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NEXUS

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OCTOBER – NOVEMBER 2003

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• Vedic Maths • Noni – The Wonder Plant •

NEXUS

NEW TIMES MAGAZINE

Volume 10, Number 6 OCTOBER – NOVEMBER 2003

UK/European Edition

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STATEMENT OF PURPOSE

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

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Editorial

Disturbing news from un-embedded journalists and film-makers is starting to filter out from Iraq. After turning Iraq into the world's largest concentration camp, the US and its allies are now threatening and killing reporters or anyone else threatening to lift the lid. Keep your eye out for any news or films by respected independent filmmaker Patrick Dillon, who returned from Iraq after spending several months there during and after the war. Of particular concern should be his filmed eyewitness accounts of the USAF airlifting Saddam Hussein and his circle out of Baghdad airport just before it 'fell' to the allies. Equally horrifying are the growing number of reports of US secret weapons employed on the battlefield and on the streets. We are talking of tank-mounted Tesla-type weaponry that shoots 'lightning bolts' which 'melt' vehicles and humans almost instantly.

Indeed, the number of dead whistleblowers and dead journalists reporting on any 'non-approved' information is rising. It is now a time where few in positions of influence dare to speak out any more. Global events are moving at a staggering pace, yet the average person cares little to look past the now obvious veneer of lies and deception served up as our daily news.

Anyway, some good news is that author David Guyatt has stopped getting death threats, which we assume is due to the fact that his articles are now well and truly in the public domain. The question remains: will anyone in the mainstream media follow them up?

On a more positive note, those seeking dietary self-help should really appreciate the article on Enzyme Nutritional Therapy. I appreciate that, to some, this title may sound intimidating, but trust me: it's all about the value of eating more raw foods.

Another positive one this issue is the article on Noni. After years of watching people take the stuff and report great results, we decided to run an article on what is so good about it.

Another subject I have been wanting to mention for several years is Vedic Mathematics. Now, if you consider yourself a 'non-maths' person, then you definitely should read this article and try the sutras. Before you know it, this ancient system for mental arithmetic will have you astounding your friends and co-workers!

While we are on the subject of things 'Vedic', I thought readers might appreciate the Vedic Prophecies of the Kali-yuga. These describe the conditions in the 'cycle' in which we now live, the Kali-yuga, and you will see how astoundingly accurate they are.

Antigravity is considered by most researchers as a type of 'holy grail' in science, even more so than 'free energy'. So we are happy to be able to present an article rounding up what is going on in this research, including a look at the "Lifter" which is still generating debate and discussion amongst all involved.

As usual at this time of the year, we like to do a round-up of the crop circles for the year. Unfortunately, this year the UK 'crop' was down in terms of numbers, which was attributed to the early harvest due to a very hot summer. Also of note is that some of the more complex designs are starting to appear in greater numbers in other northern hemisphere countries. Maybe one day the circlemakers may realise that the southern hemisphere exists and also has crops!

Finally, I would like to draw your attention to a most fascinating person, astrophysicist James McCanney. We have published an edited extract from a lengthy interview with him, and, believe me, I took no comfort in having to choose which interesting tidbits to remove so that I could fit the article into the magazine. There are some most intriguing subjects touched on in the interview: the covert agenda for weaponising and controlling space; that space is not a vacuum but it is electrically active; that comets are not 'dirty snowballs' but are charged balls of plasma; and that only people of advanced consciousness or awareness are capable of 'leaving' this planet to go into outer space (are we being quarantined by someone?).

Before I go, a quick reminder for your diaries. A NEXUS Conference is being planned for the northern hemisphere, in Amsterdam, on the last weekend of March 2004; and for the southern hemisphere in southeast Queensland, Australia, in late May 2004.

Until next issue...

Duncan

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Letters to the Editor ...

Surviving HIV/AIDS Dogma

Dear Duncan: Continuing in the vein of Steven Keller's letter (vol. 10, no. 3), I would like to share my experience of the AIDS dogma within the NHS.

Due to the fact that my late partner had the misfortune to be given an HIV diagnosis/death sentence in the early 1990s, I read extensively on the subject and found the dissidents (the Eleopulos Perth group, et al.) to be the most convincing in their assertion that the whole thing is a big con—that HIV has never been isolated and that there are multiple contributors to the condition of immunosuppression, none of which can be pinpointed to a single virus (see <http://www.virusmyth.com/aids/tour/index.htm>).

Sadly, I was never able to completely convince my partner of the truth: that he wasn't really doomed to die within two years, as his doctors predicted. But he was torn between the two opinions, and in his mind the doctors carried more weight. Whenever he got sick, which rarely happened due to his excellent constitution, they would insist it was the HIV, for which there was only one treatment on offer: combination therapy. I witnessed the relentless pressure he was under to take these drugs from the doctors, hungry for backhanders from the pharmaceutical companies, and it was a constant battle as they tried all kinds of tricks.

Although he never gave in to their push for treatment, and was, for the most part, saved from the ravages of AZT, he did give in to the solace of alcohol, basically drinking himself to his death three months ago. But even as he was on his last legs in hospital with sclerosis of the liver, his doctors refused to ease up on their pressure, and after explaining to me that his system was in such a delicate state that any introduction of heavy drugs may be enough to tip him over the edge, they proceeded to do

exactly that. Two days after they began the combination therapy he was unconscious, and two days later he was dead. It was shockingly sudden.

This unflinching attitude towards HIV/AIDS is so entrenched throughout the system that the countless dissident experts who have put themselves on the line by questioning the validity of the equation have been ignored or discredited, while the true causes of the illness are left unexplored.

But the pharmaceutical/medical professions are not the only culprits in this scam; the media play a vital role in manipulating opinion and perpetuating the lies. You just have to look at the way bin Laden was vilified and quickly blamed for 9/11 to realise how easily a story/scapegoat/hypothesis can miraculously become accepted "fact". Added to this is the hysteria of the AIDS activist groups, demanding their right to treatment regardless of efficacy, intensifying the message. This is where protesters need to be extremely careful as to how their seemingly just cause fits into the grand scheme of things.

In hearing about President Mbeki's brave stance against the powers that be and against those calling for him to subject his poverty-stricken, malnourished population to toxic killer drugs while acquiring a multibillion-dollar debt in the process, I was hopeful that the AIDS scam might soon be exposed. However, my optimism soon dwindled when he was forced to back down and publicly deny that he'd ever questioned AIDS dogma. My heart goes out to all those poor, misinformed people who will now have to watch their loved ones needlessly die, as I did.

Finally, I'd like to end on the subject of my own health. Thanks to C. Brough (vol. 10, no. 2), I was reminded of your article on poisonous plastics, and I am wondering if this may

be the cause of my long-term swollen glands. Eliminating plastics from the diet, however, is not so easy, and I wonder if any of your London readers could possibly help me source healthy food, especially dairy products such as milk/yoghurt which are not packaged in plastic. Thanks.

Sincerely,

Helen Murphy, UK, amanita.murphy@virgin.net

EMR Health Effects

Dear Duncan: I have subscribed to your magazine for some time and have a passionate interest in the perceived adverse health effects of electromagnetic radiation. The last issue [vol. 10, no. 5] contained a number of letters on this subject, and I comment on some of them as follows:

1. Fluorescent lighting problems: I agree with the importance of using full-spectrum tubes in all fluorescent lighting; however, if fish are affected by nearby television sets, spare a thought for the effects that electric pumps and oxygen generators within the tanks are having. Fields in excess of 1,000 milligauss are common and they are a good 10 times stronger than the field from any TV set!

2. Dangers of high-voltage (HV) lines: I sympathise with Bonny Bauer and the loss of her husband from leukaemia and I agree with her concerns regarding HV transmission lines. Nevertheless, while there would be numbers of people too close to these lines, there are many more people who are subjected to much greater fields within their average suburban house. This is particularly true for people with off-peak electric hot water systems who sleep directly across the wall from their electricity meter box.

The research of Professor Dennis Henshaw has attracted a lot of attention, but it is unlikely that the same effects exist in

Australia. As I understand his research, it related to much higher voltage lines than we have here, in more polluted areas and subject to prevailing winds predominantly in the one direction. His research suggests danger zones as large as 300 metres from the lines. In my experience in Australia, the danger zone is rarely larger than 70 metres and frequently less, and the radiation is non-ionising.

Incidentally, the UK NRPB has never been in a hurry to suggest any links between EMR and adverse health effects.

While it is tempting to criticise our governments for abrogating all duty of care, it is not appropriate in this instance. ARPANSA has convened a working group to produce a standard for magnetic and electric fields in the frequency range 0 to 3 kHz. This includes our frequency for electricity distribution of 50 Hz (60 Hz in USA... they love to be different).

I am the community representative on this working group and I assure you we will be reviewing all relevant research. We have had three meetings so far this year, with at least another two planned. At the conclusion of our deliberations, the community will be given an opportunity to comment. I will keep you advised of this. For those that are interested, we will soon display a list of all relevant research papers on the ARPANSA website. Suggestions for additional inclusions would be appreciated.

In addition, as a result of persistent lobbying by the EMR Association of Australia and others, ARPANSA has produced an "Electromagnetic Radiation Health Complaints Register" to give us all an opportunity of advising the agency of any adverse health effects we may have experienced from electromagnetic radiation, whether from power lines or mobile phones. Copies are available from its website, <http://www.arpansa.gov.au>.

... more Letters to the Editor

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

arpana.gov.au, or by telephoning +61 (0)3 9433 2211.

Bonny, your participation in this survey is essential. Tell them about your experiences as a canary! I hope other readers will respond, too. The survey is not limited to Australia.

3. Radiation from light ballasts: I'm sorry, but the ballasts of fluorescent lights only operate at a power frequency of 50 or 60 Hz and do not generate radiofrequency radiation. The radiofrequency is more likely adjacent to the ends of the tubes near the cathodes. The fields from the ballasts can be of great concern for a distance of about two feet, but they are not radiofrequency.

Thank you for your reference to the EMR Association of Australia and our quarterly newsletter. We have tried to keep it as factual as we can and we are always looking for new subscribers. The editor, Lyn McLean, is also the author of *Watt's the Buzz?*, a good book for those wanting to have an all-round knowledge of the subject of electromagnetic radiation in its many forms.

Best regards,

John Lincoln, BE Elect.,
Director, EMR Surveys P/L,
past convenor and technical
adviser, EMRAA, johnlincoln@
optushome.com.au, <http://www.emrsurveys.com.au>

Media Makeover on Liberia

Dear Duncan: A remarkable thing happened to me on August 11, 2003, around 9.00 to 9.30 am while I was watching CNN news. They decided to go to their reporter in Liberia and broadcast Liberian President Charles Taylor's departing speech live.

President Taylor, a "dictator" (dubbed by the corporate media), gave a moving story about a hungry lion that made deals with and then betrayed (ate) these three cows. Then, right after that, he warned his

people and the rest of the world that a One World Government is in existence and that this government has been making decisions about his government and other Third World nations in "foreign capitals". He said that the Liberian presidency and government were an illusion and that these people were the ones who dictated his country's policies and future!

President Taylor further went on to claim that the rebels were armed by the US State Department and encouraged to destabilise his government in an effort to strip his country of its natural resources, namely its gold and diamonds.

At this point, the news station cut back to Atlanta, where a very startled female reporter took several seconds to compose herself and pretend nothing had been said. They quickly moved onto a more important story about Ben Affleck and J-Lo breaking up! Fox News had cut the audio to dude's speech with their coverage and had their reporter boldly proclaim this man was "a liar" and "a dictator" and thus should not be trusted. Nothing more was said about the man's allegations on the nightly news.

I'm curious if NEXUS is going to do a report on this man's claims, because this seems to be the first current world leader that is interested in exposing these traitors. Anyway, keep up the good work.

Sincerely,

Roger T. Braun, Illinois, USA

Mysteries of the Outback

Dear Duncan: Firstly, I would like to thank you very much for informing those of us that wish to be better informed. Like the pebble in the lake, the rings of knowledge you help sow do travel very far.

Secondly, I wish to thank and apologise to the wonderful people of Australia. In 2000 and 2001, I overstayed my visa. My

intent was not to break your laws; however, the laws of spirit and nature seemed more important at the time. I even lost track of time out in the bush. Again, thank you to all for a great experience.

And for the curious ones, on my way to the centre of the country for Aboriginal initiation, I had time to do a walkabout and I explored as much as I could. While walking about 50 kilometres northwest of Alice Springs, I came across many dead animals, especially birds. My visions showed funny energy lines extending from the ground, reaching all the way to the Moon. Perhaps this is part of the HAARP program—and, if so, it was functioning back then. I also discovered some bunker-like doors that were positioned occasionally down the western MacDonnell Ranges.

One evening I came across a very large perenti. This beautiful albino animal looked like a large lizard and was approximately 12 feet in length. On another evening, a little hairy man grabbed my arm. This four-foot-high little fella was very intuitive and gentle, kind of childlike, but smelled very strong.

I had not heard stories of the perenti or the little hairy man until I started to tell my own experiences. Now I know that we humans don't know all of what is on this Earth plane, but with the right intent we can discover the rest of Gaia's mysteries.

Again, thank you Duncan and staff for your service to others. And thank you to the people, animals, plants and the land of Australia for the gifts.

Love and light, J.R., USA

Milled Uranium Warheads

Dear Duncan: Re NEXUS vol. 10, no. 5, Global News, "Were radioactive weapons used in Afghanistan?", below is an extract from the relevant part of

an article in the *Asian Times* of March 11:

"The only conclusion is that the allied forces are now possibly using *milled uranium ore* [my emphasis] in their warheads to maximize the effectiveness and strength of their weapons, as well as to mask the uranium, hoping that it may be discounted as part of any local natural deposits..."

Regards, Theo, Australia

Shift Work and Breast Cancer

Dear Editor: I am not sure if anyone has sent this to you yet. The British Health and Safety Executive (which we have problems with re monitoring base station emissions) commissioned a critical review of shift work and breast cancer. It concludes that there could be a "potential mechanism" between shift work and breast cancer due to altered light exposure (e.g., strip lighting) at night on levels of melatonin or other hormones that might affect cancer.

Professor Anthony Swerdlow, from the Institute of Cancer Research, who carried out the study, stated: "There is no doubt that exposure to artificial light decreases the level of melatonin..."

Having just read the report on the disappointing *60 Minutes* Dr French program, I think the circumstances of the "shift work/breast cancer" study are relevant. Claims that shift work could lead to breast cancer first emerged in Britain in 1987, although subsequent studies have failed to establish a definitive link. With two million British women in shift work and at risk, this "official study" confirms that there is a link, after 16 years. With all this concern over brain tumours, I think there is a far greater cancer risk to women from mobile phone use/base station emissions.

With best wishes,

Yasmin Skelt, England, UK,
yip@skelt.freemove.co.uk

MEASURING GLOBAL CONSCIOUSNESS

A notion that has influenced esoteric thought for centuries now forms the basis of a continuing, mind-boggling parapsychology experiment. Could our thoughts and intentions—before they become actions—alter the world?

During an EEG (an electroencephalogram), electrodes detect electrical signals transmitted between brain cells and record patterns of activity. This is not a measure of the mind itself, but of the electrical processes that somehow generate consciousness.

Now, imagine the Earth as a brain; humans, perhaps all life, as brain cells; and a network of random event generators (REGs, like high-speed, electronic coin-tossers) as electrodes. This is the Global Consciousness Project, and it appears to be measuring, well, something.

Begun in 1998, it now involves more than 75 networked computers, known as Eggs ("electrogaigrams"), in about 30 countries including the USA, UK, Russia, Fiji, Cuba and Romania.

The project grew from experiments by Dr Roger Nelson of Princeton Engineering Anomalies Research. For over 20 years, researchers at this leading parapsychology institute have been studying the effects of



human consciousness on REGs, demonstrating to their satisfaction that individual minds can subtly influence random mechanical processes and create deviations from expected chance results.

Nelson examined what happened to a REG when several people focused on a single event, at a theatre or sports stadium. The results were impressive but, perplexingly, the generator's location was irrelevant: the effects were present anywhere. REGs in America, for instance, were noticeably affected by Princess Diana's funeral in 1997.

Nelson's team claims that periods of widespread attention or concentration correspond to notable fluctuations in the Egg network's data. For example, significant results were recorded after the Turkish earthquakes of August 1999, on millennium eve, the 2000 US presidential elections, and September 11, 2001, when the GCP network responded in a "powerful and evocative way".

(Source: The Guardian, July 24, 2003)

CHINESE HERB FIGHTS MALARIA PARASITE

A hitherto unknown but vital weakness in the malaria parasite has been exposed by studying extracts from ancient Chinese anti-fever remedies. The discovery

opens a new front in the fight against the parasite, which has become resistant in most parts of the world to the most common anti-malarial drug, chloroquine.

Derived from the Chinese herb qinghao, or sweet wormwood (*Artemisia annua*), the extracts have already helped millions of patients in Southeast Asia who would otherwise have suffered or died when conventional drugs failed against malaria (*New Scientist*, 13 July 1996, page 4).

Now researchers have discovered how the drugs, called artemisinins, actually work, revealing a chink in the *Plasmodium falciparum* parasite's armour.

The chink is one of the two enzymes that enable the parasite to pump the correct amount of calcium into its cell membranes. "Artemisinin hits one of those pumps directly," says Sanjeev Krishna, head of the research team at St George's Hospital Medical School in London. Once the calcium pump has been disabled, the parasite dies within hours, although Krishna does not yet know the precise mechanism.

(Source: *New Scientist*, vol. 179, issue 2409, 23 August 2003)

IDENTITY THEFT ON THE RISE

A survey conducted by the US Federal Trade Commission estimates that more than 27 million Americans have been victims of identity theft in the last five years, including nearly 10 million in the last year alone.

According to the survey, businesses and financial institutions suffered losses of



... GLOBAL NEWS ...

nearly US\$48 billion last year. Consumers spent nearly \$5 billion in out-of-pocket expenses and nearly 300 million hours to resolve the problems created by identity theft.

According to the survey, 67 per cent of the respondents said their credit card accounts had been misused in the past year. Another 19 per cent said thieves had tapped into their checking or savings accounts.

Based on the survey results, the FTC estimates that, in the last 12 months, 3.23 million consumers discovered that new accounts had been opened and that other frauds such as renting an apartment or home, obtaining medical care or gaining employment had been committed in their name.

(Source: New York Times, September 3, 2003)

SMART-CHIP BIOMETRICS FOR NEW US PASSPORTS

A senior US government official has laid out detailed plans for the timing and form of US government-issued biometric passports.

Frank Moss, Deputy Assistant Secretary for Passport Services, presented his organisation's plans to evolve to a new, more secure "intelligent document" from today's paper-based passports at the Smart Card Alliance's Government Conference and Expo last week.

"Our goal is to begin production by October 26, 2004," Moss announced.

Current plans call for the new passport books to include a contactless smart chip based on the 14443 standard, with a minimum of 32 kilobytes of EEPROM storage. The chip will contain a compressed full-face image for use as a biometric. European biometric passports, by contrast, are planned to feature both retinal and fingerprint recognition biometrics on their smart cards.

For US passports, the image and the passport information stored on the contactless chip will be digitally signed to ensure the integrity of both the data and the passport itself.

With this approach, "you can read a chip and confirm its validity, but you cannot create one. That is the beauty of public key technology," said Moss.

Under the US Enhanced Border Security and Visa Entry Reform Act of 2002, countries whose citizens enjoy visa-free travel to the United States must issue passports

with biometric identifiers no later than October 26, 2004.

(Source: The Register, July 22, 2003, <http://www.theregister.co.uk/content/55/31885.html>)

VACCINES LINKED TO EPIDEMIC IN CHILDHOOD DIABETES

The prestigious peer-reviewed *Journal of Pediatric Endocrinology and Metabolism* published a study in late May by Dr J. Bart Classen, an immunologist at Classen Immunotherapies, and David Carey Classen, an infectious disease specialist at the University of Utah, providing support for a causal relationship between several common paediatric vaccines and the development of insulin-dependent diabetes.

Their previously published work proved that the haemophilus vaccine, a common paediatric vaccine, caused a 25% rise in insulin-dependent diabetes in children under the age of seven.

The Classens' research indicates most cases of diabetes caused by vaccines occur between 24 to 48 months after immunisation of young children, but the delay can be shorter in older children with prior damage to their pancreas.

The time delay between vaccination and diabetes corresponds exactly with work from several independent groups which showed a similar delay between the initiation of autoimmunity to the insulin-secreting islet cells and the development of diabetes.

For the latest information on the effects of vaccines on insulin-dependent diabetes and other autoimmune diseases, visit the Vaccine Safety website at <http://vaccines.net>.

(Source: Classen Immunotherapies, Inc., USA, press release, May 27, 2003, via PRNewswire.com)

CAMERAMAN KILLED FOR FILMING SECRET MASS GRAVE OF US TROOPS

On Sunday, August 17, US troops shot dead the award-winning Reuters cameraman Mazen Dana while he was filming near the US-run Abu Gharib prison in Baghdad.

Nazmi Dana, the brother of Mazen Dana, says Mazen was murdered for discovering and filming mass graves of US troops killed in Iraqi resistance attacks.

"The US occupation troops shot dead my brother on purpose, although he was wearing his press badge, which was also emblazoned on the car he was driving.

"Mazen told me by phone a few days before his death that he'd discovered a mass grave dug by US troops to conceal the bodies of their fellow comrades killed in Iraqi resistance attacks," Nazmi said.

"He also told me that he found many US troops covered in plastic bags in remote desert areas, and he filmed them for a TV program. We are sure that the American forces had killed Mazen knowingly, to prevent him from airing his finding."

(Source: IslamOnline.net, August 20, 2003)



... GLOBAL NEWS ...

CIA & DIA ACCUSED OF SECRET ELECTRONIC HEIST ON IRAQ'S CENTRAL BANK

The US CIA and DIA (Defense Intelligence Agency) are accused by *International Currency Review*, a UK-based journal, of mounting a joint, ultra-secret operation to electronically remove an estimated US\$10 billion out of the Iraq Central Bank just hours before the start of Persian Gulf War II. The whereabouts of the money is not known.

"We believe it is in a secret CIA fund which will be used to mount further special services operations," said the *Review's* publisher, Christopher Story.

Story was a financial adviser to Lady Thatcher when she was Britain's Prime Minister. In the past 10 years, he has testified before several congressional committees dealing with financial scandals.

The report published by the *Review* is titled "The Great Robbery of the Central Bank of Iraq". It has been sent to finance ministers of leading nations, the World Bank, the Bank of England and heads of all other major banks.

The operation, claims the *Review*, was masterminded by the CIA/DIA out of a military facility, Redstone Arsenal, in Alabama.

"The money was laundered through a number of CIA-controlled accounts, including some held in the Discount Bank

of Israel, Credit Suisse in Switzerland and the Dresdner Bank in Germany," said Story.

The *Review* also states: "The US Department of Agriculture is used as a paymaster for certain DIA 'black operations' because it has traditionally remained unscrutinised."

The *Review* says it has testimony from whistleblowers that the operation was designed to "...purloin the Iraq Central Bank's assets ahead of the arrival of US troops in Baghdad. This suggests that the operation was designed for a nefarious purpose, rather than to help use it for the rebuilding of Iraq."

After interviewing "a number of US intelligence operatives", Story confirmed he received warnings to stop his investigation. "I was told that '19 people are very dead as a result of trying to cover what you are exposing'," Story wrote.

(Source: Gordon Thomas, *American Free Press*, August 28, 2003, <http://globalresearch.ca/articles/THO308A.html>)

HEALTHCARE WORKERS REFUSE SMALLPOX VACCINATIONS

A plan to vaccinate nearly half a million healthcare workers in the USA against smallpox in case of a bioterrorist attack has ground to a halt. Over 90% of the 420,000 health workers have refused the jab.

The vaccination program, announced by President Bush last December, included mandatory smallpox vaccinations for half a million military personnel, and voluntary vaccinations for another half a million "first responders"—the healthcare workers needed to carry out emergency vaccination and treat victims during an outbreak.

But doctors and nurses have stayed away in droves. Major hospitals, such as the Virginia Commonwealth University Health System and the Children's Hospital of Philadelphia, have refused to have any

of their staff vaccinated.

It was also not clear whether there would be any compensation for staff needing time off or medical care due to vaccine complications. Such compensation has been approved in principle, but the details have still not been published.

The second phase, in which the vaccine was to be offered to millions more health-care workers and the public, was quietly shelved by the CDC in June, after recently vaccinated soldiers and civilians developed complications. There were 52 cases of pericardial or heart inflammation. There were also other heart problems, including eight heart attacks, three of them fatal, though this was in the "normal" range.

(Source: New Scientist, 23 August 2003)

BIOCIRCUIT BEHAVIOUR

Electronic circuits could soon be made from biological rather than inorganic materials. Researchers have found that molecules of guanosine, a building block of RNA, behave like tiny transistors.

Stefano D'Amico at the University of Lecce in Italy chose guanosine because its molecules tend to line up in strings that act as diodes, allowing current through in one direction but not the other.

When he placed guanosine molecules between two gold electrodes, the molecules self-organised into strips to bridge the gap, forming two diodes lying back to back—in effect, a transistor (*Microelectronics Journal*, DOI: 10.1016/S0026-2692(03)00197-6).

Sure enough, the strips behaved like a transistor when current was switched on.

(Source: New Scientist, 30 August 2003, <http://www.newscientist.com>)

DNA REPAIR DELAY RAISES X-RAY SAFETY FEARS

Assumptions about the safety of medical X-rays are being challenged by the finding that cells exposed to low doses of radiation don't bother to repair damaged DNA. That casts doubt on the validity of current estimates of safe doses, which are calculated from high-dose experiments.

A team at the University of Saarland in Homburg, Germany, exposed human lung cells to a range of X-ray doses. At higher doses of about 200 milligrays, cells repaired 95% of their damage within a day. But cells receiving around 1 milligray—equivalent to a normal X-ray—did not perform any repairs for days (*Proceedings of the National Academy of Sciences*, DOI:



"I fell below the minimum balance required on my cheque account for three consecutive bank statements. How about you?"

... GLOBAL NEWS ...

10.1073/pnas.0830918100).

Team member Kai Rothkamm thinks this apparent neglect might actually be a safety measure, since poorly executed repairs can cause dangerous mutations. "If only one cell in every 10 has sustained DNA damage, it may be safer just to let that cell die," he says. But at higher doses, repair becomes vital.

However, the opposite might be true: unrepaired DNA could pose a cancer risk. Rothkamm says more experiments are needed to resolve the issue.

Radiation authorities warn against reading too much into the finding. "We don't feel it would have any immediate effect on our risk estimates for X-rays," says Michael Clark of Britain's National Radiological Protection Board.

(Source: New Scientist, 5 April 2003)

MONSANTO ENGINEERS CONSUMER RIGHTS

Monsanto is suing Oakhurst Dairy of Portland, Maine, for labelling its milk "Our Farmers' Pledge: No Artificial Growth Hormones".

According to Monsanto, manufacturer of the genetically engineered recombinant bovine growth hormone (known as rBGH or rBST), Oakhurst Dairy does not have the right to let its customers know whether its milk is laced with GE hormones. Oakhurst says it's been labelling its products like this for four years, in response to consumer demand.

Although rBGH has been banned in every industrialised nation in the world except for the USA, Monsanto continues to claim that rBGH-derived milk is no different from the natural stuff, despite documentation that rBGH milk contains substantially higher levels of a potent cancer tumour promoter called IGF-1.

Monsanto sued two dairies and threatened several thousand retailers in 1994 for labelling or advertising milk and dairy products as "rBGH-free". Despite Monsanto's intimidation tactics, more than 10% of US milk is currently labelled as "rBGH-free", while sales of organic milk and dairy products (which prohibit rBGH) are booming.

In recent months, a Monsanto-funded front group, the Center for Consumer Freedom, has launched a smear campaign against organic dairies, claiming they are defrauding consumers.

(Source: Organic Consumers Assoc., July 23, 2003, <http://www.organicconsumers.org>)

SADDAM HUSSEIN FLOWN OUT OF BAGHDAD BY USAF

Intrepid independent filmmaker Patrick Dillon has returned from Iraq with some explosive interview and film footage, including of an Iraqi Army officer describing how he saw a US Air Force transport fly Saddam Hussein out of Baghdad.

The officer, who commanded a special combat unit during the battle for Baghdad airport, had been entrusted with the near-impossible job of ensuring that one of the airport's runways would remain operational, no matter what. He goes on to report that there was a ferocious battle at the airport, with losses on both sides far worse than the mainstream news services acknowledge. He deviates even further from officially sanctioned accounts by stating that the battle for control of the airport actually lasted several days longer than commonly believed, culminating around dawn on the morning of April 9th. The officer adamantly maintains that his combat/construction brigade, despite heavy casualties, managed to hold off US troops and preserve a usable length of runway right through the night of April 8th.

Then, early on the morning of April 9th, as the remnants of his unit were close to being overrun, a general ceasefire was unexpectedly declared for 6.00 am. According to the officer, shortly after this went into effect, and in broad daylight, a motorcade of 10 Mercedes stretch limousines suddenly barrelled onto the airfield, carrying Saddam and his entourage. Almost simultaneously, what the officer asserts were four USAF *Hercules* transports swooped down and landed on the lone stretch of intact runway. All four C-130s dropped their rear loading ramps and the limousines drove up into the cargo bays of the waiting planes, which then took off. The officer insists he has no idea where Saddam or any of the other members of his party may have gone.

Dillon says his film lends major support to what many have believed for years: that Saddam was little more than an American tool, a stage-managed "evil-doer"—just one in a long line of useful villains bought and paid for by the United States in order to better manipulate international politics and commerce.

GRUESOME SECRET WEAPON USED BY US FORCES IN BAGHDAD

Patrick Dillon also interviewed eyewitnesses to a nightmarish US superweapon employed by American ground forces during street fighting in Baghdad. The tank-mounted secret weapon was witnessed in all its frightening power by Majid al-Ghazali, a seasoned Iraqi infantryman who described the device and its gruesome effects as unlike anything he had ever encountered in his lengthy military service. In the film, al-Ghazali describes the weapon as reminiscent of a flame thrower, only immensely more powerful. He said it appeared to be shooting concentrated lightning bolts rather than just ordinary flames. Drawing on his many years as a professional engineer, al-Ghazali speculates that radiation of some kind probably figures into the weapon's hideous capabilities.

Like all men in Saddam's Iraq, al-Ghazali was compelled to serve in the Iraqi equivalent of the Army National Guard and fought in three wars over the past 30-odd years. He has seen virtually every type of conventional weapon employed in battle, and is well acquainted with their effects on people and machines. On April 12th, he and his family sheltered in their house while a fierce street battle erupted in his neighbourhood. In the midst of the fighting, he noticed that the Americans had called up an oddly configured tank.

Then, to his amazement, the tank suddenly let loose a blinding stream of what seemed like fire and lightning, engulfing a large passenger bus and three automobiles. Within seconds, the bus had become semi-molten, sagging "like a wet rag" as he put it. He said the bus rapidly melted under this withering blast, shrinking until it was a twisted blob about the dimensions of a VW bug. As if that were not bizarre enough, al-Ghazali explicitly describes seeing numerous human bodies shrivelled to the size of newborn babies. By the time local street fighting ended that day, he estimates between 500 and 600 soldiers and civilians had been cooked alive as a result of the mysterious tank-mounted device.

In a city littered everywhere with burned-out civilian and military vehicles, US forces were abnormally scrupulous about immediately detailing bulldozers and shovel crews to the job of burying the grim wreckage. Nevertheless, telltale remnants remained, as Dillon found when al-Ghazali later took him to the site. Dillon said they easily uncovered large puddles of resolidified metal and mounds of weird fibrous material that, al-Ghazali explained, were all that remained of the vehicles' tyres.

Dillon, who accumulated plenty of battlefield experience as a medic in Vietnam, and has since covered a number of wars from Somalia to Kosovo, told me that he has witnessed every kind of conventional ordnance that can be used on humans and vehicles. "I've seen a freaking smorgasbord of destruction in my life: flame-throwers, napalm, white phosphorus, thermite, you name it. I know of nothing short of an H-bomb that conceivably might cause a bus to instantly liquefy or that can flash-broil a human body down to the size of an infant. God pity humanity if that thing is a preview of what's in store for the 21st century."

(Source: by Bill Dash, August 25, 2003, via Jeff Rense website, <http://www.rense.com>)

THE ESSENTIALS OF ENZYME NUTRITION THERAPY

Food enzymes in raw food are vital for digesting that food, but their destruction during cooking is a key factor in today's rising levels of allergies and chronic degenerative diseases.

by Mark Rojek © 2003

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In August 1971, the US Department of Agriculture published "An Evaluation of Research in the United States on Human Nutrition; Report No. 2, Benefits from Nutrition Research". The US government spent approximately \$30 million analysing the relationship diet has to disease. According to the study:

- Major health problems are diet related;
- The real potential from improved diet is preventative;
- Benefits would be shared by all...especially by lower economic and non-white population groups;
- Major benefits are long range... Early adjustments of diet could prevent the development of undesirable long-range effects;
- There exist geographical, regional differences in diet-related problems.

It's now known that within a very short time after its release, all copies of the report were seized by the federal government. It was not until the campaign in 1993-94 for the Dietary Health Education and Supplement Act that a copy was mysteriously forwarded to the grass-roots organisation, Citizens for Health, to help in its fight to prevent the Food and Drug Administration from classifying food supplements as drugs.

Within any group that seeks control and power over a population, even health is a legitimate target. If you can manipulate the population's health or induce disease by modifying what they consume, you can create a pseudo healthcare system that seems to care but is busy making billions off disease that is relatively easy to prevent or cure through diet alone. With the multimillion-dollar backing of an industry, you can also discredit any alternative to current, popularly accepted treatments by labelling them "old wives' tales", "quackery" or "unscientific".

In 1988, "The Surgeon-General's Report on Nutrition and Health" addressed *the overwhelming evidence of the connection between diet and chronic disease*. In his report, then Surgeon-General C. Everett Koop wrote: "For the two out of three adult Americans who do not smoke and do not drink excessively, one personal choice seems to influence long-term health prospects more than any other: **what we eat...** *The weight of this evidence and the magnitude of the problem at hand indicate that it is now time to take action.* In the cause of good health for all citizens, I urge support for this Report's recommendations by every sector of American society." (Italics added.)

As reported in the *Journal of the American Medical Association* (vol. 280, November 11, 1998), a nationwide survey on the use of alternative medical therapies revealed that "[e]stimated expenditures for alternative medicine professional services increased 45.2% between 1990 and 1997 and were conservatively estimated at \$21.2 billion in 1997, with at least \$12.2 billion paid out of pocket". The article concluded that "[a]lternative medicine use and expenditures increased substantially between 1990 and 1997, attributable primarily to an increase in the proportion of the population seeking alternative therapies, rather than increased patient visits per patient".

