithic statue, South Sumatra. (Photo: Tropenmuseum)

Together with three other megaliths and many big stone drums, Palindo—as the stone statue is named—is located in the Bada Valley, which stretches up to 15 kilometres south of Lore Lindu National Park. The Sungai Lariang runs through the entire valley and is crossed by three hanging bridges. This river, together with its smaller feeding rivers, is used to irrigate the terraced rice fields. Gintu, the capital of the sub-district Bada, has only a few thousand inhabitants. This village, with its several government buildings, shops and a handful of televisions, controls the area. There are about 10,000 people in 14 villages.

The megaliths in Bada draw a handful of tourists and archaeologists. The fierce terrain forms an impressive background for the stone pieces of art. Eroded rows of

hills and low mountains at a distance of two kilometres complete the raw gracefulness of the statues.

For some, the natural background wasn't enough. In 1984, the government asked the people in the Bada Valley to build a giant wooden house beside Palindo, as well as a vaguely traditional building behind that. They don't serve a clear purpose. The final blow to the statue is a system of paths around the statue, complete with flat, square stones. There is also a rice shed with a damaged platform under a raised storage area. The purpose of the shed is not known, but you can sit down in the shadow and watch the statue from behind.

The Besoa Valley, a long day's walk north of the Bada Valley, houses (including leeches) a number of human-like statues as well as the big stone drums or *kalamba*.



Oba, a small monkey-like sculpture, sits in a paddy field.  
(Photo: <http://indonesia.atvisit.com>)



A more detailed view of Palindo.  
(Photo: <http://indonesia.atvisit.com>)



A megalithic stone monument found in Loga in the Bada Valley.



Bidu megalithic statues found in Central Sulawesi.  
(Photo: <http://www.skyscrapercity.com>)



Large stone drums called *kalamba*, some with lids featuring animal motifs, can be seen in the Bada and Besoa valleys in Sulawesi. Were they used as baths, storage containers or even burial chambers?

In Besoa they are covered with inscriptions, which are missing from the drums in Bada. One of these stone drums has a lid with five carved animals around the edge, looking similar to the bronze Dong Son drums which found their way from Vietnam to Indonesia in prehistoric times.

### Riddles in Stone

In 1902, the first Europeans, Paul and Fritz Sasarin, entered the Bada Valley without seeing the megaliths.

The Dutch missionary Dr Albert C. Kruyt reported that when there was too little rain, offerings of pinang nuts were brought to the statue that is known as Tarai Roi in the hope of bringing a wealthy harvest. Other sources also report this kind of sacrifice.

Nothing is known for sure about the origin of the stones. By the time Dr Kruyt reached Bada in 1908, the megalithic culture had gone. The inhabitants could not tell much more than that the statues were already there when their ancestors entered the valley.

A final survey hasn't been done yet, but estimates of the monuments' age vary from 3000 BC to 1300 AD. It's probable that the sculptures of Bada, as well as those of the Besoa Valley, are the remains of a megalithic tradition which was once spread over the entire Indonesian archipelago (but continues on the island of Sumba). Together with the stone statues and big drums, Central Sulawesi has a diversity of stone objects which probably originate from the same culture. The Swiss archaeologist Walter Kaudern, who lived in the area from

1917 to 1920, has the best story about the megaliths up till now.

However, the statues in the Bada Valley are completely different in size—somewhere between one and four metres—but they are almost similar in style, being somewhat oval with large round faces. The eyes, somewhat oval as well, are surrounded with a long bend line which marks the eyebrows, nose and chin. The face is in high relief, but the arms, hands and genitals (an erect penis or an open vagina) are hardly in relief.

It has been suggested that the Palindo sculpture is related to death. For the Toraja (about a four-to-five-day walk to the south), the west is the direction of death. Linguistic and

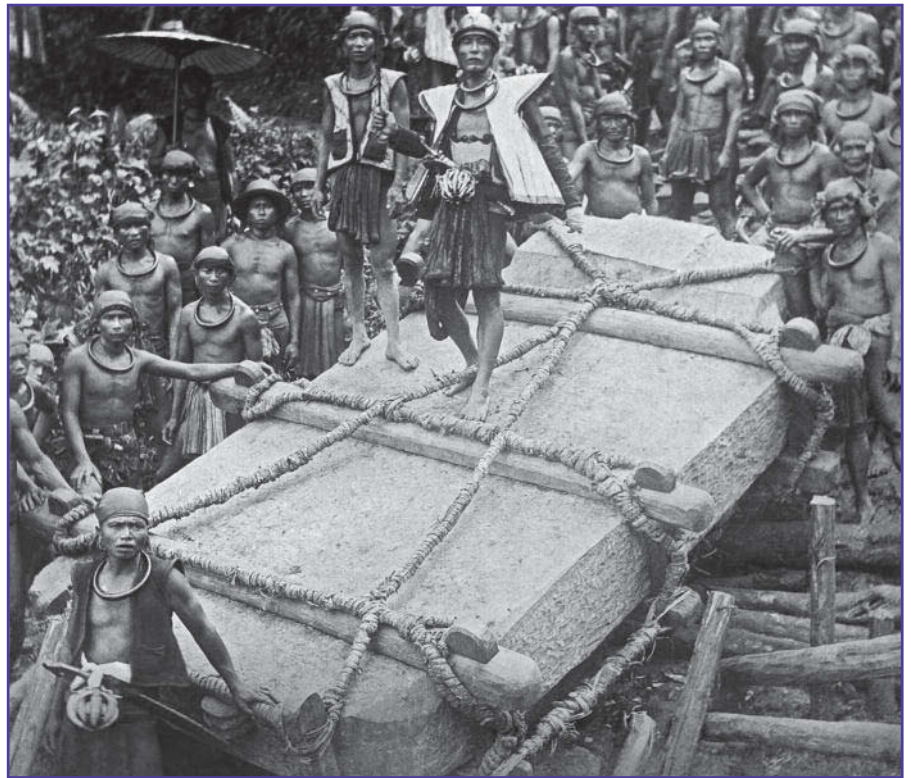


other cultural similarities between the Toraja and the populations of the Bada give this theory at least some credibility. The Bada insisted on burying their dead with the head towards the west, even after their conversion to Christianity, and the Toraja erected megaliths as part of their burial ceremonies until not too long ago. The Bada as well as the Toraja sacrifice water buffaloes for the spirits of their deceased.

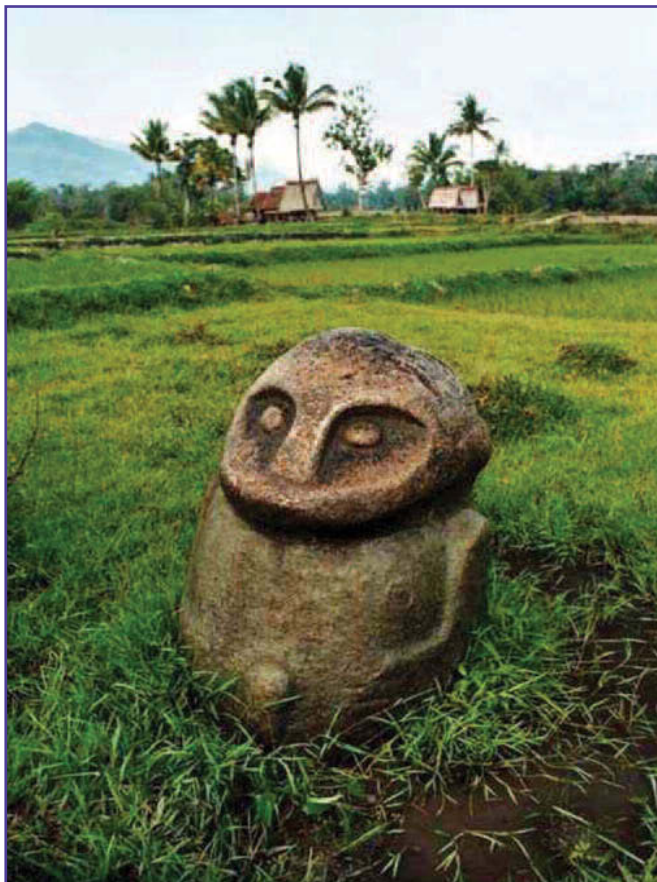
### Muddy Trips to the Megaliths

Walking in the Bada Valley is wet and muddy, except during the period from June to August. A Jeep track connects several villages; wide footpaths connect the rest of them. Most small rivers have logs over them as bridges, but crossing Sungai Malei with water up to your waist will need some skills.

Some megaliths can be reached from the paths, but others require walking through rice fields and sometimes through knee-deep mud.



People on Nias Island, off Sumatra, Indonesia, move a megalith to a construction site circa 1915. (Photo: Tropenmuseum)



Megalithic statue near Lake Lindu, Central Sulawesi. (Photo: [www.touristspot.ruvenga.com](http://www.touristspot.ruvenga.com))

Walking through the rice fields looking for megaliths also provides a good lesson in irrigation techniques. You will see water buffaloes which "ventilate" the soil of the rice fields. After ploughing, the rice—which is grown for 40 days—is replanted. After that, a system of three wet days and three irrigated days ensues, followed by harvest at the end. The four species of rice that are grown here have different growing times. ∞

### About the Introduction's Author:

David Hatcher Childress has a career spanning more than three decades as an independent researcher, explorer, author and filmmaker. He has written/published numerous books and presented/produced many documentaries on ancient civilisations and advanced technologies under the banner of his company, Adventures Unlimited Press. He is a co-star on the TV channel History's *Ancient Aliens* series, and is in demand as a conference speaker and as a guest on popular TV and radio programs. His previous contribution to NEXUS is "The Mystery of the Olmec Civilisation" (15/01). His latest book *The Enigma of Cranial Deformation* (co-written with Brien Foerster) is reviewed in this issue (19/04).

David is the founder of the World Explorers Club, based in Kempton, Illinois, USA, and publishes its *World Explorer* magazine. From 29 June to 10 July 2012, he is leading an expedition to the Bada Valley megaliths.

For more information, visit the websites <http://wexclub.com>, <http://adventuresunlimitedpress.com> and <http://DavidHatcherChildress.com>.

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## Libby O'Neill

Libby O'Neill (**Brisbane**) is the Representative of The Academy For Future Science in Australia. She has been coordinating the teaching of The Keys of Enoch\* for over 10 years. Libby will be sharing with us the Message of the Keys of Enoch in 2012 and the Awakening of our Divine Overself as we activate our Christ Mind.



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## Craig Neale

Craig Neale (**Adelaide**). UFO video taken on 28th August 2010 5.30p.m. Direction of the sighting was East at about 40-45 degrees. Distance was approximately 10-12kms away. Location was Sheidow Park Adelaide SA.



## Fred Rusher

Fred Rusher (**USA**) BA Philosophy has been combining sacred geometry and wood craftsmanship for over 50 years. Fred specializes in rendering in physical 3D Platonic & hypergeometric Solids demonstrating their unfoldment and relationship to the evolving cosmos. A dynamic exploration of how geometry is the connecting language of creation that allows us to communicate beyond cultural boundaries with this world and beyond.



## Sheryl Gottschall

Sheryl Gottschall (**UFO QLD**) Close Encounters - A Pathway To Shamanic initiation The experiences with these Spirits are highly detailed and predictable, so much so that a shamanic template has been recorded through anthropological studies "classic shamanic initiation" is cross-cultural and extends through time, even to modern day. However, western cultures have either forgotten, or choose to ignore, their ancient heritage, that is, until the reports of close encounters with extraterrestrials.



## Megan Heazlewood

Megan Heazlewood (**NSW**) registered nurse has been researching the crop circle phenomenon for 11 years. Megan visited Wiltshire for the crop circle seasons of 2006 and 2007 to experience the crop circles first hand. What she experienced directly, and what she witnessed and filmed has deeply impacted her life.