Not only in America but in other countries, the populace is demonstrating a preference to what are referred to as "alternative therapies". People are seeking natural therapies, drawing upon cultural heritages of healing aligned with their own philosophies and beliefs. These therapies include acupuncture, herbal medicines (both Eastern and Western botanicals), homoeopathy, Reiki and other so-called energy treatments, and nutrition.

It has become overwhelmingly clear that diet and lifestyle influence health and disease. Yet, within the field of nutrition, there are differing opinions on just what constitutes a healthy diet. This is most evident with popular books on diets which flood the market. Is the

low fat/low protein, high complex carbohydrate diet that Pritikin advocated correct? Or is the Atkins diet with high protein/fat, low carbohydrate the one we should favour? Should we eat according to our blood type? What about raw versus cooked foods? Is soy good for you, or is it harmful? Do the media drive our choices through advertising? What about the "friendly" doctor staring from your television set, telling you how dangerous this herb or that vitamin is? Are nutritional supplements effective or not? The debate seems endless.

Over the last decade, sales of nutritional supplements have generated a US\$4 billion industry worldwide. Almost every month, new companies claim to have the "magic bullet" for what ails us. Multi-level/network marketing companies are quick to get on the bandwagon, knowing how much profit is available thanks to members of the baby-boomer generation who pride themselves on "looking good" and staying healthy, no matter what the cost. The rush to discover new drugs from medicinal herbs in Third World countries keeps pharmaceutical companies abreast of all that is under the sky.

Pioneers in Enzyme Nutrition Therapy

Within the field of nutrition, enzymes have become the buzzword. Every company now has its own "super-concentrated enzyme formula", and boasts how powerful it is and how it contains 10 times the enzyme power as the other company's product.

Yet, understanding enzymes and their role in human nutrition requires more than just knowledge of the chemistry. We also need to be familiar with the history and pioneers behind the development of enzyme nutrition therapy and the rationale behind its clinical use.

Historically, there is recorded evidence of diverse cultural groups developing foods high in concentrated enzymes. Many of these cultures discovered the health benefits of enzyme-rich foods because of trial and error and probably just plain luck, by leaving them out in the open for bacteria to work on them. Among these foods are fermented dairy products, such as yoghurt, kefir and various soured-milk products; fermented vegetables, such as European sauerkraut and Korean kim chi from cabbage; and soy products like miso and tempeh, which were first developed in Asia. In tropical countries, certain fruits such as papaya and mango were found to contain very high concentrations of enzymes, and have been used traditionally for the topical treatment of burns and wounds.

Nonetheless, it was not until the early 1900s that Dr John Beard, a Scottish embryologist, filtered the pancreatic liquid of freshly slaughtered young animals for the active enzyme content. He reasoned from observation that young animals had to have greater and more powerful concentrations of enzymes because the energy required for growth was greater. Dr Beard injected this concentration into veins, gluteal muscles and sometimes directly into tumour sites of cancer patients. He observed the rapid shrinkage of tumour masses and cancer cell growth inhibition. Some patients experienced allergic reactions because the unpurified juice contained foreign proteins. In spite of this, more than half of the cancers completely disappeared, while other patients' lives greatly improved and

were prolonged far beyond what was expected.

Dr Beard's enzyme treatment caused turmoil in the allopathic medical community in England. He was called a charlatan and received threats to close down his practice. However, patients of other doctors requested Dr Beard's enzyme treatment. To satisfy them, doctors ordered pancreatic juice from local pharmacists who, in turn, ordered it from the slaughterhouses. Doctors were sold pancreatic juice from older animals whose enzyme content was inactive. Unfortunately, the results were not successful and patients were very disappointed.

In all, Dr Beard treated 170 cancer patients and recounted his enzyme therapy in his book, *The Enzyme Treatment of Cancer and its Scientific Basis*, published in 1907.

Not much followed from the early part of the 20th century. Indeed, it was not until the 1930s that clinical use of enzymes began to pique the interest of a few physicians.

In 1930, at the First International Microbiology Conference, held in Paris, Dr Paul Kautchakoff, a Swiss doctor, presented a paper entitled "The Influence of Food Cooking on the Blood Formula of Man". In it, he explained how digestive leukocytosis occurred every time cooked food was ingested by subjects of differing age and sex. This phenomenon was observed in patients as early as 1843 and was considered a normal occurrence.

Digestive leukocytosis is the dramatic increase in the amount and activity level of white blood cells (leukocytes) in the blood due to a stimulus—that stimulus being undigested cooked food crossing the gut wall. With canned and cooked foods, the increase was moderate. With heavily processed foods such as packaged meats, the increase was identical to food poisoning! The only difference was the absence of the bacterium associated with food poisoning. Cooked foods are missing essential enzymes which prevent adequate digestion. Dr Kautchakoff made note that there was no increase leukocyte count/activity in subjects who ate only raw food. This is because *all raw food contains food enzymes which completely digest what we eat*.

From 1932 to 1942, Dr Francis Pottenger, Jr, of Monrovia, California, began one of the most intriguing clinical studies undertaken in the field of nutrition. His study ran for 10 years, covering four generations of over 900 cats. In this groundbreaking study, Dr Pottenger simply controlled the food cats were fed. The original group was fed raw, unpasteurised milk, cod liver oil and *cooked* meat scraps. The other two groups were fed uncooked meat/*pasteurised* milk and *cooked* meat/*pasteurised* milk respectively. The fourth group was fed uncooked, raw meat and raw, unpasteurised milk.

Dr Pottenger's observations should have shaken the foundations of modern medicine. Nonetheless his work, like that of so many others, has largely been ignored. He meticulously recorded his observations with exacting measurements and photographs. Here is a brief summary of his discoveries. In the group of cats fed only raw food, there were no chronic degenerative diseases! The cats lived to grow old and were easily handled. They primarily died of old age, living much longer than cats from the other groups.

Dr Pottenger's observations should have shaken the foundations of modern medicine. Nonetheless his work, like that of so many others, has largely been ignored.

In the first generation of the combination cooked-food groups, cats showed symptoms of chronic degenerative disease that we are familiar with: allergies, asthma, arthritis (both rheumatic and osteo), cancers, heart disease, kidney, liver and thyroid disease, dental disease and osteoporosis. The second generation manifested the same diseases, albeit even more severely. Most kittens were stillborn or born with disease, and died within six months in the third generation. By the fourth generation, the study ended because the cats were infertile and could not reproduce.

In drawing his conclusions, Dr Pottenger reported the underlying nutritional factor had to be a "heat-labile substance". Unfortunately, he had not deduced them to be enzymes, because so little was known about them at the time.

In the early 1930s, a "special substance" was discovered in the blood of healthy individuals which was proficient at attacking and destroying cancer cells. However, this substance was found only very slightly or was missing altogether in patients suffering from cancer. Working during those years in New York, Dr Max Wolf became one of the most celebrated doctors of his time. He was fascinated to hear of this substance and began investigating on his own. He convinced Dr Helen Benitez to join him from her post in the neurosurgical department at Columbia University, and they performed thousands of tests to determine exactly what this substance was. They concluded it had to be enzymes.

Dr Wolf then had to isolate which of the many dozens of known enzymes were responsible for several activities, i.e., controlling inflammation, correcting degenerative disorders and breaking down cancer cells. After years of testing various enzyme mixtures on animals, with no harmful reactions, he was able to offer his enzyme therapy. It soon earned him a reputation with many famous clients in politics and the arts. Even a few Presidents and European leaders sought him out. He developed one of the most widely used enzyme products available—Wobenzyme™.

At the same time that Dr Pottenger was overseeing the clinical study in California and Dr Wolf was researching in New York, Dr Edward Howell of Chicago was questioning the use of cooked, processed food for human consumption. He found that heating food to 118°F (245°C) for more than 15 minutes destroyed all the enzymes. Obviously then, heating foods at higher temperatures for shorter periods also destroys enzymes. The current technology of "flash pasteurisation" of milk and juice is an example.

Enzymes are the only substances capable of digesting food. They exist in raw food in order to digest (break down) that food.

Enzyme Deficiency and Degenerative Disease

In 1940, Dr Howell posed the question, "Is chronic degenerative disease a matter of severe enzyme deficiency?" To this end, he spent the rest of his life researching and documenting clinical work throughout the world, and he answered his query with a resounding "Yes!"

In the early 1940s, Dr Howell created the first manufacturing facility for the production of plant-based enzymes. While Drs Beard and Wolf used animal-based enzymes produced from the pancreas of animals, Dr Howell used certain species of fungus to "grow" highly concentrated plant-based enzymes. This is where animal- and plant-based enzymes become markedly different in their clinical

use. And this is where Dr Howell's observations and research have made all the difference in the world of enzyme nutrition.

Dr Howell wrote two books reporting his life's work: *Food Enzymes for Health and Longevity* and *Enzyme Nutrition*. Some of the most important revelations about enzymes, nutrition and physiology are contained in these pages. He noted that all mammals have a pre-digestive stomach; he called it a "food enzyme stomach". In humans, it is the uppermost portion of the stomach—the fundus or cardiac portion. It is here that enzymes found in raw food pre-digest what has been ingested. Enzymes secreted from saliva and other glands will likewise pre-digest some of the cooked food consumed. However, when cooked food is eaten, enzymes will be supplied from other organs to digest the cooked food. This produces a constant drain of enzymes from the immune system and other important organs. When this happens over a lifetime, organs fail and are overcome with "disease".

Howell discussed organ hypertrophy, noting that any organ or gland will grow more cells, becoming larger because the demand placed on it exceeds its ability to function. He found that, in particular, the pancreas in humans was 2–3 times heavier and larger in proportion to body weight as compared to the pancreas of other mammals. He attributed this to consumption of an excessive amount of cooked foods.

When enzymes are not present in the stomach for digestion, food passes into the duodenum, the upper portion of the small intestine, where enzymes secreted from the pancreas digest the food. This is the common teaching in medical

schools. But what if the pancreas was not meant to be the major digestive enzyme organ? What if digestion was meant to take place in the stomach, with enzyme-rich food?

Dr Howell cited studies suggesting this to be the case. Because food is not digested in the stomach as Nature intended, the burden then falls to the pancreas, causing it to hypertrophy. If the burden continues for long enough periods, it may lead to pancreatitis or other more serious ailments.

Howell referred to what he called "the law of adaptive secretion of digestive enzymes"—that the body will secrete exactly the right amounts and types of digestive enzymes depending upon what type of food is ingested. Eating a piece of cheese will produce more fat-digesting enzymes than would be produced if eating a piece of bread, which is primarily a starch and requires a starch-digesting enzyme.

Dr Howell remarked that during the early part of the 20th century when zoos were being developed to house captured wild animals, the death rate was very high. It was found that animals in their natural habitat ate everything raw. They were now being fed cooked foods and experiencing many new diseases unknown to their counterparts in the wild. It was found that the enzyme content of saliva from animals in the wild was either hardly there or missing altogether. On the contrary, captured animals fed cooked foods had very high enzyme content in their saliva. The animals were being forced to secrete enzymes from other organs to digest the cooked food. When their diets were changed back to mostly raw foods, the enzyme content in their saliva was reduced and the death rate dropped significantly.

Before Dr Howell passed away in the late 1980s, Dr Howard Loomis journeyed to Florida to spend time with him. He had been

The body will secrete exactly the right amounts and types of digestive enzymes depending upon what type of food is ingested.

asked by Dr Howell's original manufacturing facility to formulate a professional line of enzymes. Dr Loomis had become frustrated with the use of nutrition in clinical practice. There seemed to be no rhyme nor reason in administering minerals, vitamins or herbs to those in his care. As he said: "A patient comes in with a cold and you give him vitamin C, and within a week he's feeling better. Another person comes in with a cold and takes nothing. Seven days later, she's fine." Everywhere one looks, the common discussion centres around deficiencies. "Oh, you have this or that mineral or vitamin deficiency: take some of these."

Nutrition today is practised much like pharmacology is. For every symptom, there is a corresponding deficiency. The solution, then, is to take more of a particular mineral or vitamin. It is a matching game, much like with pharmaceutical drugs. And while it is true that in certain cases a deficiency can relate to a symptom, it is not rock-solid evidence of a deficiency. "I have a deficiency in relation to what—another mineral or vitamin? Isn't it possible I have an excessive amount of something?"

Making Sense of Decades of Misdiagnoses

The progression of differing diagnoses over the last few decades is an example of how symptoms alone can be misleading when it comes to finding root causative factors in disease.

In the 1960s, one of the common diagnoses in Western societies was hypoglycaemia or low blood-sugar levels. Blood sugar is composed of glucose which is metabolised from protein by the liver. Doctors told their patients simply to eat more protein. And while it is true that low blood sugar can be the result of inadequate protein intake, no one ever suspected it could be the result of an inability to digest protein completely, i.e., a protein digestive enzyme deficiency. So even if you increase the patient's protein intake, what good is it doing if they cannot digest it adequately? Was it a *protein* deficiency or a *protease* deficiency which caused the low levels of protein leading to hypoglycaemia?

In the 1970s, vitamin B12 deficiency was a popular diagnosis. Many of the symptoms of B12 deficiency match those of hypoglycaemia. These include fatigue, inability to concentrate, irritability, headaches, confusion, tremors and even cold sweats. Patients were given vitamin B12 shots to alleviate the symptoms. A major concern with vegetarianism is the high incidence of vitamin B12 deficiency that's been documented.

One of the functions of protein in the blood is that of a "universal carrier". Protein transports vitamins, minerals, enzymes and hormones throughout the body. Not having enough blood protein to transport these substances would lead a doctor to diagnose a patient with a particular imbalance or illness. The underlying assumption in the medical world is that patients' digestions are working fine—unless, of course, they complain to the contrary. Nevertheless, if patients have inadequate protein levels, even though blood tests are within reference range, they still may not be transporting or utilising vitamin B12.

Moving into the 1980s, most everyone had become infested with yeast/fungal organisms and/or parasites. Normally, various micro-organisms inhabit the digestive tract and are kept in balance by "friendly" micro-organisms like *Lactobacillus* and *Bifidobacterium*. Many of the symptoms of this new diagnosis were, again, very

similar to hypoglycaemia and vitamin B12 deficiency.

When it comes to immune system function, protein is the most essential nutrient. White blood cells, cellular complements and many other aspects of this system are dependent upon protein. Enzymes themselves are composed of protein and minerals. Additionally, Dr Howell reminds us of this "vital force" inherent in enzymes. These microscopic entities we are dependent upon have something of an almost mysterious nature. Various white blood cells use enzymes literally to digest what they come up against in our bodies. These processes are known as *pinocytosis* and *phagocytosis*. After engulfing an offending pathogen or allergen, white blood cells secrete enzymes that destroy and digest it. If the majority of enzymes from the immune system are being redirected to digest food, how is it possible to maintain healthy immune system functions?

As the 1990s progressed, patients were told they must have an environmentally induced illness, which could include allergies and hypersensitivities. Patients were told to avoid everything they were allergic to and take enormous amounts of supplements. Usually this resulted in extremely limited diets and very expensive bills. New "energy" techniques were developed supposedly to remove blocked energy and rewire the nervous system to allow for accepting the allergen into the body without the overt reaction.

If we look at allergies from an enzyme point of view, it becomes

Allergies are the body's reaction to something entering via the blood, skin, nasal cavity or other source.

apparent why so many of these techniques work only temporarily. Allergies are the body's reaction to something entering via the blood, skin, nasal cavity or other source. When something enters the body in a healthy person, the immune system is called upon to investigate and clear the allergen (substance) from the body. This happens without any notice. Because there are enough enzymes available in a healthy person, the allergen can be cleared unobtrusively. In someone with an allergic response to the same substance, the immune system is called to do the same work but finds it cannot handle the request. In a person

who exhibits an allergic response, there are not enough enzymes available for the white blood cells to break down the allergen and rid the body of it. They then experience the typical histamine response, including reddening of the eyes or local tissue, heat, runny nose and pain.

People with allergies of an airborne source are typically those with a history of excessive sugar and simple carbohydrate intake. Someone with this problem has depleted their reserves of the enzyme amylase. Amylase is an IgG histamine blocker. Like bioflavonoids, amylase stabilises the mast cells and basophiles that release histamine as a reaction to the damaged area. *Antihistamines* are what these types of patients get from their doctors.

Finally, in the last five years or so, patients were tested for something called "Syndrome X", which happens to bear a striking resemblance to type II diabetes. Syndrome X patients exhibit excess weight, cardiovascular issues, lightheadedness and elevated glucose levels, among other symptoms. If this is actually another name for diabetes II, it should be apparent how symptoms are only one aspect of proper diagnostics.

What the examples above point to are signs and symptoms of distress in the body. Looking more deeply, one finds the same phenomenon exhibited in Pottenger's cat study and Howell's life research: namely, that signs and symptoms of disease are proof of

chronic enzyme deficiencies! It is like coming upon a car accident and seeing the wreckage, but not knowing exactly how it happened. The medical profession is seeing evidence of enzyme deficiencies but is unable to correlate them to the actual disease. Governed by their training in schools biased towards pharmaceutical drugs, surgery, radiation and the latest in genome biotechnology and nanotechnology, doctors today are further away from realising the truth of how the body can go out of balance and end up in a diseased state.

When Dr Loomis asked Dr Howell what the symptoms were for a particular enzyme deficiency, Howell did not have an answer. He had not linked up the signs and symptoms of enzyme deficiencies. Dr Loomis left with many unanswered questions and began the work that has developed into Enzyme Nutrition Therapy. After 20 years of clinical work in the field of enzymes, Dr Loomis is considered the foremost living authority. His trained associates continue adding to the body of work he pioneered. Enzyme Nutrition Therapy is a scientifically sound system of assessing enzyme deficiencies in patients. Loomis has taken Howell's baton, carried it to the next stage and continues to push it to a higher level.

Over time, as Dr Pottenger observed in his study of cats, the continued use of cooked, enzyme-deficient food not only leads to enzyme deficiencies but also to subsequent generations of subjects with disease that's more intense with each generation. Could this explain why 40 to 50 years ago childhood asthma and allergies were rare, but today they affect the majority of children? What about obesity? Or infertility? The percentage of infertile couples has risen sharply in the last several decades. And while environmental toxins may play a part in this, are we now not seeing the results of generations fed excessive amounts of cooked food—as Drs Howell and Pottenger foresaw?

Without ever knowing it, Drs Howell, Pottenger and Wolf confirmed each other's work and left a legacy upon which Dr Loomis has demonstrated the solution to humanity's many ills—that enzymes are the key factors in health and healing, but their destruction by heat leads to chronic degenerative disease.

Enzymes – the Vital Labour Force

Dorland's Illustrated Medical Dictionary (28th edition) defines an enzyme as "a protein molecule that catalyses [increases the velocity of a chemical reaction...] chemical reactions of other substances without itself being destroyed or altered upon completion of the reactions". While this may seem to be definitive, it does not clarify why an enzyme can do what it does, nor how a protein can become an active enzyme. In other words, if an enzyme is simply a protein molecule, why not manufacture enzymes synthetically?

The trouble begins here because, to date, no one has successfully created an enzyme from synthetic material. Enzymes can only be created from living, organic material. It is evident that there is something more to enzymes than can yet be accounted for scientifically.

Dr Howell observed enzymes giving off a "luminescent glow"

when actively working. He is famous for his statement, "Life itself could not exist without enzymes". He surmised that there is a "vital force" inherent in all living beings, as demonstrated by enzymes. For ages, humans have observed and deduced a "divine innate force" common to all living things. Animation of animals and plants separates us from the soil, dust and rocks on which we move around.

Enzymes are considered the "labour force" in living things. They are the only substances capable of doing work. They are busy putting things together or splitting them apart. They initiate, speed up, slow down or stop all biochemical processes in living beings. Enzymes are very specific in how they work on a substrate (the component upon which they work). This has often been referred to as a "lock-and-key system". The substrate is the lock, while enzymes are the keys that fit precisely into the lock. They can only work on the exact substrate.

Enzymes are classified into several groups. Hydrolytic enzymes are the most relevant in clinical nutrition, and they are of three major groups:

- 1) **Digestive enzymes**—manufactured by digestive organs to assist in digesting food;
- 2) **Food enzymes**—found in all raw, uncooked food;
- 3) **Metabolic enzymes**—manufactured by all cells to carry out their respective functions.

Although there are many classes and subclasses of **digestive enzymes**, there are four general enzymes considered here:

- **Amylase**—digests starches, including grains and starchy vegetables;
- **Cellulase**—breaks down plant fibre;
- **Lipase**—splits apart fats and oils into fatty acids;
- **Protease**—breaks down protein into amino acids and small-chain peptides.

Probably the most familiar of the amylases is lactase. People who are lactose intolerant are both deficient in and lack the ability to manufacture this enzyme.

All the above, except cellulase, are manufactured in the human body. Cellulase must come from the plants themselves, which is why it is so important to chew one's food thoroughly.

Cellulase is trapped inside the fibre itself

and must be liberated in the chewing process—otherwise, one experiences the gas and bloating common to those, especially the elderly, who cannot digest raw foods. Juicing fruits and vegetables also extracts cellulase from the fibre. But the need for plant fibre in a world where many are dependent on laxatives cannot be overstated and may outweigh unnecessary juicing.

All raw, uncooked foods contain the exact types and amounts of enzymes necessary for their breakdown (digestion). Fruit ripening is the consequence of enzymes slowly breaking down the fruit's contents. If it has gone too far before we consume it, we say it is "rotten". There are optimal times when fruit should be harvested and consumed. But due to "shelf life", fruit is picked unripe and left to ripen in the warehouse or grocery store. In this case, the vitamin, mineral and enzyme content is inadequate and not desirable from a nutritional point of view. One study found that plants gave up their enzyme structures to return the mineral portion of them back to the soil since it was lacking in minerals.

Enzymes are the most heat-sensitive nutrients. As mentioned

Enzyme: "a protein molecule that catalyses chemical reactions of other substances without itself being destroyed or altered upon completion of the reactions".

— *Dorland's Illustrated Medical Dictionary* (28th edition)

earlier, food enzymes are generally destroyed when heated at 118°F (245°C) for longer than 15 minutes, and this happens whether the food is baked, boiled, broiled, canned, fried, pasteurised, roasted, steamed or especially microwaved. Dr Howell observed this and reasoned that enzyme-deficient food must force the body to use up metabolic enzymes to digest food. He compared it to a bank account. If you continually drain your resources and never replenish your holdings, at some point you are bankrupt. In the case of enzymes, degenerative disease occurs, with old age following soon afterwards. We are told all the time, "Oh, your symptoms are related to old age; better get used to it". Culturally, this seems true because we have observed it since childhood. We even expect to grow old with the accompanying health issues associated with old age because we have been told so.

Granted, our progression from infancy through adolescence and adulthood involves changes and the appearance of "ageing". But what if there were substances naturally occurring in the food and within our bodies that were responsible for the rate at which we grew older? Dr Howell equated that the length of life was proportional to the amount of enzymes exhausted in digestion. In other words, one's length of life is influenced by how much our metabolic enzymes are used to digest cooked food. Since enzymes are shifted from their metabolic uses, especially from the immune system, to digest cooked food, we will age faster. Could this be what Ponce de León was looking for in his legendary "fountain of youth"? Some researchers may have given us a clue.

In the 1980s, Dr Roy Walford of UCLA conducted numerous laboratory experiments on animals. He reduced their food intake and found that their length of life extended beyond what was considered normal. He suggested that all one had to do was not eat so much in order to have a healthier and longer life. Walford stated the obvious, but he may have missed the real point.

Dr Howell found that in fasting there is an increase in available enzymes in the body due to the lack of food, especially cooked food. In the absence of food, the body has more enzymes for repair and healing. As an example, there are approximately 64 different types of enzymes circulating in the blood to clear waste and prevent the build-up of plaque. When the body is short-changed of these enzymes, there will be an unnatural build-up of plaque. Why would there be a lack of these enzymes in the blood? When cooked food is eaten, enzymes for digesting it must be found somewhere in the body. It is here that metabolic enzymes are shifted from their normal functions to the role of digestion, leaving the body primed for future disease.

Signs of Enzyme Deficiencies

Symptoms of mineral and vitamin deficiencies occur relatively quickly. They are recognised to cause specific illness. Enzyme deficiencies, outside of genetic or birth defects, take longer periods to be noticed and have only begun to be recognised in some circles of the medical community. What, then, are typical signs and symptoms of the more common enzyme deficiencies?

- **If you have problems digesting carbohydrates**, you may experience airborne-sourced allergies, diarrhoea, fibromyalgia or attention deficit disorder (ADD or ADHD).

- **If you cannot digest fats**, you may experience constipation,

gallbladder problems, heart disease or hormone imbalances.

- **If you cannot adequately digest protein**, you may experience constipation, arthritis or other inflammatory conditions, anxiety or panic attacks, premenstrual syndrome or immune system disorders.

- **If you are unable to break down plant fibre**, you may experience constipation, eczema or other skin-related problems, recurrent yeast/fungal infestations or excessive weight gain.

The above conditions are also the result of diets high in those foods associated with the enzyme deficiency. In fact, the foods one craves are those that create dietary stress due to one's inability to digest them completely. They are also the foods one has either allergies or hypersensitivities towards because of the failure to be able to digest them, i.e., because of the deficiency of that particular enzyme.

People may crave certain foods because of the enzymes found within the food, which the body needs. But being cooked and destroyed, those enzymes do nothing for the craving—so we eat more of the same thing, telling ourselves we should not.

To be continued...

Food enzymes are generally destroyed when heated at 118°F (245°C) for longer than 15 minutes.

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About the Author:

Mark Rojek began researching alternative therapies in 1970. His studies included botanicals, mineral and vitamin requirements and diet. He interned in acupuncture with Dr Bell in Windsor, Ontario, Canada, in 1973, and graduated in 1978 with a Bachelor of Science. He studied aromatherapy, kinesiology, massage therapy and classical homeopathy in England.

In 1986, Mark began formal studies in traditional Chinese medicine, especially acupuncture. In Chicago, he worked with several holistic physicians as a medical technician and maintained a private nutritional practice. Also in 1986, he met Dr Howard Loomis, foremost living expert in enzyme nutrition, and continues to work with him. He works with several doctors in Michigan who refer to him and seek his counsel. He continues to research, lecture and counsel clients in nutrition and diet.

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— NONI —

THE TROPICAL CURE-ALL PLANT

**Traditionally used
in the Asia-Pacific
region and more
recently in the
Western world, the
noni plant is prized
for its curative
powers in treating
everything from
arthritis to wounds.**

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Keying the word *noni* into an Internet search engine will return a plethora of information on the juice as a miracle solution to almost any medical problem. One could almost be forgiven for thinking it is no more than an aggressively marketed, foul-tasting sham. However, a closer examination reveals a plant used for centuries in medicinal remedies throughout the Pacific and Asian region, which more recently has gained credibility in both holistic and medical circles.

Morinda citrifolia (Rubiaceae) is a plant used traditionally in the Pacific area, particularly in Polynesia. It is commonly known as noni, but also by other names such as *Indian mulberry*, *ba ji tian*, *nono*, *nonu*, *cheese fruit* and *nhau* (Wang et al., 2002, p. 1128). The tree or shrub grows 3–6 metres tall and has large glossy leaves. Ripe fruit are pale yellow in colour, 3–4 centimetres in diameter and 5–10 cm long (CTAHR/University of Hawai'i website), and when mature have "a foul taste and odor" (Wang et al., 2002, p. 1128). The fruit is composed of hexagonal sections, each one where a flower once grew (Armstrong). A noni tree can produce fruit within 9–12 months of the time of planting, and in warm climates such as Hawaii can bear fruit all year round. The plant can be found in coastal areas up to 1,500 feet (457 metres) above sea level and tolerates salinity and brackish water. (CTAHR)

There are various theories on noni's origin, with some stating it is native to the Pacific and others asserting it was transported by humans from Southeast Asia. It is also said to be native to Australia (CTAHR) and there is evidence to suggest the plant originated in New Caledonia (McClatchey, p. 110). Because the seed contains an air sac at one end, the plant may have been naturally distributed throughout Polynesia. British explorer Captain James Cook observed noni being eaten in Tahiti in the late 1700s, and a British publication of the 1800s noted that noni was eaten in Fiji. According to later sources, *Morinda citrifolia* was consumed "throughout the Pacific Islands, Southeast Asia, Australia and India", with Australian Aborigines reportedly "very fond" of the fruit. The Burmese used noni in curries or ate it raw with salt. (Wang et al., 2002, p. 1128)

TRADITIONAL POLYNESIAN USES OF NONI

Will McClatchey of the Department of Botany and Cancer Research, University of Hawaii, spent time researching noni on Rotuma, an island north of Fiji. He saw the community as the most isolated and traditional he'd experienced in the Pacific. *Morinda citrifolia*, or 'ura to the locals, is used in a variety of ways and is the most commonly used plant medicine (McClatchey, pp. 114-115).

Leaves

Leaves may be used as a bandage once heated over a fire, as the leaf will then stick to itself. Chopped and macerated leaves are also put onto wounds. They are directly applied to treat burns and massaged into the head for headache and fever.

Newborns are covered in the leaves to promote breathing if help is needed, and new mothers are covered in a mixture of 'ura leaves boiled in coconut oil and mixed with turmeric powder for the "promotion of good postparturition health of the mother".

Noni leaves are also tied directly over skin when a broken or dislocated bone is set in place before splinting. Leaf juice is applied after a cleansing solution to stop bleeding caused by bone punctures. A concoction containing noni leaves is used in the treatment of skin disorders such as fungal infections.

The leaves are also used as a remedy for stonefish spine poisoning. Young leaves are pounded together with cleaned usogo plants and wrapped in a cloth with added coconut oil. The cloth is then wrapped with two noni leaves and heated over a fire. After the wound is enlarged with a knife, juice from the leaves is dripped directly onto the affected

area and also massaged from the surrounding area towards the wound. The whole process from preparation to pain relief is completed in around an hour.

Roots

Noni roots are also used in the treatment of stonefish spine poisoning. Clean 'ura root scrapings are wrapped in an *ununu* (a type of cloth made from coconut fibre) and sap from the leaf of a majila plant dabbed on the affected area after it has again been enlarged with a knife. The noni juice solution is then dropped into the wound. Pain is said to dissipate within five minutes of application and the inflamed area returns to normal within a few hours. Any leftovers from the mixture used in the procedure are to be disposed of in the sea.

Badly infected cuts are also treated with 'ura root prepared in the same way for a bone puncture and dripped directly onto the wound. Bubbling occurs, believed to be a sign of the infection being drawn from the area.

Fruit

Immature or green fruit juice is used externally in combination with other remedies or alone for treatment and pain relief of sores around the mouth. For sores inside the mouth, a concoction of noni juice and coconut oil is wrapped in an *ununu* and banana leaves and then heated. The juice is squeezed out and consumed. Larger doses of the same solution are given to children to induce vomiting where it is deemed necessary in conditions such as throat infections, for release of mucus, etc. Crushed, ripe fruits are applied in the treatment of cracked and peeling feet. (McClatchey, p. 115)

Rotumans also use pounded noni fruit mixed with water as a cough syrup for children, and boils are treated by leaves soaked in oil (United Nations University).

Hawaiian traditional uses of noni fruit have included topical application to treat skin conditions, sometimes with added salt or heating; the fruit was added to other remedies and consumed to cleanse the body, purify the blood and treat tuberculosis. Diluted juice is also reported to have been used to treat diabetes, heart trouble and high blood pressure. Women's breasts were covered with heated noni leaves and a prayer said to induce lactation. (McClatchey, p. 116) Bark extracts were used in the treatment of ringworm (McClatchey, p. 112). A red pigment contained in the bark and a yellow pigment from the roots has been traditionally used for dying cloth. Hair was washed with extracted noni oil for insecticidal purposes, and noni fruit used as "famine food". (CTAHR)

Australian Aborigines traditionally used *Morinda citrifolia* as an antiseptic and wound dressing and to treat colds and diarrhoea; a yellow dye was extracted from the roots (Lindsay).

NONI AND TRADITIONAL CHINESE MEDICINE

Wang et al. note that "[d]ue to the limited scientific data, the *Yin/Yang* theory may be the best way to explain the beneficial effects of the Noni plant through the regulation of balance between *Yin and Yang*".

A balance of yin and yang is necessary for a healthy body. In traditional Chinese medicine terms, noni "...is able to tonify Qi, clear heat and toxins, and invigorate the blood. The properties of this plant are sweet, stinky, and neutral. Noni enters the lung, spleen, liver, and kidney meridians". This means that *Morinda citrifolia* can be used to treat many health conditions (Wang et al., 2002, pp. 1137-1138).

RESEARCH INTO NONI'S BIOCHEMICAL PROPERTIES

One of the most common marketing claims found on the Internet regarding noni is that the reason it is so effective is because it contains a substance known as *xeronine*.

Dr Ralph Heinicke identified this enzyme when he was studying pineapples and searching for an unknown ingredient found in bromelain. He named the new alkaloid xeronine. He named the precursor to xeronine *proxeronine*, and noted that although "noni fruits have a negligible amount of free xeronine, they contain appreciable amounts of the precursor of xeronine". Heinicke advises that noni should be taken on an empty stomach because otherwise the pro-enzyme may not become properly activated, therefore not reaching the intestine. He notes that "years of research" are needed to "demonstrate convincingly how xeronine functions at the molecular level in a cell". (Heinicke, 2002)

Dr Neil Solomon explains Heinicke's work by stating that noni acts as an adaptogen, enabling sick or weakened cells to return to normal. He gives an example of how this may happen in the case of either an overactive or underactive thyroid, explaining that "an adaptogen, such as noni, could help increase the body's production of the thyroid hormone and bring the body back to homeostasis, or normal balance". (Solomon, 2002)

McClatchey cites Heinicke's initial report on xeronine, published in the *Pacific Tropical Botanical Garden Bulletin*, commenting that it is unreferenced. "It is interesting that this seemingly biochemical report is published in the bulletin of a botanical garden, because it may have been better published in the 'Journal of Irreproducible Results'. No chemical

structure is given for the 'alkaloid' xeronine, although many results are discussed without a clear indication of the scientific research from which they are derived." In addition, McClatchey notes that he has "not located any subsequent publications reporting a structure for xeronine or proxeronine, although much chemical work has been conducted". He believes that if this is the case, "Heinicke's report should be in question. If, on the other hand, xeronine is described, then this may lend support to his other findings and open the door for production of specific commercial products". An editor's note accompanies McClatchey's work, stating that xeronine and proxeronine were not found during extensive searches of various scientific databases. (McClatchey, 2002, pp. 116, 117, 120)

Australian Noni juice supplier, Tree of Health, commissioned the Centre for Phytochemistry at Southern Cross University, New South Wales, to "investigate noni juice and noni fruit powder to determine a baseline fingerprint of the compounds contained in noni". The results showed the presence of a substance known as *scopoletin*, which acts as an antioxidant, lowers cholesterol and exhibits vasodilating properties. Because *scopoletin* can dilate constricted blood vessels, "high blood pressure can be normalised and less wear and tear on the cardiovascular system results". Glycosidic compounds were found, and one known as *asperuloside* is traditionally used to reduce water retention, inflammation, varicose veins and phlebitis.

Polysaccharides such as glucuronic acid, galactose, arabinose, rhamnose, glycosides and trisaccharide fatty acid ester have been shown to have immunostimulatory, immunomodulatory, antibacterial, antitumour and anticancer effects (Russell, 2003).

The founder of Tree of Health, Helen Russell, notes: "Future research aims to identify components that have the capacity to be health promoting as well as focussing on the anticancer properties of the glycosides found in the noni. Our aim is to be at the

Heinicke advises that noni should be taken on an empty stomach because otherwise the pro-enzyme may not become properly activated, therefore not reaching the intestine.

forefront of providing credible research to back the anecdotal evidence of noni across a wide array of health conditions." (Russell, 2003, pp. 1-2)

Scientific American reported in 2000 that Filipino chemists from the University of Santo Tomas had found compounds in the noni leaf that were able to "kill the bacterium causing tuberculosis". The leaf extract steroids "killed 89 percent of *Mycobacterium tuberculosis* organisms exposed". The steroid structure found was very different to any used in TB drugs, and lead researcher Jonel Saludes was quoted as saying, "I hope that pharmaceutical companies will pay attention to this research and explore the noni plant as a potential source of drugs". (Leutwyler, 2002) However, there are repercussions for biodiversity if pharmaceutical companies patent substances found in plants.

Researchers from the Université de Metz in France found the traditionally reported analgesic effects of noni to be proved in tests on mice. The animals were tested in various ways after being administered high doses of aqueous extract of *Morinda citrifolia* roots. The investigation showed that "these results are suggestive of sedative properties". No toxic effects were exhibited. (Younos et al.)

Research chemist Joseph Betz from the FDA's Division of Natural Products, Center for Food Safety and Applied Nutrition, reported that noni had "been tested for a number of biological activities in animal and anti-microbial studies". The dried fruit was found to have "smooth muscle stimulatory activity and histaminergic effects". (Wang et al., 2002, p. 1129)

NONI'S ANTICANCER PROPERTIES

Several tests have been undertaken following claims that noni contains anticancer properties.

Researchers from the University of Hawaii and Rutgers University undertook such a study, noting that noni was "one of the most effective medicinal plants utilized by native Hawaiians...for a variety of ailments, including the treatment of breast cancer by at least one Polynesian community". They also comment on the modern use of noni in Hawaii as "the second most commonly used ethnobotanical, mainly for the treatment of cancer, hypertension and diabetes". Extracts from noni fruit were tested on breast carcinoma, resulting in "inhibition of cancer cell growth". (Fong et al., 2001)

Another study from the University of Illinois, at Chicago College of Medicine, was to test the hypothesis "that *Morinda citrifolia* possesses a cancer preventive effect at the initiation stage of carcinogenesis". Tahitian noni juice (TNJ) was tested on rats with liver injury induced by a liver carcinogen, and researchers concluded "results suggest that prevention of carcinogen-DNA adduct formation and the antioxidant activity of TNJ may contribute to the cancer preventive effect of *Morinda citrifolia*". (Wang & Su, 2001; Wang et al., 2002, p. 1134)

Liu et al. (2001) found that two novel glycosides extracted from noni fruit juice and administered to mice "...significantly prolonged the survival duration of inbred Lewis lung tumor-bearing mice. Juice of noni containing a polysaccharide-rich substance known as 'noni-ppt' was suggested to suppress tumor growth through its regulation of the host immune system".

Brian Issell from the University of Hawaii is currently undertaking a two-year study of the effects of noni on cancer patients, testing the hypothesis "that noni at a specific dosing provides cancer patients with a sufficient benefit to toxicity profile to

be useful as a therapeutic". The study aims to:

1. Determine the maximum tolerated dose of capsules containing 500 mg of freeze-dried noni fruit extract.
2. Define toxicities associated with the ingestion of noni.
3. Collect preliminary information on the efficacy of noni in respect to anti-tumor and symptom control properties to help select specific patients for subsequent Phase II studies.
4. Identify chemical constituents of the extract that can be used to characterize the bioavailability and pharmacokinetics of noni food supplement." (The Noni Study, www.hawaii.edu/crch/CenStudyNoni.htm)

ANECDOTAL EVIDENCE FOR NONI'S BENEFITS

In his book, *The Noni Phenomenon*, Dr Neil Solomon reports on his extensive research into the effects of noni, for which he interviewed 50 doctors and health professionals representing over 10,000 people taking noni juice. An average of 78% of these people experienced some positive results. The highest percentage overall was 92% of people reporting increased energy levels. Other reported results from noni juice intake included decreased symptoms of allergy, arthritis, cancer, depression, heart disease, high blood pressure and pain. It was also said to help against ageing, and improvements were noted with breathing, diabetes (types I and II), digestion, thinking, kidney health, alertness, sexuality, sleep, stress and well-being. It also reportedly aided in increasing muscle, losing weight and relieving stroke symptoms. The lowest score was for quitting smoking, in which 58% of people reported that noni had helped. It was noted that these results were a "pooled percentage of people who experienced objective and/or subjective improvement of their signs/symptoms after taking noni". Dr Solomon also advises that noni can be taken with medication and that less than 5% of people reacted negatively to noni, with symptoms such as "minor belching, loose stools, allergy or...mild rash". (Solomon excerpt from California Academy of Health, 2003)

Dr Solomon also recently conducted a study regarding noni's use as "nature's Viagra®". Of the 1,545 individuals involved, "88% claimed their sex lives improved after drinking noni". Dr Solomon hypothesises that this may be because noni contains arginine—a substance thought to improve circulation and increase sperm count and motility in men, and increase the production of nitric oxide in women, leading to "improved engorgement and lubrication resulting in a more natural, enhanced sexual response". (INCC media release, 2003)



"Did you bring two mobile phones?"

Australian-based distributor Tony Mastop receives positive feedback regarding noni and has found the juice beneficial personally. A massage therapist suffering from back pain, he began taking noni for anti-inflammatory and analgesic reasons. He initially had positive results but after switching juices, the pain returned. "Not all noni is the same," explains Tony. "The potency varies, and for back pain relief I needed the stronger stuff." However, for those who retain iron in their bodies, less potent noni could be the safer option, as stronger juice may adversely affect their health.

Parkinson's disease symptoms may also be eased with the aid of noni juice. The grandfather of a friend, Eloise Brock, takes noni and finds it gives him considerable relief. However, he does not take it consistently. "He really is a lot better when he takes the noni," says Eloise. "Nan would like him to stay on it all the time, as she notices how much his quality of life improves while taking noni juice." Unfortunately, the high cost of noni juice can make it prohibitively expensive for some people.

Tahiti native Gnit Fa takes noni juice every day at around 6.30 am and finds it very beneficial, still experiencing positive effects by the evening. "When I take other vitamins (European or Chinese), I don't feel as good. With noni I feel more energetic; even my muscles feel more energetic." However, not all the family has had positive results; some have attributed their rotten teeth and diarrhoea to taking noni. Gnit Fa says there is talk of a new noni manufacturing plant opening in Tahiti, which will produce noni juice, soaps and other products made from noni.

Some people have reported no real benefit from noni, and companies marketing the product suggest it should be taken for a minimum of three months—as "[s]ome people notice results in just a few days and other people don't see a change until several months later" (<http://www.Noniland.com>).

NONI PRODUCTS AND FOOD STATUS

There are various forms of noni available. The 100% juice is extracted by placing ripe fruit over large screens; the liquid then drips through into tubs underneath (International Noni Communication Council). Traditional noni juice in Hawaii is drip-extracted, then fermented and aged, and is unadulterated; non-traditional juice is freshly squeezed, filtered and not fermented (CTAHR).

When bottled, the juice is dark brown in colour and "can be difficult to palate because of noni's inherent strong taste". Puréed noni is also available and may be more palatable as it often contains flavouring juices. However, this means it is less potent. Noni tablets and capsules are available but because there is "a lack of scientific research on dried or dehydrated noni, its efficacy in this

state is largely unknown". Powdered juice is the other alternative and reportedly it has a good flavour. However, as it is made from dehydrated noni, the same concerns are relevant as for tablets or capsules. (INCC)

Noni juice is accepted as either a food or food supplement in many countries, including Australia and the USA, although the US Food and Drug Administration recommends pasteurisation in order to kill any harmful bacteria grown during harvesting or bottling. However, pasteurisation has been known to kill enzymes, and certain enzymes in noni are thought by some to be the active ingredient with health-promoting benefits.

On 5 June 2003, the European Union authorised noni juice to be placed on the market as a "novel food", which the EU defines as "foods and food ingredients that have not been used for human consumption to a significant degree within the EU before 15 May 1997". To reach this status, safety assessments must be undertaken and the ruling allows noni juice to be used in pasteurised fruit drinks in the European Union. (*Midday Express*, 10 June 2003)

AN ALTERNATIVE FUTURE

The Hawaiian Department of Business, Economic Development and Tourism refers to noni in its September 2002 report regarding strategies for Hawaii's economy. Alternative medicine is acknowledged as being widely used by Americans, and noni is referred to as "an outstanding example of this new reliance on alternative therapies". Furthermore, a new Department of Complementary and Alternative Medicine (CAM) at the University of Hawaii aims to "become a leader in medical education and research, integrating western and alternative medicine practices". The report states that promising preliminary results regarding the medicinal properties of noni have already come out of the new CAM department.

Though noni may not suit everybody, many people report significant benefit from their daily dose of the juice. Scientific studies regarding *Morinda citrifolia* are promising, particularly in relation to noni's usefulness in inhibiting certain types of cancer. Many in the industry acknowledge that more scientific studies are needed to show what those using noni traditionally have known for centuries—that noni has significant health benefits and medicinal properties. ∞

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Continued on page 74

ROCKEFELLER INTERNATIONALISM

**David Rockefeller's
"one world" vision
for global economic
interdependence
involves US
leadership in
fostering
collaboration with
other nations rather
than the
implementation an
imperialistic
agenda.**

Part 4

by Will Banyan

© May 2003

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THE "PROUD INTERNATIONALIST": DAVID ROCKEFELLER (1915 –) Towards "One World"

Clearly, government positions have held few attractions for David Rockefeller. However, as an unofficial but uniquely powerful "ambassador without portfolio", David has been able to do "a lot of interesting things" without ever being called to account. Driving most of his activities over the past 40 years has been his vision of creating "a more integrated global political and economic structure—one world". To achieve this goal, David has supported a multidimensional strategy comprising US global leadership, the United Nations, multinational corporations, international economic integration, global and regional free trade, and global governance.

The cornerstone of David's New World Order vision is US leadership. David traces his devotion to the concept to when he "returned from World War II believing that *a new international architecture had to be erected* and that the United States had a moral obligation to *provide leadership to that effort*".³¹ In the immediate post-war period, according to David, America "played a pivotal—and, for the most part, a highly constructive—role in the world".³² This role David has insisted on maintaining, irrespective of changes to the global political landscape and America's position in it. Despite America having lost much of its strength, "[w]e are still a major power in the world and, as such, *have a responsibility we cannot shirk*", David proclaimed in 1980 to the Los Angeles World Affairs Council.³³ In fact, "we must restore our rightful role in the world by reasserting the strength of our currency and our economy", David argued in a 1979 address that warned of America's economic decline.³⁴

For David, US leadership has never meant unilateralism or a crude imperialism to secure global dominance; instead, it had to be used to build a New World Order based on supranational institutions and economic interdependence. This was to be achieved through cooperation with other nations, either in a "trilateral partnership" with Western Europe and Japan (see Part 5) or under the tutelage of international organisations such as the UN. "With the dissolution of the Soviet Union," David told a Business Council for the United Nations (BCUN) gathering in 1994, "the opportunity for *enlightened American leadership* is, perhaps, even greater than it was in 1939, at the beginning of the Second World War, or in 1945 when the Cold War began."³⁵ However, it was an "illusion" that "Americans by themselves have the wisdom to frame sound policy for a diverse community of nations", David claimed on the occasion of the CFR's 75th anniversary. That goal could only be achieved "through patient collaboration among leaders from many countries", with the US playing a key role in "fostering that collaboration".³⁶

And just as his brother Nelson argued 30 years before, David insists in *Memoirs* that the United States has no choice in the matter, for international circumstances are compelling and irresistible; America *must* lead:

*The United States cannot escape from its responsibilities. Today's world cries out for leadership, and our nation must provide it. In the twenty-first century there can be no place for isolationists; we must all be internationalists.*³⁷

But in asserting that this "internationalist" policy must be followed, David also makes this veiled criticism of the increasingly imperialistic agenda adopted by the administration of George W. Bush:

The world has now become so inextricably intertwined that the United States can no longer go it alone, as some prominent politicians have urged that we should. We

are the world's sole superpower and its dominant nation economically. **One of our duties is to provide judicious and consistent leadership** that is firmly embedded in our national values and ideals.³⁸

Although crucial, US leadership has not been the only component of David's vision; undermining national sovereignty through economic integration has been of equal importance. As the only trained economist of his generation of Rockefellers, having been taught by the leading free trade and free market theorists of the 1930s and 1940s, David has long been aware that the power of national governments can best be undermined by steadily reducing their control over economic matters. In fact, he has always regarded government regulation as an obstacle to prosperity and often argued for the need to "prune the forest of rules and let the economy grow".³⁹ But in advocating the lifting of restrictions on business, whether through deregulation or free trade, David has always recognised that this will erode national autonomy.

For example, in a lecture he gave in Manchester, UK, in 1975, David singled out multinational corporations (MNCs) as one of the other main drivers of this process, describing them as "the most important instruments in the unprecedented expansion that has taken place in world trade". The purpose of his lecture, however, was to defend MNCs from the "new demonology" emanating from the Third World-dominated UN General Assembly, primarily in the form of the so-called New International Economic Order and Lima Declarations. These declarations aimed to reorder the world economy by subjecting MNCs to global regulations, relieving Third World debts and changing international trade rules to favour developing countries. Finding this agenda objectionable, David accused the "revolutionary left" and "radical politicians" of "calling most persistently for punitive taxes and crippling regulation of multinationals".⁴⁰

It was in his concluding prescription that David Rockefeller made it clear how crucial MNCs are to his goal of an integrated global economy:

*We should be doing all in our power to lift the siege that is taking shape around our beleaguered multinational companies. **They still have much work to do in helping to create a true world economy.** We must let them get on with this unfinished business.*⁴¹

Another feature of David's push for global economic integration has been his contention that breaking down the barriers to trade and investment was essential to world order. Arguing the case for foreign investment in 1969, David suggested that if Western businesses were to expand the reach of "modern technical society" to encompass the Third World, this would "do more than anything...to restore and strengthen the hope in the idea of international cooperation".⁴²

"In a world of growing interdependence," David told British writer Anthony Sampson in the 1970s, "the last thing we want is protection."⁴³ Indeed, the "expansion of trade" and the "emergence of a genuine world economy", David declared at Manchester in 1975, were "our best prospects for maintaining peace among nations".⁴⁴

Integrating the Western Hemisphere

David has not only pursued his goals globally, but has sought to establish economic interdependence at the regional level. Most of his efforts in that regard have been devoted to the economic and political integration of the Americas, or the Western Hemisphere. To achieve this, in 1965 David created a business lobby group, the Council for Latin America, now known as the Council of the Americas (COA). The Council's purpose, David explained in a *Foreign Affairs* article in 1966, was to "stimulate and support economic integration". But in supporting this objective, David's ultimate aim was to lock the entire region into a neo-liberal policy matrix, making it more attractive to MNCs. Without integration, David argued, "there is inefficient division of markets and costly duplications of effort"; only through "closer cooperation" could the Latin American nations "make the best of their own resources and provide the broadest appeal to foreign investment".⁴⁵

Nearly 30 years on, the Council remains committed to these goals, describing its purpose as "promoting regional economic integration, free trade, open markets and investment, and the rule of law throughout the Western Hemisphere". It is an agenda that the COA expects will eventually deliver "the economic growth and prosperity on which *the business interests of its members depend*".⁴⁶ This approach should not be surprising, for David has long objected to the "faulty economic model" of government regulation, subsidies and protectionism that most Latin American countries adopted in the 1960s.⁴⁷

In 1964, David publicly complained about the growing popularity of "coldly anti-capitalist" sentiments in the region, blaming a "relentless campaign" by "Soviet, Castro and Chinese Communist agents". He maintained that this "Communist propaganda" had convinced many Latin American politicians to impose laws aimed at "curtailing or expelling foreign investors". Claiming to be "genuinely distressed" at the "feeble

response" of US corporations, David insisted on a strategy to "combat the Communist propaganda", warning his fellow American businessmen that, if they failed to act, "we stand in grave danger of losing our investments, our markets".⁴⁸

In *Memoirs*, David casually boasts of his role in reversing this trend as the founder and Chairman of his other philanthropic organisation, ostensibly dedicated to Latin American cultural affairs: the Americas Society. In 1983, the Society's Latin American Advisory Council, set up by David, agreed on the need to find a solution to the devastating debt crisis then afflicting most of Latin America—a crisis David's bank had a direct role in instigating. David then tasked the Institute for International Economics (of which he was a board member) to research the issue and propose a solution. The result was the influential IIE study, *Toward Renewed Economic Growth in Latin America* (1986), which advocated "lowering trade barriers, opening investment to foreigners, and privatising state-run and -controlled enterprises".⁴⁹

These prescriptions are now known, quite aptly, as the "Washington Consensus", seeing it was the Washington based and controlled IMF that imposed these policies on the region, reportedly to devastating effect.⁵⁰

With most of Latin America finally moving toward free trade

Another feature of David's push for global economic integration has been his contention that breaking down the barriers to trade and investment was essential to world order.

by the late 1980s, David has since pursued with increasing vigour not only his longer-term goal of "Latin American economic integration" but the economic integration of the entire hemisphere. In 1989, David called for intensified economic cooperation between the US and Latin America; and three years later, at the COA-sponsored Forum of the Americas, attended by then President George H. W. Bush and regional leaders, he proposed creating a "Western Hemisphere free trade area".⁵¹

David later noted with some pride that participants at the Forum were "unanimous" in supporting the goal of a "full Western Hemisphere free trade area by 2000". In line with this overall objective, David was a staunch supporter of the North American Free Trade Agreement (NAFTA), declaring in the *Wall Street Journal* in 1993 that he did not think "criminal would be too strong a word to describe...rejecting NAFTA".⁵²

The success of David's efforts is apparent in the agreement, reached in Quebec in April 2001, to begin to establish a Free Trade Area of the Americas (FTAA), covering the whole hemisphere (except Cuba) by 2006. David, who had earlier lobbied hard but unsuccessfully for "fast track" trade promotion authority for Bill Clinton,⁵³ was able to claim an "integral role" for the COA—and, by implication, himself—in obtaining the same powers for George W. Bush.⁵⁴

However, on his ultimate vision for the region, David remains circumspect, giving away little. For instance, when asked in 2002 if he supported Robert Pastor's vision of a "North American Community" modelled on the European Union,⁵⁵ David was evasive, saying only that it was in "our interest" for NAFTA to be extended to South and Central America—before retreating into cant about trade being an "engine of growth and development".⁵⁶

One can only presume that David, like Nelson did, sees the economic integration of the region as a step toward complete global integration.

The Death of the Nation-State

Like his father before him, and his brother Nelson, David has long regarded the nation-state as a dying institution. Over the past 40 years, in numerous forums, David has declared that the world either is becoming or is already "interdependent" both politically and economically—an outcome he disingenuously attributes to inevitable historical forces rather than his own deliberate design.

In a 1963 address, for example, David referred to the "increasingly international character of American business and the consequent interconnectedness among the world's financial markets".⁵⁷

In the 1970s, he often spoke of "our interdependent world", "today's interdependent world", and of how "we are all part of one global economy".⁵⁸

As the Reagan era dawned, David continued to treat the death of the nation-state as a *fait accompli*, describing "the inevitable push toward globalism" and how "the exponential growth of world trade and international economic competition has given rise to a truly interdependent world economy". In fact, in 1980, David prophesied that "[b]y the year 2000, the term 'foreign affairs' will be an anachronism".⁵⁹ He even claimed in 1985 that most Americans have "a strong belief

in the interdependence of mankind".⁶⁰

By the 1990s, with the concept of globalisation fast becoming the business buzzword of the decade, David could confidently talk of "the emergence of globalised competition and an integrated world economy".⁶¹

Most recently, in *Memoirs*, David leaves no doubt that he thinks we should regard the erosion of national sovereignty as both inevitable and unstoppable:

*Global interdependence is not a poetic fantasy, but a concrete reality that this country's revolutions in technology, communications, and geopolitics have made irreversible. The free flow of investment capital, goods, and people across borders will remain the fundamental factor in world economic growth and in strengthening of democratic institutions everywhere.*⁶²

But the more important question is, what does David believe should fill this growing vacuum? What sort of "more integrated global political and economic structure" does the plutocrat have in mind? David's own answers, though fragmentary, reveal a commitment to the concept of global governance. As defined by the Commission on Global Governance, the term refers to an international order in which nations are no longer the dominant political institution, but must share authority not only with the UN system but also with "non-governmental organizations (NGOs), citizens' movements, multinational corporations, and the global capital market".⁶³

Having worked hard over the past 40 or more years to erode the power of nation-states—and having created countless other problems of a global nature in the process—David now turns to international institutions, MNCs and NGOs to fill this governmental gap.

Firstly, David has long had a favourable view of international institutions, especially those founded by the US, believing they hold the key to realising his aim to "erect an enduring structure of global cooperation".⁶⁴ His commitment to the UN, for example, can be seen in his membership of groups including the United Nations Association of the USA, Allies of the United Nations, and the Emergency Coalition for US Financial Support for the United Nations. In his message to the UN poster exhibition, *For A Better*



"Cat¹ /n. 1. domesticated carnivore (*felis*) and only lifeform not affected, influenced or outrightly controlled by David Rockefeller."

World, in 2000, David claimed that, ever since the UN was created in 1945, he has been "one of its staunchest advocates". He continued:

*There are many who believe the United Nations, through its multiple missions of peacekeeping, humanitarian assistance and the support of sustainable economic development, is the embodiment of hope for mankind. I agree.*⁶⁵

David has also identified the World Trade Organization, NAFTA, the IMF and the World Bank as "constructive international activities".⁶⁶ In a "globalized economy", he once wrote in the *Wall Street Journal*, "everyone needs the IMF"—for without it, "the world economy would not become an idealized fantasy of perfectly liquid, completely informed, totally unregulated capital markets".⁶⁷

Secondly, as for the role of the MNCs, David notes that the retreat of state power caused by deregulation has provided many opportunities for the business sector to assume a more political role. In 1996, David argued that with governments reducing their social expenditures, it was up to "business leaders and their corporations [to] expand their involvement" in the "not-for-profit sector".⁶⁸ Or, as he put it to *Newsweek* in 1999:

*In recent years, there has been a trend in many parts of the world toward democracy and market economies. That has lessened the role of government, which is something business people tend to be in favour of. But the other side of the coin is that somebody has to take the government's place, and business seems to me to be a logical entity to do that.*⁶⁹

This includes supporting the UN, as in 1994 he told the Business Council of the United Nations that "business support for the numerous internationally related problems in which [the UN] is involved has never been more urgently needed".⁷⁰ Yet, in the early 1990s, David reportedly boasted that MNCs had moved beyond being able to help governments to being in control:

We are now in the driver's seat of the global economic engine.

*We are setting government policies instead of watching from the sidelines.*⁷¹

Thirdly, David sees a crucial role for NGOs, including the various philanthropic foundations (a sizeable number of which he controls), in addressing global problems. The message had already been delivered in 1989 by the then President of the Rockefeller Foundation, Peter Goldmark, Jr, at a three-day conference celebrating the 150th birthday anniversary of John D. Rockefeller, Sr. "Every major foundation should have an international dimension to its program," said Goldmark. "In a period of planetary environmental danger, global communications, inter-continental missiles, a world economy and an international marketplace of ideas and arts and political trends, there is simply no excuse not to." David admitted that Goldmark's speech came with his blessing, if not direction, with a decision made to be "meaningful" by focusing on "philanthropy for the 21st century" instead of merely praising John D. Rockefeller, Sr.⁷²

The true scope of David's "philanthropy for the 21st century" has become more evident throughout the 1990s, with the Rockefeller Foundation, the Rockefeller Family Fund and the Rockefeller Brothers Fund all providing funding to NGOs, either through direct grants or indirectly via organisations such as the Funders Network on Trade and Globalization. Many of the NGOs that have received Rockefeller-sourced grants—such as the World Development Movement, The Ruckus Society and the Center for Public Integrity—are ostensible opponents of the same corporate globalisation agenda that David has done so much to promote, while others are proponents of strengthened and "democratised" international institutions and laws.

Nevertheless NGOs, through their currently unrivalled ability to circumvent normal diplomatic processes by claiming to represent "civil society", have proved to be very effective, generally publicly unaccountable organs for both eroding national sovereignty and building global governance. As some analysts have observed, NGOs are at the forefront of a "new diplomacy" that "devalues national sovereignty in favour of multilateral agreements" in which interest groups seek to "accomplish internationally what they cannot achieve domestically" (Davenport). The NGO approach, another analyst warned, involves the "undermining of decision-making systems based on

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constitutionalism and popular sovereignty", in favour of a system that "posits 'interests' (whether NGOs or businesses) as legitimate actors along with popularly elected governments" (Bolton).⁷³

Although some NGOs are adamantly opposed to David's pro-market and pro-free trade agenda, his overall strategy appears to be to co-opt, compromise and ultimately control as many of the NGOs as possible, utilising them as a vital third force both for creating and, in some cases, managing the emerging structure of global governance. As for those NGOs that cannot be deradicalised and accommodated, and insist on pursuing more revolutionary anti-capitalist agendas and methods, they have been deprived of funding and left to the mercy of state oppression.⁷⁴

Clearly, the NGOs have their uses, but David will not tolerate the anti-corporate rhetoric actually becoming policy—especially if it threatens his own goals.

"One World", Ready or Not...

In *Memoirs*, David admits without any trace of irony to his goal of building "a more integrated global political and economic structure—one world". Considering the tangible evidence of David's New World Order agenda, much of it from his own public statements and writings, it would be churlish to dismiss as "right-wing nuts" or proponents of "wacky conspiracy theories" those who have long been suspicious of the plutocrat's activities.

But what is particularly striking about David's New World Order vision is that, despite his sometimes flowery rhetoric about democracy, he has never engaged the voting public on his agenda. Instead, he has used his power and influence to convince, cajole and even coerce political leaders and government officials into supporting policies for which ordinary voters have never asked.

In a working democracy, the exercise of such unelected power should be a serious matter. Publicly acceptable attitudes, however,

ensure that those who object to David Rockefeller's methods and objectives remain marginalised and easily ridiculed. Even though at exclusive gatherings the power-elite will continue to give thanks to David Rockefeller for his unstinting service in promoting "international cooperation", the requirements of the existing political order demand that the significance of these celebrations be denied.

As for the self-described "proud internationalist", the globalisation process he has helped unleash is proving unstoppable, if only because relatively few political leaders are willing to challenge the "consensus".

David now has the luxury of promoting solutions to the

problems he helped cause, as he did in December 2001 in his role as President of the Global Philanthropists Circle. Addressing a forum at the University of Guanajuato in Mexico, David stated that globalisation had created "unacceptable" levels of poverty the world over. "Free trade," he said, "has helped generate wealth, but it has not helped poor people who still find themselves in tough situations." True to his devotion to globalism, the plutocrat acknowledged the work of "social organizations" in improving conditions for the world's

disadvantaged, before recommending that both businesses and governments become more active in preventing people from falling into the "abyss of extreme poverty".⁷⁵

Regrettably, such hypocrisies are typical of the plutocracy...

Continued next issue...

In *Memoirs*, David admits without any trace of irony to his goal of building "a more integrated global political and economic structure—one world".

Author's Note:

Part Five will continue to examine David Rockefeller's internationalist vision, focusing on his most controversial creation: the Trilateral Commission.

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PROJECT HAMMER RELOADED

*A web of intrigue
connects a diverse
collective of players
who have
conducted and
benefited from
secret collateral
trading programmes
which also have
covert funding
purposes.*

Part 2 of 2

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MAPPING THE COVERT CONNECTIONS

(continued from Part 1)

• **Peter Seaman:** In addition to being the President and Chairman of Nantucket Holding Company, Peter Seaman was a successful businessman and involved in a number of other enterprises. These included an entity called Harbor Fuel Holdings Co., Inc. of Westchester County, in which Seaman was a partner with attorney Stuart Root. Both Root and Seaman were clients of attorney Kenneth C. Ellis. Root was a director of another firm called Bowery Advisors Subsidiary Corporation, which was registered in Florida with a principal mailing address of Kenneth C. Ellis "care of" the Southeast First National Bank building, located at Biscayne Boulevard, Miami. Seaman had a residence in Greenwich, Connecticut, where, by another odd coincidence, his next-door neighbour was Citibank's John Reed.

Following his close association with Dan Hughes in setting up the MidAval Hammer deal in October 1989, Seaman thereafter refused to speak with Hughes ever again. Whether it was guilt for diverting Hughes's commission or some other factor that caused this extraordinary vow of silence, we shall never know. Peter Seaman died, taking all his secrets with him.

• **Oswald Howe, Jr:** Dan Hughes's attorney throughout the Hammer deal and the subsequent years of investigation was Oswald (Ozzie) Howe, Jr, of the Miami law firm of Mershon, Sawyer, Johnston, Dunwoody & Cole, whose offices were located in the Southeast Bank building at the Southeast Financial Center. According to Dan Hughes, it was Howe who introduced him to Southeast Bank, and Howe did a lot of real estate work for the bank. Hughes also feels that his ongoing law case would be a great deal more effective if several vital documents had not mysteriously disappeared from Howe's office. In any event, Mershon, Sawyer, Johnston, Dunwoody & Cole is now defunct, and Howe practises law and is the senior partner for Howe, Robinson & Watkins LLP in Miami.

• **Southeast Bank:** Southeast Bank NA was declared insolvent on 19 September 1991; it exists no more. Over the years it could boast some famous, if not infamous, clients—but one suspects that such boasting was the last thing the bank's board of directors had in mind. One such account "holder" was Philippine dictator Ferdinand Marcos, who used his henchman and former law school classmate Roberto Benedicto to front for him. In addition to being appointed by Marcos as the Philippines Ambassador to Japan, Benedicto was a signatory to Marcos's Credit Suisse accounts and was clearly content to be used by Marcos as a cat's-paw to hide his money and gold bullion.²⁷ Benedicto died in May 2000, following a heart attack.

Other illustrious clients of Southeast Bank over the years have included such criminal luminaries as Licio Gelli and Michele Sindona, named by author Luigi DiFonzo in his book, *St Peter's Banker*. DiFonzo reveals that US\$34 million of the "lost" money of Robert Calvi's collapsed bank, the Banco Ambrosiano, was traced to that bank's subsidiary in Nassau, where it was withdrawn and smuggled to two Miami banks, one of these being the Southeast First National Bank (of Miami)—where it was deposited in account number 18221465.²⁸

• **Bankers Trust:** Bankers Trust International, a subsidiary of Bankers Trust, was the other Miami bank named in *St Peter's Banker* as having funds stolen from Banco Ambrosiano deposited with it. According to DiFonzo, these funds were deposited into account number 001050018, which was also controlled by Licio Gelli and Michel Sindons (i.e., Michele Sindona).

In 1982, Ferdinand Marcos arranged via his right-hand man, General Fabian Ver, to

transfer 50 tonnes of gold bullion to Switzerland via two chartered 747 aircraft. These were arranged by an individual using the name Ron Lusk, who had been retained by Ver to deliver the gold to Bankers Trust, Zurich.²⁹

Bankers Trust is of considerable interest for other reasons, too. Firstly, readers will recall that Dan Hughes caused two sight drafts to be issued in favour of Bankers Trust for the collateral commitment relative to the Chase and Citibank debenture instruments—an activity which, as we have already seen, caused General Erle Cocke to believe kicked off the Project Hammer programme in a big way.

Secondly, the lawyers and investigators who were building a lawsuit for Dan Hughes and other clients cheated out of their money were quietly negotiating with the Central Intelligence Agency in an attempt to settle privately and quietly out of court. According to Dan Hughes, these negotiations were taking place with the office of Buzzy Krongard, the then No. 3 man in the CIA hierarchy.

By profession, Krongard is a banker and formerly was the Chairman and CEO of investment bank Alex. Brown, Inc. In September 1997, Krongard engineered the merger of Alex. Brown with Bankers Trust and became the Vice Chairman of the board of directors of Bankers Trust. A few months later, in January 1998, he was recruited as a "counsellor" to CIA boss George Tenet. In March 2001, he was promoted to Executive Director, making him the No. 2 man of the spy agency.

But the strange coincidences don't end there. South African intelligence operatives Rolf van Rooyen and Riaan Stander,³⁰ who are both deeply enmeshed in the Project Hammer story, were working closely with Gregory Serras, the President/CEO of the San Diego brokerage firm, Vanguard Capital. This involved discussions for Vanguard to act on their behalf in the private placement of Argentinian government-approved debenture instruments that formed part of a trading programme that van Rooyen and Stander had been working on. In a signed letter, Serras—acting on behalf of his bank, Morgan Stanley & Co.—requested confirmation that the debentures in question were "legal securities authorized and approved by the government of Argentina..."

Vanguard appears to change its banking relationships from time to time. In the period that Serras was in contact with van Rooyen, its relationship was with Morgan Stanley & Co. Today it is with the Bank of New York, Inc.—itself no stranger to front-page scandals, such as those involving money-laundering activities for Russian crime syndicates and political figures.³¹ Of interest is the fact that Vanguard was earlier affiliated with Buzzy Krongard's old firm, Alex. Brown, which, following the takeover of Bankers Trust by Germany's Deutsche Bank, changed its name to Deutsche Banc Alex. Brown, Inc.

The fact is that when it comes to the fraternity of banking, one can often disregard the supposed rivalry that is said to exist, because incestuous relationships are commonplace. In the past, at least, the big banks owned significant chunks of each other's stock, whereas nowadays they just tend to merge. Take, for example, the Bank of America, whose second-largest stockholder

was J. P. Morgan. In third place was Citibank. Meanwhile, Citibank's largest stockholder was J. P. Morgan, which in December 2000 merged with Chase Manhattan to form the all-powerful J. P. Morgan Chase.³² Bankers Trust was a J. P. Morgan creation from day one.

• **White & Case:** No doubt by sheer coincidence alone, the Marcos account held by Roberto Benedicto at Southeast Bank was a White & Case Trust account (number 018-410191).

It may also have been mere coincidence that Peter Seaman's and Stuart Root's attorney, Kenneth C. Ellis—who was the registered addressee at Southeast Bank building for the Bowery Advisors Subsidiary Corporation—is also listed on the White & Case website as a partner of that firm, who specialises in financial matters and who now works out of its Singapore office.