## Darren Curtis & Bradley Pitt

Darren Curtis and Bradley Pitt (**Adelaide**) Sacred Resonance. The Return Quetzalcoatl Astrophysical Pyramids of Light explore the ancient mysteries of the music, sacred sound frequencies and star alignments of the pyramids of

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## IRISH PENSIONER BURST INTO FLAMES

An Irish coroner has ruled that an elderly man who died in a house fire in December 2011 spontaneously combusted.

The remarkable verdict was returned after an inquest heard that investigators were baffled over the death of Michael Faherty in Ballybane, Galway, on 22 December last year.

Coroner Dr Ciaran McLoughlin decided that the 76-year-old had died of a phenomenon called "spontaneous human combustion".

Dr McLoughlin said that he had never encountered such a case in the 25 years he's been investigating deaths in the region.

He added: "This fire was thoroughly investigated. I'm left with the conclusion this fits into the category of spontaneous human combustion—for which there is no adequate explanation."

Forensics experts said that a fire in the fireplace of the room where Mr Faherty's badly burnt body had been found was *not* the cause of the blaze that killed the Connemara man.

Galway Coroner's Court was told that no trace of an accelerant had been found at the scene. There was no sign that anyone else had entered or left, and there was nothing to suggest foul play.

Garda Gerard O'Callaghan said he had gone to the house after the fire had been extinguished and found Mr Faherty lying on his back in a small sitting room, with his head closest to an open fireplace.

He said that the fire had been confined to the sitting room and that the rest of the house sustained only smoke damage. The only damage was to the remains of Mr Faherty, which had been totally burnt, the ceiling above him and the floor underneath.

Assistant Chief Fire Officer Gerry O'Malley gave evidence that two experienced officers were of the opinion that the blaze had not spread from the hearth. He told Dr McLoughlin that they could not determine the cause of the killer fire.

Pathologist Grace Callagy said that the body had been completely cremated, and that it had not been possible to determine the cause of

death because of the extent of damage to the organs.

Dr McLoughlin said he was satisfied that nobody had entered the house, and he was also satisfied that, while there was a fire burning in the hearth, this was not the cause of the inferno that had burnt Mr Faherty.

Dr McLoughlin said he'd consulted medical textbooks and done other research in a bid to find an explanation.

Mr Faherty's daughter Mairin said that her family was satisfied with the investigation and accepted the inquest's findings. However, she added: "Unfortunately, it doesn't provide us with any real explanation."

Spontaneous human combustion is a phenomenon where a living person suddenly bursts into flames for no apparent reason. While there have been about 200,000 claimed cases worldwide over a period of around 300 years, most remain unproven for lack of thorough investigation.

(Source: The Sun, UK, 23 September 2011, <http://tinyurl.com/3zy3bqt>)

### OLDEST OBSIDIAN BRACELET REVEALS HIGHLY SKILLED CRAFTSMANSHIP

Researchers from the Institut Français d'Etudes Anatoliennes in Istanbul and the Laboratoire de Tribologie et de Dynamiques des Systèmes (LTDS) have analysed the oldest obsidian bracelet ever identified, discovered in the 1990s at the site of Asıklı Höyük in Turkey.

Using high-tech methods developed by LTDS to study the bracelet's surface and its microtopographic features, the researchers have revealed the astounding technical expertise of craftsmen in the eighth millennium BC. Their skills were highly sophisticated for this period in late prehistory, and on a par with today's polishing techniques.

This work is published in the December 2011 issue of *Journal of Archaeological Science* and sheds new light on Neolithic societies, which remain highly mysterious.

Dated to 7500 BC, the obsidian bracelet is unique. It is the earliest evidence of obsidian working, which only reached its peak in the seventh and sixth millennia BC with the production of all kinds of ornamental objects, including mirrors and vessels. It has a complex shape with a remarkable central annular ridge, and is 10 cm in diameter and 3.3 cm wide.

Discovered in 1995 at the exceptional site of Asıklı Höyük and displayed ever since at the Aksaray Archaeological Museum, the ring was studied in 2009 after Mihriban Özbasaran, a professor at the University of Istanbul's Department of Prehistory, resumed excavations.

Laurence Astruc, a CNRS researcher, and colleagues analysed the bracelet using extremely powerful computer technologies developed by LTDS researchers Hassan Zahouani (ENISE) and Roberto Vargiolu (ECL). Developed

for industry in order to characterise the "orange peel effect" on painted car bodywork, these methods, known as multiscale tribological analysis, have been adapted for the study of microtopographic features on archaeological artefacts. They seek to identify every single operation performed on the surface of these objects.

This process has revealed that the bracelet was made using highly



Digital reconstruction of the bracelet proposed by Mohamed Ben Tkaya (LTDS). Credit: Obsidian Use Project Archives

specialised manufacturing techniques. The analyses carried out show that the bracelet is almost perfectly regular. The symmetry of the central annular ridge is extremely precise, to the nearest degree and nearest hundred micrometres. This suggests that the artisans of the time used models to control its shape when it was being made.

The surface finish of the bracelet (which is very regular, resembling a mirror) required the use of complex polishing techniques capable of obtaining a nanometre-scale surface quality worthy of today's telescope lenses.

(Source: CNRS press release, 6 December 2011, <http://tinyurl.com/cvq77ns>)

### MERMAIDS BLAMED FOR DAM DELAYS IN ZIMBABWE

Essential work on planned reservoirs in Zimbabwe has stopped because mermaids have been hounding workers away, according to the country's Water Resources Minister.

Samuel Sipepa Nkomo told a Zimbabwean parliamentary committee that terrified workers are refusing to return to the sites, near the towns of Gokwe and Mutare.

"All the officers I have sent have vowed not to go back there," Minister Nkomo was reported as saying in Zimbabwe's state-approved *Herald* newspaper.

The senior politician said that mermaids were also present in other reservoirs.

"We even hired whites, thinking that our boys did not want to work, but they also returned, saying they would not return to work there again," he added.

The two long-overdue reservoirs are considered essential if Zimbabwe is to provide adequate water to its population and to boost its agricultural production. From 2000, President Robert Mugabe expropriated some 4,000 white-owned farms and gave them to politically connected blacks.

Agricultural production this year is forecast to be at its second lowest level since Zimbabwe achieved independence from Britain in 1980.

The belief in mermaids and other mythical creatures is widespread in the country, where many people combine a Christian faith with traditional beliefs.

Local Government, Rural and Urban Development Minister Ignatius Chombo said the government wants to give the population the water it needs, but cannot do so until the rituals are performed and necessary repairs can be carried out.

(Source: Daily Mail, UK, 6 February 2012, <http://tinyurl.com/8xc5aer>)

## COLLEGE DROPOUT TURNS GEOMETRY GENIUS AFTER MUGGING

Jason Padgett, 41, sees complex mathematical formulas everywhere he looks, and he turns them into stunning, intricate diagrams that he can draw by hand. He's the only person in the world known to have this incredible skill, which he obtained by sheer accident just a decade ago.

"I'm obsessed with numbers, geometry specifically," Padgett said. "I literally dream about it. There's not a moment that I can't see it, and it just doesn't turn off."

Padgett doesn't have a PhD, a college degree or even a background in mathematics. His talent was born out of a true medical mystery that scientists around the world are still trying to unravel.

One night, 10 years ago, when leaving a karaoke club in Tacoma, Washington, Padgett was brutally attacked by muggers who beat and kicked him in the head repeatedly.

At the time, doctors said he had concussion, but within a day or two Padgett began to notice something remarkable. This college dropout who couldn't draw became obsessed with drawing intricate fractal

diagrams, but didn't know what they were.

"I see bits and pieces of the Pythagorean theorem everywhere," he said. "Every single little curve, every single spiral, every tree is part of that equation."

To better understand how his brain works, Dr Berit Brogaard, a neuroscientist and philosophy professor at the Center for Neurodynamics at the University of Missouri-St Louis, and her team flew Padgett to Finland to run a series of tests.

A scan of Padgett's brain showed damage that was forcing his brain to overcompensate in certain areas that most people don't have access to, Dr Brogaard explained. She described Padgett as an "acquired savant".

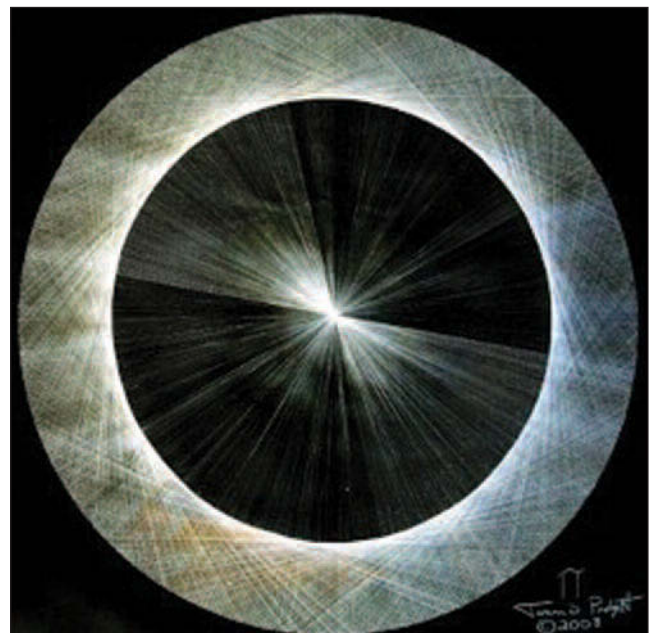
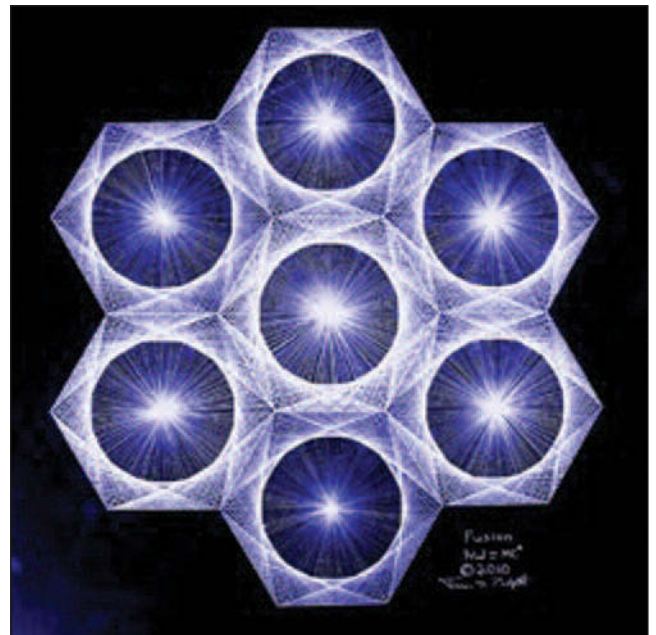
Padgett said that his goal now is to teach others that

mathematics is as beautiful and natural as the world around us.

When asked if he thought his talent was a burden or a gift, Padgett said it was a mixture of both.

"Sometimes I would really like to turn it off, and it won't," he said. "But the good far outweighs the bad. I would not give it up for anything."

(Source: ABCNews.go.com, Medical Unit, 27 April 2012, <http://tinyurl.com/866msww>) ∞



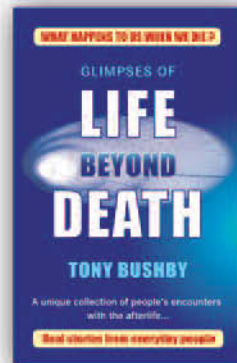
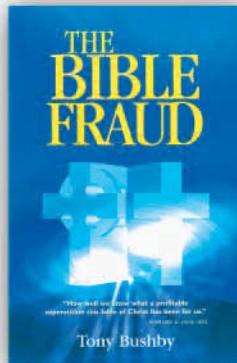
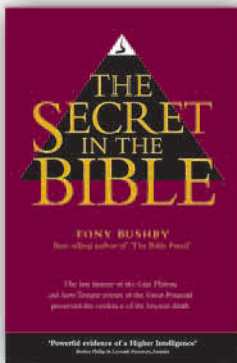
Examples of Jason Padgett's hand-drawn diagrams. The bottom right illustration represents the infinite number  $\pi$ .

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# REVIEWS

## BOOKS

Reviewed by Ruth Parnell

### A MOMENTARY LAPSE OF REASON

by Henryk Behr

Xlibris, Dartford, UK, 2011

ISBN 978-1-4628-8916-7 (388pp tpb)

Available: [www.XlibrisPublishing.co.uk](http://www.XlibrisPublishing.co.uk)

Remember the scandal in the late 1980s over the health supplement L-tryptophan, manufactured by the Japanese company Showa Denko using gene-splicing? Scores died and thousands were diagnosed with an incurable neurological condition called eosinophilia-myalgia syndrome (EMS). Yet genetically engineered L-tryptophan has been quietly put back onto the market.

In October 2010, University of Dundee academic Henryk Behr took two capsules of the US-sourced "natural" supplement to relieve insomnia; an hour later he was having panic attacks and intense pain, and his health has been deteriorating in a major way ever since, with shocking myofascial pain all through his body. Behr feels like he's being eaten alive from the inside out, and thinks that the cause is a genetically engineered toxin. Somehow, though, he has managed to write this very personal

book to raise awareness of this terrifying disease and the dangers of consuming untested GE components in foods and supplements.

### HIATAL HERNIA SYNDROME/ VAGUS NERVE IMBALANCE

by Steven Rochlitz, PhD

Human Ecology Balancing Sciences,

Cottonwood, AZ, USA, 2012 (2nd ed.)

ISBN 978-0-945262-61-9 (50pp pb)

Available: [www.wellatlast.com](http://www.wellatlast.com)

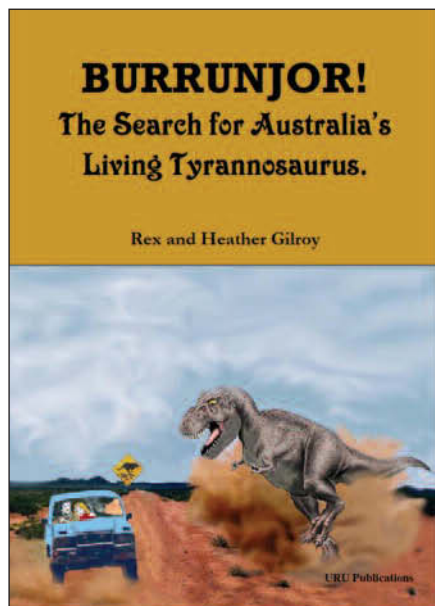
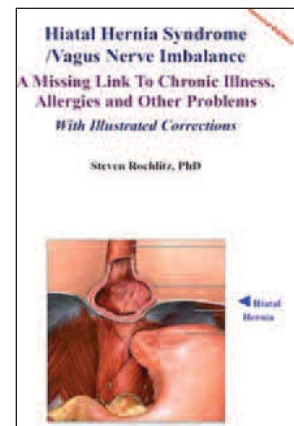
Hiatal hernia syndrome with vagus nerve imbalance (HHS/VNI) is the number-one health complaint in the human race, says former physics professor Dr Steven Rochlitz, who has spent over three decades researching and treating chronic, degenerative and environmental illnesses. Our regular readers will recall his article on HHS/VNI in 18/04 (also see 19/02, 18/06, 18/01-03, plus his article in this edition). Hiatal hernia occurs when part of the upper stomach makes its way up through the diaphragm, pinching the vagus nerve and causing an imbalance that can have serious effects on the heart and lungs. In fact, the vagus nerve may already be imbalanced due to heavy metal overload, porphyria or any condition affecting the nervous system.

This updated second edition of Dr Rochlitz's book has 15 easy-to-follow

illustrations of his self-help, applied kinesiological techniques to correct the vagus nerve, the diaphragm and hiatal hernia, and includes new, advanced procedures. There are powerful trigger-point corrections for the lungs and heart that can let the stomach drop without the need for the "pull down" technique.

Dr Rochlitz also advises on key dietary and lifestyle changes to make in conjunction with these corrections. Anyone who suffers from sleep apnoea, breathing or swallowing difficulties, MCFS, EMFS, food "allergies", reflux, asthma, anxiety or many other problems can benefit from these HHS/VNI corrections.

Dr Rochlitz contends that HHS can decrease longevity, so correcting this condition could add years to your life.



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Hot on the heels of our latest book release "BIG Cats of the Australian Wilderness", Heather and I are pleased to announce that our next book "Burrunjor - Australia's Living Tyrannosaurus" is now ready for release.

This sensational book concerns the infamous Tyrannosaurid giant reptilian monster of Australian Aboriginal folklore. The book is filled with often terrifying tales of encounters with these reptilian nightmares, both by Aboriginal people and Europeans.

A case for their sudden appearance and disappearance without trace being due to 'Time-Windows' is presented, along with recently made foot impressions of these reptiles, including plaster cast examples from the recent South Australian finds of the Gilroys and Greg Foster, as well as fresh tracks found in Kanangra Boyd wilderness and Wollemi National Park, location of the mysterious 'Dinosaur Swamplands' where claims of eerie encounters with these monsters from another age have occurred.

This book will be a 'must' for all Cryptozoologists interested in the 'living dinosaurs' theory.

'TEAM GILROY' are searching for an interested man or woman assistant interested in bushwalking and living in the Sydney/Blue Mountains area to assist Rex and Heather Gilroy in their exciting searches and discoveries of pyramids and megalithic ruins of Australia's Lost Civilisation of Uru? The team have discovered relics and rock inscriptions of maritime cultures and engaged in the search for the 'Yowie' and mystery animals. **Interested?? We** would like to hear from you at 02 47823441 or email us at [randhgilroy44@bigpond.com](mailto:randhgilroy44@bigpond.com).

# REVIEWS



## THE ENIGMA OF CRANIAL DEFORMATION

by David Hatcher Childress and Brien Foerster

Adventures Unlimited Press, USA, 2012  
ISBN 978-1-935487-76-0 (234pp tpb)  
Avail: [adventuresunlimitedpress.com](http://adventuresunlimitedpress.com)

Cranial deformation—binding the head of a child to grow in an elongated or deformed manner—is common to so many ancient cultures. Numerous examples of extended and misshapen skulls have been found in burial sites and featured in artefacts from places such as Easter Island, Mexico (the Olmecs and Maya), America's Pacific Northwest, coastal Peru (the Paracas), ancient Atonist Egypt, Malta, Kurdistan, China and Korea. The peoples of Vanuatu and the eastern Congo apparently still practise this ritual.

Ancient mysteries researcher David Hatcher Childress (see article this issue) and anthropologist Brien Foerster, of the History Museum of Paracas, have teamed up to examine this subject that's so bizarre, it's largely ignored by mainstream scientists—perhaps because they can't explain it. In any case, any idea of elongated heads having greater beauty or intelligence had to have arisen from somewhere, and it's indeed curious that the practice

arose around the world in cultures which supposedly had no contact with each other. One theory is that the practice emulated advanced beings with enlarged crania who were passing on important survival knowledge to local populations around the planet. However, a sub-theory suggests that these beings were extraterrestrial, perhaps the Anunnaki from Nibiru, described in Sumerian clay tablets and shown with elongated heads in artworks.

The authors have assembled copious photographs, including colour plates, in what is perhaps the first book of its kind to focus on this strange, worldwide phenomenon.

## THE LOST WORLDS OF ANCIENT AMERICA

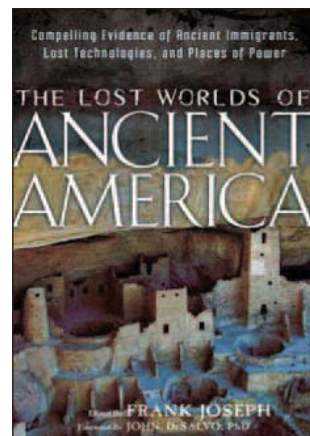
edited by Frank Joseph

New Page Book Books, NJ, USA, 2012  
ISBN 978-1-60163-204-3 (285pp tpb)  
Available: [www.newpagebooks.com](http://www.newpagebooks.com)

The evidence is overwhelming that the Americas were visited by seafaring cultures going back at least 4,000 years and continuing till not long before Columbus's voyage to the New World. This compilation is assembled from material published in *Ancient American* magazine. It's put together by Frank Joseph (see 19/03, 17/04), who edited the publication

from its inception in 1993 until 2007 and who contributes articles across all four parts of the book: Physical Proof, Sites, Ancient American Hi-Tech, and Foreigners in Prehistoric America. His colleague Wayne May, founder/publisher of the magazine, is among the many to highlight aspects of America's "forbidden past" that fly in the face of orthodox archaeology.

Artefacts include Roman coins, swords and statuettes, Phoenician and Hebrew inscriptions, and Viking objects. Moreover, the depiction of corn in some Egyptian artworks suggests a little-known New World link. Megaliths, canals, great walls, huge stone spheres and genetic markers speak of ancient, advanced cultures on the move. This book adds to history's paradigm shift.



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# REVIEWS

## FIREBALLS, SKYQUAKES AND HUMS

by **Antony Milne**

Robert Hale Ltd, London, UK, 2011  
ISBN 978-0-7090-9278-0 (288pp hc)  
Available: [www.halebooks.com](http://www.halebooks.com)

**A**nomalous lights and sounds abound on planet Earth. Some of them can be explained in terms of prevailing science, while others remain mysterious. In *Fireballs, Skyquakes and Hums*, science writer Antony Milne, a former NATO research fellow and a member of Spaceguard UK, brings the best scientific evidence to bear on such phenomena as fireballs, cometary impacts, earthquake lights, space debris, ground hums and even UFOs, and he lists and/or analyses key events in these and other categories. He's also open to strange light/sound emanations with the min min lights, phantom armies and ships, spectral sounds from the past, and people who keep getting struck by lightning.

Milne considers the confounding fireballs over Western Australia in the early 1990s in light of the Japanese Aum Shinrikyo sect and its involvement in Russian EM weapons testing (see NEXUS 4/03-5/01), the December 2009 Norway spiral and its possible source in EISCAT/HAARP technology (17/02), and ground- or

atmospherically sourced noises such as the Taos, New Mexico, hum that have been driving people crazy for years. It appears that Milne wrote his book before the onset of another worldwide wave of sonic phenomena suggestive of heavenly trumpeting that's been going viral on YouTube in recent months. The colour plate section features noctilucent clouds, lightning bolts, mirages, "sundogs", cloud UFOs and balls of light (BOLs), enough to convince even the sceptic that we live in a surprising world of beauty and mystery.

## HIDDEN STONEHENGE

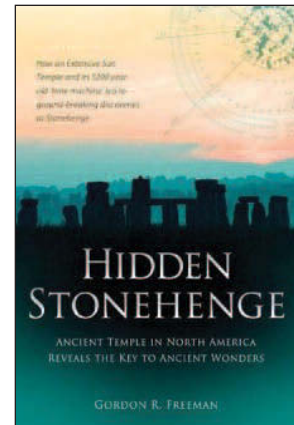
by **Gordon R. Freeman**

Watkins Publishing, London, 2012  
ISBN 978-1-78028-095-0 (355pp tpb)  
Avail: [www.watkinspublishing.co.uk](http://www.watkinspublishing.co.uk)

**W**ho'd have thought that a solar/lunar calendar older than Stonehenge would be discovered on the prairies of Alberta, Canada? University of Alberta physical chemist and emeritus professor Dr Gordon Freeman has spent much spare time in the last three decades surveying this so-called "medicine wheel", or Time Temple, believed to be 5,200 years old. It comprises a central rock cairn, an outer stone ring with 28 spokes of stones connecting it to the centre, and solar observational lines

of sight over a larger area. For *Hidden Stonehenge*, he has studied it from the air and ground (with beautiful colour photography) and determined the relationships of its features with solstices, equal day/night periods and leap-year cycles. Dr Freeman has applied his studies of the Omahk "megazone" to Stonehenge, noting that both monumental calendars are located at 51 degrees north latitude.