• **UBS, Lugano:** One of the more flamboyant financiers of recent decades undoubtedly is the Italian, Florio Fiorini, the former finance director of the Italian state-owned oil company, ENI. Fiorini is best known for his failed attempt to rescue Roberto Calvi's bankrupt private bank, Banco Ambrosiano—an affair that also involved Mafia financier Michele Sindona and, of course, Licio Gelli, the Grandmaster of the secret masonic lodge, P2, that was a parallel *de facto* government of Italy.

Unlike others, Fiorini spilled the beans, and he did so in two books that he wrote while in Champ-Dollon prison, Switzerland, for "fraudulent bankruptcy". Of the many secrets he revealed, one of the most explosive was the now infamous *conto protezione* (protection account), used to launder profits derived from myriad insider-dealing activities by some of the largest and most prestigious banks and transnational corporations in Europe.

A significant slice of the profits was paid to what Fiorini amusingly described as "the starving of the parties". In plain words, these allocations were kickbacks paid to the vari-

ous political parties.

The administrator of the secret kickback account (number 633369) was a member of P2 and also a former Minister of Justice of disgraced Prime Minister Bettino Craxi, who went by the name of Claudius Hammerings—and if one deletes the last four letters of his name, coincidence throws up the word "Hammer".³³ Readers will by now have guessed that the account was held at UBS, Lugano.

Fiorini's name also appears prominently in the story of the looting of MGM, the famous Hollywood film studio, by Italian Mafia "thug" Giancarlo Paretto. The MGM affair was an event that almost brought France's state-owned bank, Credit Lyonnais, crashing to its knees. Without intervention and an infusion of considerable sums of money from the French taxpayer, France's once proud bank would have folded.

This is not the place to recount the MGM/Credit Lyonnais story, but it is of passing interest only to note that Credit Lyonnais recruited attorney Charles Meeker to join MGM as president, to handle negotiations with Paretto. Prior to joining MGM, Meeker was with the law firm of White & Case.³⁴ Following a warrant issued by France, Paretto was eventually arrested and cuffed by US federal agents in a conference room in the downtown Los Angeles office of White & Case.

The fact is that when it comes to the fraternity of banking, one can often disregard the supposed rivalry that is said to exist, because incestuous relationships are commonplace.

Credit Lyonnais has also been deeply involved in Black Eagle gold transactions. In one transaction I am familiar with, a large block of bullion was to be purchased by a representative operating on behalf of Credit Lyonnais Rouse Limited, London, the precious metals trading arm of the bank.³⁵

It is also interesting to note that UBS, Lugano, was not only the bank of choice for those running the secret insider trading protection account; it was also the bank of choice for former Philippines dictator Ferdinand Marcos. The numerous confidential accounts he had at that bank have been dubbed the "Mother" money-laundering account for the Marcos family by Marcos gold investigator Reiner Jacobi.³⁶

But the UBS connections don't end there. The Honorary Chairman of UBS (now part of the Swiss Bank Corporation Group) is Nicholas Senn, who was also the Chairman of the enormous transnational corporation, Compagnie Financière Richemont AG, until his retirement in September 2002. Senn was also the senior partner of the Swiss-based international law and consultancy firm of Senn, Christians and Letemeyer, which, coincidentally, acted for the late Baron Arndt Krupp.

In particular, Carl Letemeyer and Nicholas Senn worked hard on behalf of the Krupp Estate in regard to the Krupp Heritage & World Peace Foundation (Singapore), which received a legacy of US\$97 billion from Baron Krupp. This was a cash gift. According to documents I have in my possession, Krupp's "secret" properties and businesses did not form part of this legacy. However, the most interesting fact is that, prior to his death, Baron Arndt Krupp controlled some of the Santa Romana "Black Eagle" fund assets. Of the \$97 billion gifted, \$47 billion was on deposit in account number 4 77 22 P with the Trust Department of the Standard & Chartered Bank, London.

• **Indosuez:** This is one of those banks which are barely visible but consistently circle the waters of black gold and Project Hammer—like a prowling shark with just the tip of its dorsal fin showing. For example, in one bullion transaction being negotiated by Dr A. König, the Swiss representative of Rolf van Rooyen's Eastcorp Syndicate, the nominated closing bank for the transaction was Indosuez, Lugano—where Eastcorp Holdings maintained an account.

This is in addition to the migration of some MidAval staff to Indosuez following their involvement in the Project Hammer trading programme, as outlined earlier. With the closure of Indosuez Aval, a rump of former MidAval employees (now unfortunately ex-Indosuez Aval as well), including MidAval's former CEO, found a new berth for their abilities. This was at Standard & Chartered Bank in London. Standard Bank Nominees, meanwhile, is the second largest shareholder of Oppenheimer's Anglo American, with a stake of 11.74 per cent.³⁷

While knowledge of the hidden connections of the Hughes "portal" into Project Hammer is vital for an understanding of how the world of parallel finance operates, there are still deeper "rhythms" at work. An examination of these "rhythms" leads to

the companies, people and intelligence assets that sit at the heart of the so-called Anglo-American relationship.

THE KESWICK-JARDINE CONNECTION

A few days after I published part one of Project Hammer in late October 2001, I was alerted to an anonymous posting at the Cryptome.org website (<http://www.cryptome.org>) of a document produced by the South African National Intelligence Agency in 1998. The document describes plans, then alleged to be in preparation, for a coup to occur during the 1999 South African general election. Whilst the coup did not happen, the document is of significance because it describes members of—and entities aligned with—the group who wished to disrupt the ruling African National Congress (ANC) political party.³⁸

A large part of this document outlines the alleged involvement

of Executive Outcomes (EO), the British-based private security company that is part of the Palace Group of companies. A few days prior to this document being made available, I had published charts showing the "network" of the Palace Group that formed the London end of the associated South African intelligence group known as the Eastcorp Syndicate. This group was headed by Rolf van Rooyen and Riaan Stander—both South African intelligence operatives who were deeply involved in Project Hammer. Not only were the London and South African networks closely aligned, but in some cases they also shared the same executives.³⁹

One of the entities appearing on the Cryptome.org document as a member of the London network/Palace Group is Jardine Fleming of Hong Kong, listed under "Banking and Investments". Two lines beneath appears the name Defence Systems Ltd—a division of the arms manufacturer, Vickers. Jardine Fleming is also listed in the same document as a "role player", a few lines beneath the name of Tony Buckingham—the high-profile head of Executive Outcomes. In an accompanying financial report it is revealed that EO used account number 600774426 at

Jardine Fleming Bank Limited, located at Port Moresby, Hong Kong. The account, rendered as at 15 May 1998, held a balance of US\$36 million, and included Tony Buckingham among those authorised to sign cheques on the account.

Jardine Fleming Bank Limited was established in 1970 as a joint venture between the huge transnational company, Jardine Matheson Limited, and British merchant bank, Robert Fleming. Jardine's 50% stake in this Hong Kong bank was exchanged in 1999 for a direct 18% stake in Robert Fleming, which in April 2000 was sold to the Chase Manhattan Corporation—the holding company of what is now the huge US bank of J. P. Morgan Chase. But a year later, in May 2001, the magicians' musical chairs were in use again when it was announced that Jardine Fleming Bank was to be sold by J. P. Morgan Chase to Standard Bank. The transfer of ownership occurred on 3 July 2001, with the renaming of Jardine Fleming Bank to Standard Bank Asia Limited, but trading was under the new name of Standard Jardine Fleming Bank Limited.

An examination of these "rhythms" leads to the companies, people and intelligence assets that sit at the heart of the so-called Anglo-American relationship.

Of considerable significance is the fact that, at the time that Jardine, Emmett & Chandler—the firm of Boston insurance brokers mentioned earlier—issued its letter on behalf of MidAval, seeking collateral instruments, it was owned by Jardine Matheson Limited. Meanwhile, Jardine Resources Limited, with an address in the Isle of Man, was a business entity used by Rolf van Rooyen for collateral trading programme and other activities. The Isle of Man also boasted a branch of Jardine Fleming Bank Limited.

Jardine Matheson Limited, originally formed over 170 years ago, created a fortune from the China opium business. Since that time it has diversified enormously and remains the family fiefdom of the Keswick family, descendants of the firm's co-founder, William Jardine. The Keswick clan, in addition to having had family members awarded the chairmanship or directorship of such notable international companies as Hongkong & Shanghai Bank, Rio Tinto Zinc and Samuel Montagu (the London merchant bank that was part of the Midland Bank Group, itself now owned by HSBC), is also able to boast having had family members as the head of Britain's Secret Intelligence Service (SIS) and decades-long membership of the Court of the Bank of England.

Rio Tinto Zinc (RTZ) was founded in 1873 by Hugh Matheson, the co-founder of Jardine Matheson. In 1995, RTZ acquired a minority ownership in Freeport McMoRan. Anglo American (which has long had very close ties with RTZ), together with De Beers, is the fiefdom of the Oppenheimer family, which owns a significant piece of Lonrho. These three intertwined conglomerates dominate the precious metals and mining world—amongst achieving other notable accomplishments. For example, the Oppenheims' Minorco holding company is believed to be the single largest investor in the United States.

Minorco, founded in 1981, was quick to obtain an interest in America's then biggest bank, Citibank, whose CEO, Walter Wriston, together with Citibank's principal attorney, Robert Clare, a partner of the powerful law firm of Shearson & Sterling, both accepted invitations to sit on the Minorco board.⁴⁰

According to the authors of the book *Dope, Inc.*, the Keswick family controls a substantial part of the world's narcotics trade and uses HSBC, the bank it is said to control, to "provide centralized rediscounting facilities for the financing of the drugs trade".⁴¹

How true this is remains unknown to this writer, but it is known that Li Ka-shing—the Chinese billionaire who owns a 3% stake in Jardine Matheson Limited and has sat on the board of HSBC—has been accused of being a member of Chinese intelligence as well as being associated with the narcotics trade.⁴² Indeed, the latter allegation arose repeatedly during my investigation of Project Hammer, while the use of HSBC as an "authorised six-point laundry" was also mentioned. Meanwhile, the description of "centralized rediscounting facilities" referenced by the authors of *Dope, Inc.* is suggestive, to this writer at least, of collateral trading techniques.

Such connections are almost endless, it seems. Take, for example, the rise to fortune of Peter Munk, Chairman of Barrick Gold which was formed in Toronto, Canada, in 1983, with the majority stake being held by the Saudi royal family middleman and arms dealer, Adnan Khashoggi. Khashoggi had long been associated

with Ferdinand and Imelda Marcos and the so-called Marcos gold. Indeed, so trusted was he that Marcos had him fronting for two "eclipsed" Marcos accounts—one in the name of Etablissement Mabari with the private Swiss bank of Lombard Odier & Cie, and the other in the name of Etablissement Gladiator at COGES Corratierie Gestion SA, Geneva. Of interest, too, is the fact that Sir Henry Keswick is reported to have been responsible for "lifting" Munk to a new career, although he also received patronage from Australia's now-deceased multi-billionaire businessman Sir Peter Abeles.⁴³

Sir Peter received considerable attention in Jonathan Kwitny's excellent book, *The Crimes of Patriots*, because of his alleged Mafia connections and close association with Bernie Houghton and Michael Hand in the CIA drug smuggling laundry, the Nugan Hand Bank—which also arranged to ship gold bullion surreptitiously for Marcos.

At this point, it is worth reminding readers that Brigadier-General Erle Cocke—whom I referenced earlier concerning his affidavit detailing his knowledge and involvement in Project Hammer—was reported by Kwitny to be a key player in the Nugan Hand Bank. And Project Hammer is said to be a general continuation of Nugan Hand Bank activity.

Brigadier-General Erle Cocke was reported by Kwitny to be a key player in the Nugan Hand Bank. And Project Hammer is said to be a general continuation of Nugan Hand Bank activity.

MARITIME FINANCING

The ties that bind are kept hidden from public view. Activities such as the one we have been discussing are made to operate on an "arms length" basis to confuse and also to ensure deniability. Following these subterranean and diverse threads can easily perplex the investigator, and patience and persistence are required to arrive at the reality that is hidden behind all the smoke and mirrors. The story of Puffin Investments is a case in point.

During a number of extensive telephone interviews with the Canadian, Barrie Wamboldt, it was hinted that it would be worthwhile to look into the activities of an Alan Shepherd and a firm of his called Puffin Investments. Readers will remember that Barrie Wamboldt was involved with Project Hammer and had worked with General Cocke and Paul Green to recover Project Hammer funds.

Puffin Investment Company Limited, a Bahamas company, was owned by Old Harrovian Alan Shepherd, who had connections to the British royal family resulting from generous donations he made to the Royal Windsor Horse Show, of which he was vice president. In March 2001, Shepherd and Puffin Investments were involved in a High Court action initiated by the Financial Services Authority—the government watchdog—for enticing investors to put up money for a "sham" investment trading programme. According to the *Sunday Express* newspaper, reporting on the court case, up-front fees paid by investors on the promise of massive returns were not repaid.⁴⁴

A week later, on 1 April 2001, the *Sunday Express* carried a further report detailing a lawsuit against Alan Shepherd, his American wife Sherry and previous Conservative Party "grandee" Sir Edward du Cann, who was the former Chairman of City merchant bank Keyser Ullman. Sir Edward was earlier involved in Tradeswind, an arms trading company in which he was a director with Tiny Rowland of Lonrho fame and the Egyptian, Ashraf Marwan—known as "Dr Death". Earlier in his career, du Cann

served as Chairman of Lonrho, thus working alongside board directors such as British MI6 luminary Nicholas Elliot.⁴⁵

Shepherd, his wife Sherry and du Cann were being sued for £1.25 million in a dispute involving the search for "one of the world's most fabulous buried treasures". The treasure in question was "30 tons of gold statues, bullion, doubloons and precious stones", stolen by Scottish pirate Captain William Thompson. The treasure was currently valued at £500 million. The lawsuit was brought by Richard Bethell of the Bermuda-based Hart Group, who alleged that Shepherd and du Cann were guilty of "misrepresentations" over an agreement for the provision of various "services" to Shepherd's planned treasure hunt.

One cannot help but be reminded of stories that have circulated in the past concerning gold plundered by the Japanese during WWII and hidden in the Philippines—later to be recovered and "laundered" as treasure retrieved from Spanish galleons that had sunk while travelling from Peru to Spain. A variation of this story is the recovery of lost "pirate treasure"—otherwise known as gold—on the Cocos Islands.

Richard Bethell—elevated to Lord Westbury following the recent death of his father—is a former SAS and Scots Guards officer and, like Alan Shepherd, an Old Harrovian. The Hart Group, of which he is the Chief Executive Officer, is one of a number of companies that form the Global Marine Security Systems Company (GMSSCO). A distinct cynic—as this writer has become—would easily conclude that a marked similarity in structure exists between GMSSCO and Rolf van Rooyen's South African Eastcorp Syndicate that was closely allied with the London network of Executive Outcomes. For example, companies belonging to the Eastcorp Syndicate also had a maritime and security theme.

APARTHEID'S MISSING BILLIONS

But the similarity doesn't end there. Lord Westbury is currently serving as Chief Executive Officer of Defence Systems Limited (DSL), which, as we have already seen, is an *integral* member of the London network of the Palace Group (named so because of its close proximity to the royal family's official London residence, Buckingham Palace).⁴⁶ Moreover, Executive Outcomes has been described as "the advance guard for major business interests engaged in a latter-day scramble for the mineral wealth of Africa".⁴⁷

This is a particularly incisive description, and readers of the first part of this series will recall that one aspect of Project Hammer apparently involved the disappearance of substantial quantities of gold reserves, as well as stocks of De Beers diamonds, just prior to the takeover of the Republic of South Africa in 1994 by Nelson Mandela and the ANC. This theft has become known as "apartheid's missing billions".

Defence Systems Limited has a client list that comes straight from the top drawer and includes oil and gas companies like British Petroleum, Shell and British Gas of the UK and Amoco, Chevron, Exxon, Mobil and Texaco of the United States. Major mining and mineral extraction companies such as Canada's Cambior and De Beers and Anglo American of South Africa also feature, as does the giant US construction firm, Bechtel.

Another client is Canadian-based Ranger Oil, which by happy coincidence is the same name as an entity that forms part of the Palace Group and which is run by arms trader Mick Ranger. By miraculous good fortune, Mick Ranger was also a board member of Bridge SA—one of the entities formed and run by Rolf van Rooyen and Riaan Stander. Meanwhile, Sandline, which many knowledgeable insiders believe is Executive Outcomes by another name, has a client base that includes Rio Tinto Zinc.

DSL is now owned by Armor Holdings, Inc. of Jacksonville, Florida, but is still headquartered in London. This affiliation seems, on the face of it, to be a particularly binding one, for Armor Holdings is said to have its very own US spook-type "network".⁴⁸ The senior executives of Armor Holdings are predominantly bankers of one strain or another. Take, for example, Thomas W. Strauss, formerly a Vice Chairman of Salomon Brothers, the Wall Street investment bank that was once minority owned by the Oppenheims' Anglo American and De Beers strategic holding company, Minorco.⁴⁹ Until 1993, Salomons owned the controlling interest in the Bank of New York, which, as you will recall, is the current affiliated clearing bank of Gregory Serras's Vanguard Capital. Today, Salomons is owned by Citigroup.⁵⁰

We might also mention Armor Holdings director Burr R. Ehrlich, whose family securities firm, Ehrlich and Boger, is owned by Cater Allen Bank of the Channel Islands, which specialises in "offshore finance"; likewise, Nicholas Sokolow, formerly a partner in the Wall Street firm of Coudert Brothers, and Warren B. Canders, a former Senior Vice President of Orion Bank Ltd, a merchant bank owned by the Royal Bank of Canada.

A subsidiary of Armor Holdings is the very shadowy United States Defense Systems, Inc. (USDS),

which on paper is based in Chantilly, Virginia, although its real operating headquarters are in Manassas, Virginia. Staff recruited by USDS are usually former military types or specialists with criminal intelligence backgrounds and possessing surveillance skills. They are usually told they will be working in support of Department of Defense programmes and will require a DoD security clearance. Operations in the past have included surveillance of US citizens during Fourth of July events at Capitol Mall in DC.⁵¹

BIN LADEN AND SAUDI ARABIAN LINKS

A Google Internet search using the search term "Armor Holdings, Inc." revealed a curious message dated September 2001 from an aggrieved investor:

"I'm horrified to find one of my investments is in a company with links to bin Laden. Apparently it is common knowledge in London that a senior figure in Armor, Ambrose Cary, has familial ties to bin Laden and uses those in his work. How can it be allowed that a US company providing security to US companies, embassies and airports round the world can deal simultaneously with this type of person? Does anyone else have further information on this?"

Unsurprisingly, no answer to the question has been posted.⁵²

Had this been the first bin Laden connection, it is likely I would have ignored it. However, the name had already arisen during a

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deposition given by Rolf van Rooyen to German police in 1995, following his detention and questioning. At that time, he admitted to being "involved" with a Jean Ruiz, of Saudi Finance.⁵³

Saudi Finance (Saudifin), headquartered in Geneva, owned a controlling interest in Banque Al Saoudi via the Paris-based holding company, Saudi Arab Finance Corporation. Banque Al Saoudi was, according to a 1999 PBS Online *Frontline* story, one of the principal international financing vehicles for the bin Laden family. Interestingly, in 1989—in the early stages of Project Hammer's timeline—Banque Al Saoudi would have collapsed in bankruptcy had it not been for the timely intervention of the French central bank, the Banque de France, which shored it up prior to a partial takeover by none other than Banque Indosuez, which decided to change its name to Banque Française pour l'Orient. A year later, the bank merged with the Méditerranée Group. Of note is the fact that a subsidiary, Saudifin SA, was active in Panama until 1997, when it was dissolved.⁵⁴

Moreover, the *Frontline* story revealed that both Banque Al Saoudi and Banque Indosuez were "instrumental" in financing a portion of Middle East weapons contracts during the 1970s and 1980s.

Meanwhile, those who are familiar with the story of black gold will recall that Dr Ole Bay was the controller on behalf of the CIA and US Treasury in the YAB/42 bullion transaction that involved then President Marcos of the Philippines. This transaction was structured to use cut-outs including Navegocian Global SA and DuPont, along with other CIA conduits, to make it ostensibly a private, non-government transaction.

The transaction code YAB/42 is also instructive. Not only does "YAB" spelled backwards yield the name "BAY" but, altogether, 42 "major trusts were tapped to help fund" the deal. Coincidentally, 42 is also the number of countries in which Santa Romana gold was deposited in the immediate post-WWII years to form the Black Eagle fund, discussed earlier.⁵⁵

One of the more salient facts about the Puffin Investments fiasco is that Alan Shepherd's American wife, Sherry, is the daughter of Dr Ole Bay. Dr Bay is known to have been the "Master Wizard" who arranged and ran the Project Hammer trading programme. According to one former intelligence source familiar with the inner workings of Project Hammer, Dr Bay had told him that the ultimate responsibility for Hammer lay with the CIA and the US Treasury, and that Robert Rubin—who later became US Treasury Secretary—acted as Dr Bay's "gofer" on the project. Robert Rubin is now a director and Chairman of the Executive Committee of Citigroup.

If one had to choose a word to describe these apparently diverse connections, that word would surely have to be "incestuous".

Currently, Li Ka-shing (whom we mentioned earlier) is bidding to purchase control of the global communication network giant, Global Crossing (which was also mentioned earlier), via a joint venture of Ka-shing's Hutchison Whampoa and Singapore Technologies Telemedia. Representing Ka-Shing's bid to take control of Global Crossing was the powerful neo-conservative attorney, Richard Perle, who sought a nod of approval from the Pentagon for the deal. Perle, who is one of the present Bush Administration "think-masters", is close to Bush Senior, Cheney,

Rumsfeld and Wolfowitz and to others on the Defense Policy Board, which he chaired.

A recent story by legendary investigative reporter Sy Hersh revealed that Perle had furtively met with a leading Saudi investor in Marseille, France, on 3 January 2081

03, in what was seen as an attempt to gain private financial advantage from the planned war on Iraq. A furious Perle responded to the report by calling Hersh a "terrorist". The meeting was arranged on Perle's behalf by none other than Adnan Khashoggi (whom we mentioned earlier). Khashoggi also attended the meeting.

Khashoggi, a trusted adviser to the Saudi royal family, is one of the "high net worth individuals" whose past investments have been handled by Mayo Shattuck, formerly head of Alex. Brown (also mentioned earlier). It is of passing interest that Saudi Prince Alwaleed bin Talal bin Abdulaziz took a 10% stake in Citigroup (also mentioned earlier) back in 1991, following a cash "infusion" of US\$400 million, which was eclipsed from view by The Carlyle Group which acted as the facilitator for the investment.

In 1997, Mayo Shattuck was made Trustee of the Bronfman (also mentioned earlier) family fortune. He resigned as CEO of Deutsche Banc Alex. Brown on 12 September 2001, the day following the tragic events in New York City and Washington, DC—the day that has come to be known as "9-11".⁵⁶

On 13 September 2001, news reports began circulating of suspicious stock market transactions that suggested prior knowledge of the events that were to take place on 9-11. Short sales of airline and insurance stocks that sharply fell in price in the wake of the 9-11 tragedy were later traced back to

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Alex. Brown.

Author's Note:

Documents and other exhibits in support of this story are available on my website, <http://www.deepblacklies.co.uk>, where they can be downloaded by interested readers.

About the Author:

David Guyatt spent 28 years as an investment banker in the City of London. His last position was as a divisional Treasurer of a major international bank. David now pursues a career in journalism, writing for a variety of media and researching and producing factual material on a wide range of associated subjects. This is his 10th article for NEXUS, the most recent published in 9/01–9/02 ("Project Hammer" parts 1 and 2).

In addition to his feature writing, David has prepared background papers on Anti-Personnel Electromagnetic Weapons for the International Committee of the Red Cross (ICRC), was a contributing member of ICRC's SlrUS Project that sought to define criteria for judging "abhorrent weapons", and has written for the World Development Movement on his "insider's knowledge" of international weapons financing. He has been a consultant on Swiss and UK TV documentaries, exposing the threat of non-lethal weapons and Britain's weapons trail to Indonesia. He assisted the US-based law firm Easton & Levy in its lawsuit against the Vatican for the restitution of the Nazi Croatian

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**If one had to choose a word
to describe these apparently
diverse connections,
that word would surely
have to be "incestuous".**

VEDIC MATHEMATICS REDISCOVERED

Vedic Mathematics is the name given to the ancient system of mathematics which was rediscovered from the Vedas between 1911 and 1918 by Sri Bharati Krsna Tirthaji (1884–1960).

According to his research, all of mathematics is based on 16 *sutras*, or word formulas. For example, "Vertically and Crosswise" is one of these *sutras*. These formulas describe the way the mind naturally works, and are therefore a great help in directing the student to the appropriate method of solution.

Perhaps the most striking feature of the Vedic system is its coherence. Instead of being a hotchpotch of unrelated techniques, the whole system is beautifully interrelated and unified. The general multiplication method, for example, is easily reversed to allow one-line divisions, and the simple squaring method can be reversed to give one-line square roots. And these are all easily understood. This unifying quality is very satisfying; it makes mathematics easy and enjoyable and encourages innovation.

"Difficult" problems or huge sums can often be solved immediately by the Vedic method. These striking and beautiful methods are just a part of a complete system of mathematics which is far more systematic than the modern "system". Vedic mathematics manifests the coherent and unified structure of mathematics, and the methods are complementary, direct and easy.

The simplicity of Vedic mathematics means that calculations can be carried out mentally (though the methods can also be written down). There are many advantages in using a flexible, mental system. Pupils can invent their own methods; they are not limited to the one "correct" method. This leads to more creative, interested and intelligent students.

Interest in the Vedic system is growing in education, where mathematics teachers are looking for something better and finding that the Vedic system is the answer.

Research is being carried out in many areas, including the effects on children of learning Vedic maths and the development of new, powerful but easy applications of the Vedic *sutras* in geometry, calculus, computing, etc.

But the real beauty and effectiveness of Vedic mathematics cannot be fully appreciated without actually practising the system. One can then see that it is perhaps the most refined and efficient mathematical system possible.

"On seeing this kind of work actually being performed by the little children, the doctors, professors and other 'big guns' of mathematics are wonderstruck and exclaim: 'Is this mathematics or magic?' And we invariably answer and say: 'It is both. It is magic until you understand it, and it is mathematics thereafter...'"

— Bharati Krsna Tithaji (1884–1960)
Rediscoverer of Vedic Mathematics

Research and Reconstruction

At the beginning of the 20th century, when there was a great interest in the Sanskrit texts in Europe, Bharati Krsna tells us some scholars ridiculed certain texts which were headed *Ganita Sutras*—which means mathematics. They could find no mathematics in the translation and dismissed the texts as rubbish.

However, Bharati Krsna, who was himself a scholar of Sanskrit, mathematics, history and philosophy, studied these texts and after lengthy and careful investigation was able to reconstruct the mathematics of the Vedas. According to his research, all of mathematics is based on 16 *sutras*, or word formulas.

Bharati Krsna wrote 16 volumes expounding the Vedic system, but these were unaccountably lost; so when the loss was confirmed in his final years, he wrote a single book, *Vedic Mathematics*. It was

published in 1965, five years after his death, and is still available.

Rekindled Interest in Vedic Maths

A copy of the book was brought to London a few years later and some English mathematicians (Kenneth Williams, Andrew Nicholas, Jeremy Pickles) took an interest in it. They extended the introductory material given in Bharati Krsna's book and gave many courses and talks in London. A book (now out of print), *Introductory Lectures on Vedic Mathematics*, was published in 1981.

Between 1981 and 1987, Andrew Nicholas made four trips to India, initially to find out what else was known about Vedic mathematics. As a result of these journeys, scholars and teachers in India showed renewed interest. It seems that once they saw that some people in the West took Vedic maths seriously, they realised they had something special.

St James's School, then in Queensgate, London, and other schools began to teach the Vedic system, with notable success. Today, Vedic mathematics is taught widely in schools in India and a great deal of research is being done. Three further books appeared in 1984, the year of the centenary of the birth of Sri Bharati Krsna Tirthaji. These were published by The Vedic Mathematics Research Group.

The Cosmic Computer

When Maharishi Mahesh Yogi began to explain the significance and marvellous qualities of Vedic mathematics in 1988, Maharishi schools around the world began to teach it. At the school in Skelmersdale, Lancashire, UK, a full course, called "The Cosmic Computer", was trialled for 11–14-year-old pupils.

Maharishi said that the *sutras* of Vedic mathematics are the software for the cosmic computer which runs the entire Universe on every level and in every detail. (Source: from the *VedicMaths.Org* web-site, <http://vedicmaths.org>)

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The Vedic Mathematics Sutras

This list of sutras is taken from the book *Vedic Mathematics*, which includes a full list of the 16 main sutras and 14 sub-sutras in Sanskrit, but in some cases a translation of the Sanskrit is not given in the text and comes from elsewhere.

Sutra	Translation
एकाधिकेन पूर्वेन	By One More than the One Before
निखिलं नवतश्चरमं दशतः	All from 9 and the Last from 10
लघ्वर्तितिर्यग्भ्याम्	Vertically and Cross-wise
परावर्त्य योजयेत्	Transpose and Apply
शून्यं साम्यसमुच्चये	If the <i>Samuccaya</i> is the Same, it is Zero
आनुरूप्ये शून्यं अन्यत्	If One is in Ratio, the Other is Zero
संकलन व्यवकलनाभ्यां	By Addition and by Subtraction
पूरणापूरणाभ्यां	By the Completion or Non-completion
चलनकलनाभ्याम्	Differential Calculus
यावदूनं	By the Deficiency
व्यष्टिसमष्टिः	Specific and General
शेषाण्यडेन चरमेण	The Remainders by the Last Digit
सोपान्त्यद्वयमन्त्यं	The Ultimate and Twice the Penultimate
एकन्यूनेन पूर्वमेव	By One Less than the One Before
गुणितसमुच्चयः	The Product of the Sum
गुणकसमुच्चयः	All the Multipliers

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Watching a child go through our education system is like watching reverse metamorphosis: in flies a beautiful butterfly; out crawls a caterpillar.

(from *If You Want To Be Rich And Happy, Don't Go To School*, by Robert Kiyosaki, 1992)

THE MAGIC OF VEDIC MATHEMATICS

by Jain © 2003

The gift that the Hindus gave to world, thousands of years ago, and which is currently employed in our global silicon chip technology, was none other than *the invention of zero and the use of the decimal point*. We call our common numbers "Arabic numerals" but, really, they extend back to the Hindu concept of creation and void known as *Bindu* or "the Zero Point". All Vedic mathematics is based upon the understanding of Unity consciousness, which means the utilisation of number bases that correspond to:

0, 10, 100, 1,000, 10,000, etc., all of which add to 1.

There are 16 *sutras*, or simple Sanskrit word formulas, which solve all known mathematical problems in the branches of arithmetic, algebra, geometry and calculus. They are easy to understand, easy to apply and easy to remember.

This Vedic one-line mental arithmetic is very helpful in stimulating modern mathematicians to adopt it for its simplicity and speed. Once initiated into these Vedic rules, students of all ages tend to appreciate and enjoy the enhancement of mathematics.

Vedic mathematics is a previously long-hidden treasure trove of intelligent mathematical knowledge, and it should be within easy reach of everyone who wishes to obtain it and benefit by it.

Vedic mathematics is a total system. The Vedic mathematician was also an astronomer, an engineer, a musician, a healer and a poet. The temple builder had no pen and paper; he simply calculated in his head.

So, you are out in the field and you need to tile a floor that is, say 98 units square. How do you do it with such mental ease? Let's look at some practical examples.

The Squaring of Numbers Near a Base

To solve 98 squared (98×98 , or 98^2), we must first determine what base we are in. It is close to 100, therefore we say Base 100. We must now choose one of the 16 major *sutras* to solve the problem. The one to use here is called **"By the Deficiency—by whatever the deficiency, lessen it further by that much and set up the square thereof"**. Sounds cryptic and meaningless, yet it quickly solves the problem.

We get our answer by merely knowing how much is 100 less 98. Knowing that the deficiency is 2, we merely lessen 98 by 2 and then we tag on the squaring of that 2. As a one-line answer, the setting out would appear as thus:

$$98 \text{ squared} = 98 - 2 / 2 \times 2$$

Simplifying it: $= 96 / _ 4$

We almost have our answer. What we need to know is that since our base is 100, it has two zeroes; therefore, this fact governs the need for two spaces for two zeroes or digits after the "forward slash" symbol (/). By inserting or inventing the zero as a "place marker", the answer is achieved:

$$\begin{aligned} 98 \text{ squared} &= 96 / 04 \\ &= 9604 \end{aligned}$$

Observe similar examples:

$$\begin{aligned} 97 \text{ squared} &= 97 - 3 / 3 \times 3 \\ &= 94 / 09 \\ &= 9409 \end{aligned}$$

$$\begin{aligned} 96 \text{ squared} &= 96 - 4 / 4 \times 4 \\ &= 92 / 16 \\ &= 9216 \end{aligned}$$

When the number being squared is above the base—of 100, here—we add the excess and square the excess:

$$\begin{aligned} 104 \times 104 &= 104 + 4 / 4 \times 4 = 108 / 16 = 10,816 \\ 104 \times 105 &= 104 + 5 / 4 \times 5 = 109 / 20 = 10,920 \end{aligned}$$

What if we enlarged our numbers to 998 squared? It is close to 1,000, so we say Base 1,000 and know to have three spaces (for zeroes or digits) on the right hand side of the (/).

$$\begin{aligned} 998 \text{ squared} &= 998 - 2 / 2 \times 2 \\ &= 996 / _ _ 4 \\ &= 996 / 004 \\ &= 996,004 \end{aligned}$$

Understanding this, you can be calculating digits in the millions:

$$\begin{aligned} 9998 \text{ squared} &= 9998 - 2 / 2 \times 2 \\ &= 9996 / _ _ _ 4 \end{aligned}$$

Since we are in Base 10,000, the four zeroes determine the need for four spaces (zeroes or digits) after the (/).

$$\begin{aligned} &= 9996 / 0004 \\ &= 99,960,004 \end{aligned}$$

There is a worldwide debate currently raging about the efficacy of Vedic mathematics versus the crumbling foundations of Western mathematics. Generally speaking, the theorems we all learned at school are not wrong, but clumsy. Some of the Western geometrical formulas are certainly inadequate. For example, the formulas for sphere packing in the higher dimensions increase up to the sixth dimension, then suddenly decrease for higher dimensions, which is simply absurd.

Unfortunately, some diehard senior mathematicians, in an attempt to protect the crumbling foundations that they now stand on, feel threatened by the lightning-quick mental calculations of Vedic mathematicians and go to great lengths to deride Vedic maths as a "bag of tricks".