As well as revealing cross-Atlantic similarities, Dr Freeman touches on lesser-known megalithic sites, the concept of the arc-second of latitude, ancient cosmologies and more. First published in 2009 in North America as *Canada's Stonehenge*, this edition includes new material extending three chapters and adding admirably to this intriguing body of knowledge.



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# REVIEWS



## ATLANTIS BENEATH THE ICE

by **Rand and Rose Flem-Ath**

Bear & Company, VT, USA, 2012

ISBN 978-1-59143-137-4 (245pp tpb)

Avail: [BearandCompanyBooks.com](http://BearandCompanyBooks.com)

Librarians Rand and Rose Flem-Ath sparked controversy in 1995 with their book *When The Sky Fell*, in which they proposed that the lost continent of Atlantis was in fact Antarctica (see review in 3/01). They have now completely revised and expanded their book with additional coverage of Charles Hapgood's theory of Earth crust displacement, informed by their own correspondence with Hapgood up until his death in 1982. They include unearthed correspondence between Hapgood and US President Eisenhower on the search for a copy of an ancient world map used by Columbus that was supposedly drafted c. 3800 BCE, coinciding with the rise of the Egyptian civilisation.

The Flem-Aths have added to their argument with evidence for a rare genetic disease afflicting the Haida of British Columbia, the Yaghan of Tierra del Fuego and the Hyksos pharaohs of ancient Egypt, suggesting that they originated from a common ancestor that escaped from Atlantis during a violent catastrophe around 11,600 years ago which resulted in mass extinctions—

but only in certain places on the planet. Atlantis did not so much disappear beneath the waves as be covered with ice as a result of the catastrophe, and mysteriously this period coincided with the spread of agriculture in key temperate zones above 1,500 metres. The sea level had risen, and the survivors had to find safe places to begin anew.

The afterword, by Egyptologist John Anthony West, also supports the relevance of Hapgood's theory.

## THE HIDDEN GEOMETRY OF LIFE

by **Karen L. French**

Watkins Publishing, London, 2012

ISBN 978-1-78028-108-7 (240pp tpb)

Avail: [www.watkinspublishing.co.uk](http://www.watkinspublishing.co.uk);

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

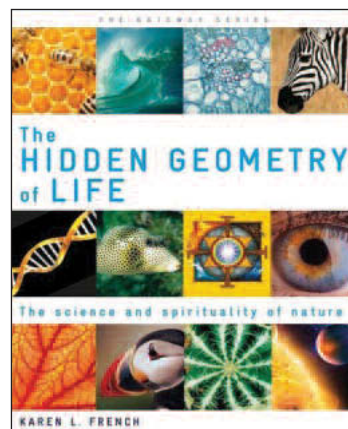
The harmony in our world and the cosmos is awe-inspiring, and is brilliantly portrayed here in images and words which reveal the connection between art, geometry, science, consciousness and spirituality. Karen French, who's had a lifelong interest in sacred geometry and has an honours degree in mathematics, gives insights into the meaning of our existence by showing the order, structure and significance underlying the natural world.

French first tackles how our reality is shaped by the language of

numbers and geometry—the circles, squares and triangles which produce a matrix of space-time-being, animated by spirals of life force. She considers planes of being and how we come into existence, informed as she is by classical metaphors about consciousness as well as discoveries of multiple space-time dimensions. She describes sound, music, light and colour as vehicles for geometry to operate as a template for creation.

Finally, Karen French explores concepts such as the holographic universe, revealing ancient spiritual expressions as portrayed in mandalas and yantras which show our link with the elemental world and affirm our place and value within the eternal cycle of Being.

An illuminating book indeed.



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Christianity was invented by Emperor Constantine, for political purposes, based upon the myth of Mithra, a Persian savior god born on December 25, son of a virgin. Mithra performed miracles and was later crucified.

Moses is based on the Sumerian life and legends of Sargon I, King of Akkad, "set in a basket of rushes and "cast into the river". Egyptians kept exhaustive hieroglyphic records. There is a complete absence of any record of Moses leading over 600,000 men, women and children away from Pharaoh's army.

Joseph Smith, founder of Mormonism, was convicted in a court of Law of being an "impostor", today a fraud, conman, in 1826. He wrote the *Book of Mormon* soon after.

Question: You decide: Does the text of the verses of the Qur'an correspond exactly to those revealed to Muhammad directly as the words of God, delivered to Muhammad through the angel Gabriel, as claimed?

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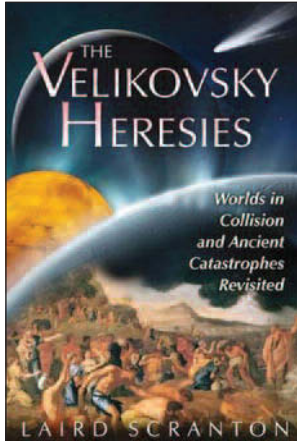


# REVIEWS

## THE VELIKOVSKY HERESIES

by Laird Scranton

Bear & Company, VT, USA, 2012  
ISBN 978-1-59143-139-8 (152pp tpb)  
Avail: BearandCompanyBooks.com



Soon after we go to press with this edition, Venus will complete her second pairing of a rare transit across the face of the Sun on 5–6 June, the first having occurred eight years ago. So, what better time than now to reconsider the controversy that's been brewing since 1950 with the publication of Immanuel Velikovsky's *Worlds in Collision*. In his book, he described a cosmic catastrophe and suggested that Venus was originally a comet which did not exist in its present position until around 1600 BCE. Indeed, Velikovsky determined that there are no records of Venus in ancient texts before that time.

Independent cosmologist, software designer and author Laird Scranton (see reviews in 18/05, 15/02, 11/01) set out to re-examine Velikovsky's theories in light of recent decades of astronomical and archaeological studies, and his findings point in favour of their validity.

Scranton also highlights that Velikovsky had detractors many years before any determination could be made about the composition of Venus, as if the idea that a cometary body could be ejected from a gaseous planet like Jupiter was heretical—and yet Venus still displays many features of being a young planet, if not a former comet.

Velikovsky also proposed a key role for electromagnetism in our solar system's dynamics, a very hot Venusian surface temperature, and an anomalous rotation of Venus in resonance with the Earth—all ideas that were later shown to be correct. His discoveries about the Moon and Mars are also intriguing.

Scranton reminds us of Velikovsky's contribution to our ideas about our solar system, and he hints at what else may be confirmed in the future.

## PSYCHIC KIDS

by Sue Bishop

Inspired Living/Allen & Unwin, Crows Nest, Sydney, 2012

ISBN 978-1-74237-855-8 (239pp tpb)  
Available: [www.allenandunwin.com](http://www.allenandunwin.com)

In recent years it seems that more and more children are being born with strong intuitive abilities and psychic powers, but they need help and encouragement in learning to feel comfortable with their gifts and to hold onto them throughout life. Now, more than ever before, parents need some spiritual guidelines on how to nurture their psychic children.

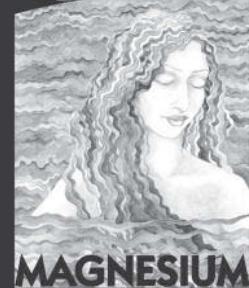
In *Psychic Kids*, Sue Bishop, one of Australia's high-profile psychic intuitives, inspires us to develop the sixth sense within ourselves and our children. The heartfelt stories she relates are eye-opening, involving children who have past-life recall, who can see auras and chakras and heal others, who can see angels and communicate with "imaginary friends" and with deceased relatives they've never met, and who have a sense for what has happened before in a particular place. Extremely touching is the section on her visit to a children's oncology ward, where she needed to clear a room of heavy, "dumped", residual energy from entities on the other side but where she realised that the kids have their own psychic communication network.

Bishop's timely book gives tips that you'll treasure on how to foster children's paranormal gifts in seeing, hearing, feeling and sensing.

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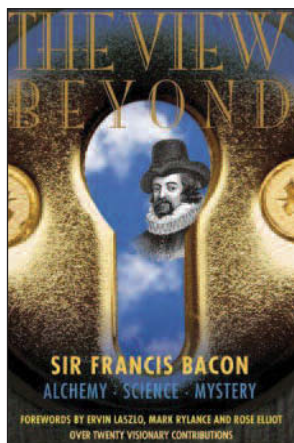
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## THE VIEW BEYOND: Sir Francis Bacon – Alchemy, Science, Mystery edited by Dave Patrick

Polair Publishing, London, 2011  
ISBN 978-1-905398-22-5 (287pp tpb)  
Available: [www.polairpublishing.co.uk](http://www.polairpublishing.co.uk)



One of the greatest minds of his age, or indeed of any age, was Sir Francis Bacon (1561–1626). Well known for his groundwork on the scientific method, his knowledge of the classics and the law, and his roles as a diplomat, royal adviser and Lord Chancellor, Bacon was a philosopher, alchemist and mystic with a vision for a golden age which would transform humanity and the world. He is also suspected of being the true author of Shakespeare's plays.

*The View Beyond* is a collection of contributions edited by Scottish-based author/alternative health practitioner Dave Patrick to mark the 450th anniversary of Sir Francis Bacon's birth. Among the contributors are Ervin Laszlo, who provides the preface, Peter Dawkins on The Great Instauration, Prof. John Henry on Bacon's exoteric and esoteric philosophies of nature, and Dr Nick Lambert on the themes of Bacon's *The New Atlantis*. James North looks at Sir Francis Bacon's work as a link between science and the ageless wisdom, author/astrologer Phillip Lindsay gives an esoteric astrological view of Bacon with reference to the third ray of creative intelligence, and John Waterman discusses Bacon's inspiration for theosophy and

anthroposophy. Others explore Bacon's New World vision, his use of codes and ciphers, his framework for new harmonic and alchemic sciences emerging in recent years, and his vision for a golden age in our time.

There's so much we can learn from the wisdom of this great man.

## PHANTOMS OF THE SKIES by J. Allan Danelek and Chuck Davis Adventures Unlimited Press, USA, 2011 ISBN 978-1-935487-38-8 (330pp l/f tpb) Avail: [adventuresunlimitedpress.com](http://adventuresunlimitedpress.com)

Humanity would never have developed flying machines without first having imagined the possibility of flight. Back in antiquity, the dream was there and it may have been achieved by the Rama Empire of ancient India many thousands of years ago if the descriptions of numerous types of *vimana* aircraft in the Sanskrit texts are to be believed. Here, researcher Jeffrey Danelek (see review of *The Great Airship of 1897* in 17/02) and aerospace technical illustrator Chuck Davis join forces in tribute to the great pioneers of aviation through the centuries.

From a ninth-century test of a modern-looking hang-glider, Danelek and Davis progress through the centuries with coverage of the technical advances that led to air and hydrogen balloons, steerable airships and, fortunately, the parachute. One standout, Sir George Cayley (1773–1857), designed gliders and a steam-powered airship that paved the way for the aeroplane. Gustave Whitehead, with his version, beat the Wright brothers by a year, while motorcycle engine designer Glenn Curtiss heralded the era of powered flight that led to the biplane.

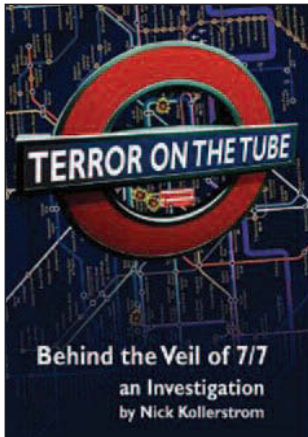
The authors tip their hats to a number of daring female aviators who made their mark from the late 18th century into the early 20th century. They've also assembled a collection of fascinating US Patent Office blueprints from 1844 to 1904 which attest to a wealth of ingenuity in this great human endeavour.