The Squaring of Numbers Ending in Five

Here is another example illustrating the Vedic mathematical system's utter simplicity in demonstrating "the path of least resistance". If we wanted to square the number 25, i.e., 25×25 , we would conventionally take three lines of working out. Vedic mathematics merely looks at the question, applies one of the 16 *sutras*, and solves it mentally in one line. In this case, the *sutra* at work is **"By One More than the One Before"**, that is, the previous digit.

We observe that 25 is a two-digit number and 5 is the last digit, but we are mainly interested in "the previous digit", which is 2. We say, mentally, "What is one more than two? It is three." The word "By" in the *sutra* really means "to multiply". The setting out for the first half of the answer is thus:

$$\begin{aligned} 25 \text{ squared} &= 2 \text{ "by" } 3 / \dots \\ &= 2 \times 3 / \dots \end{aligned}$$

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To this we tag on the last digit "5" squared:

$$= 2 \times 3 / 5 \times 5$$

$$= 6 / 25$$

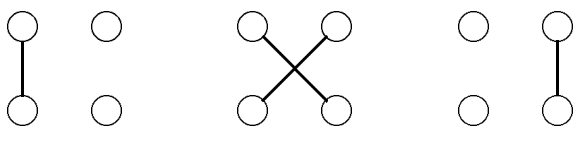
$$= 625$$

Similarly, all other numbers that end in 5, when squared, can be calculated instantly:

$$\begin{aligned} 15 \text{ squared} &= 1 \times 2 / 5 \times 5 = 2 / 25 = 225 \\ 35 \text{ squared} &= 3 \times 4 / 5 \times 5 = 12 / 25 = 1,225 \\ 45 \text{ squared} &= 4 \times 5 / 5 \times 5 = 20 / 25 = 2,025 \\ 95 \text{ squared} &= 9 \times 10 / 5 \times 5 = 90 / 25 = 9,025 \end{aligned}$$

Sutra: "Vertically and Crosswise"

Here is another simple sutra, the one that Bharati Krsna Tirthaji refers to as most widely used, called "**Vertically and Crosswise**". It solves all multiplication by application of a pattern, which is registered by the right brain as feminine-natured mathematics (in contrast to the logical, male, left-brain style of mathematics generally taught at school).



This sutra shows we will have a three-digit answer, represented by the three short horizontal lines.

Here is how we traditionally write the setting out for "26 x 31":

$$\begin{array}{r} 26 \\ \times 31 \\ \hline \end{array}$$

Notice there are four digits involved. Let each digit be represented by a small circle or dot, according to the format shown in the diagram above. This will help you understand "cross-addition", which is shown as the middle part [(2 x 1) + (6 x 3)] and uses both multiplication and addition in the form of the letter "X", corresponding with the crossover of the optical nerve in the brain. (Below, the small letter "x" stands for multiplication.)

$$\begin{array}{rcll} = 2 \times 3 & (2 \times 1) + (6 \times 3) & 6 \times 1 & \\ = 6 & 20 & 6 & \text{"2" is carried over} \\ = & 8 & 0 & 6 \\ = & 806 & & \end{array}$$

Sutra: Digital Sums for Multiplication by Eleven

When computer users need to move large volumes of electronic data efficiently, the solution employed is invariably compression. "**Digital Compression**" (or "**If the Samuccaya is the Same, it is Zero**") is a powerful sutra that solves multiplication by 11 very quickly. If we want to multiply 25 by 11, we merely add the two digits of the 25 and say "2 + 5", which equals 7, and insert that digit between the other two digits. Thus the answer is 275.

Another way of showing this is to separate the two digits and insert their digital sum:

$$\begin{aligned} 25 \times 11 &= 2 \quad (2 + 5) \quad 5 \\ &= 2 \quad 7 \quad 5 \\ &= 275 \end{aligned}$$

In this example, the "1" of the "12" gets carried over to the left

$$\begin{aligned} 39 \times 11 &= 2 \quad (3 + 9) \quad 9 \\ &= 2 \quad 12 \quad 9 \\ &= 329 \end{aligned}$$

VEDIC NUMERICAL CODIFIED KNOWLEDGE

How the ancient seers sang the long decimal form of Pi

In ancient India, they would sing songs to memorise long decimals. The Brahmins or scholarly caste, secretive of their knowledge, sonically encrypted mathematical formulas into their devotional praises or hymns to Lord Sri Krishna and also recorded historical data in codified lyrics.

The system has similarities with numerology, where values of numbers are ascribed to consonants (as in A = 1, B = 2, C = 3, D = 4), but the Vedic numerical code was so sophisticated in Sanskrit that it possessed three layers and therefore triple meanings.

It turns out that the decimal form of the transcendental number,

$$\text{Pi} = 3.1415926535897932384626433832792\dots,$$

was hidden or codified in the syllables in the following chant:

*Gopi Bhagyamaduv rata
 Shringishodadi Sandiga
 Kala Jeevitarava Tava
 Galaddhalara Sangara*

The top line, *go* = 3, *pi* = 1, *bha* = 4, *ya* = 1, *ma* = 5, *dhu* = 9, *ra* = 2, *ta* = 6, etc., gives the first eight figures of *pi* (π), the ratio of the circumference of a circle to its diameter.

Not only did the code give *pi* to 32 decimal places, but there was a secret Master Key within the patterning of the 32 that could unlock the next 32 decimals of *pi*, and so on—a ticket to infinity!

The code not only praised Krishna, it operated on another level as a dedication to Shankara. (Around AD 800, Shankara was a celebrated *acharya*, or teacher, who founded four monastic orders. He could read at the age of two and had mastered the Vedas by the time he was eight. He wrote scholarly commentaries on *The Bhagavad-Gita* and Upanishads, which led to the decline of Buddhism in India. He is considered a partial incarnation of the avatar Shiva.)

An Ancient System for the Modern Age

In conclusion, I believe the time has come for all secret knowledge of the past to be kept secret no longer. It is time for the ancient seers' infallible mental and one-line system of Vedic Mathematics to be reintroduced. ∞

About the Author:

Jain is the author of nine self-published books on Sacred Geometry, which he has actively been researching and teaching for over 20 years. Topics include: Magic Squares and their Atomic Artforms; the Vedic Square and its Digital Sums; the *Phi* Proportion or the Living Mathematics of Nature; the Five Platonic Solids and the 13 Archimedean Solids; and Vedic Mathematics

As an authorised school performer in a travelling show called "Mathemagics", Jain has taught thousands of children and adults in Australia the wonder of the pure mathematical principles relating to Atomic Art and discovery. He is currently writing a series of four books covering the Vedic Mathematics Curriculum for the Global School.

If you would like a copy of Bharati Krsna Tirthaji's only book, *Vedic Mathematics*, or the video, *Vedic Mathematics for the New Millennium – Part 1: The Magic of Nine* (see reviews this issue), contact: Jain, 777 Left Bank Road, Mullumbimby Creek NSW 2482, Australia, telephone +61 (0)2 6684 4409, email jain42@byrononline.net.

ANTI GRAVITY

HOLY GRAIL OF THE 21ST CENTURY

**British Aerospace,
NASA and
independent
researchers
worldwide are on a
quest to understand
the mysteries of
hyperdimensional
physics and unlock
the secrets of
antigravity.**

by Bruce A. Smith © 2003

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A Primer on the Role of Electromagnetic, Electrostatic and Torsion Fields in Antigravity and Field-Effect Propulsion

While singing in the shower before visiting a University of Washington physics professor to talk about electrostatic propulsion and hopefully antigravity, I realised: *Hey, birds defy gravity. So do 747s, for that matter. They apply the laws of physics and lift off the ground. That's antigravity, isn't it?* Yes, that's true, I suppose in a metaphorical sense. Seagulls, jumbo jets and spacecraft all manifest antigravitic effects, strictly speaking, but the kind of phenomenon I want to address here is not the overcoming of gravity but, instead, the neutralising of it.

Dr Eugene Podkletnov and the Hunt for Antigravity

Dr Eugene Podkletnov, one of the foremost researchers in antigravity and whose work is sought by NASA, Boeing and British Aerospace (now known as BAE Systems), describes the hunt for antigravity as the greatest scientific quest of this century. He calls for an international effort, akin to the Manhattan Project that developed the atomic bomb, to conquer the secrets of antigravity and usher in a new era of scientific understanding whose technological development will be at a scale so vast that the potential outcomes are merely hinted at by our previous achievements. Just getting such a project off the ground will require unprecedented international cooperation, and public disclosure as well—the potentials are that vast, that scary, and that dangerous.

Dr Dan Marckus, noted British avionics expert, states in *The Hunt for Zero Point*—the seminal work to date on antigravity, written by *Jane's Defence Weekly* aviation editor Nick Cook—that the secrets of antigravity in the wrong hands will make thermonuclear weapons look like firecrackers.

The secrecy surrounding antigravity research is phenomenal. Boeing refuses to acknowledge publicly any activity in antigravity development despite the fact that its competitor and sometime subcontractor British Aerospace (BAE Systems) does—and has provided funds for four university research efforts as part of its Project *Greenglow*, one of which was a Podkletnov replication experiment headed by Dr Clive Woods at the University of Sheffield. Further, Nick Cook publicly, and privately to me in an email, states quite directly that George Muellner, former director of Boeing's ultra-secret Phantom Works, claims Boeing sought the services of Dr Podkletnov to unlock the secrets of his gravity-shielding research. Cook says that Muellner states Boeing was denied Podkletnov's services due to the objections of Russian officialdom—which the Russian-born Podkletnov must pay attention to, apparently, despite the fact that he works in Tampere, Finland. Dr Podkletnov, wisely perhaps, chooses not to clarify these particulars despite our several emails.

Perhaps Boeing can deny any activity on antigravity because NASA is doing its own research, and as a prime contractor to NASA, such as by running the Space Shuttle Program, Boeing probably knows what NASA knows. NASA spent US\$600,000 recently in its Breakthrough Propulsion Physics (BPP) program to purchase Podkletnov replication equipment. Inexplicably, that equipment sits in boxes in NASA's Marshall Research Center in Huntsville, Alabama, awaiting more funding, according to an email I received from NASA propulsion researcher Ron Koczor.

But enough of the cloak-and-dagger business. What do we know about antigravity?

The search for that answer has taken me to some exciting and obscure places in this world, like the Aeronautics and Astrophysics lab at the Seattle campus of the University

of Washington. I called those folks because Nick Cook, in *The Hunt for Zero Point*, mentions that UW received a NASA contract to study theories of inertia as part of its BPP program. *That's a good place to start*, I thought, but it took backtracking to BPP Project Director Marc Millis at NASA's Glenn Research Center in Cleveland to find Dr John Cramer at the UW Physics Department. His mission was to confirm with Dr James Woodward the latter's 1996 preliminary research into the loss of gravitational mass in a targeted piece of metal from oscillating capacitors. Although Woodward's initial data appeared encouraging, NASA's Millis told me that their funding dried up before they'd completed their research.

Furthermore, the entire BPP became unfunded in 2002, and now, in 2003, has become a hazy, privatised version of its former NASA subset self.

Electromagnetic Containment of a Plasma Field

However, the University of Washington is continuing related research, such as into magnetically confined fusion energy generators—and by using electromagnetism to contain an inner field, this, in my view, makes it a close cousin of antigravity and field-effect propulsion.

I spoke with Professor Uri Shumlak who told me that he and other UW staff from the Department of Aeronautics and Astronautics, along with a bevy of their grad students, are building a prototype of a fusion generator called an HIT, which stands for Helicity Injected Torus. Doughnut-shaped, the torus encloses a roundish chamber. Within that chamber a vacuum is first created, and then a volume of hydrogen gas is introduced and heated to a few million degrees Celsius, which separates the electrons and protons from their atoms, turning the whole stew into a quasi-neutral foam of plasma. Then the torus envelops the plasma with a magnetic field to keep it away from the sides of the chamber, enabling the plasma mass to stay hot and keeping the rest of Seattle cool. (While I was standing next to his little eight-foot-long gizmo, Prof. Shumlak assured me there was no danger of a couple of million degrees of heat escaping. The heat density of the plasma was "too low" for me to, well, break a sweat over. His quote was, "There's no more heat mass inside that chamber than what's contained in a cup of coffee." I sure hope you're right, Doc.) Then, once the plasma field is contained, the magnetic field squeezes the plasma, fusing the nuclei of one hydrogen atom into another. As the hydrogen couples combine, a helium atom is created and a neutron is released, along with lots of energy in the form of heat.

One day, such a generator will give us unlimited amounts of electricity, as the heat can be transferred to other mediums to produce voltage. The UW predicts lots of electrical power on the cheap, and the Department of Energy agrees—once the details of building reliable magnetic field generators are solved.

What does magnetic fusion have to do with antigravity? Two things: firstly, magnets. Electromagnetism seems to be one of the major players in antigravity, particularly the use of electromagnetic fields to contain other fields, such as plasma fields in the HIT or torsion fields in antigravity devices—but more about that later. Secondly, the HIT works—or is about to work. It's real, and mainstream science embraces it; while antigravity is, well, a

little more "out there" and reliable data harder to obtain. So the technology of HIT lays a base that other research can build upon, such as not only containing other fields but also building field-effect propulsion systems, the most elementary of which is electrostatic propulsion—and aspects of this are already being applied by NASA.

Electrostatic Propulsion Systems

Electrostatic propulsion uses electrical fields differently than electromagnetism does. In EM a current flows and creates a field, while in electrostatic systems the current is static and a charge builds up in a field, such as in a capacitor or a fuel tank.

These theories are utilised on NASA's *Deep Space I*, a probe bound for the outer reaches of our solar system. On board the probe, the propellant—a tankful of xenon gas—is excited electrostatically into positive ions. The containment vessel of the engine has a negative charge at the exit end, so the charged xenon rushes out the tail pipe with a greater thrust than if it was just using conventional chemical propellants. In fact, the electrostatic propulsion system on *Deep Space I* allows it to fly at 60,000 mph, or 10,000 mph faster than it would with a conventional rocket. In addition, only 82 kg of xenon is needed for its entire mission, so

with its smaller mass and weight the probe will fly alongside its intended target, a comet, and drag-race on equal footing while filming and conducting studies. Again, not antigravity *per se*, but electrically charging *Deep Space I*'s fuel field sets the stage for a closer look at electrostatic propulsion.

Taking that closer look is Tim Ventura and his fellow researchers at American Antigravity, an organisation based in Kirkland, Washington. Ventura and his crew use electrostatic asymmetrical capacitors to create a field that levitates objects, such as their

small, kite-like "lifters". These lifters are very light, weighing only a few ounces, and have balsawood struts that support the capacitors. When two capacitors of different size and load receive their share of a 30,000-volt charge, the lifter lifts—with no motors, no wings and no apparent source of lift. How, no one really knows, in my judgement. The phenomenon is replete with controversy and mystery. But as one who has seen a lifter fly, let me tell you what one looks like and what I saw when Tim Ventura's took off.

Tim has been building lifters since he was a kid and has perfected a 4 x 4 x 4-foot triangular lifter which has flown so many missions in his garage that the silver aluminium foil has turned white. The thin, chopstick-like balsawood ribs that hold the aluminium foil in place are joined every few inches by a vertical strut (much like a telephone pole on an HO model railroad set) which sticks up and secures the copper or stainless steel wire of the upper capacitor. The ribs are intersected every 10 inches or so by the strut of an interior triangle, since the whole lifter is composed of interconnected isosceles triangles which give the necessary strength to the balsawood frame. All told, there is about 30 linear feet of aluminium foil and a similar run of wire.

The lower and larger capacitor is a strip of aluminium foil stretched between the horizontal balsawood struts. The second capacitor is a thin strip of 50-gauge wire mounted about one inch above the aluminium foil. As capacitors, they store electrical charge but don't pass it on in a current.

The secrecy surrounding antigravity research is phenomenal.

The negative lead goes to the lower aluminium foil, and the positive lead is attached to the upper wire. The three corners of the lifter are tethered to the work table so that the electrical leads from the power source are not broken off in flight.

The power source kicks out 15,000 volts at 250 watts. Tim uses a voltage generator made by Information Unlimited, Inc., but, before the current reaches the capacitors, the voltage is stepped up to 30,000 volts by Tim's home-made voltage multiplier stack. At full throttle, the lifter is straining at the tethers, bending the balsawood frame near the point of fracture.

The capacitors of the lifters are controversial, for asymmetrical capacitors are not supposed to hold charges of two different volumes. Yet the lifters fly and the question of how is a mystery that gets stacked on top of the controversy. But here is what happens.

Throw the switch, and at around 17,500 volts the lifter begins to quiver in take-off. At full power of 30,000 volts, the lifter is roaring and a noticeable downward breeze is observed. Many physicists call it "ion wind" and say that this is what causes the lifters to fly. But what exactly is ion wind, and can it be the cause of flight?

According to Ventura, "Ion wind is the movement of ionised air particles which flow downward according to electrical charge". Here's his theory. The positively charged wire on the top part of the lifter steals electrons from the surrounding air, leaving the affected air molecules positively charged. These positively charged air molecules, or ions, then head *downward* toward the large source of negatively charged electrons generated by the aluminium foil. These air molecule ions are bigger and heavier than the electrons seeking them, so there is a net thrust downward, pushing the whole lifter up.

That's the theory—and, frankly, all I can do to verify it is to tell you what others tell me. Before I do that, though, let me tell you what I experienced while standing next to a levitating lifter. In flight, the lifter emits a high whining, hissing buzz, and I could feel a good breeze coming up at me from the work table underneath the lifter. Also, while standing next to the lifter but not touching it, the hair on the back of my head started to rise up in electrostatic-like fashion.

To analyse the air currents, Tim blew baby powder at the top of the lifter. The majority of the particulate cloud was drawn into the middle area of the lifter and then sucked downward. A kind of vortex was created at times, for intermittently I could see a cloud forming into an organised column beneath the lifter and then spreading out 360 degrees once it hit the work table surface.

Is that ion wind? Well, there certainly was a breeze, and it sure felt like air, but how would I know if it was ionic? Something definitely sucked the baby powder down, but was it more than just regular air blowing past me? Again, I don't know.

Is the movement of wind why lifters fly, regardless of whether the air is ionised or not, or is the wind just a by-product and not the propulsion? Could the capacitors be creating a field that neutralises gravity, allowing the craft to levitate? Or are they creating some kind of new field that is localised, the surrounding ambient field pushing this "field bubble" up—much like a helium balloon is pushed up by the surrounding heavier air trying to fill the emptier "field" of the lighter helium?

Ventura thinks at least two phenomena are at work. Ion wind is definitely one, he feels, for the breeze is self-evident. However, he thinks a second effect is at work, too, and many agree with him. Most speculation concerns what is called the Biefeld–Brown effect, the "Brown" being T. Townsend Brown, whose name is well known in early quantum research and whose work is prominently discussed in Nick Cook's *The Hunt for Zero Point*.

The Biefeld–Brown effect, according to Ventura, is the theory that low-efficiency, high-voltage, air-gapped capacitors with different or asymmetrical capacities generate a net directional force upward from the larger element to the smaller element, which on the lifter is from the aluminium foil to the wire. This force then pushes against the ambient energy field of the surrounding area, perhaps pushing against a more rigid energy field of the zero point energy field.

Brown apparently made his case for these electromagnetic effects, receiving patents in the 1960s for his research. NASA's Dr Jonathan Campbell at Marshall Research Center in Huntsville, Alabama, confirmed to me that recently he also has received a patent for his research into the thrust effects of asymmetrical capacitors.

However, prominent physicist Hal Puthoff—whose research cuts a broad swath across the fields of the "new physics", as featured in Lynne McTaggart's *The Field* and Nick Cook's *The Hunt for Zero Point*, and who was also the military's "top psychic" as the director for 12 years of the CIA's remote-viewing squadron—has a different perspective: "I'm quite certain at this point that the so-called 'lifter' phenomenon is just an electrostatic ion wind phenomenon, not 'antigravity'."

But Dr John J. Rusek, Adjunct Professor of Aeronautics and Astronautics at both Purdue University and the United States Air Force Academy, says that "Initial findings of 'classroom' experiments with lifters show ionic wind to be way too small a factor, by three orders of magnitude". Dr Rusek has formed a technology company, Swift Enterprises, to continue this

research and bring it to the level that is "presentable to the mainstream physics community".

Along these lines, Jean-Louis Naudin shows on his extensive website not only how to build a lifter but also several photos of research into the ion wind issue. Naudin's team has wrapped test lifters in plastic, yet they still produce antigravitational effects.

Dr Fran De Aquino's Space-time Bubbles

Others may have a clue to the second or even a third force at work. Researcher Fran De Aquino, professor of physics at Maranhão State University in São Luís, Brazil, has described in the literature that "bubbles of localised space-time" can exist in variance to the surrounding fields.

Anecdotal experience suggests that the lifters may be undergoing such space-time anomalies.

Tim Ventura has a heavy cast-iron bench vise on his work table. Intermittently, he gets zapped by a charge when he touches the vise. But his experience is seemingly out of time, because he gets zapped before he turns on the machine. He also gets zapped

Many scientists, including particle physicists at major US universities, claim not to have even heard of torsion fields.

occasionally during a lift-off, and can be jolted again days after turning off his lifter.

Further, he finds anomalous magnetic events in his garage. Firstly, the lifter does not fly straight up. It goes back to the rear wall of his garage and is stopped and held in place by the sheet-rock. What could be in the wall that attracts it? What could be there that is not present elsewhere in the garage?

Why not be attracted to a freelance journalist standing adjacent? Secondly, Ventura finds he has intermittent and inexplicable magnetic fields up to 14 feet away from his lifter, and these fields linger for up to 15 minutes after he switches off the machine. Could all of these effects be part of a larger, more esoteric phenomenon?

Dr De Aquino stated the following in an email to me: "If a particle absorbs or emits electromagnetic energy (for example, photons), its gravitational mass (not inertial mass) is changed. The gravity, as we know, is proportional to the gravitational mass; consequently, gravity is also altered." Could the lifter be levitating because it weighs less, bathing in the glow of 30,000 volts and some kind of anomalous magnetic field? Further, could it be levitating because gravitons are blocked in some kind of gravity-shielding manner? Ventura believes this is possible; so do some at NASA.

The Hunt for Zero Point states that NASA sought the services of Dr Eugene Podkletnov. However, while NASA's replication research languishes, the book claims that researcher Ning Li, of Huntsville, Alabama, is pursuing this line of research as a private contractor to NASA.

Another Huntsville operation, Transdimensional Technologies, is exploring these multi-faceted phenomena, and its extensive website shows it to be a frequent contractor to NASA, conducting research into "asymmetrical capacitive propulsion" and capacitor-based devices to test "ion wind" forces. Jeff Cameron, of Transdimensional, is said by Ventura to be "the father of the lifter", having developed the device while exploring anomalous torsional effects of high-energy lasers. The lasers twisted and broke the metal frames of unrelated test material, and at the time this was considered a nuisance. But the unknown forces at work later led Cameron to found Transdimensional, develop lifter technology to a commercial level and subsequently patent many pieces of related technology. Unfortunately, I have been unable to reach Jeff Cameron or anyone at Transdimensional for any kind of confirmation.

Vacuum Energy and Torsion Fields

Nevertheless, how would gravitons be blocked or gravity shielded? Dr Hal Puthoff says there are two ways of looking at it. Firstly, one can look at the issue from a quantum point of view: that there is a particle exchange between the gravitons and something else, and the net effect is antigravity. The hows and whys of that are speculative, so Puthoff turns to a classical approach for answers. He prefers the notion of "engineering the vacuum". To do that, one must first consider what the vacuum is.

As I understand it, we are all in the vacuum; everything is. The "vacuum" is the matrix that contains all matter and all energy. It is the engineering perspective of the zero point energy field, or

"the field"—as popularised by Lynne McTaggart in her masterpiece, *The Field*:

Dr Puthoff shared with me statements from fellow researcher Dr T. D. Lee: "The vacuum is the seat of energetic particle and field fluctuations, and...is the seat of space-time structure...that encodes the distribution of matter and energy... The vacuum is energetic in its own right."

Thus energy can be drawn from the field, and spacecraft can have "vacuum propulsion systems, or propellant-less propulsion"—in other words, field-effect propulsion. Tim Ventura may be flying his lifter by having his capacitors push against the energy field of the vacuum.

At any rate, more and more physicists are thinking that the vacuum can give them a whole lotta oomph—enough to propel spacecraft—and when they learn how to corral it, a whole bevy of new phenomena may be encountered, including antigravity. This new potpourri of research is being called by many the "new physics". And although his approach is classical, Dr Hal Puthoff seems to be sensing what's out there waiting to be discovered.

Dr Puthoff's current research has been to explore "...the pertur-

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because it weighs less,
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bation of atomic or molecular ground states, hypothesized to be equilibrium states involving dynamic radiation/absorption exchange with the vacuum fluctuations. In this model, atoms or molecules...are expected to undergo energy shifts that would alter the spectroscopic signatures of excitations involving the ground state."

Puthoff says he's had no success so far with this approach, but his words remind me of De Aquino's speculation that objects lose mass as they absorb energy. Pull energy from the field around you and you lose weight. Bingo...lift-off! But how

does one pull energy from the field?

Torsion fields might play a role here, according to many, and the literature on antigravity is filled with the term "torsional effects". But what exactly is a torsion field?

"It has something to do with spin," Nick Cook told me on the phone. "You have a torsion field when you spin something. Add a little electromagnetism and you might have antigravity."

That's the shorthand version of it, and here's a deeper look.

Mike Wright, resident physics expert at BeyondTheOrdinary.Net webstream radio, told me this:

"When forces create curvature (such as rotation) in more than two planes, a torsion field results. Not only does the object go around, but it goes around and 'down' or 'up', and the up/down movement is an additional acceleration in that dimension. EM and gravitational fields differ by having a magnitude of force and only one direction of movement.

"A tornado is a structure of air in air. A whirlpool is a structure of water in water. So, because more than two planes are involved, objects can be created from 'nothing'; that is to say that objects can be created from the medium of the environment, such as a tornado from two air masses of differing temperature."

So, spin plus movement is the key. Again, Tim Ventura is on the hunt. He demonstrated to me that spinning magnets will cancel out their magnetic fields sufficiently so that two magnets facing each other with like poles (positive-to-positive, or negative-to-negative) will not push each other away if one of the magnets is

rotating perpendicularly to the force of opposition. It's not anti-gravity, but it gets us closer to the heart of the matter.

Furthermore, Russian physicists, such as N. A. Kozyrev, have been researching the torsional effects of subatomic particle spin and the loss of gravitational mass in planets from the angular momentum of their orbits.

Spinning makes something happen, but what? Tornadoes and Mother Nature might have a few clues. Tornadoes spin, in a sense, although no one in Oklahoma who has spent a night in a storm shelter during an F5 event would describe the tornadoes in the night sky as "spinning". Nevertheless, tornadoes have anomalous effects that are legendary: blades of grass stuck into mirrors, a piece of straw embedded flawlessly into a tree trunk. How? It seems as if the laws of mass, gravity and inertia are melted as winds swirl at speeds up to 300 mph in an organised vortex pattern. Is this a clue to melting the pull of gravity?

Getting information to answer this question has not been easy. Many scientists, including particle physicists at major US universities, claim not to have even heard of torsion fields. So, again I turn to Nick Cook and *The Hunt for Zero Point*.

Cook's cloaked source, Dr Dan Marckus, says that if "...you generate a torsion field of sufficient magnitude, the theory says you can bend the four dimensions of space around the generator. The more torsion you generate, the more space you perturb. When you bend space, you also bend time."

Marckus continues: "If you dipped...one of these whirlpools...into the zero point energy field, the seething mass of latent energy that existed on an almost undetectable level all around us [in the field would]...react in an almost magical way by directing that energy."

The torsion field, in effect, is "a pump, a 'coupling' device that could dip into and then direct energy out of the zero point energy field".

"But," Marckus continues, "the vortex wasn't a three-dimensional phenomenon or even a four-dimensional one. It couldn't be. For a torsion field to be able to interact with gravity and electromagnetism, it had to be endowed with attributes that went beyond the three dimensions of left, right, up-and-down, and the fourth-dimensional time field they inhabited; something that the theorists for convenience sake labelled a fifth dimension—hyperspace."

Cook concluded from further conversations with Marckus that the torsion field would "bind with gravity...to produce a levitational effect—an antigravity effect", yet "it wasn't doing so in the four dimensions of this world, but somewhere else". That somewhere else is hyperspace.

Entering Hyperdimensional Space

So how do we activate torsion fields and enter hyperspace? Dr Eugene Podkletnov may have a clue.

Podkletnov, the Russian researcher working in Finland, has studied the gravity shielding effects of superconductors. Again, Nick Cook in *The Hunt...* relays vital information. He says Podkletnov claims that "[i]f the superconductors are rotated considerably faster than 5,000 rpm...perhaps five to 10 times as fast, the disc experiences so much weight loss that it actually takes off". Or 25,000–50,000 revolutions per minute within some kind of torsion field creates levitation.

I emailed Dr Podkletnov to find out more about this issue. He replied:

"[A] fast rotating object can, under certain conditions, cause the polarization of the volume that it occupies in space and around it.

This polarization causes the gravitational effect as it modifies [the] local gravity field. The vortex of the polarized particles will create a vertical thrust with a certain force and spatial momentum. Some scientists call these polarized particles gravitons.

"The term graviton is an artificial one and at present we are not sure if it is a wave or a particle and what type of particle. Maybe it is a usual tachyon or a superluminal neutrino [a faster-than-light particle].

"Polarization of the media means that the spins of electrons, protons, neutrons and of small subatomic particles that constitute the fabric of space or vacuum would be parallel. Then a kind of gravity well is formed and the objects tend to fall into this well. We observe this picture as an object rising to the sky.

"Polarization of the media (of space) causes some glow around the object as it acquires additional energy and, because of it, the glow around some objects is observed."

What I understand from Dr Podkletnov is that gravity is the effect of spin—the spin of all subjected particles, from the subatomic level and up, being parallel, thus they are all aligned to fall into the gravity well of Earth. And spinning objects, such as his superconducting discs, when influenced additionally by an electromagnetic field will experience a shift in the spin of the subatomic and atomic elements. They will be turned and not be aligned in parallel. Thus, they are able to levitate.

But how to polarise the media and get things spinning? Enter Dr Marcus Hollingshed, an enigmatic figure allegedly from Cambridge University. Dr Hollingshed claims to have built a six-ringed toroidal coil antigravity device which achieved great effect using rotating magnetic fields. In January 2003, he announced on



Tim Ventura of American Antigravity demonstrates the Lifter in action.
(Photo: Bruce A. Smith)

Continued on page 76

WHAT NASA IS HIDING

AN INTERVIEW WITH JAMES MCCANNEY

*Space is extremely
electromagnetically
active and is much
busier than our
governments want
us to know, with
planet-sized cosmic
bodies, capable of
devastating Earth
without actually
hitting it, speeding
through our solar
system.*

An interview with
James M. McCanney, MS

by Rick Martin © 2003

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

Through a series of events and interventions that apparently were "meant" to be, on March 16, 2003, I had the great opportunity finally to speak directly with astrophysicist James McCanney.

— Rick Martin, *The SPECTRUM*, May 2003

Rick Martin: Before we get started, let me just ask you what your thoughts are about the research of Dr Aleskey Dmitriev? Are you in tune with what he is saying?

James McCanney: Oh, yes. Dmitriev is an experimentalist, partly theoretical physicist, but mainly he was an observational scientist, an atmospheric scientist. He's the one who discovered the tornadoes on the Sun, and all kinds of stuff. He talked about the vacuum domain and what they were measuring in the atmosphere, and other things in the cosmos that basically they didn't know how to explain. They were measuring them, but they didn't know what was going on. But then, when they got my papers, they said: "This explains everything we've been seeing." So, it was quite the thing. He was head of the group that I worked with back in the 1990s in Russia.

Then, NASA went over there, around 2000. That's when Russia, of course, had no money. These guys were making \$75 a month and were trying to publish their own work, using money out of their own pocket; it was just ludicrous. But NASA went over there, started pumping some money into them and then said: "If you teach any more of McCanney's stuff, we're cutting you off."

Martin: Do you have any theories or information about who specifically at NASA is behind this sort of diabolical withholding of knowledge?

McCanney: Yes, it's very clear; I've known this for a long time. It is the control of space.

Martin: Can you talk about it?

McCanney: Sure. NASA is a group of scientists. That's what we always think of: these engineers who build spacecraft and that type of thing. NASA is owned and operated by the NSA [National Security Agency].

There's a layer above NASA that controls NASA. Daniel Goldin, who came into NASA in the 1990s, came in from the CIA, and his job was to secretise or put the cap on NASA. What he did is, he went in and the first thing he did was make everybody—top, bottom, sideways who worked for NASA—sign, basically, an NSA non-disclosure agreement.

The NSA is part of the overseeing government that is already in place. The One World Government is already in place; that's what all of the stuff going on now is about.

Martin: Are there Jesuits behind all this?

McCanney: Jesuits? [Laughs] The Vatican has a big stake in the worldwide government, and it's part of it but not the whole show. It's very much a worldwide situation, where you literally have hundreds of families who are associated with this. They are very wealthy; they're in every country of the world; they control the politics and the money and the banking. So, it takes a very large web of these people.

Martin: I was going to mention the Nazis; that's where I was going with my original question.

McCanney: Yes. Many of the people in the Bush Administration are either direct descendants of Nazis or of those who helped finance the Nazis. They, of course, realised that space is the last frontier in resources. The control of space is essential to everything that they're doing. It's the last frontier.

"PLANET X" AND ITS COMPANION COMETS

Martin: What is the fear of NASA concerning "Planet X"? Is it related to Sumeria and the Annunaki? Or is it something else?

McCanney: I wouldn't say that, but the knowledge that there is this "Big Thing" that comes in on a regular basis is old. That's part of the very high levels of secrecy in a lot of these groups, like the Vatican. I mean, the first thing when Hale-Bopp showed up, the Vatican built a world-class observatory in Arizona and staffed it with astronomers. Gee, wonder why? Then they have a second one. But what is interesting was after Hale-Bopp left—because they thought that Hale-Bopp was the Big One.

Now, let's backtrack to 1991. Hale-Bopp was officially discovered in 1995, by Alan Hale at New Mexico, and then by Bopp, the Japanese guy. They both hit on the same night so they both got credit for the name of the comet.

Prior to that, it's very clear to me, and if you're looking at my Harrington notes, that one of the things which Robert Harrington was looking at was Hale-Bopp. The nucleus of Hale-Bopp was extremely large. The reason NASA pulled the feed down immediately, once they realised that some lackey had stuck it up on the Internet, was because any astronomer or person like myself would know that with that small amount of data you could determine the mass of the central nucleus.

It's a little equation you use. They use it all the time to determine the mass of central stars when they see a wobble in a star; then they can determine the radius of the thing orbiting it. You need the period and the radius of whatever is orbiting the larger object, and with those two parameters you can calculate the mass of the central object. Just a little equation in celestial mechanics.

So, with that small piece of evidence on the web, anybody could calculate the mass of Hale-Bopp, showing that it's planetary in size and coming in.

Now, the other factor... In 1991, what Harrington saw was two things: he saw Hale-Bopp, and he saw something much bigger beyond Hale-Bopp. That's Planet X. That's my understanding at this point. In 1991, Hale-Bopp was on a near direct collision course with Earth. With a couple of quick photographs they could chart the orbit, and it was on a near-collision course for Earth.

Martin: No wonder there was such a scramble.

McCanney: It was a huge scramble. When it was discovered, I called up Goddard Space Center—I knew the secretary there—and I said: "What's going on? I heard there's this comet..." You could hear the screaming in the background. And she said: "Oh my God, this comet is huge!" But I thought she meant in the sense of being a news story. No, it was huge in the sense that it was a planet-sized object. They had been tracking it.

You see, this is where the division comes in, because it wasn't until then that even a lot of the scientists at Goddard found out about it. But they had been tracking this since 1991, possibly earlier. Harrington discovered it, and you see it in the 1991 memo that he knew exactly where to go and look at it.

A long time ago what happened is...it was one of the companions of Nibiru that did the damage to Earth.

Martin: A companion?

McCanney: A companion. It was the one that became Venus. Velikovsky was very right that Venus was a huge comet that worked

its way through the solar system, and it took about a 600-year period from the time it was captured by Jupiter to the time it encountered Earth, and then worked its way in to become the planet that we know today.

So, originally, what happened was that Hale-Bopp was here about 4,200 years ago, and Venus was captured by Jupiter about 4,200 years ago. They were, literally, smaller companions to Nibiru. That's why they didn't want anybody to know about the companion, because they knew it was on a collision course with Earth, and they knew it was the companion to the bigger one that caused the problem. But they didn't realise that Hale-Bopp was, literally, one of the companions itself.

Now, when the destroyer, the Big Guy, Nibiru, comes in, it has an entire entourage of these things.

Martin: I guess Comet NEAT would be one of those?

McCanney: And that's the thing. When we got barraged a few weeks ago by all these comets, and they never announced Comet NEAT, C-2002/VI. Clearly, all of this stuff is coming from the southern hemisphere.

Then, of course, Harrington knew very well where that was, for the reasons that I gave; they were "pulling down" on the planets

Uranus and Neptune. It's interesting to note that when the story of Harrington came out, the government tried to make a statement through some of these astronomers that are on the radio, the disinformation guys, who came up with a story: "Oh, well, we have corrected the masses of those planets due to new information, so that has taken care of that problem."

Well, no, that doesn't correct anything when you see these planets being "pulled down". That would only correct things in the plane of the planets. This object was big enough, back in 1991, that it was pulling Uranus and Neptune down out of their orbit.

That's how *big* this thing is!

So, you see the concern over the companion. Because they all know, and the Vatican knows, that it was the companion that did the damage the last time. The only problem is, the companion became the planet Venus. What they don't understand is that it's a very difficult thing to produce the orbits for these, and NASA is learning that the hard way. They couldn't keep track of Hale-Bopp; it changed on a daily basis. That was one thing we did in The Millennium Group: track the daily changing of its orbit on the government ephemeris pages.

Martin: Was Comet NEAT a surprise? Did that come out of nowhere, or did they expect that?

McCanney: No. Comet NEAT is another *very* large nucleus; planetary in size—probably the size of our Moon, at least; probably larger. NASA knew it was coming. They probably saw it coming in years ago, as part of this entourage of things coming in—which I think of as things that are coming in as part of the Planet X entourage. They didn't want anybody to know about it, for the simple reason they knew it was going to come in right around the Sun and it was big. They probably never expected it to become as bright as it did. But it was literally visible in the daytime sky, right next to the Sun, as it passed—over about a 12-hour period when it was coming in.

Martin: The obvious question is: how many more of these companions can we look forward to?

**The control of space is
essential to everything
that they're doing.
It's the last frontier.**

McCanney: We don't know. Of course though, NASA would have very good knowledge of this.

The other important thing that I wanted to say earlier about Hale-Bopp is that in the six-year period from 1991 to 1996, where it actually hit perihelion with the Sun, it lost three months' time in arriving due to the tail-drag of the huge comet. That's why we didn't have the direct collision with it. And when I say "direct collision", I don't mean hitting Earth; I mean we would have been within about one million miles. By anybody's standard, it would have been total devastation of this planet. The flooding would have been enormous. It was only due to the fact that this thing slowed down that we missed it.

Martin: I guess another question would be: where is NEAT going?

McCanney: NEAT headed back out. That is object number four of my South American Harrington Expedition to chart the new orbit for NEAT, because it clearly lost a lot of its energy as it came around the Sun, as it picked up a lot of tail material.

So, it's not going to come and hit Earth. That's what NASA always says: "Oh, these people think it's going to hit Earth." No, no; nobody said anything about it hitting Earth. They try to make fun of people and, in fact, they actually have people who set up those stories on the Internet so they can go make fun of them. It's part of their disinformation campaign.

Martin: When a comet the size of NEAT, or a planet the size of NEAT, swings by our Sun, how does "action at a distance" come into play?

McCanney: The flare that came off [the Sun], that you see in many of the photos, came and hit the back side of the comet tail.

Martin: The five-million-mile flare?

McCanney: Yes. Now, if that were to have come at Earth, it would have knocked us to our knees. But it went off in a totally obscure direction. Let's look at something else. What you didn't see there, but I could see it coming off of NEAT...if you look very closely, you'll see a pin-thin streak coming directly away from the Sun and out away from the nucleus, out the right of the screen. That's connecting with planet Mercury. Mercury was in a direct alignment with NEAT as it came across the ecliptic, the plane of the planets. That line, that you can actually see on solar photographs, is connecting to Mercury.

So, now, let's put Earth over there. What if Earth had been over 90° around, and we were not broadside to it? Then, we could have very easily been in a position to take that flare, for example, or take an electrical discharge directly from NEAT. That is what the ancients talked about with the comets, the lightning bolts flying across the heavens; they saw these things—Zeus throwing lightning bolts to Mars. They saw this stuff.

Martin: It was literal; it wasn't metaphorical?

McCanney: No, it was not metaphorical. When Venus came around Mars, it lashed out with an electrical discharge and the auras in the atmosphere of Mars lit up; it looked like a snake grabbing Mars. It literally sucked the oceans and atmosphere off of Mars as it passed by. And they saw this. They knew that Mars, prior to that, was a water planet, was a blue planet, just like Earth. Mars has a very thin atmosphere. Venus has a massive atmosphere, thousands of times denser than Earth's atmosphere. But percentage-

wise, the chemical composition of the atmospheres of Venus and Mars are exactly the same—which means they were formed in the same boiling pot there, as they passed by each other.

Martin: I wanted to ask you about Velikovsky. You're very similar to him in that he was given a hard time and ridiculed, and it turns out he was right.

McCanney: There's no question any more that Velikovsky was right. And, I think the biggest thing that I want to say about Velikovsky is that he was not studying astronomy. He was studying *calendars*!

COMETS AND PLASMA PHYSICS

Martin: Let's talk about your concept of comets and plasma. What is plasma?

McCanney: Plasma is like a fourth state of matter. In a vacuum environment where you have strictly gases and high energy, for example, a lot of light coming out of the Sun that splits the atoms into free electrons, ions, neutral atoms and other forms of energy like stored magnetism, stored electric fields—that's a plasma. And the interaction of all of these things is what you call plasma physics; that's the study of it. That's, literally, in a nutshell, what plasma is.

Martin: Let's talk about comets. They're not dirty snowballs. What are comets?

McCanney: Let me start by saying this... For a long time, there was somewhat of a feud in the astrophysics community between a guy named Chapman and Hans Alfven, from the Swedish Institute. Chapman said that space is electrically neutral. Alfven said, no; we can see this plasma up there; it's doing strange things; we don't know what causes all of this, but space is not electrically neutral—it's very much active electromagnetically. The United States, of course, is where the money is—so Chapman, the American,

won out.

There is a very simple physics problem that is taught to every graduate student in space science, astrophysics and physics. That is, if you take a charge and put it in outer space, then very, very rapidly—and you can calculate how rapid this is—charge will come and surround it and shield it, and will not allow it to be seen, electrically, in any other part of the Universe. It's a shielding property, and if you have a magnetic field out there for some reason around an object, the same thing will happen; you get a plasma effect. And that is, for example, one reason why our gravity is known to be a force that is totally independent of electromagnetism, because these electromagnetic forces are so shielded that gravity "sees through them", let's say.

Be that as it may, Chapman kind of won this theoretical battle. And so, for decades you had the Chapman conferences, and Chapman physics was taught in all the textbooks, and all of these guys grew up thinking that space was electrically neutral—because of that little problem you could do as a graduate student. And I've done that. But what I realised, and apparently none of these other people realised, was that the data, as it started coming back from the space probes, didn't support that at all. There was a tremendous amount of electromagnetic activity out there.

That was in 1979 when I was a young instructor at Cornell University and had access to all of this data coming in from *Voyager* spacecraft, *Pioneer* and *Voyager*, as they went by Jupiter and Saturn.

**There's no question
any more that
Velikovsky was right.**

That was before NASA realised that they had to keep the data away from people like me who would interpret it differently than what they would like to see.

The data was saying something totally different. Very bizarre electromagnetic things were being observed: spokes in Saturn's rings, tremendous electrical discharges, current rings of millions of amperes floating around the planet. Things just didn't make sense. There was a proton wind. The thing that caught my attention the most was that there was a proton wind coming off of both Jupiter and Saturn, and that's a satellite property that we only see from the Sun. It's interesting that they only saw protons; they didn't see an electron wind that would neutralise that.

So, clearly, outer space was not what they were expecting. They were expecting Jupiter to be an ice-cold frozen ball of hydrogen, very sterile—which it is not. It is tremendously dynamic; has a huge magnetic field. Literally, as they went out in front to Venus, as they went out to all of the other planets, they found them very different than what they thought they would be.

At any rate, I happened to be at Cornell at this time, and by then I had already completed much of my theoretical work on inclusion of electromagnetic fields and celestial mechanics. I understood how these worked. When I saw this data coming in, I recognised it—and that, of course, is something that none of these Chapman physics guys had any clue about. They were still trying to imagine that these were gravitational effects that they were seeing.

At that time I also studied comets as part of what I was doing. I realised that comets could not possibly be these dirty snowball things. There was a lot of data indicating that comets were interacting electrically with the Sun, and they were noticed to have electrical discharges around them. At the time, I didn't know what caused the electric fields, but I knew they had to be caused by the Sun. I knew that the comets were interacting and that the nuclei of the comets were becoming negatively charged.

Then, it finally dawned on me at that time, 1979–80, that this had to be produced by a differential flow in the solar winds. In other words, there were more protons in the solar winds than electrons. That gave me a whole new model for fusion. That's when I realised that the fusion had to be up in the solar atmosphere and not down in the core. That's when I realised that the corona of electrons around the Sun was really a super-atom space, and that the Sun itself was positively charged down below that, and up above that the corona of electrons was actually making the Sun look negatively charged to the outside.

This whole complex phenomenon of how the solar winds would open up holes in the corona and come blasting out was caused by electrostatic acceleration of the protons as they moved out through the corona. And that's exactly what we're viewing. And this whole time, even up until today, NASA insists that the energy from the Sun is coming from the core. Totally incorrect.

When I was at Cornell, I met Hans Bethe, Nobel Prize-winning physicist who created the model for the Sun that we now use. And, of course, he was a friend of Albert Einstein, and they both won Nobel Prizes. Hans Bethe won the prize for the chemistry and the understanding of the nuclear fusion model that we now use today,

that the chain reactions would build up the bigger atoms and cause the heat. He made the initial calculations that the heat of the Sun, and those kinds of things, would actually match reality.

I sat and I talked to him about this. I talked to him about the fact that the solar system had to be electrically active and that comets were not dirty snowballs. And he looked at me and he knew, and Einstein knew, that...one of the last things Einstein did was very actively pursue Velikovsky's work, because he knew that General Relativity was missing something very big, and that was the electromagnetic field. You could not have gravity affecting light without also having the electromagnetic field around stars affecting light as well. He knew that those factors were missing from General Relativity, and that's what he was working on when he died. Hans Bethe told me that's what Einstein was working on; he was trying to figure out that problem.

I asked him: "I'm having trouble publishing. They're taking away my ability to publish. Do you have any suggestions for this?"

And he said: "Try the German publications." And I did. My work eventually began to be published in The Netherlands.

Martin: That's interesting. So, you had to go offshore.

McCanney: Yes, and there were two journals that were published in The Netherlands: *Astrophysics & Space Science* and another one called *The Moon & The Planets*. This contact was due to what Hans Bethe told me.

Martin: Sounds like he gave you good advice.

McCanney: Yes. But when this stuff started hitting the streets, the people at Cornell freaked out.

Martin: Why is that?

McCanney: Because I was using Cornell's name, and I was using non-Chapman physics with Cornell's name on it. This was *not* what they wanted to see. And, of course, when they got a hold of all of my papers and ran them through the Space Science Department there, they realised that what I was doing was corroborating Velikovsky's story.

Carl Sagan was Professor Emeritus of the Donald Duncan Chair of Astronomy, a very exclusive seat of astronomy at

Cornell. He was the one who, basically, did in Velikovsky. That's why Sagan was famous. Not many people understand that he led the charge against Velikovsky, who was selling millions of books all over the world. Sagan led the charge that Velikovsky was a geologist and planetary scientist and astronomer, and on and on, to prove, so to speak, that Velikovsky's thesis could not possibly be true. And that's why Sagan eventually got the *Cosmos* series, because he was the spokesperson for the astronomy community that buried Velikovsky. Not more than two years later, I show up at Cornell, using their own data to prove Velikovsky correct.

EFFECTS OF A "PLANET X" FLYPAST

Martin: Let's talk about "Planet X" some more. I know you don't like to talk about time frames, but do you have any sense of it at all? Are we a year out? A hundred years out?

McCanney: That I don't know, and that's what I want to find out with the Harrington Expedition.

Martin: So, you don't have a sense of that, at this point?

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McCanney: I do, privately. I'm always afraid to speak of dates because people try to hold you to that.

Martin: Could you talk in general terms?

McCanney: Okay. If history plays out correctly, let me say this. Hale-Bopp, NEAT and the other five comets that we saw in February...we saw five comets come in very close to the Sun: one was Kudo-Fujikawa, one was NEAT VI, the other one was no name—it just came tunnelling into the side of the Sun at about 100 million miles an hour—and then there was another small comet nucleus that tunneled up into the Sun, on the lower-left side of the picture as you look at it, as NEAT passed on below. It is believed that this was an object that was thrown off of NEAT and tunneled down into a solar flare—and that's where those big balloon-shaped, long plasma tubes came out of the Sun, in reaction to that.

Okay, your question was about Planet X. The Hopi Indians believed that Hale-Bopp [1995] was the Blue Kachina, which was the precursor by about 10 years of Planet X. And 10 years, of course, is a very relative term there. The point is, if Hale-Bopp had been a companion of the Big Guy 4,200 years ago—and that's what the cycle is: not 3,600 years, but 4,200 years for Nibiru—then it's due here within the next decade.

And the other thing is, people are concentrating on this Planet X or Nibiru object. The thing I point out is, I study the extra-solar system objects. NEAT, for example, didn't match anything that we've seen before. It was a brand new comet. So, whether it was related to Nibiru coming in, or not, is impossible to say.

Martin: So, really, it's an unknown entity.

McCanney: Right. The point is there are hundreds, if not thousands or hundreds of thousands, of these big objects floating around out there. And that is something that NASA refuses to acknowledge.

Martin: The so-called "panic theory"?

McCanney: Yeah, and then that logical deduction: "If that came all of a sudden out of the blue, could another one come out of the blue, at any time, and come by Earth and affect it?" And of course, that's what I'm saying. That's the "action at a distance" thing. We don't have to be hit by these things. NASA keeps pounding on this: "If we're *hit* by one of these things." No! It has nothing to do with necessarily actually being hit.

If that flare had hit us, had come out and gone out behind NEAT, you would have known it. In five years' time, there'd be a lot of people dying of cancer, because it would have blasted the magnetic field, would have torn away our magnetic shield, and whoever was facing the Sun at that time would have been toasted.

It's not well known, but back in the late 1990s—this I got from Dmitriev, in fact—there was a solar flare that hit Earth, and we [the USA] were on the night-time side at the time when the magnetic field actually went to zero. Russia was pointed toward the Sun, and they are actually tracking cancer rates right now in Russia, based on that flare.

Martin: That's amazing. This will get into an area that you might not feel comfortable answering, but my wife is curious to know what effects on people these vibrational changes will have over the next few years.

McCanney: I would say twofold. There is very much a polarisation going on, right now, around the world. You have the people

who are raising their consciousness of understanding of where we fit in the Universe, that know we have to come together in peace and stop using the resources on this Earth in a totally careless manner. We have to provide for our future generations. Those people are going to be elevated, way up. And they're going to be communicating on an almost mental, spiritual level around the world, understanding that we cannot continue to have petty Earth-wars and put all our resources into this.

The other half of the polarisation is this global organisation that is controlling the whole world and keeping it, basically, in slavery mode. These organisations and elite families are going to become far worse in doing what they're doing. They are totally dedicated to doing nothing but war and destruction and killing.

Martin: Let's talk about the shifting magnetic poles of planet Earth, and how these changes are affecting our magnetic poles?

McCanney: First of all, the magnetic field of the Earth is very much misunderstood. Most of it is caused by currents that flow around the Earth. It's not caused by some kind of magnet in our core. The magnetic field that does come from our core, the permanent component of that magnetic

field, is very loosely bound in iron and nickel deposits. It's not like a little iron magnet that you would put in your pocket as a kid. Most of our magnetic field is in the form of electrical currents flowing around the planet in the solar wind, and in the Van Allen belt, and in other forms—that's our magnetic field. That's why, when a very highly charged electromagnetic comet comes by, it can very much affect us.

This is a good time to mention that the Russians did a study a number of years ago on foetuses. What

they realised was these unborn foetuses were tuning in to the electromagnetic rhythm of the cosmos. The Russians were very aware of the electromagnetic part of our environment, whereas in the West they were still saying "There is no such thing".

Then they did statistical studies on the planetary alignments, and things like that, relative to astrology. And, basically, they became convinced that there was a very definite association with people, their lives and the way they acted, and the planetary positions. They did this with not just humans but plant life, animal life, and on and on.

They realised that there was something to this, but they didn't understand what it was.

But when they realised that all of the planets are discharging the solar capacity that's built up around the Sun, due to excess currents of protons in the solar winds, they then could see that as these planets came into alignments this increased the flow of currents along those paths. And when you had many planets line up, it increased the currents 100-fold, not just twofold.

And so, as the Moon, for example, goes through a New Moon phase and passes away, for a short while in the New Moon phase it's blocking the solar wind. But as it moves out of the way, that solar wind comes pounding in and breaks our magnetic field down, causing tremendous pressure on the atmosphere.

The New Moon phase and the Full Moon phase are times when the Earth is being, basically, crushed under a lot of electromagnetic pressure, which is just one way of talking about it. So, all of these effects that you're seeing are very real.

The magnetic field of the Earth is very much misunderstood. Most of it is caused by currents that flow around the Earth.

When a big comet comes into the solar system, breaks down the solar electric field and starts driving this energy up in the Sun, as we're seeing, then all of a sudden you get what I'm talking about with this polarisation. The people who are raising themselves to a higher spiritual consciousness will raise themselves much farther, and the people who are intent on war will go out and beat the war drum much more. And that's what we're seeing right now.

Martin: What do you think individuals will experience? Will people experience much more disease, be more out of balance—any theories?

McCanney: Let's talk about the jet stream and weather. Everything will become more erratic. We're already seeing this. You'll see temperature swings that are much larger. And you're going to see the same thing in people. People who are not really in control of themselves you're going to see become erratic; people who are off balance a little bit become off balance a lot; people who are very balanced become far more balanced. So, this is part of the polarisation. There's not going to be anybody in the middle any more.

ETHICS OF THE NEW SPACE RACE

Martin: Let's get back to the "zero point", a politically incorrect subject.

McCanney: Here is what I think is going on, and I learned this when I first met the Russian people. They would talk in terms like...Dmitriev talks about the "vacuum domain", and that, to us, means outer space.

When I met with Valery Uvarov from the National Security Academy of Russia, I told him: "What they don't understand in this country [USA] is, there's a higher level concept. When you get up to this kind of hardware—let's call it hardware, because that's what we would call it in this country—you can reverse-engineer and you can have all of the knowledge on how this stuff works, but it will *never* work properly if you have evil intentions. When I told Valery this, his eyes got bigger than saucers. He said: "You understand this? You're the first person in the West who understands this concept!"

Martin: Those things will not be allowed in space with evil intent?

McCanney: No, absolutely. And the people in "black ops" here have gone to the extent of going to the East and actually getting higher level consciousness humans to come over here and stand next to their spacecraft to try to induce that consciousness into what they're doing. And this is something that is a real problem in the West, because Russia already knows this. They have broken the ties with that kind of philosophy and are moving on. Valery told me; he said they are accelerating; they are being contacted. He said very plainly to me: "Your country and the people in it will not be contacted until you break that down." Because this is like a lead weight on the planet, this country. "Then you'll start to progress." It was just so obvious.

And those [Russian] people are making great strides. It's not because they have a hundred-billion-dollar budget. You don't need money. These devices are not complicated. It's very clear that the ancients had space travel, and they had the understanding of how to shield themselves electromagnetically as they moved throughout space, and to move electromagnetically.

Martin: Are there some closing comments you'd like to make?

McCanney: I would say, number one, that the rest of the world is advancing far beyond the United States in consciousness and in progress as a human species.

The other thing I would say is that as a country, as a civilian population, we have to grab hold of this country and turn it around because, literally, the whole rest of the world depends on it. We are at a stage right now that is equivalent to 1939, pre-World War II Hitler's Germany.

They did not turn that country around—and if we don't turn this country around, we're going to be in a far bigger world problem than World War II ever was thought of being. ∞

Editor's Note

This interview with James McCanney was extracted and edited from the May 2003 issue of *The SPECTRUM* news magazine, PO Box 1567, Tehachapi, CA 93581, USA, telephone +1 (661) 823 9696, email thespectrum@tminet.com, website <http://www.TheSpectrumNews.org>. The original, unedited version of this interview can be found at the web page <http://www.jmccanneyscience.com/SpectrumMay2003.htm>.

About the Author

James M. McCanney, MS, had a classical physics training at St Mary's University, receiving a Bachelor of Arts degree with a double major in physics and mathematics in 1970. He spent three years teaching physics and mathematics in Spanish in Latin America, during which time he visited the ruins of ancient cities and archaeological sites, studying first-hand as artefacts were exposed after thousands of years. He returned to graduate school in 1973 and earned a Master's degree in nuclear and solid-state physics from Tulane University, New Orleans, Louisiana.

In 1979, McCanney joined the faculty of Cornell University, Ithaca, New York, as an introductory instructor in physics. It was at Cornell that he recognised that his theoretical work on the electrodynamic nature of the solar system and Universe had its signatures in the new data that was streaming in from the edges of the solar system. Meanwhile, standard science continued to look at

gravitational explanations for the workings of the planets, moons and other objects of the solar system.

His papers were published at first in the standard astrophysical journals, but soon he encountered resistance from the astronomy community and within a short time the journals would no longer publish his theoretical work. McCanney was removed from his teaching position because of his beliefs regarding the electrodynamic nature of the solar system.

Contrary to the traditional belief that the solar system formed all at one time 4.5 billion years ago and has not changed significantly since, Mr McCanney's theoretical work essentially states that the solar system is dynamic and adopts new members on an ongoing basis. He points to the planet Venus, the Jovian moon Io, the Saturnian moon Titan and the small planet Pluto (which supports an atmosphere, even though it is so distant from the warmth of the Sun and has insufficient gravity to hold an atmosphere for

long) as being obvious new members of our solar system.

His theoretical work also states that comets are not dirty snowballs but large electrical "vacuum cleaners" in outer space. The comets draw in vast amounts of material by way of powerful electrical forces, and there is potential for very large comets to disrupt the planetary structure that was already in place.

McCanney's innovative theories on plasma physics and a new model for fusion in the solar atmosphere provided the basis for the electric fields and plasma discharge phenomena that have become the core elements of his theoretical models of the true nature of our solar system. More detailed information on the electrical plasma model and the effects on planets, comets and the solar system can be found at James McCanney's website, <http://www.jmccanneyscience.com>.

James McCanney is the author of *Planet-X, Comets & Earth Changes*, reviewed in NEXUS 10/03.

GENIUS IN THE FIELDS

THE CROP CIRCLES OF 2003

An unusually warm summer in the UK shortened this year's crop circle season, but exciting new themes still emerged and formations were seen in much greater numbers in Europe as well as the USA.

by Andy Thomas © 2003

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Southern Circular Research
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Cooksbridge, East Sussex, BN8 4TA
United Kingdom

Websites:
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Last year had been a renaissance time for crop circles as far as the public was concerned, largely due to the impact of the Hollywood blockbuster film, *Signs*, which ensured that the phenomenon was plastered across our newspapers and television screens more than ever before. As a result, there were more minds focused towards the fields this season than in recent years. However, despite high expectations, 2003 was much quieter than anticipated, in the UK at least, where eyes are traditionally cast to catch the most prolific and spectacular designs.

The very hot English summer encouraged the crops in the fields to ripen early this year, and the combines stripped the canvas away so quickly that by mid-August there were virtually no fields left standing. This shaved almost two to three weeks off the usual length of an average UK crop circle season (which can sometimes stretch into September), leaving researchers and enthusiasts feeling rather bereft. General opinion tended towards the view that the season lacked some of the truly stunning masterpieces we have come to expect, and didn't deliver a "grand finale" as such. That said, the year still produced a variety of spectacular and intriguing designs that 10 years ago would have shocked and been marvelled at; so perhaps we have become rather too used to genius at work in our fields.

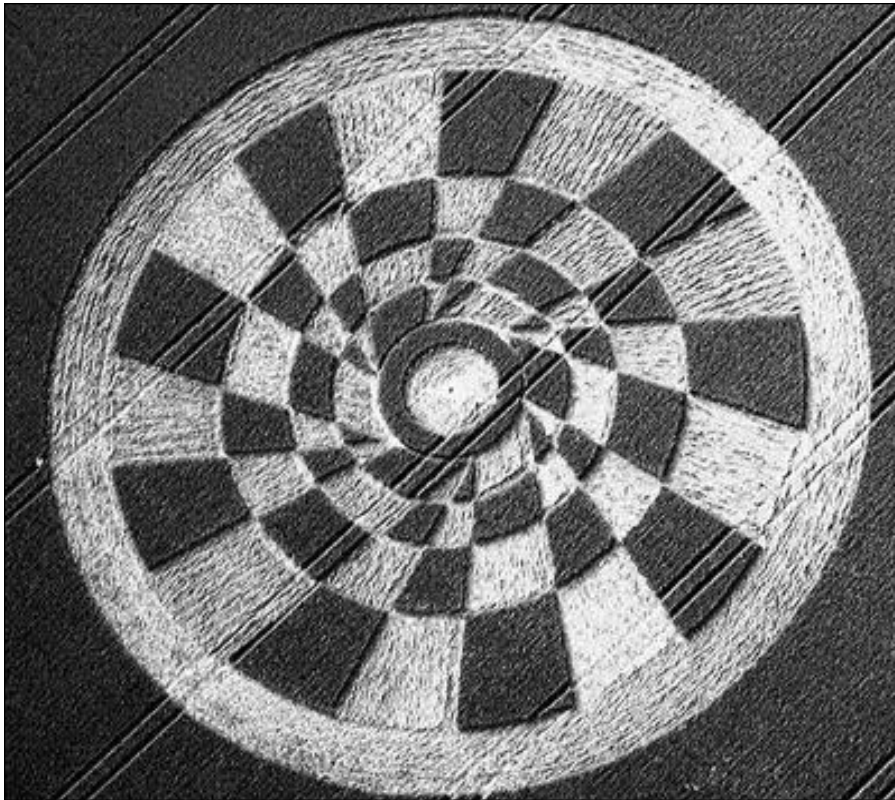
Research into biological effects in circle-affected crop continues to show anomalous effects in many cases—effects which are yet to be reproduced by hoaxers. The human demonstrations continue to fall short of the standards seen in so many of the masterpieces that have appeared more mysteriously. The quality of the lay in these formations is still unsurpassed by the claimants' work, and the long hours taken to create the human efforts challenges the idea that all crop formations are made in this way. We still have an extraordinary mystery before us.

So what were the highlights of 2003? The year started on exactly the same date as the previous season, when a single circle in oilseed rape arrived at Ringmer in Sussex around 12th April, though it was not the first to be reported. That honour went to Privett in Hampshire, the day after: a curious, ringed figure-of-eight with a broken flow, looking a little like a metal puzzle.

The first truly stunning formation of the season took the ring-of-rope idea started the year before at Alton Priors in Wiltshire and developed it further at Windmill Hill on 7th June. These designs are virtually impossible to draw on paper without a fine grid of criss-crossing lines over them, yet there is no evidence that such a technique was used in the field. Similar, if less well executed, geometrical themes would be used towards the end of the season at Alton Barnes and again at Alton Priors.

On 15th June, a beautiful six-armed emblem of radiating crescents arrived at Ogbourne St George, and became the latest in a long line of formations to have strange balls of light videoed hovering over and around them, taken this year by Stuart Dyke of the Crop Circle Connector website. These small white balls of light are seen every year in association with crop circles and continue to mystify and amaze, though their origins remain unknown.

Over the next few weeks, some intriguing themes and geometrical delights were produced, but they were not all confined to the usual Wiltshire heartlands. On 21st June, much further north at Thornborough in North Yorkshire, a very complex emblem of clustered half-rings in a floral design appeared right next to the ancient site of Thornborough Henge. Many researchers saw this as a protest from the circlemaking sources, as the Henge is currently threatened with partial destruction due to quarrying and a campaign is



Tan Hill, near Stanton St Bernard, Wiltshire. Reported 24th June.
Image: Nick Nicholson and the Crop Circle Connector © 2003

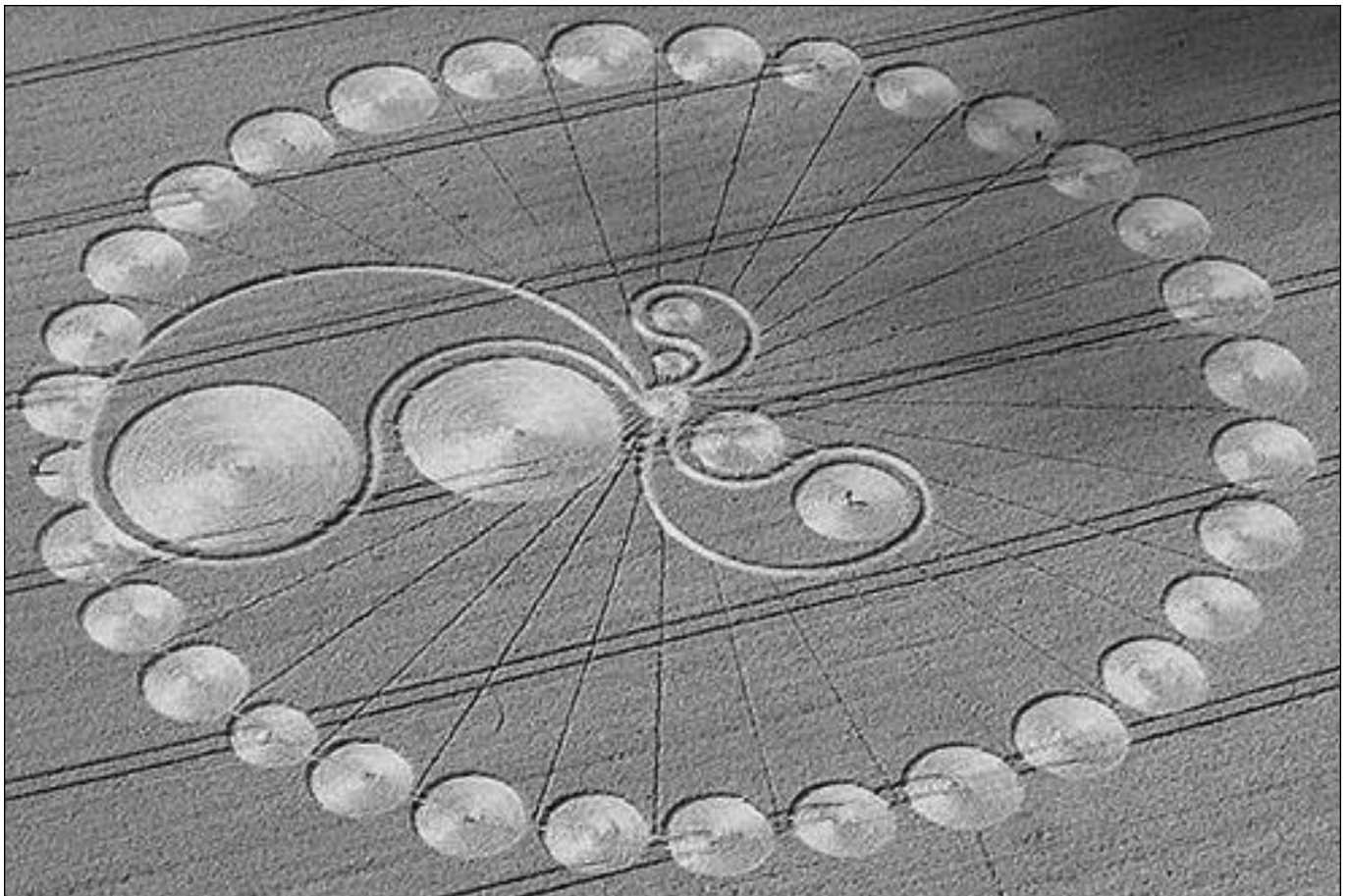
currently underway to stop this.

Other areas around the country also produced excellent works, including Sussex, with two very fine designs at Patcham and Lewes, amongst other formations, and at Sharpenoe in Bedfordshire, where a stunning pentacle with a ring of radiating lines impressed with its clean-cut precision.