# REVIEWS

## **TERROR ON THE TUBE: Behind the Veil of 7/7 – An Investigation** by Nick Kollerstrom

Progressive Press, Joshua Tree, CA, 2011  
(3rd ed., expanded and updated)  
ISBN 978-1-61577-737-2 (353pp tpb)  
Available: [www.ProgressivePress.com](http://www.ProgressivePress.com)



In what must be the most definitive account so far of what happened in, and who was responsible for, the London bombings of 7 July 2005 (7/7), long-time activist Nick Kollerstrom punches holes in the "official narrative", presenting details that will shock anyone who has trusted the authorities' version of events. This was no Islamist terrorist attack, interestingly timed to coincide with a G8 meeting. The so-called terrorists had been recruited as part of a "drill"—unaware that they were being used as patsies.

Kollerstrom's book *Terror on the Tube* was first published in 2009, and this 2011 edition is expanded and updated with new chapters as well as an index. It contains additional information gleaned from the inquest, and yet Kollerstrom is not alone in calling for a truly independent inquiry into the 7/7 events. Nor is he alone in suggesting that 7/7 was a false-flag, state-sponsored act of terror against the populace. Incredibly, a year or so before 7/7, the BBC's *Panorama* ran a docudrama with a similar "bombings" scenario. There was a comparable exercise conducted in early April 2005, a collaboration between UK, US

and Canadian security services, and in June 2005 there was a "dry run" for the actual 7/7 events.

The plot just keeps getting thicker, and Kollerstrom has done a damned fine job trying to unveil the facts of this multi-layered conspiracy.

## **THE TRUTH AGENDA**

by Andy Thomas

Vital Signs Publishing, East Sussex, UK, 2011 (revised and updated edition)  
ISBN 978-0-9550608-1-6 (385pp tpb)  
Avail: [www.vitalsignspublishing.co.uk](http://www.vitalsignspublishing.co.uk);  
[www.truthagenda.org](http://www.truthagenda.org)

Author/activist Andy Thomas (our regular contributor on crop circles) has published a revised and updated edition of *The Truth Agenda* (first released in 2009; see review in 16/06). A definitive guide to the key conspiracies and enigmas of the ages, it explores mysteries, miracles and global deception, deconstructs consensus reality, exposes the tools of control of "the powers that be", and offers positive action plans for reclaiming our future.

Included in the new content is coverage of WikiLeaks revelations, UK student protests under the current coalition government, the hardly independent inquest into the 7/7 bombings, the perilous European economic situation, the Arab uprisings which are still being played out, the mysterious Norway spiral, and the March 2011 earthquake, tsunami and nuclear disaster in Japan. There's also analysis of the Climategate scandal and evidence for global cooling, NASA's call to prepare for a massive solar flare that could disrupt the electricity grid, the cancellation of US President Obama's *Constellation* manned lunar project, and the *Blue Beam* holographic projection conspiracy.

There are many updates in the extensive notes, and references aplenty for those inclined to follow up leads. Andy Thomas, an avowed truthseeker, has a keen way of cutting to the core of world events and making sense of our changing world.

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# REVIEWS



## DVDs

Compiled by Duncan Roads

### WHY SCIENCE?

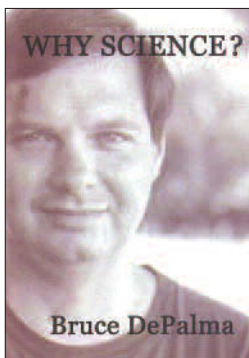
**Bruce DePalma and the N-Machine**  
by Mark Ward © 2012

Available: [www.BruceDePalma.com](http://www.BruceDePalma.com)

Bruce DePalma graduated from MIT in 1954. Over the next 40 years, until his death in 1997, he conducted a series of experiments on the principles of rotating masses.

This DVD documents Bruce DePalma's experiments which demonstrate anomalous inertial, gravitational and electromagnetic properties. In 1978, he developed the N-machine which produced electricity at around 500 per cent efficiency. In 1996, he built and tested his quadrapole generator in New Zealand.

This DVD is in three parts: Part 1 is a slide-show lecture by DePalma at the 1988 Tesla Conference; Part 2 has close-up footage of the assembly of the N-1 machine; and Part 3 has more explanatory footage of the technology. Very informative!



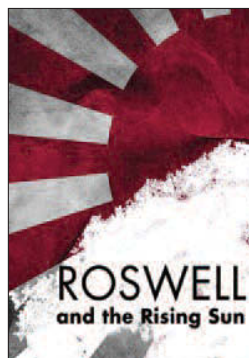
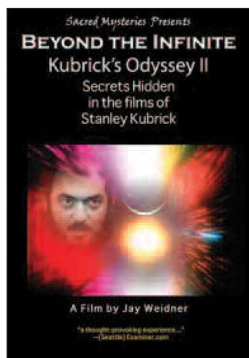
### BEYOND THE INFINITE:

**Kubrick's Odyssey II**  
by Jay Weidner

Cubed Brick Productions © 2012

Available: [www.sacredmysteries.com](http://www.sacredmysteries.com)

In this second part of a provocative examination of Stanley Kubrick's milestone film 2001: *A Space Odyssey*, researcher/filmmaker Jay Weidner unveils new insights which reveal



### ROSWELL AND THE RISING SUN

by Douglas Dietrich © 2011

Available: [www.douglasdietrich.com](http://www.douglasdietrich.com)

Douglas Dietrich was a US DoD military librarian for almost a decade, responsible for incinerating highly classified materials on critical historical topics such as Pearl Harbor, Roswell, Vietnam and various ethnic holocausts, as well as documents exposing the reality behind vampires, zombies, Soviet psychic warfare and other occult phenomena.

As a result of reading many of those files before he destroyed them, Douglas has a completely different perspective on events before, during and after World War II (see interview this issue). He reveals that, contrary to what we're generally told, WWII-era German and Japanese technology was extremely advanced.

He also presents alternative information as to what might have happened at Roswell and during the February 1942 Battle of Los Angeles.

I recommend that you check out this DVD and Douglas's other talks. Fascinating and disturbing stuff!

that Kubrick was telling us another story underneath what we're watching on the screen (see 18/05).

Weidner contends that the film is actually a work of alchemy that initiates the viewer into a higher consciousness and opens the mind and heart to new vistas for the entire human race—via the use of powerful symbols designed to unlock the secret of transformation and the path to our spiritual evolution.

## FLUORIDE FATIGUE (Revised 3rd printing)

by Dr Bruce Spittle

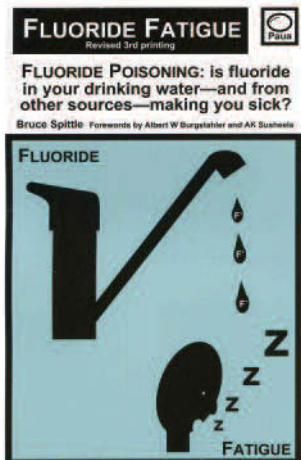
*Fluoride Fatigue* outlines the chronic fatigue and other ill effects experienced by many people when they drink fluoridated water. The book notes how to test if fluoride is causing these symptoms and, if it is, how they may often be cured. New Zealand born Dr Spittle has practised over a wide field in the medical profession for over 40 years. He is Managing Editor of *Fluoride*, the quarterly journal of the International Society for Fluoride Research, since 1999.

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# REVIEWS

## MUSIC

Reviewed by Richard Giles

### CARAVANA SEREIA BLOOM

by Céu

Six Degrees Records, 2011 (36mins)  
Distributors: **Aust**—Fuse Music, tel (02) 9699 7555; **USA**—Six Degrees, www.sixdegreesrecords.com

Brazil's Céu (see NEXUS 15/06) has released her boldest work yet, with laid-back, loungey, electro bossa nova and samba pushing you to sway. The casual ambience is deliberate. Céu travelled to Brazil's northeast for musical inspiration, and here she utilises the synthesisers and guitar effects of mangue beat, all the while injecting her unique, personal sound. She updates bossa nova and samba with a lazy percussion, seducing you into her own Brazilian world.



### THE TEL AVIV SESSION

by The Touré–Raichel Collective

Cumbancha Music BMI, 2012 (60mins)  
Distributors: **Aust**—Fuse Music; **UK**—Putumayo Music, tel (0)7759 600 495; **USA**—Cumbancha, tel (802) 425 2118, cumbancha.com; toureraichel.com

This is one sublime album. The Touré–Raichel Collective comprises Vieux Farka Touré from Mali and Idan Raichel from Israel, who came together after a serendipitous encounter. The music is the product of an impromptu jam session after a 2010 Tel Aviv performance. Raichel combined their

basic tracks with music from Israeli bassist Yossi Fine and Malian calabash player Souleymane Kane, as well as French harmonica player Frédéric Yonnet, Ethiopian-Israeli vocalist Cabra Casay and kamanchi player Mark Eliyahu. The Touré–Raichel session is sure to be one of the recordings of the year.

### REMIXED

by Girish

Girish Music, USA, 2011 (56mins)  
Distributors: **Aust**—Brumby Books & Music, tel 1300 427 862; **USA**—Girish Music, www.girishmusic.com

Girish's fifth CD in a line of very successful chant and Kirtan music (see NEXUS 14/02) links Sanskrit mantras and chant through styles from dub and reggae to world dance and electronic beats for yoga music. It's cool and funky yet deeply devotional music that will have you moving in a heart-opening union of emotions. It's music to put prayers into! It features Rara Avis, Desert Dwellers, Shujat Ali Khan and more. This beautiful chant CD will open up Kirtan to a wider, younger audience.

### FEARLESS EARTH

by Madeleine Walker

Findhorn Press, UK, 2012 (76mins)  
Distributors: **Aust**—Brumby Books & Music; **UK**—Findhorn Press, tel +44 1309 690 582, findhornpress.com

An album in praise of Gaia, *Fearless Earth* features three unique meditations. The idea is to boost the desire to share a strong spiritual connection with nature. Madeleine Walker (see NEXUS 18/05, 19/01) received these messages from dolphins, angels, tree beings and mythical creatures. She accompanies these meditations with synthesiser, cello and voice chants. Listeners are transported to humanity's past with a dolphin-led healing of Atlantis. The last track, a tree meditation, presents messages of the tree beings of ancient France. The deep wisdom here offers a release from our fears for the world's ecological plight.



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## CoEvolution

One Monday in mid-February 1989, Alec Newald set off on what should have been a three-hour drive from Rotorua to Auckland in New Zealand.

He arrived in Auckland feeling tired and confused, but was even more confused to learn that Monday was now Thursday ten days later, and that he had no idea of what had happened in the meantime!

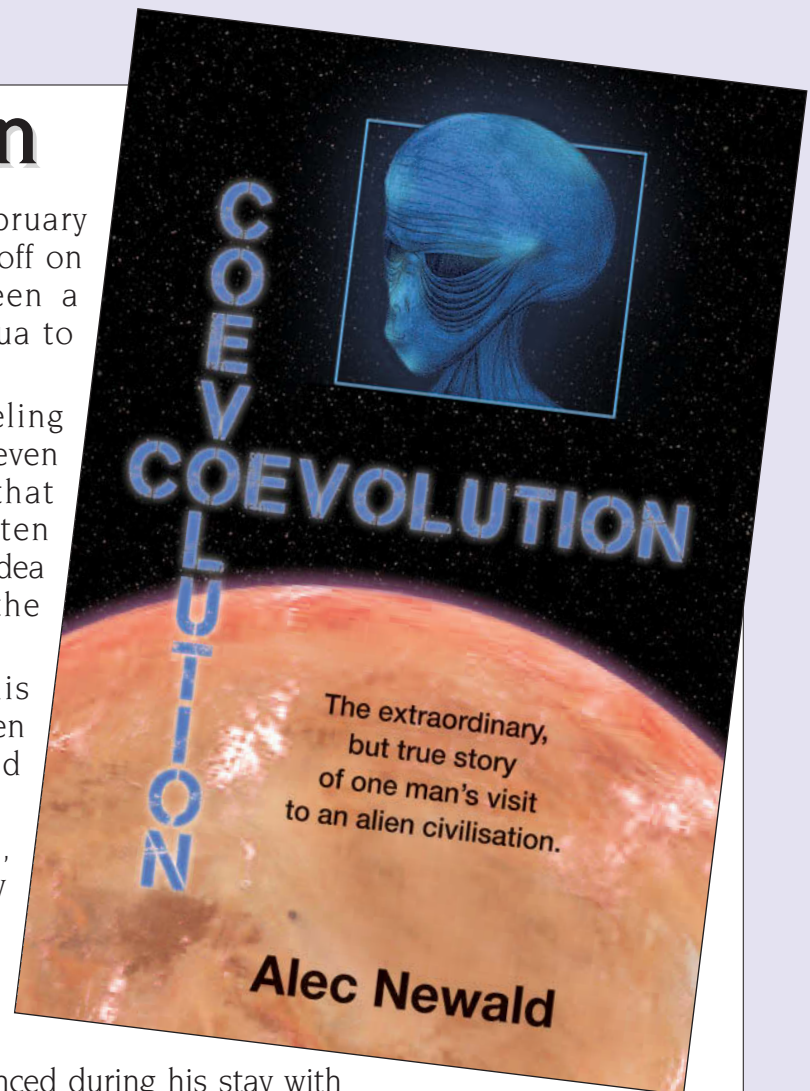
When Alec did retrieve his memories of those missing ten days, he realised his life had changed forever.

Early on in that fateful trip, while driving through a foggy mountain pass, Alec was whisked from the road by beings from an extraterrestrial civilisation.

What he learned and experienced during his stay with these friendly beings has profound implications for all of us here on Earth.

Soon after his 'return', Alec received strange visits from 'government scientists' wanting to know about his experience. Among other things, they were keen to learn what he had noticed about the capabilities of this alien race. Alec was uncooperative and soon found himself in 'hot water'.

It was obvious that these 'scientists' knew all about Alec's 'abductors' and expected they would return to Earth one day—soon.



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## The Borax Conspiracy

Continued from page 34

It is really saying: "While we have no human data, animal studies suggest that for adult reproductive functions a daily ingestion of about two teaspoons of borax is safe. But to be absolutely sure that no one is harmed, we will ban it totally."

Importantly, this ruling is not related to borax in foods or supplements where it is already banned, but only for general use as in laundry or cleaning products or as insecticides. Because borax is not readily inhaled or absorbed through intact skin, it is difficult to get even a few milligrams daily into the body with conventional use. If the same standard were to apply to other chemicals, there would be none left. The key study in this assessment was published in 1972. Why is this being dug up now to justify banning borax when it was of no

concern for the past 40 years? It does not make any scientific sense, especially if you consider that the main chemical in the borax substitute, sodium percarbonate, is about three times more toxic than borax.<sup>23</sup> Even sodium bicarbonate is nearly twice as toxic as borax.<sup>24</sup> Both of these have not been tested for long-term reproductive toxicity at the high borax levels. The same applies to washing powders. Yet, why do really toxic items such as caustic soda and hydrochloric acid remain publicly available when one of the safest household chemicals is banned, despite its being absolutely impossible to cause reproductive harm with the approved use?

Regardless of the lack of any scientific credibility, the stage has been set for borax and boric acid to be removed from public sale globally at short or no notice. Even low-level and less-effective boron tablets are now

tightly controlled by the pharmaceutical industry and may be removed at any time through Codex Alimentarius regulations. With this, the medical-pharmaceutical system has safely defused any potential danger that borax may have posed to its profitability and survival. ∞

### About the Author:

Walter Last is a retired biochemist, research chemist, nutritionist and natural therapist based in Australia. His health-related books are available at <http://tinyurl.com/4xkdgcg>. He is a regular contributor to NEXUS. For more information, visit his website <http://www.health-science-spirit.com>.

### Editor's Note:

Due to space constraints, we are unable to publish the full text of Walter Last's article. To view this, as well as accompanying endnotes, go to <http://www.health-science-spirit.com>.



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## Understanding Our Crucial Cytochrome P450 Enzymes

Continued from page 42

pronounced like "Zheel-bear".) This mutation or defect is the lack of about 70 per cent of the normal ability of one of the liver's detoxification mechanisms. This is the liver's Phase II glucuronidation ability. It is the addition of glucuronic acid to bilirubin—a breakdown product of haemoglobin. Other lipophilic compounds may also not be processed properly.

This adding of glucuronic acid is called "conjugation" or, here, "glucuronidation". Gilbert's sufferers also often have several other linked mutations. Bilirubin can build up to toxic levels, but this weakness in the liver's Phase II detoxification system also means that drugs, foods, hormones and environmental chemicals can cause illness in Gilbert's sufferers.

GS sufferers have elevated *unconjugated bilirubin* blood levels. I think, though, that the upper normal limit may be set too high, as many people unknowingly have GS. Get tested also for total and conjugated bilirubin. Faulty glucuronidation may be involved in "reacting" to acetaminophen, morphine, benzodiazepines, aspirin, vanillin, benzoates, fish oils, citrus, birth control pills or tobacco.

GS can cause elevated bilirubin blood levels, which during flare-ups can result in a slight yellowish tinge to the skin or sclera in the eyes and in intermittent, benign, non-hepatitis jaundice. Gilbert's syndrome is poorly understood. Its sufferers are said to have many and varied complaints "not attributable to their genetic defect".

GS sufferers have many symptoms in common with CFS or MCS sufferers. Gastrointestinal, neurological, muscular and other complaints abound. Often there is also light sensitivity, indicating here a possible CYP450 problem. If you have intolerance (or addiction in the early stages) to fats or oils, get the

bilirubin tests—especially if you have any yellowing of skin or eyes, or if you've seen that your stools are green or yellow when you are feeling sickest.

Cut down or eliminate fats, oils, dairy, meats and particular foods that affect this liver detoxification cycle.

### EMF Effects and Energy Balancing

Finally, I note that *the effects of electromagnetic fields (EMF) on CYP450 enzymes have been documented*.<sup>4</sup> These effects may be the tip of the iceberg, and another reason for the current explosion of chronic and environmental illness.

There is much energy balancing you can do for your liver, small intestine and other organs.

Use applied kinesiology (AK), or acupressure, acupuncture or reflexology. Some AK methods—including Chapman's neurolymphatic and Bennett's neurovascular reflexes—can be done many times per day. They will increase lymph and blood flow to the organs.

Also beneficial may be lymph massage, exercise, magnetic lymph cleansing and Rife machine therapy.

We have seen that anomalies in the cytochrome P450 enzyme system account for our individual reactions to foods, chemicals, drugs and even our own hormones. Much of chronic and/or environmental illness and also the ageing process are involved with these enzymes. If we suffer from deficiency or defect of one or more of these enzymes, eating—and rotating—organic foods, avoiding toxins in the air, food and water, and minimising EMF exposure are important. Liposomal, or acetyl-, glutathione can help as well.

Get tested for everything before it goes into your body. If you find that the testing was not accurate, find another source. Learn various forms of energy balancing to regain or retain your health, instead of assuming that only pills can achieve those goals. Unlike drugs or even natural supplements—which, as you

now know, you can react to—such is not the case with energy balancing.<sup>5</sup> Everything has its benefits and its limitations. ∞

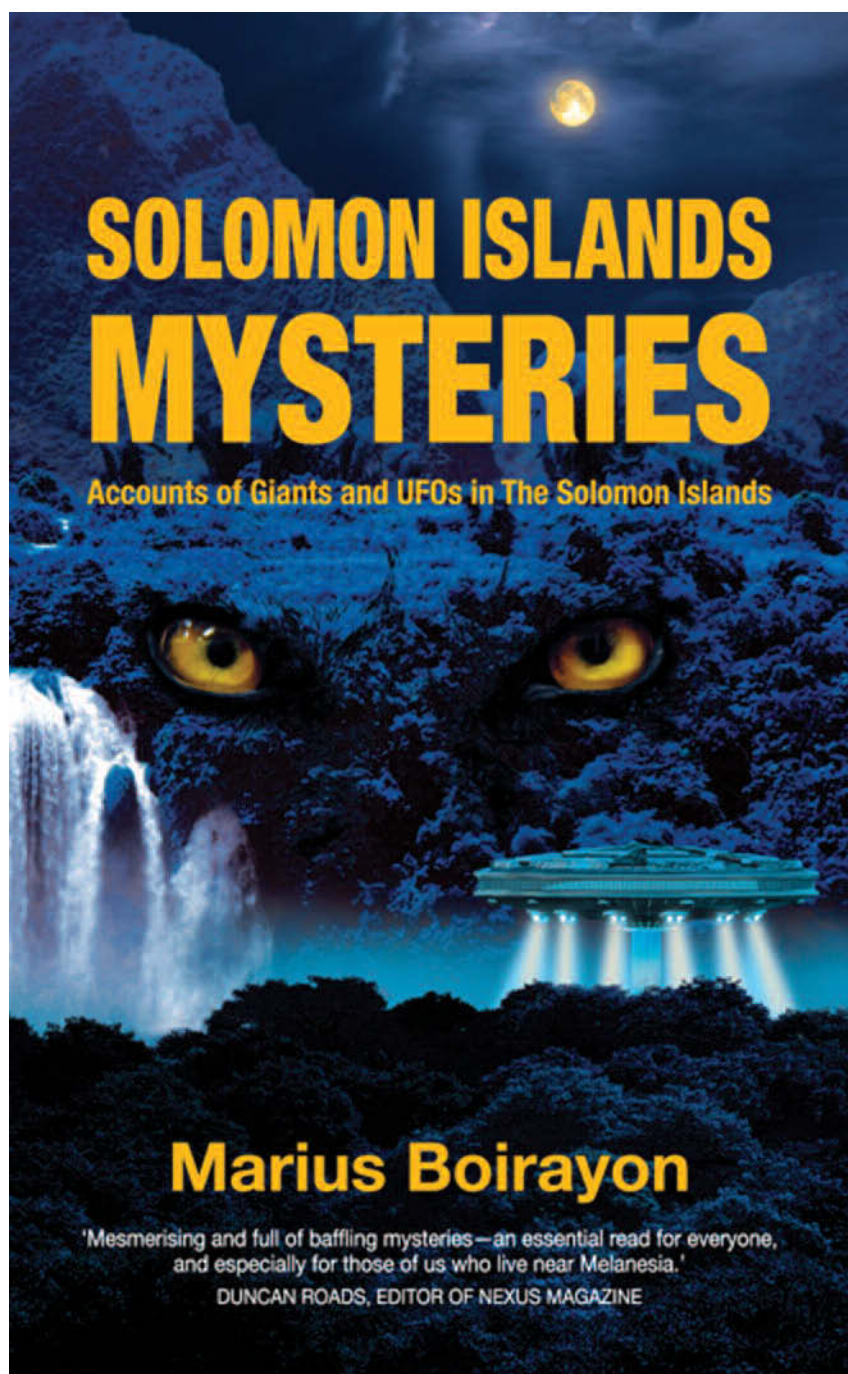
### About the Author:

Steven Rochlitz, PhD, was originally a physics professor. For the past 32 years he has researched chronic and environmental illnesses and taught his seminars across the world. His unique system incorporates breakthroughs in energy kinesiology, nutrition and human ecology. Dr Rochlitz is the author of 10 books (see reviews in NEXUS 19/04, 19/02, 18/02). This article, his sixth contribution to NEXUS, is partially excerpted from his book *Porphyria: The Ultimate Cause of Common, Chronic and Environmental Illnesses*, which has been cited as a significant health breakthrough. Further research is at his website <http://www.wellatlast.com>. Dr Rochlitz can be emailed at [info@wellatlast.com](mailto:info@wellatlast.com).