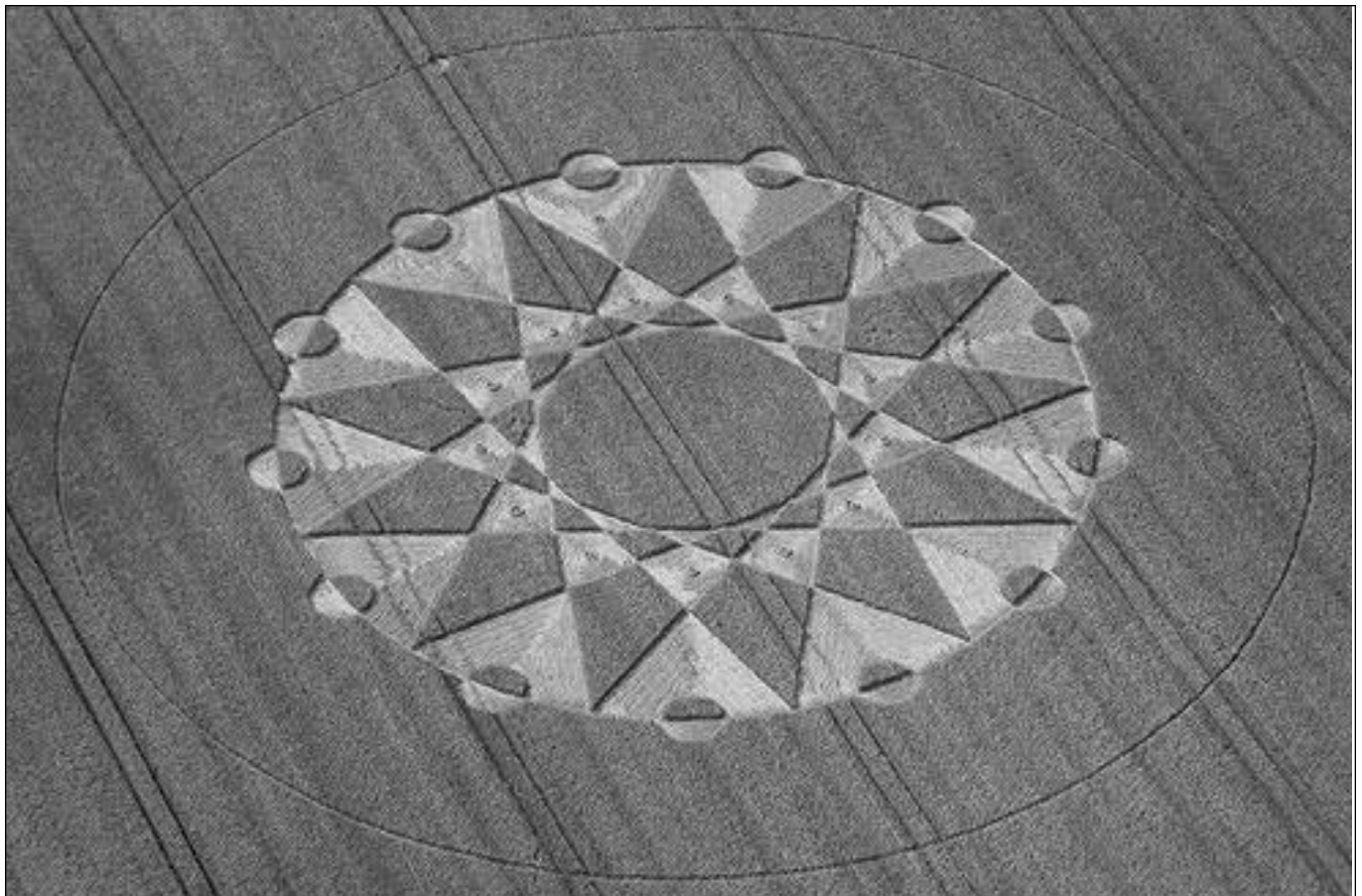
Ancient sites always seem to attract crop circles. Another appearance which made a firm connection with our prehistoric heritage was the so-called "Celtic shield" design, a remarkably detailed circle containing over 400 tiny rings in a concentric configuration. It arrived at North Down, between Bishops Cannings and Beckhampton, Wiltshire, on 5th July.

It was placed perfectly in line with a series of four burial mounds spread out in a linear fashion, and was directly on the spot where another mound, now removed, had been.

Some new visual themes developed in 2003, sometimes playing with new types of design, such as the abstract pop-art pattern that appeared at Woodborough Hill on 14th July and the beautiful "swallows" emblem that turned up at Alton Barnes on 4th August, which resembled flying birds trailing necklaces of diminishing circles.



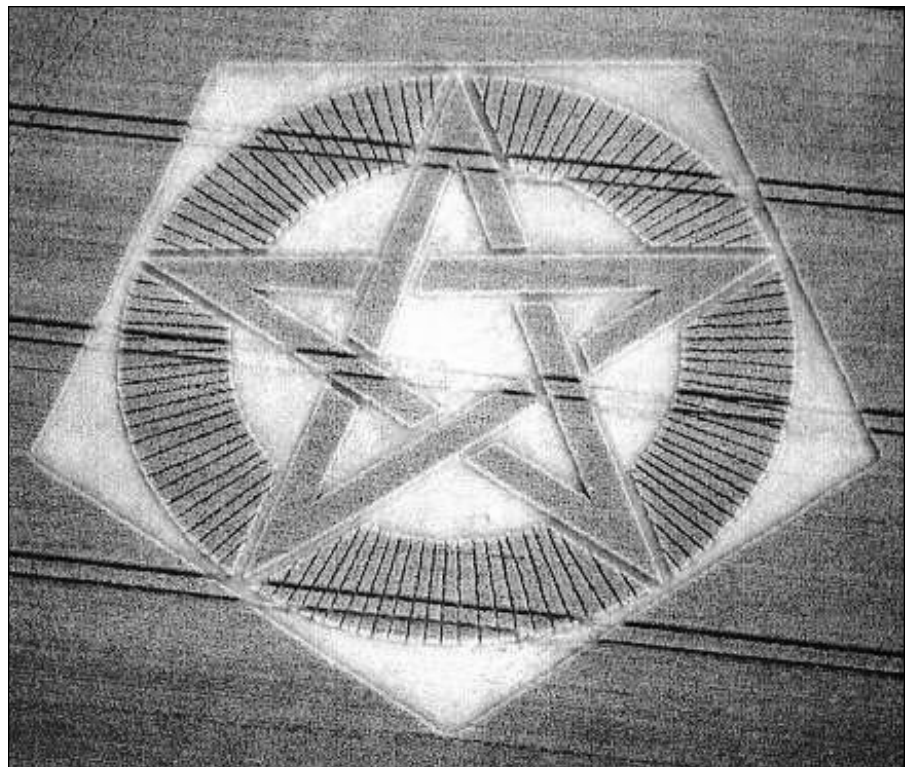
Hackpen Hill, near Winterbourne Bassett, Wiltshire. Reported 20th July.
Image: Nick Nicholson and the Crop Circle Connector © 2003



West Stowell, near Huish, Wiltshire. Reported 20th July.
Image: Nick Nicholson and the Crop Circle Connector © 2003

The number-play utilised in the geometry of some formations also expanded. For the first time, at West Stowell, Wiltshire, on 20th July, a complex pattern of radiating diamonds used 13-fold geometry as its main feature. Though the number 13 had been present implicitly in at least one formation before this, it had never been used overtly as part of the physical pattern. Researcher Michael Glickman has long predicted the clear usage of the number 13—the number of transformation—in the fields, and he believes it marks an important step in the continuing mathematical lesson the crop circles are giving us.

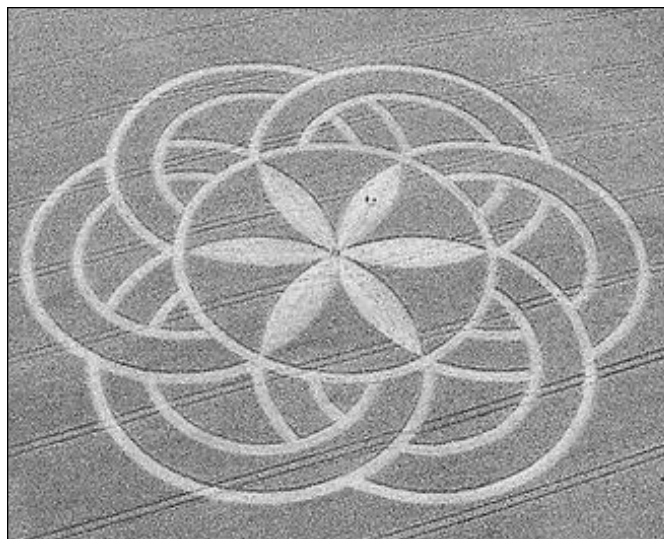
By the middle of August, there were high expectations that something of great importance would appear around the anniversary of the "face and message" formation of 2001 and the "alien and disc" of 2002, both of which appeared around 14th August and had encoded pictorial and binary information in a unique and highly controversial way. Some researchers even staked out the fields to await the arrival of the next instalment—but it didn't come, and hadn't arrived at the time of writing. With most fields cut down by the middle of August, it was left to the very large



Sharpenhoe, near Barton Le Clay, Bedfordshire. Reported 29th June.
Image: Russell Stannard © 2003



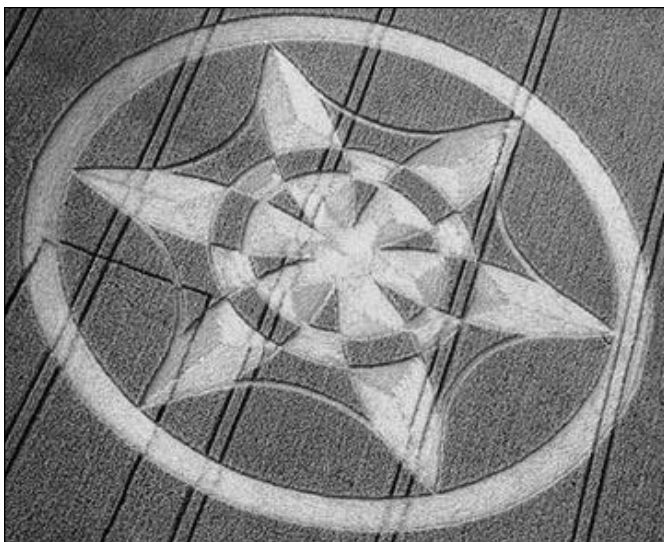
Broad Hinton, near Winterbourne Bassett, Wiltshire.
Reported 24th July. Image: www.temporarytemples.co.uk © 2003



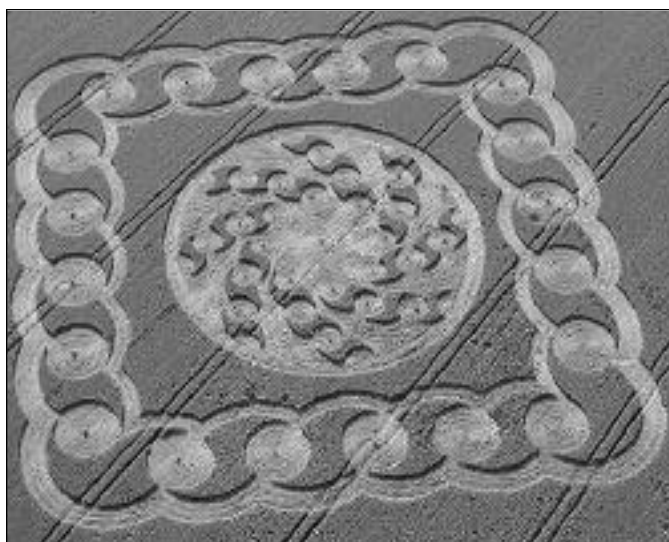
Tegdown Hill, Patcham, near Brighton, East Sussex.
Reported 22nd July. Image: David Russell © 2003



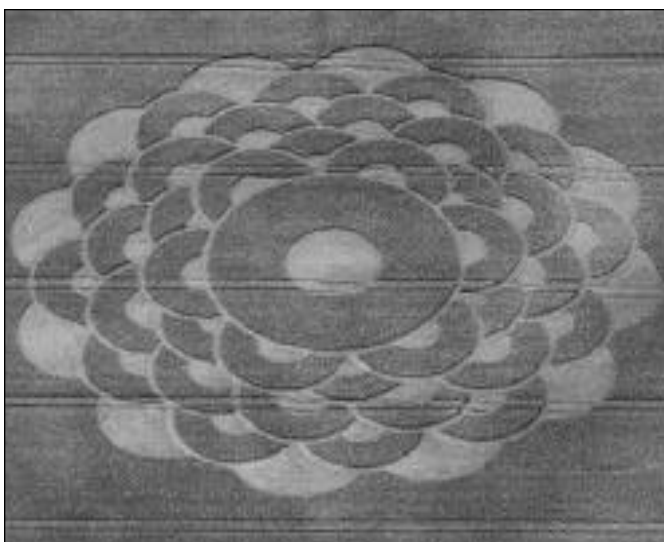
Milk Hill, near Alton Barnes, Wiltshire. Reported 17th June.
Image: www.temporarytemples.co.uk © 2003



Kit's Coty, near Burham, Kent. Reported 26th July 2003.
Image: Andrew King © 2003



South Field, near Alton Priors, Wiltshire. Reported 8th August.
Image: John Dove © 2003



Thornborough Henge, near Ripon, North Yorkshire.
Reported 21st June.

"molecule" pattern at Beckhampton on 10th August to serve as the last of the "biggies": a relatively simple but intriguing, massive spread of rings and crescents across a field.

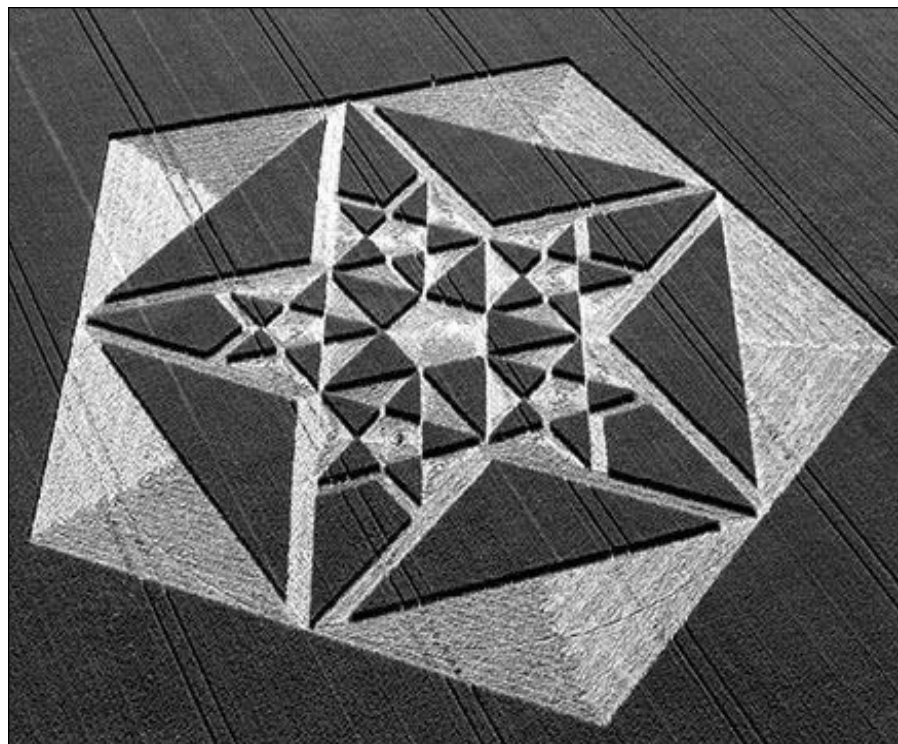
If there was slight disappointment across the UK, in the USA it was a different story. With Americans having been introduced to the phenomenon in a big way for the first time due to the *Signs* movie, there was far greater alertness to the appearance of new formations, with accompanying media excitement. The US is now in the throes of what the UK went through in the early 1990s: endless arguments and claims/counter-claims between sceptics and non-sceptics filling local newspapers and television screens, as seen particularly in Rockville, California, where a group of boys laid claim to a local pictogram.

UK researchers found it hard to stifle a kind smile at seeing people in another country going through what they have had to endure for so many years, knowing from experience that clear-cut answers to the debates now inflamed in the US will never come.

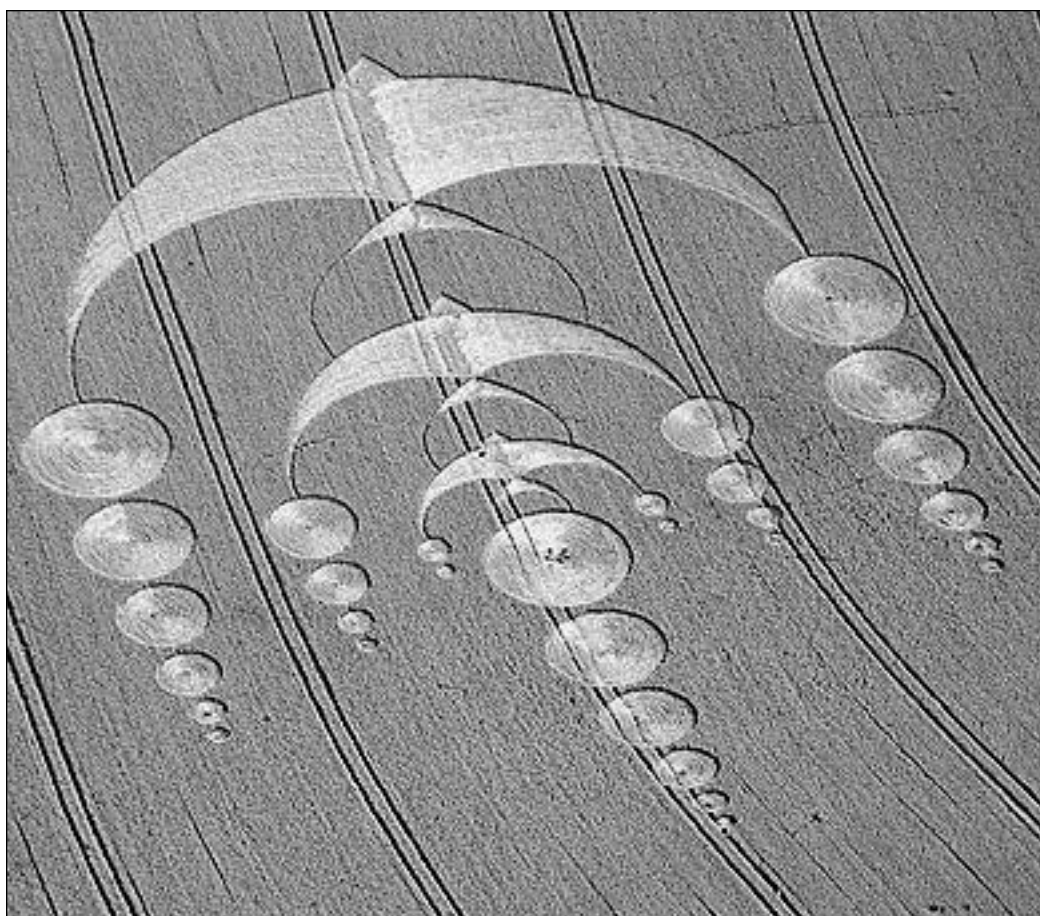
The US even had its first claimed eyewitness account of circles caught in the act of forming. According to the US TV station The Milwaukee Channel, a Wisconsin farmer says he watched formations appearing in his field during a thunderstorm. "It looked like a lake—the waves, the wind blowing—and then, all of a sudden, this dark hole appears, like a black hole. And then immediately, one to the right, then another to the centre of it."

Overall, the UK count of crop circles was notably down this year (with only around 75 recorded patterns), while the rest of the world was up in comparison (around 130 in total), with Germany, The Netherlands and Canada notching up some particularly fine formations. Germany, in particular, helped push the global count up with a staggering 58 recorded crop designs; if this curve continues, it will eventually challenge the UK as the leader in numbers.

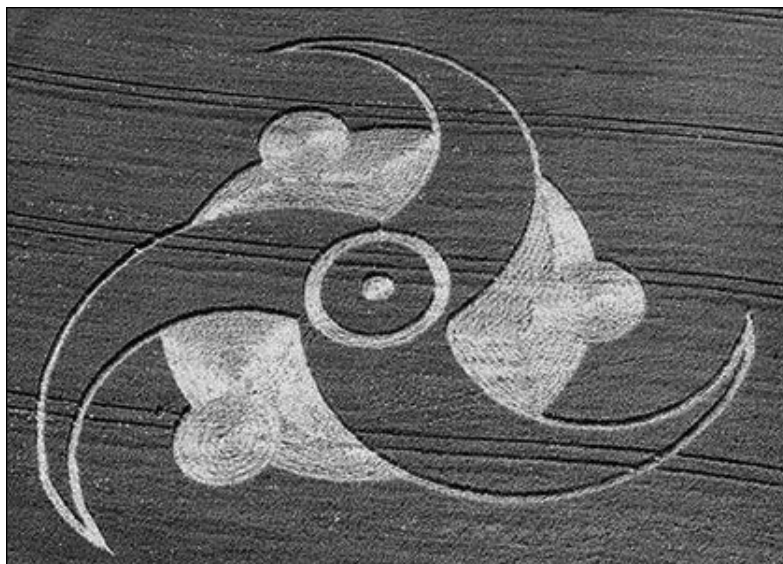
Meanwhile, Italy, previously almost a circle-free zone, suddenly produced 14



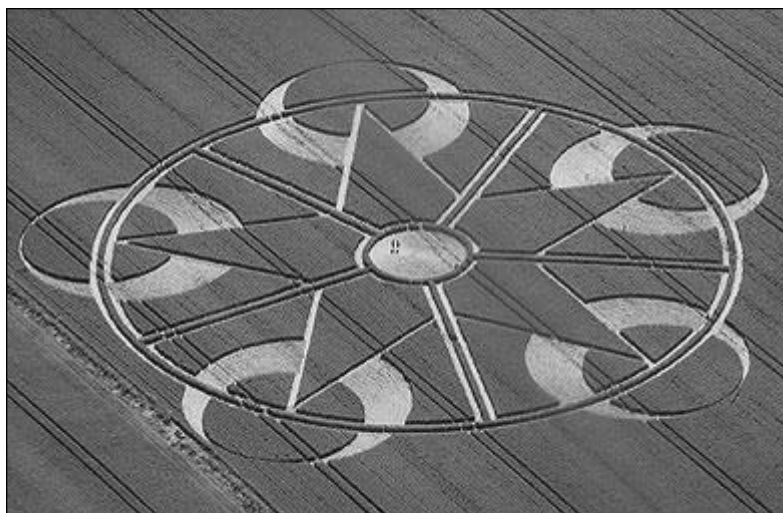
Green Street, near Avebury, Wiltshire. Reported 6th July.
Image: www.temporarytemples.co.uk © 2003



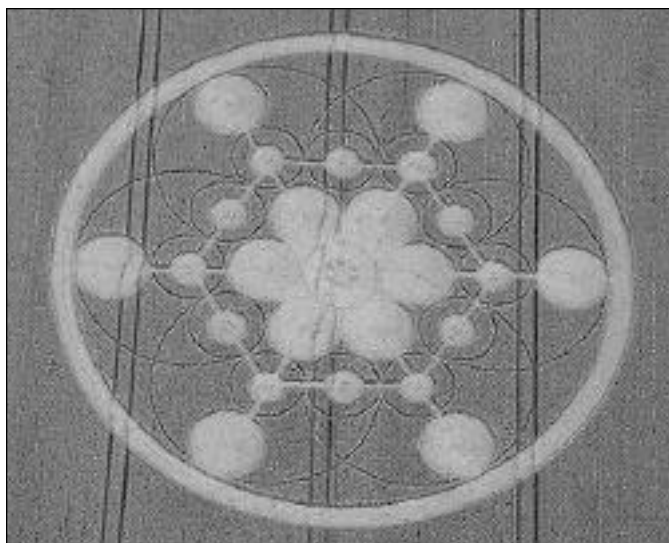
Walkers Hill, near Alton Barnes, Wiltshire. Reported 4th August.
Image: John Dove © 2003



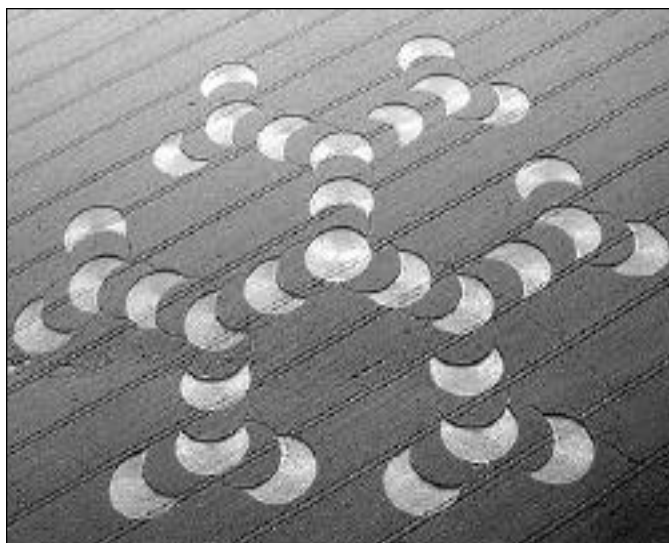
A34, near Litchfield, Hampshire. Reported 4th July.
Image: www.temporarytemples.co.uk © 2003



Avebury Trusloe, near Avebury, Wiltshire. Reported 13th July.
Image: Nick Nicholson and the Crop Circle Connector © 2003



Scrope Wood, near Marlborough, Wiltshire. Reported 22nd July.
Image: Nick Nicholson and the Crop Circle Connector © 2003



North Down, near Beckhampton, Wiltshire. Reported 10th August.
Image: John Dove © 2003

events this year, following its first crop circle conference in 2002. Cynics claimed that newly inspired landscape artists were at work, but others argued that the almost psychic interactive quality of the enigma was in operation again, performing accordingly in a country waking up to the circles far more than ever before.

What a persistent and amazing phenomenon we have. After so many years of appearances, claims and theories, and with all the colourful personalities and intrigues surrounding them, the crop circles still remain a mystery, with neither the mystics nor the sceptics being able to explain their presence satisfactorily. It is the mystery, of course, that remains the phenomenon's greatest gift, leaving us all free to take whatever journey we choose with them. Doubtless, 2004 will be quite a different year again. ∞

About the Author:

Andy Thomas is a leading crop circles researcher and the world's most prolific writer on the subject. He is best known for *Vital Signs: A Complete Guide to the Crop Circle Mystery*, described by many as the definitive word on the phenomenon. His most recent books, just published, are *Swirled Harvest: Views from the Crop Circle Frontline*, a collection of pieces on crop circles and related matters, and *A Oneness of Mind: The Power of Collective Thought and Signs of Our Times*, which transcribes some of Andy's extraordinary live presentations on other far-reaching matters. Information and online ordering details for all these books can be found at <http://www.vitalsignspublishing.co.uk>.

**Special thanks to the folks at
www.CropCircleConnector.com**

**and to Steve Alexander at
www.temporarytemples.co.uk/**



VEDIC PROPHECIES FOR THE KALI-YUGA

from the IndiaDivine website

What follows are predictions for the Age of Kali, as found in the Vedic scriptures written many thousands of years ago. The Kali-yuga (the Age of Quarrel) started 5,000 years ago (3,102 BC) and is scheduled to last a total of 432,000 years, leaving 427,000 years to go. At the end of Kali-yuga (i.e., in 427,000 years), the Yuga cycle will start over with Satya-yuga, the Age of Truth. We should all note the *Srimad Bhagavatam's* mentioning that in Kali-yuga many cheaters will claim themselves to be God, as we can see happening today.

Description of the Kali-yuga

In the 14th chapter of the last canto of the Paramahansa Samhita portion of the *Vayu Purana*, named Sri Gauranga Candra Udaya, Lord Brahma prays to the Supreme Lord Sri Hari thus:

"In the Age of Kali, people are spontaneously attracted to sinful activities and are devoid of the regulations of the scriptures. The so-called "twice born" are degraded by their low-class activities, and those who are born in low-class families are always hostile to brahminical culture. The twice born are low class by quality and do business by selling mantras. These so-called learned men are

absorbed in their intestines and genitals and their only identification is the thread they wear. Indulging in overeating, absorbed in bodily consciousness, lazy, intellectually dull and greedy for others' properties, they are consistently against God consciousness. Due to being overly inclined towards false paths without essence, they manufacture their own processes for self-realisation. Neglecting their actual duties, they are expert in blaspheming You [the Supreme Personality of Godhead] and the saintly persons; hence, again, Mother Earth is in tears due to this burden. Therefore, O Lord of the Universe, destroyer of the miseries of the destitute, please mercifully do what is befitting for the protection of the Earth and the living entities."

"The very day and moment the Personality of Godhead, Lord Sri Krishna, left this Earth, the personality of Kali, who promotes all kinds of irreligious activities, came into this world."

— *Srimad Bhagavatam* 1.18.6

"Oh learned one, in this Iron Age of Kali, men have but short lives. They are quarrelsome, lazy, misguided, unlucky and, above all, always disturbed."

— *Srimad Bhagavatam* 1.1.10

Foreseeing the incompetence of the people in this Age of Kali, or the Iron Age of

Quarrel, great sages and saintly people throughout the ages have sought to benefit the general mass of people by revealing to them the knowledge contained in the scriptures, whereby they may attain relief from the afflictions of this most degraded and dangerous of all ages.

Elaborate description of the anomalies of the Kali-yuga and the plight of living entities is given in the *Srimad Bhagavatam*. Therein, it is described how, as the Sun rose and after taking his morning ablutions in the waters of the Sarasvati, Vyasadeva sat alone to concentrate.

"The great sage Vyasadeva saw anomalies in the duties of the millennium. This happens on the Earth in different ages, due to unseen forces in the course of time. The great sage, who was fully equipped in knowledge, could see, through his transcendental vision, the deterioration of everything material due to the influence of the age. He could also see that the faithless people in general would be reduced in duration of life and would be impatient due to lack of goodness. Thus he contemplated for the welfare of men in all statuses and orders of life."

— *Srimad Bhagavatam* 1.4.16-18

Srila Prabhupada, in the *Srimad Bhagavatam*, describes Kali-yuga in this way:

THE TWILIGHT ZONE

"The unmanifested forces of time are so powerful that they can reduce all matter to oblivion in due course. In Kali-yuga, the last millennium of a round of four millennia, the power of all material objects deteriorates by the influence of time. In this age, the material body of the people in general is reduced, and so is the memory. The action of matter has also not so much incentive. The land does not produce food grains in the same proportions as it did in other ages. The cow does not give as much milk as it did formerly. The production of vegetables and fruits is less than before. As such, all living beings, both men and animals, do not have sumptuous, nourishing food. Due to want of so many necessities of life, naturally the duration of life is reduced, the memory is short, intelligence is meagre, mutual dealings are full of hypocrisy.

"The great sage Vyasadeva could see this by his transcendental vision. As an astrologer can see the future fate of a man, or an astronomer can foretell the solar and lunar eclipses, those liberated souls who can see through the scriptures can foretell the future of mankind. They can see this due to their sharp vision of spiritual attainment.

"And all such transcendentalists, who are naturally devotees of the Lord, are always eager to render welfare service to the people in general. They are the real friends of the people in general, not the so-called public leaders who are unable to see what is going to happen five minutes ahead. In this age, the people in general as well as their so-called leaders are all unlucky fellows, faithless in spiritual knowledge and influenced by the

Age of Kali. They are always disturbed by various diseases. For example, in the present age there are so many TB patients and TB hospitals, but formerly this was not so because the time was not so unfavourable."

Elsewhere in the *Srimad Bhagavatam*, Srila Prabhupada further reveals the degradation of human society:

"In the Kali-yuga, the population is just a royal edition of the animals. They have nothing to do with spiritual knowledge or godly religious life. They are so blind that they cannot see anything beyond the jurisdiction of the subtle mind, intelligence or ego, but they are very much proud of their advancement in knowledge, science and material prosperity. They can risk their lives to become a dog or hog just after leaving the present body, for they have completely lost sight of the ultimate aim of life."

— *Srimad Bhagavatam* 1.3.43

"The people of the world in this Age of Kali are always full of anxieties. Everyone is diseased with some kind of ailment. From the very faces of the people of this age, one can find out the index of the mind. Everyone feels the absence of his relative who is away from home. The particular symptom of the Age of Kali is that no family is now blessed to live together. To earn a livelihood, the father lives at a place far away from the son, or the wife lives far away from the husband and so on. There are sufferings from internal diseases, separations from those near and dear, and anxieties for maintaining the status quo.

These are but some important factors which make the people of this age always unhappy.

"With the progress of the Age of Kali, four things particularly—namely, the duration of life, mercy, the power of recollection, and moral or religious principles—will gradually diminish. Since *dharma*, or the principles of religion, would be lost in the proportion of three out of four, the symbolic bull is standing on one leg only. When three-fourths of the whole world becomes irreligious, the situation is

converted into hell for the animals. In the Age of Kali, godless civilisations will create so many so-called religious societies in which the Personality of Godhead will be directly or indirectly defied. And thus faithless societies of men will make the world uninhabitable for the saner section of people.

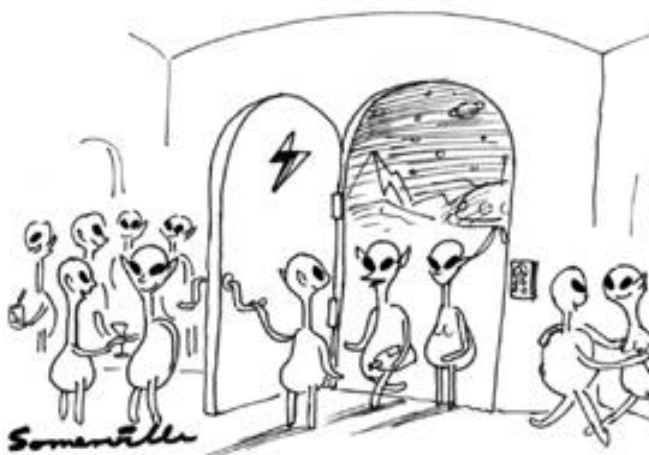
"Beef is forbidden in the scriptures, and the bulls and cows are offered special protection by the followers of the Vedas. But in this Age of Kali, people will exploit the body of the bull and the cow as they like, and thus they will invite sufferings of various types.

"The people of this age will not perform any sacrifice. The Mleccha population will care very little for performances of sacrifices, although performance of sacrifice is essential for persons who are materially engaged in sense enjoyment. The Mlecchas, however, make plans to install slaughterhouses for killing bulls and cows along with other animals, thinking that they will prosper by increasing the number of factories and live on animal food without caring for performance of sacrifices and production of grains.

"In this Age of Kali, the women and the children, along with the Brahmanas and cows, will be grossly neglected and left unprotected. In this age, illicit connection with women will render many women and children uncared for. Circumstantially, the women will try to become independent of the protection of men, and marriage will be performed as a matter of formal agreement between man and woman. In most cases the children will not be taken care of properly.

"The Brahmanas are traditionally intelligent men, and thus they will be able to pick up modern education to the topmost rank, but as far as moral and religious principles are concerned, they shall be the most fallen. Education and bad character go ill together, but such things will run parallel. The administrative heads as a class will condemn the tenets of Vedic wisdom and will prefer to conduct a so-called secular state, and the so-called educated Brahmanas will be purchased by such unscrupulous administrators. Even a philosopher and writer of many books on religious principles may also accept an exalted post in a government which denies all the moral codes of the *sastras*. The Brahmanas are specifically restricted from accepting such service. But in this age they will not only accept service, but they will do so even if it is of the meanest quality. These are some of the symptoms of the Kali Age which are harmful to the general welfare of human society.