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## Does DNA Emit Light?

Continued from page 51

information as in molecular-level 'cellular automata' computing systems (e.g. Hameroff and Watt, 1982; Rasmussen et al., 1990; Hameroff et al., 1992)."<sup>3</sup>

In their paper, Hameroff and Penrose present a model linking microtubules to consciousness using quantum theory. In their model, quantum coherence emerges and is isolated in brain microtubules until a threshold related to quantum gravity is reached. The resultant self-collapse creates an instantaneous "now" event. Sequences of such events create a flow of time and consciousness.

Don't worry if you can't understand this. It's heavy reading, but it does show that the existence of internal photons—inner light—is very real and is the basis of virtually all human cellular and systemic

function. Could the Russian scientists really have changed a salamander embryo into a frog, with lasers? I prefer to wait until the actual details of the experiment are published and reviewed—but I am much less apt to dismiss this as fiction, now that I know about our inner lights. ∞

### About the Author:

Dan Eden is a *nom de plume* of researcher/writer/editor Gary Vey, who established the Viewzone Magazine website in 1996. Read by a million visitors each month, Viewzone looks at life from different angles and encourages opposing views and theories.

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For more information, visit <http://www.viewzone.com>. To contact Gary Vey, email him at [myristicin@hotmail.com](mailto:myristicin@hotmail.com).

### Endnotes

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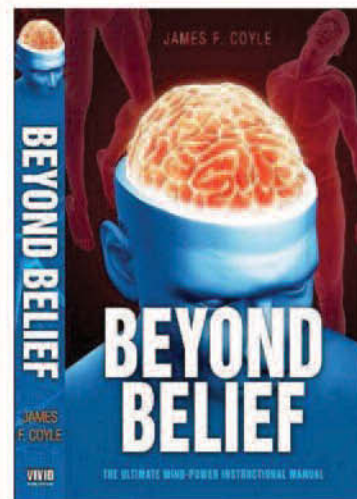
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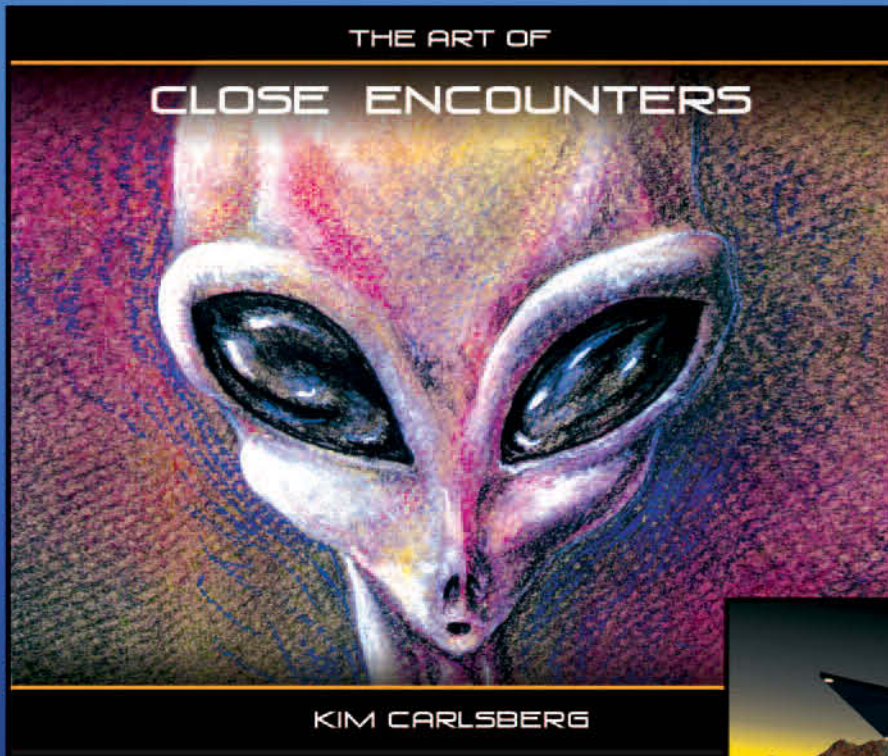
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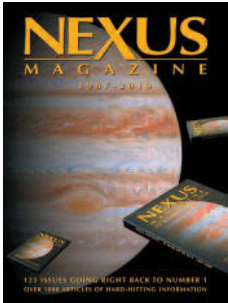


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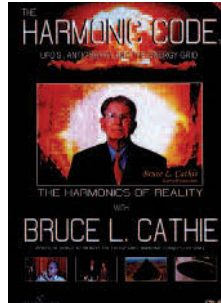
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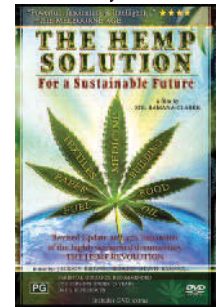
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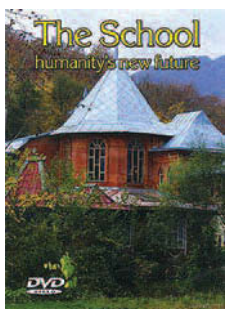
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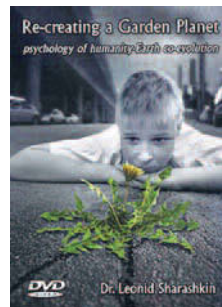
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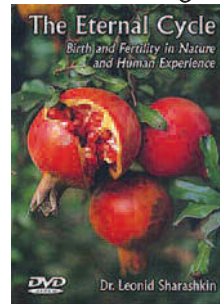
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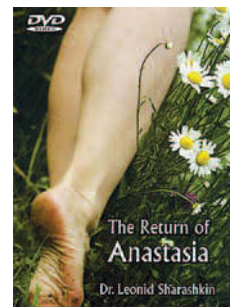
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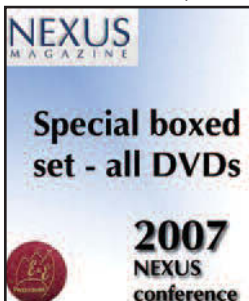
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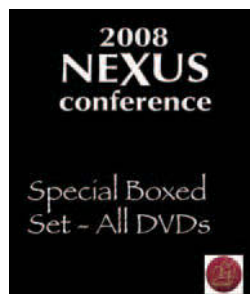
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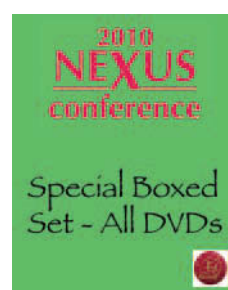
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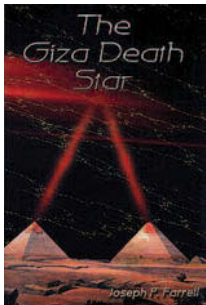


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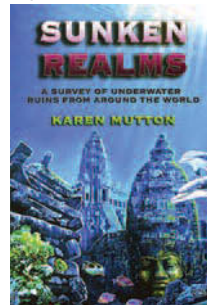
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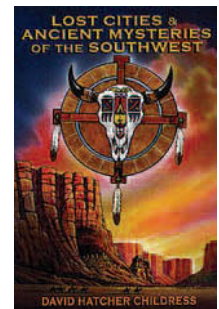
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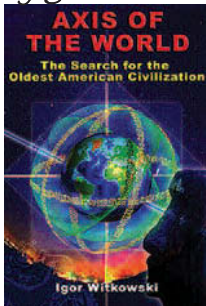
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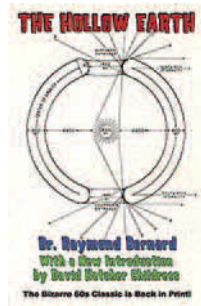
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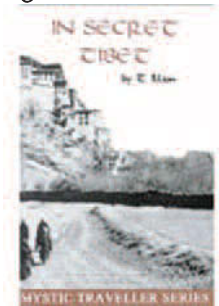
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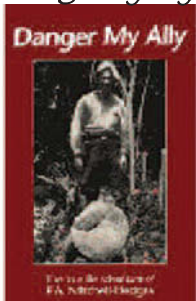
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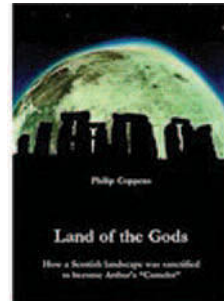
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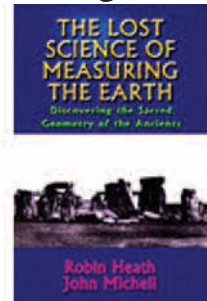
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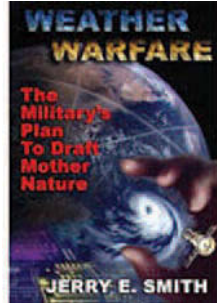
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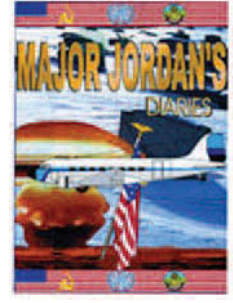
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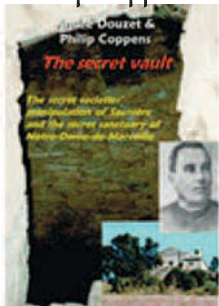
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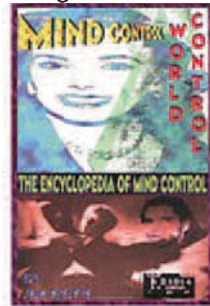
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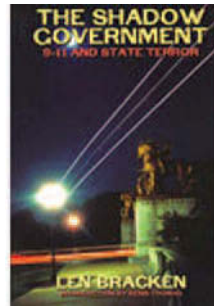
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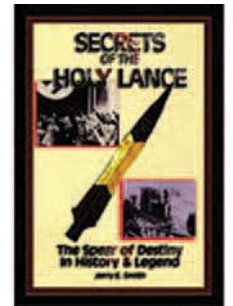
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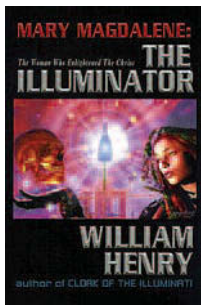
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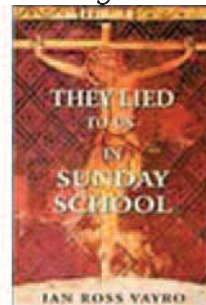
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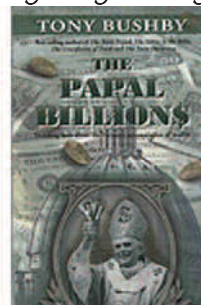
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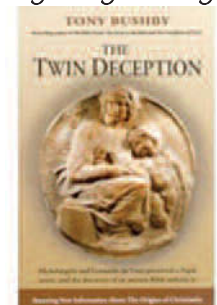
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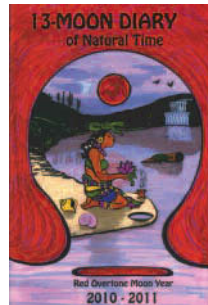
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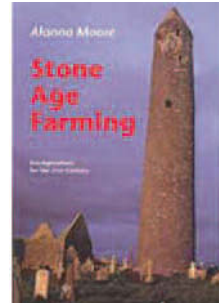
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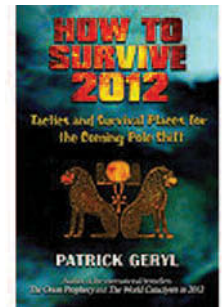
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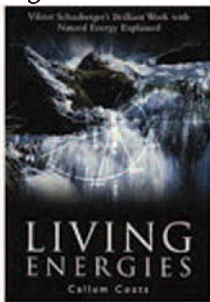
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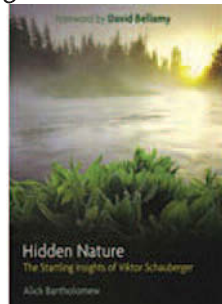
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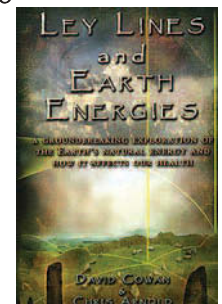
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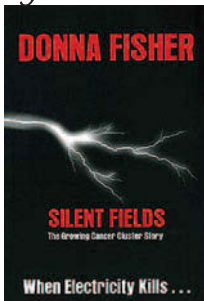
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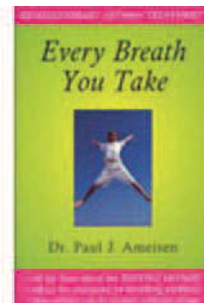
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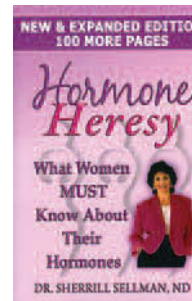
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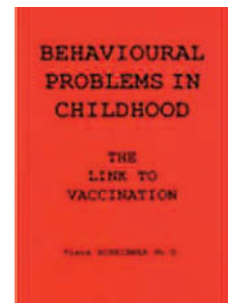
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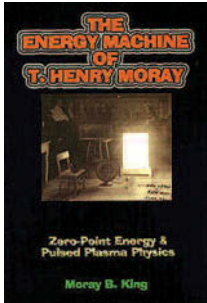


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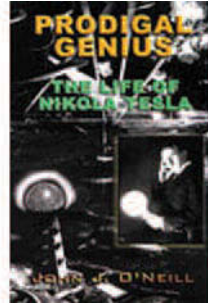
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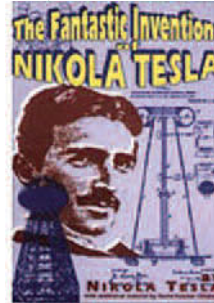
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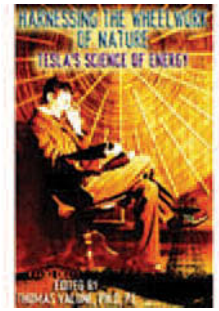
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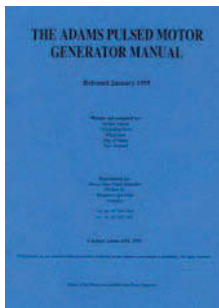
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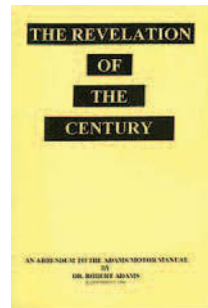
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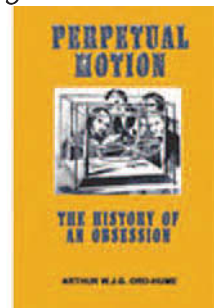
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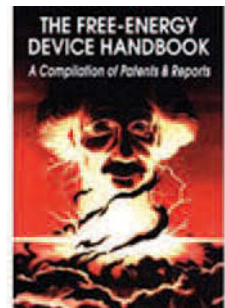
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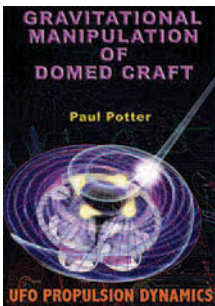
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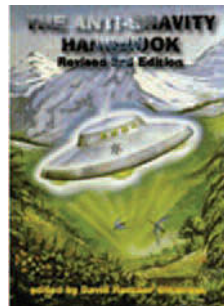
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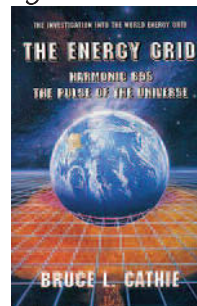
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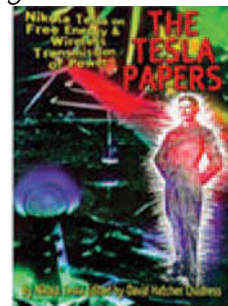
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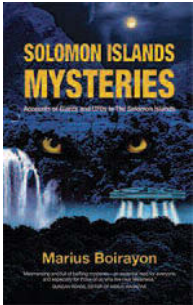


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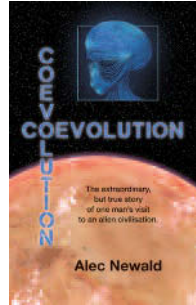
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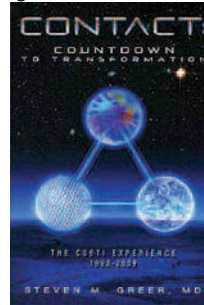
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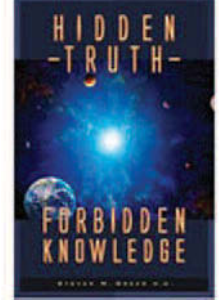
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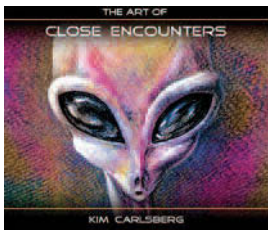
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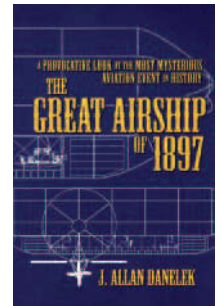
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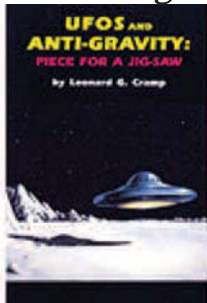
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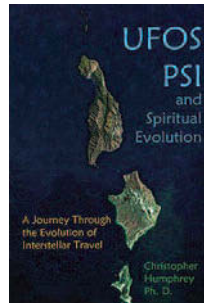
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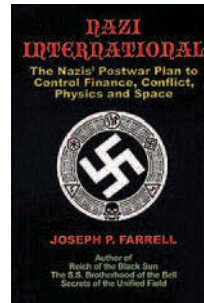
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- 1) Each international edition of NEXUS is identical, except for the advertising.
- 2) Payment **MUST** accompany finished artwork. Artwork should be emailed as an attached pdf file.
- 3) Discounts do exist for multiple issues - but **ONLY** if pre-paid.

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Vol. 19 #06	Oct-Nov 2012	20th Aug 2012	27th Aug 2012
Vol. 20 #01	Dec 2012–Jan 2013	22nd Oct 2012	29th Oct 2012
Vol. 20 #02	Feb-Mar 2013	20th Dec 2012	5th Jan 2013
Vol. 20 #03	Apr-May 2013	20th Feb 2013	27th Feb 2013
Vol. 20 #04	June-July 2013	23rd April 2013	30th April 2013

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# Elixir of Life

## The Highest Vibrational Uplift & Soul Evolution

**OrmUS** is a breakthrough in the fields of Happiness, Spiritual Evolution, Consciousness and Agricultural Productivity

- Is Ormus a **transcendent** substance? Can Matter contain **Higher Consciousness**?
- Is Ormus a **SUPERFOOD** for Plants Animals and People? (See photos)
- Is the physical youthening and happiness commonly reported just a 'placebo effect' when people have regular Ormus?



**Unreasonable Happiness** is the most commonly reported attribute of Denis' Ormus. "The longer you take 'Elixir of Life' daily, the better your life gets in an ascending cycle of dynamic clarity, happiness and peace," says Denis of Oz... the maker at [www.ormus-alchemy.com](http://www.ormus-alchemy.com)

### Testimonials...

#### Hi Denis, Yes your Ormus really does the job!

With the first bottle of Mother of Abundance, I saw gold sparks, then money started coming from little wins and then some bigger ones. The dreamtime bottle really amps the dreams up, I dont wanna wake up.... Cool to have found your stuff!

- Kim, Manly, NSW

#### Denis of Oz's Ormus is vibrationally POTENT!

From the first dose of a mere ½ teaspoon of the Mother of Abundance Ormus, I found myself waking up that evening, within my dream, and becoming joyfully aware that I was totally connected and at one with my higher self, in my heavenly sanctuary...

Quite literally, Ormus has further opened the channel between my physical self and my higher self and with great ease has also strengthened my connection to my Angels!

I always look forward to bedtime, knowing with great joy that I will connect and integrate with my higher self and divinity, where I am always in a loving space and can learn anything I wish to learn!

All I must do is state my purpose with gratitude, as I take my dose of Ormus.

Denis's Ormus inspires me and enables me to be the best person I can be and to positively manifest what I want in my life. In simple terms, Denis's Ormus is the vibration of universal love that enables people to access their divinity on Earth. If you want to vibrate with the harmony of universal love, get some of Denis's Ormus!

- With love and light, Leonie, Cooma NSW, Australia

#### Extra \$1-3000 per month.

Denis, since starting your Mother of Abundance Ormus, I am now earning anywhere between \$1-3k extra per month. I am still a newbie at this. THANK YOU. Stu, TX USA

#### "Goodness Gracious Great Balls of Ormus!!"

That's exactly how I felt when I opened the package of 'Elixir of Life' Ormus from Denis of Oz in Australia the other day! There was nothing humble about how it slugged my psyche just from handling it. I was even a little guarded about consuming it - which took me a few days to build up to. Denis promised to send me some of his 'rockum-sockum', 'wham you in the 3rd eye', 'explode your kundalini' ORMUS, and it arrived earlier this week and I have been reeling since then. I've tried many types of ORMUS over the past 8 years and discovered early on that ORMUS takes on a significant imprint of the person and surroundings where it is produced. This is true even with the more difficult alchemy techniques. That imprint becomes a part of the ORMUS experience by the person who consumes it.

#### Denis of Oz is the BEST at imprinting (programming) his ORMUS.

Denis is meticulous with producing his ORMUS for the highest vibration possible, from collecting the Pacific Ocean water at 4am on the waxing full moon, to setting up a high powered sacred place in which to perform loving alchemy.

You needn't look any further to find a product that will inspire you.

- Sharon, San Francisco USA

**"OrmUS is the Bridge between matter and Spirit"** Barry Carter ([www.subtleenergies.com/ormus](http://www.subtleenergies.com/ormus))

**PLANTS, CROPS & ANIMALS love Ormus too! (Pets thrive and heal)**

Agriculturally, Ormus consistently doubles the crop size & flavour. (See the photo)

Call for more information on discounted packs & 'DreamTime' bonus.



The ORMUS of Unreasonable Happiness



"Crops commonly double in Size and Value."



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Healthy

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# Get the Facts about Hemp Seed

## Nature's Number 1 Survival Food

Australia presently does not allow hemp seeds for human consumption. You may however, feed these to your pets or purchase for export only.

### Protein

One of the main reasons that you might choose PURE DELIGHT HULLED HEMP SEEDS (OMEGA HEMP HEARTS) is its high protein content.

Hemp protein is among the most digestible protein available. Your body readily uses the protein, utilising it for tissue, muscle and hormone formation.

Protein is also used to form blood; hemp protein specifically contains two blood building proteins - edistin and albumin.

Approximately 65% of the protein in hemp seeds is from edistin.



### EFA's

One of the most beneficial qualities of hemp hearts is its natural balance of essential fatty acids, or EFAs. Hemp hearts provide a balance of these EFAs. Hulled hemp seeds contain 80% Omega-6 and Omega-3's in a ratio of 3:1 which is the perfect ratio for the human body.

### Minerals

You will also receive essential minerals through hulled hemp protein. Hemp seeds contain important minerals like magnesium, iron and manganese. Magnesium is essential for the contraction & relaxation of your muscles, protein production and energy production.

Iron is perhaps most well-known for its role in making hemoglobin, which allows blood cells to carry oxygen around your body. Manganese is important for bone health, fatty acid and cholesterol synthesis, nerve health & maintaining optimal thyroid function.

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