"In this age, people are indulging in the



"Sorry we're late. We went to the wrong house in a parallel universe."

necessities of life, eating, sleeping, defending and mating without following the rules and regulations, and this deterioration of social and moral rules is certainly lamentable because of the harmful effects of such beastly behaviour. In this age, the fathers and the guardians are not happy with the behaviour of their wards. They should know that so many innocent children are victims of bad association awarded by the influence of this Age of Kali. In this Age of Kali, the poor innocent students are daily victims of cinemas which attract men only for sex indulgence.

"Nowadays, men without proper training by culture and tradition are promoted to exalted posts by the votes of the people who are themselves fallen in the rules and regulations of life. How can such people select a proper man when they are themselves fallen in the standard of life? Therefore, by the influence of the Age of Kali, everywhere, politically, socially or religiously, everything is topsyturvy, and therefore for the sane man it is most regrettable."

— *Srimad Bhagavatam* 1.16.19-22

In the 12th canto of the *Srimad Bhagavatam*, Srila Sukadeva Goswami relates how, after the thorough degradation of the brahminical and administrative classes, these and other symptoms of Kali-yuga increase to an intolerable level.

"Sukadeva Goswami said: Then, O King, religion, truthfulness, cleanliness, tolerance, mercy, duration of life, physical strength and memory will all diminish day by day because of the powerful influence of the Age of Kali.

"In Kali-yuga, wealth alone will be considered a sign of a man's good birth, proper behaviour and fine qualities. And law and justice will be applied only on the basis of one's power. Men and women will live together merely because of superficial attraction, and success in business will depend on deceit. Womanliness and manliness will be judged according to one's expertise in sex, and a man will be known as a Brahmana just by his wearing a thread.

"A person's spiritual position will be ascertained merely according to external symbols, and on the same basis people will change from one spiritual order to the next. A person's propriety will be seriously questioned if he does not earn a good living. And one who is very clever at juggling words will be considered a learned scholar. A person will be judged unholy if he does not have money, and hypocrisy will be accepted as virtue. Marriage will be arranged simply by verbal

agreement, and a person will think he is fit to appear in public if he has merely taken a bath. A sacred place will be taken to consist of no more than a reservoir of water located at a distance, and beauty will be thought to depend on one's hairstyle. Filling the belly will become the goal of life, and one who is audacious will be accepted as truthful. He who can maintain a family will be regarded as an expert man, and the principles of religion will be observed only for the sake of reputation.

"As the Earth becomes crowded with a corrupt population, whoever among any of the social classes shows himself to be the strongest will gain political power. Losing their wives and properties to such avaricious and merciless rulers, who will behave no better than ordinary thieves, the citizens will flee to the mountains and forests. Harassed by famine and excessive taxes, people will resort to eating leaves, roots, flesh, wild honey, fruits, flowers and seeds. Struck by drought, they will become completely ruined. The citizens will suffer greatly from cold, wind, heat, rain and snow. They will be further tormented by quarrels, hunger, thirst, disease and severe anxiety. The maximum duration of life for human beings in Kali-yuga will become fifty years.

"By the time the Age of Kali ends, the bodies of all creatures will be greatly reduced in size, and the religious principles of followers of *varnasrama* will be ruined. The path of the Vedas will be completely forgotten in human society, and so-called religion will be mostly atheistic. The kings will mostly be thieves, the occupations of men will be stealing, lying

and needless violence, and all the social classes will be reduced to the lowest level of Sudras. Cows will be like goats, spiritual hermitages will be no different from mundane houses, and family ties will extend no further than the immediate bonds of marriage. Most plants and herbs will be tiny, and all trees will appear like dwarf sami trees. Clouds will be full of lightning, homes will be devoid of piety, and all human beings will have become like asses. At that time, the Supreme Personality of Godhead will appear on the Earth. Acting with the power of pure spiritual goodness, He will rescue eternal religion."

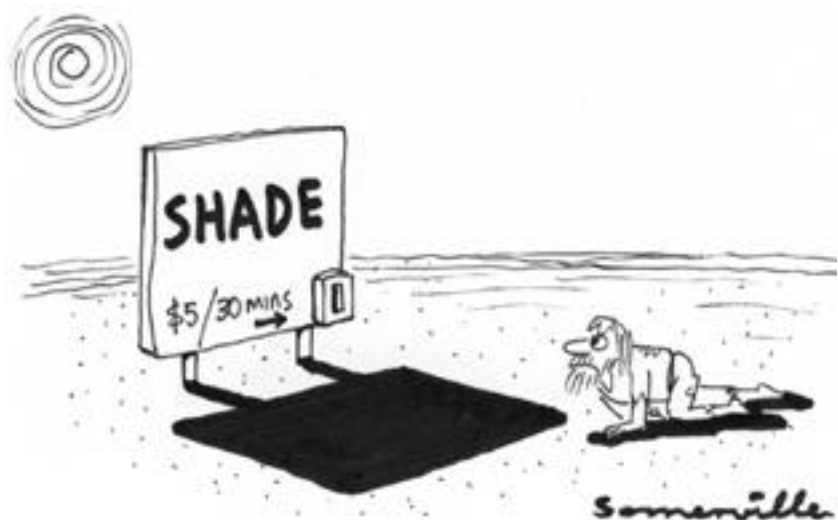
— *Srimad Bhagavatam* 12.2.1-16

"In the Age of Kali, only one fourth of the religious principles remains. That last remnant will continuously be decreased by the ever-increasing principles of irreligion and will finally be destroyed.

"In the Age of Kali, people tend to be greedy, ill-behaved and merciless, and they fight one another without good reason. Unfortunate and obsessed with material desires, the people of Kali-yuga are almost all Sudras and barbarians. When there is a predominance of cheating, lying, sloth, sleepiness, violence, depression, lamentation, bewilderment, fear and poverty, that age is Kali, the age of the mode of ignorance.

"Because of the bad qualities of the Age of Kali, human beings will become shortsighted, unfortunate, gluttonous, lustful and poverty-stricken. The women, becoming unchaste,

Continued on page 77





REVIEWS

BOOKS

Reviewed by Ruth Parnell

SECRETS OF THE ANCIENT INCAS: A Modern Approach to Ancient Ritual and Practice

by Michael Peter Langevin

New Page Books, USA, 2002

ISBN 1-56414-602-2 (218pp tpb)

Availability: New Page Books/The Career Press website, <http://newpagebooks.com>

As a college student in 1973, Michael Peter Langevin made his first sacred journey to Peru, where on Machu Picchu he communed with the mythical gods of the Incas and made a promise to do what he could to keep their ancient teachings alive. And this he has done in many ways through his role as publisher/editor-in-chief of *Magical Blend* magazine for 20 years, as adoptive parent with his wife of two children of Inca descent, and now in writing this book, *Secrets of the Ancient Incas*.

Langevin presents a travelogue on several levels, sharing the stories of his personal journey into the Inca world of nature and spirit as well as the joys of interacting with a big-hearted people and their rich customs and culture. In 2001, he and his family spent many months in Peru and Bolivia, reconnecting with the history, wisdom and sacred places of the Inca people; and here he retraces those steps for our benefit.

In describing how to live the Incan life, he opens our eyes to a different way of seeing the world. Readers familiar with other shamanic traditions will note some similarities in, say, the importance of focusing intent, finding nature spirit guides and allies

and accessing other dimensions. Langevin introduces us to some of the Inca rituals and ceremonial tools used in connecting with the spirit world, and gives an overview of Inca dreaming and astral travelling techniques. He describes the pantheon of Inca gods as well as the qualities we need if we want to climb the "archetypical Inca trail"—qualities such as heart, enthusiasm, passion, imagination and creativity.

Langevin says we can learn much from the Quechuen, the Incas' descendants, because of their capacity for love and caring despite centuries of pain and suffering since the Spanish conquest. His book is a heartfelt tribute to the Incas' great magical tradition and is a gift for those on the spiritual path.

THE TEMPLAR TREASURE AT GISORS by Jean Markale

Inner Traditions, USA, 2003 (1st pub. in French by Editions Pygmalion, 1986)

ISBN 0-89281-972-3 (274pp tpb)

Availability: Inner Traditions website, <http://www.innertraditions.com>

Much speculation surrounds the fate of the fabled treasure of the Knights Templar following the disbanding of the Order and confiscation of its property by the French king Philip the Fair in 1307. A variety of locations in France as well as in Scotland, Switzerland, an island in the Baltic Sea and the New World have been touted as the hiding place of the treasure. However, Jean Markale, a French historian specialising in pre-Christian and mediaeval culture and spirituality, concludes that, if such a treasure existed, it never left France.

As part of his treasure hunt, Markale goes on a pilgrimage through Normandy, highlighting key historical events and artefacts

before focusing his attention on the mediaeval city of Gisors, 65 miles northwest of Paris, and the Castle of Gisors, which, from 1188, allegedly housed the infamous Priory of Sion. Its largely unexplored, rubble-filled subterranean corridors are very likely the repository of Templar secrets, if not the famed treasure. In 1962, objects and documents were found in the passageways and chambers underneath the town of Gisors, and a purportedly Vatican-sourced document surfaced, connecting the honeycombed Gisors underground world with the possible existence of a treasure, though the legends have prevailed for centuries.

Jean Markale is the author of more than 40 books. This one was first published in 1986 in French as *Gisors et L'Enigme des Templiers*, and this Inner Traditions edition is a new English translation. Drawing on original source documents, Markale sets the record straight on Knights Templar history, beliefs and rituals, yet adding to the intrigue and drawing some surprising conclusions.



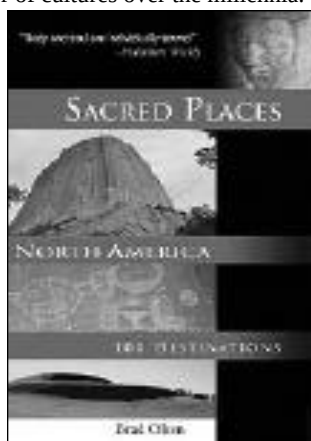
REVIEWS



SACRED PLACES, NORTH AMERICA: 108 Destinations by Brad Olsen

Consortium of Collective Consciousness,
USA, 2003
ISBN 1-888729-09-0 (302pp tpb)
Availability: Independent Publishers
Group website, <http://www.ipgbook.com>;
or website <http://www.bradolsen.com>

For his latest travel guide, explorer and peace activist Brad Olsen focuses on a selection of 108 sacred places in North America, including Hawai'i. These locations have a wealth of anthropological, archaeological and spiritual significance and show the existence, often co-existence, of a number of cultures over the millennia.



The discovery in 1996 of the so-called Kennewick Man—a skeleton of Caucasian origin—in the petroglyph-covered Columbia River Gorge, Washington state, and its radiocarbon dating to at least 9,000 years old puts conventional understanding of North American history into a tailspin. The bee-

hive-design stone chambers dotted through the New England countryside could have been built by Scottish Culdees a thousand years ago, perhaps on top of existing chambers built by seafaring Celts and Phoenicians 2,000 years before that.

Sacred Places North America is a captivating travelogue that explores the rich cultural, spiritual landscape through all points of the compass. It's well illustrated with b&w photos as well as charmingly hand-drawn diagrams and maps, and also includes "getting there" details for travellers. There are sacred mountains and valleys in California, within which lost civilisations are believed to exist, clifftop dwellings of the Anasazi, pyramids of the Mississippian culture, the geometrically arranged, astronomically aligned earthen mounds and serpent mounds of Ohio, and much more. Some unexpected modern places of pilgrimage are included, like Area 51 and Elvis Presley's Graceland!

In drawing attention to well-known and little-known sacred sites, Olsen clears up many misconceptions upon which mainstream American prehistory is based.

NUTRITION RULES! Guidelines from the Master Consultants by Graeme Sait

Soil Therapy Pty Ltd, Australia, 2003
ISBN 0-9750508-0-X (308pp tpb)
Availability: Soil Therapy Pty Ltd, PO Box 338, Eumundi, Queensland, Australia, tel +61 (0)7 5472 9900, website <http://www.nutri-tech.com.au>

Today's epidemic of chronic and degenerative diseases is testimony to what we become when we ignore the critical link between soil health and human health, notes

Graeme Sait in his introduction to *Nutrition Rules!* Graeme is an Australian-based agriculture consultant who is passionate about ecologically sustainable farming practices. Through the company he co-founded, Nutri-Tech Solutions, he has developed a range of biological agricultural products to promote healthy soil and plant growth.

Such is Graeme's conviction that over the last five years he has conducted a series of inspirational interviews with 21 key figures in the "new agriculture" movement. While some of these have been published separately before (e.g., the interview with Dr Phil Callahan on paramagnetism appeared in NEXUS 10/02 and *Acres, Australia*, along with other interviews), this is the first time they've appeared in the one compilation.

The interviews cover in-depth details on mineral and microbe management in soil health, energy management in plant, animal and soil health, as well as human health. Among the luminaries are Charles Walters, eco-farmer and founder of *Acres, USA*, Bruce Tainio, who discovered that plant sap pH is another indicator of plant health, quantum agriculture exponent Hugh Lovel, medical agronomist Dr Arden Andersen, holistic livestock scientist Jerry Brunetti, and Dr Patrick Flanagan, discoverer of the silica hydride molecule.

The message running through these interviews is that it is imperative that we work *with*, not against, nature. Graeme sums it up by saying that the ultimate goal for soil, microbes, plants, animals and humans is peak nutrition. If you haven't discovered bioagriculture, these words of wisdom will reveal a whole new world of sustainable living and the promise of higher, better-quality yields without synthetic, toxic chemicals.



REVIEWS

HEALING THE HURTS OF NATIONS: The Human Side of Globalisation by Palden Jenkins

Gothic Image, Glastonbury, UK, 2003
ISBN 0-906362-62-8 (478pp tpb)
Availability: Gothic Image Publications
website, <http://www.gothicimage.co.uk>

The centre of gravity of history shifted with the events of 9-11. A "soulquake" registered on the psychological Richter scale, and the collective psyche, after another decade of tragedies through the 1990s, declared that enough was enough. But, says Palden Jenkins, the shift was surreptitious and was not necessarily reflected in the corporate media's interpretation for the masses.

Once a flower child of 1960s UK, Palden Jenkins has devoted his life to educational, therapeutic and community-oriented projects and has a keen interest in issues touching on geopolitics, history and spirituality. In his timely book, *Healing the Hurts of Nations*, he maintains that all we *still* need is love, but it's time for a reality check. The conflict in the world between neighbours, nations and religions is escalating as superpower and multinational domination reaches unsurpassed levels and the majority of people feel powerless, disaffected and exploited. But what has caused this present global crisis, and what can we do to overcome it?

Jenkins delves back into the roots of today's troubles, using the examples of Yugoslavia, Britain, Afghanistan and Iraq (as far back as Babylon and Sumer) to illustrate the rise and fall of civilisations. He analyses the psychology of nations and the undercurrents of latter-day globalisation, suggesting constructive ways in which a dehumanising process can be turned around for humanity's individual, social, cultural,

economic and spiritual benefit. It's time, he says, for grassroots leadership to bring in a new age of global community. Individuals need to clarify their true life purpose and develop the courage to implement it and make a real difference to the world. People of all cultures and faiths need to face their hurts and transform them without stepping back into the quagmire of hate and retribution. This vast conflict resolution session is a tall order, and Jenkins speculates on what we might yet need to go through to emerge from the challenges of the 21st century.

(You can access background material and discussion groups at the *Healing the Hurts...* web page, <http://www.palden.co.uk/hhn/>.)

A HEALING LIGHT: The Extraordinary Healing Life of Mauricio Panisset

by Kimberly Panisset Curcio
SelectBooks, NY, USA, 2002
ISBN 1-59079-013-8 (186pp tpb)
Availability: SelectBooks website,
<http://www.selectbooks.com>

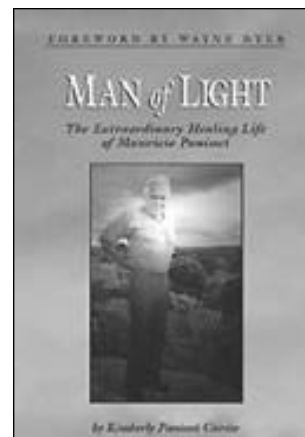
Brazil is renowned for its spiritual healing traditions, and one extraordinarily gifted healer was Mauricio Panisset. He was humble and shy, but sparks and flashes could be seen emanating from him and powerful loving vibrations could be felt during his healing work and in everyday interactions with this glowing "man of light".

The phenomenon of these lights first came to Mauricio when he was nine years old, and continued until his sudden death 54 years later. His amazing story is told with sensitivity by US-born Kimberly Panisset Curcio, who met and married Mauricio in his later years, both of them recognising that they had a deep soul connection over many life-

times. But what were these lights about?

Kimberly explains in *Man of Light* how Mauricio worked with his "Brother Lights", though he could never tell which, if any, would visit when he did his light energisations. The biblical figure Enoch would regularly come to him as a brilliant white light. And forget the influence of ETs and even lower astral plane spirits; we're talking Ultra Terrestrials, UTs, here—higher spiritual beings who work unseen in our midst for the forces of good, working parallel to our world. Via Kimberly, Mauricio passed on fascinating details about higher dimensional realms and confirmed that we *do* create our own reality. We plan our lives and experiences before we enter into each Earth incarnation, and we are totally responsible for our own lives and what happens to us.

Mauricio's story is life-affirming and transformational, and the power of his love and spirit seems to reverberate through these pages, keeping the legacy of his great healing work very much alive.



REVIEWS



MARY MAGDALENE: Christianity's Hidden Goddess by Lynn Picknett

Constable & Robinson, UK, 2003
ISBN 1-84119-403-4 (295pp hc)
Availability: Constable & Robinson Ltd,
<http://www.constablerobinson.com>

Far from having been a prostitute—as the Church of Rome has asserted since at least the time of its patriarchs' vote for the four canonical Gospels at the 4th-century Council of Nicaea—the much maligned Mary Magdalene was most likely a black-skinned high priestess from Ethiopia.

Author Lynn Picknett points out that the Gnostic Gospels—the ones that the Church refused to include in the New Testament—regarded Mary Magdalene as the star attraction, Jesus calling her "The All" or "The Woman Who Knows All" and bestowing on her the title of "Apostle of the Apostles". As the Gnostics saw it, she was the true successor to Jesus the Messiah, and was even his sacred lover. Picknett, in piecing together the threads of evidence, doesn't discount the possibility that Mary Magdalene was already a high initiate in specific Egyptian and/or Hebrew esoteric religious sects. However, in the so-called Holy Lands, she was a threat to many, including Simon Peter, who went on to be the "rock" upon which the Church of Rome was founded.

Picknett soon found hints of a hidden drama at play, and has already touched on this in *The Turin Shroud: In Whose Image?* (co-authored with Clive Prince; see 2/24). Here she reveals more about Leonardo da Vinci's role in the "heretical" Johannite cult which followed John the Baptist, leader of the Mandaean sect. She uncovers the rivalry between Jesus and John the Baptist (which

only ended with John's suspicious death), and shows the codes alluding to it in several of da Vinci's paintings including his *Virgin of the Rocks* and *Last Supper* fresco.

The enigmatic sculptures and paintings of the "Black Madonna", found as far afield as France and Russia, also shed light on the 2,000-year-old tradition of Mary Magdalene as pagan priestess if not goddess. No wonder the Church fathers underplayed this powerful woman's role and practically wrote her out of the Gospels. Picknett's book is a radical reassessment of centuries of Church propaganda and deception, and puts Mary Magdalene back on top of her pedestal.

X3, HEALING, ENTITIES, AND ALIENS by Adrian Dvir

Adrian Dvir, Israel, 2003
ISBN 965-7269-00-8 (421pp tpb)
Availability: Adrian Dvir, Rishon Lezion,
Israel, tel +972 3 964 9440, fax +972 3
967 7559, website <http://adriandvir.com>

Israeli computer engineer Adrian Dvir had his life turned around in 1992 when he had his first experience of being contacted by deceased family members and then others who had passed on but still wanted to help people on Earth. With some nurturing from sympathetic Israeli healers, his own abilities to heal people emerged. By 1994, his mind had opened up to a host of other entities from spiritual beings of light to extraterrestrials from other star systems. Incredibly, these beings claimed to be here to give assistance in healing, and many of them were medical and technical specialists from other worlds and dimensions.

Dvir found he could interact with these aliens telepathically as well as via his computer. One particular alien, X3, claimed to

be a doctor from the Sirius system. He transmitted mind-boggling information to Dvir about the diversity of life in the Universe, advanced spaceflight and medical technologies, and the capacity of the human mind for telepathy, channelling and contacting the spirit, even the "reincarnating core". The subject of reincarnation crops up regularly in this book, and not only within the human context: surprisingly, Dvir has worked with clients who had to be cleared of trauma induced in taking on human incarnation for the first time or resulting from a previous alien lifetime!

Dvir published this book in Hebrew in 1998, and it's taken five years for this English-language edition to be available. At least 50 clinics are now working with alien/astral medical teams in Israel, and Dvir has written a sequel, *Cured by Aliens*. This extraordinary material will open your eyes to a vast new world of possibilities. As for its potential to heal wounds in the Middle East, anything's possible.





REVIEWS

HOW CAN I USE HERBS IN MY DAILY LIFE? An Australian Practical Guide to Growing Culinary and Medicinal Herbs

by Isabell Shipard

David Stewart, Australia, 2003

ISBN 0-646-42248-0 (378pp l/f tpb)

Price: AUD\$39.00 + postage & handling:

\$8 in Australia, \$15 to NZ, \$24 elsewhere

Availability: Shipard's Herb Farm, PO Box

66, Nambour, Qld 4560, Australia, tel +61

(0)7 5441 1101, website [http://www.](http://www.herbsarespecial.com.au)

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

Over the last 25 years, Isabell Shipard has become something of a legend in the world of herbs, having made a life's work out of cultivating a wide variety of medicinal and culinary herbs, spices, fruits, rare edibles and seed varieties on her and husband Derrick's farm on the Sunshine Coast, Queensland, Australia, and distributing them nationally and internationally.

Isabell has also performed an educative role over the years, conducting tours, teaching courses and participating in a regular "Herb of the Week" radio segment.

At last, Isabell has distilled years of wisdom and experience into this comprehensive guidebook, *How Can I Use Herbs in My Daily Life?*, which documents over 500 herbs, spices and edible plants and gives practical advice for growing them and using them in cooking and in medicine. She starts with a detailed introduction, "Herbs Are Special", covering the history and medicinal benefits of herbs, how to use herbs for health and harmony, and hints on propagating them. Then she launches into her "A to Z" list of plants, both Australian natives and introduced species from acerola cherry to

yucca, providing for each entry a detailed description including botanical name, notes on constituents and medicinal uses, advice on culinary uses and numerous recipes.

There are b&w illustrations throughout and several sections of colour plates, making this a must-have for your reference section or kitchen cookbook collection. You'll discover herbs and spices you never knew existed!

WHEN THE BODY SAYS NO:

The Cost of Hidden Stress

by Gabor Maté

Scribe Publications, Australia, 2003 (first

pub. by Alfred A. Knopf, Canada, 2003)

ISBN 1-920769-01-3 (306pp tpb)

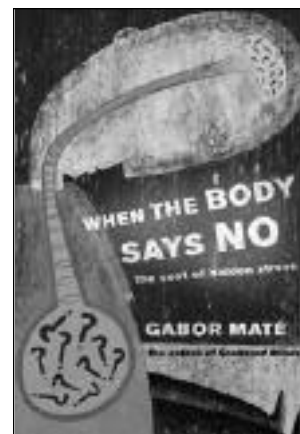
Availability: Scribe Publications website, <http://www.scribepub.com.au>

Stress can affect our health on a variety of levels, but if it's generated from deep and subtle programming then it can become part of what we think is our real self, particularly if such negative programming occurs at an early age. If we're in denial of strong emotions or psychological stress, if we're prevented from learning how to say no to stress in our lives, our bodies may end up saying no for us and bringing on all sorts of chronic illnesses, even cancer.

In *When the Body Says No*, Canadian family physician, psychotherapist and media medico Dr Gabor Maté utilises case studies to demonstrate the relationship between negative emotional and behavioural patterns and illness. His many years in clinical practice have led him to conclude that knowledge of how this causal relationship works is essential for setting the healing process in motion and maintaining good health. The ancients taught that the body and mind are one; and Dr Maté refers to the research of today's

frontier scientists like Dr Candace Pert who have shown that biological and psychological activity are not independent, that each is part of a "super-system whose components can no longer be thought of as separate or autonomous mechanisms".

Yet even the label "psychoneuroimmunoenocrinology", the study of the interrelated functions of the organs and glands that regulate our behaviour and psychological balance, doesn't take in the full expanse of the human biofield, nor notions of soul, consciousness and spirit. Nevertheless, Dr Maté extends the parameters by examining the "biology" of such factors as relationships, loss and belief systems. He leaves us armed with a list of "the seven As of healing": acceptance, awareness, anger (expressed responsibly), autonomy, attachment (in seeking loving healing connections), assertion and affirmation. He encourages us to value our own creative self and affirm our connection with the Universe, with all that is, on our path to healing.



REVIEWS



THE WAR ON FREEDOM:

The 9/11 Conspiracies

by Jim Marrs

ARES Publishing, USA, 2003

ISBN 0-9727131-1-5 (394pp tpb)

Availability: Author's website,
<http://www.JimMarrs.com>

The people of the United States have been living under a State of Emergency since President George W. Bush made the official declaration three days after 9-11. With this declaration, says Jim Marrs, Bush made public the "shadow government" of unelected officials and appointees who can determine the future of this "former republic". He warns that the US government's new War on Terrorism is more a War on



Freedom—a state of siege in which individual freedom supposedly needs to be given away in the hope of being protected.

Jim Marrs is a seasoned investigative reporter/author (*The Plot that Killed JFK*; *Rule by Secrecy*, see 8/01) and is not one to use the "conspiracy" word lightly—but with the 9-11 attacks, smell a conspiracy he does. In examining how it got this far, he looks at the creation and evolution of the US national security state and how its apparatus could have covered up a secret agenda aimed at changing the geopolitical landscape to ensure access to oil, gas and drug supplies.

The mainstream press has failed in its duty to follow up the loose ends surrounding the events of 9-11, so Marrs takes up the cause by highlighting the unresolved issues and questions concerning the events—e.g., the eyewitness accounts of bomb detonations through the towers prior to their implosion, the anomalies concerning the lax airport security that would allow so-called terrorists to board aircraft, and the inconsistencies over passenger lists as published by the FBI.

Marrs takes a long, hard look at what is happening in the USA today. With several thousand people of Arab extraction in prison on no grounds, and with the passing of the

draconian Patriot Act, the future for freedom doesn't look promising. It's happened before, and it's happening all over again as the powerful forces that stand to benefit from fear and war make their next frightening moves on the Grand Chessboard. In his info-packed book that covers events in the lead-up to the War on Iraq, Marrs urges us to wake up to what's really going on.

OUR MEDIA, NOT THEIRS:

The Democratic Struggle Against Corporate Media

by Robert W. McChesney and John Nichols

Seven Stories Press, USA, 2002

ISBN 1-58322-549-8 (140pp pb)

Availability: Seven Stories Press website,
<http://www.sevenstories.com>

The time is ripe for structural reform of the corporate media if democracy is to have a future in the United States, argue Robert McChesney and John Nichols in *Our Media, Not Theirs*. And while the authors acknowledge that there is already a growing movement against an increasingly undemocratic mass media—as seen in a strengthening alternative media and the power of the Internet—they say it is imperative that citizens get involved in debate about media policy and force decision-makers in Congress and the FCC to replace the corporate media—their media—with media that serve the people—our media.

McChesney is a research professor in the Institute of Communications Research at the University of Illinois and the author of *Rich Media, Poor Democracy*, and Nichols is Washington correspondent for *The Nation* and author of *Jews for Buchanan*. This edition is a fully revised and updated version of their 2000 book, *It's the Media, Stupid*, and includes a broad-picture new foreword by Prof. Noam Chomsky, while retaining the original forewords by feminist writer Barbara Ehrenreich and consumer activist Ralph Nader. The updates include brief analyses of the 9-11 attacks, the Enron collapse and the passing of the Patriot Act, and the corporate media's lamentable failure to provide a free flow of information and commentary on these watershed events.

The authors summarise what's happening stateside and worldwide in view of today's media globalisation trend, and give some media awareness hope with recent examples from East Timor and Venezuela. To rescue media freedom, the authors have a multi-point plan that includes applying existing anti-monopoly laws, establishing hearings to determine fair media ownership regulations across all sectors, and decommercialising local TV news. It's an uphill battle, but a truly free press is essential for democracy.



REVIEWS

BEHIND THE WAR ON TERROR

by Nafeez Mosaddeq Ahmed

Clairview Books, UK, 2003

ISBN 1-902636-44-9 (346pp tpb)

Availability: Clairview Books website,
<http://www.clairviewbooks.com>

Regular readers should recall the extract and review we ran in NEXUS 9/05 of Nafeez Mosaddeq Ahmed's *The War on Freedom*, his analysis of events surrounding 9/11. For his new book, *Behind the War on Terror*, Ahmed investigates the secret history of Western—particularly Anglo-American—manoeuvrings in the Middle East since the fall of the Ottoman Empire and up to today's US-led War on Iraq.



Ahmed argues that the so-called War on Terror has roots traceable to the immediate post-WWII period, its political climate characterised by US planning for the global expansion of its military might and economic power, which was essential for securing access to foreign oil and gas resources. But for US (and UK) neocolonialism to have legitimacy, a global threat had to be manufactured to justify military interventions—which is why the US needs bogeymen like Osama bin Laden and Saddam Hussein.

Ahmed's perceptive analysis is divided into two parts: the 1991 Gulf War Massacre and the history and strategic context of Western state terrorism; and Bleeding the Gulf, which looks at the social and economic effects of UN sanctions on Iraq, the false pretext for war over supposed WMD, anthrax terrorist attacks on US soil and the corruption of human rights discourse.

Ahmed prepared most of his book before the US/UK invasion of Iraq, but includes a substantial postscript written in late April. He reports on the ruthless US control of information and routine killing of non-embedded journalists, the huge number of civilian casualties caused by Operation Shock and Awe, US failure to protect civilians and provide humanitarian assistance, and bribing of senior military and administration figures in Saddam Hussein's inner circle to effect the "regime change". He

concludes that the war for the "liberation" of Iraq was "nothing less than a brazen colonial enterprise, fundamentally opposed to elementary humanitarian principles, and motivated by longstanding imperial values".

Ahmed's work, punctuated with published and rare documentary evidence, is an awesome critique of democracies gone mad.

REEFER MADNESS and Other Tales from the American Underground by Eric Schlosser

Allen Lane/Penguin Books, 2003 (also pub. by Houghton Mifflin Co., USA, 2003)
ISBN 0-713-99658-7 (310pp tpb)

Availability: Penguin Group website,
<http://www.penguin.com>

History has shown that the more something is prohibited, the more it thrives in the underground—the black economy. In *Reefer Madness...*, award-winning journalist Eric Schlosser, a correspondent for *Atlantic Monthly* and author of *Fast Food Nation*, focuses on three areas of economic activity that have burgeoned in the underground, especially in the last three decades: marijuana, migrant workers and pornography.

Certainly, the American Prohibition era, 1920–33, showed what happens when a major commodity, alcohol, is made illegal. So while there's nothing new about black market economies, they have undergone a huge expansion in the US (and elsewhere) in recent decades. As Schlosser sees it, this can be attributed in part to the hippie counterculture of the late 1960s meeting up with the anti-tax movement of the late 1970s—both groups sharing a voice in their disdain for the government and defiance of the Internal Revenue Service. The rollercoaster hasn't stopped since. In the post-industrial society where more money is spent on marijuana than on tobacco, where migrant worker smuggling is a billion-dollar business that props up the US economy, and where porn has gone from an obscure deviant racket to mass popular entertainment, we can make sense of Schlosser's proposition that the mainstream and underground economies are two sides of the same coin.

There are some truly tragic and cautionary tales told in *Reefer Madness*—originally an essay, now expanded into book form. Schlosser laments that American society has become so at odds with itself that it's "like a personality beginning to decompose". The harshness of its laws and the penalties in these three areas—sex, drugs and cheap labour—are symptomatic of a much larger problem affecting this supposedly great nation. Schlosser concludes that black markets, while they'll always be with us, will fade in importance if only public and private morality can be consistent.

REVIEWS



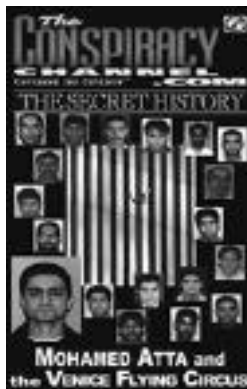
VIDEOS

Reviewed by Duncan Roads

MOHAMMED ATTA AND THE VENICE FLYING CIRCUS

Produced by Mad Cow Press/Daniel Hopsicker, 2002 (60mins, PAL/NTSC)
Distributor: Mad Cow Press, USA, tel 1-800 556 2012 (USA/Canada only), website <http://www.MadCowProd.com>

Producer Daniel Hopsicker is a highly regarded researcher amongst those seeking to expose the many links to state-sponsored terrorism among governments, law enforcement agencies, intelligence communities and organised criminals.



This video focuses on the sleepy retirement community of Venice, Florida, where three of the four 9-11 "terrorist pilots" apparently learned to fly. Of particular interest are the two flight schools, both owned by Dutch nationals and having ties to the Mob and elements of the intelligence community. It becomes very clear that the FBI and mainstream media have written out key pieces of evidence on the activities of the terrorist hijackers, and no wonder.

It is obvious that any mainstream media attention on the contents of this film would cause a public outcry for a drastic rewrite of 9-11 history. For instance, it seems the hijackers did *not* plan to commit suicide, and certainly didn't exhibit any signs of Islamic fundamentalism. In fact, we learn of *three* Mohammed Attas, begging the question: just who were these "terrorists"? And then the same names from Iran-Contra, the Mena drugs conduit, the Vince Foster murder, and so on, keep popping up.

If you have any friends left who still think terrorist hijackers pulled off 9-11 without US foreknowledge, show them this video! May I also strongly urge readers interested in quality research to visit Dan's website (<http://www.MadCowProd.com>) and read his many articles posted there.

VEDIC MATHEMATICS FOR THE NEW MILLENNIUM

Part One: The Magic of Nine

Presented by Jain

Produced by Global Vision International, NSW, Australia (135mins, PAL VHS)
Distributor: Magic Square Studio, 50 Left Bank Road, Mullumbimby Creek NSW 2482, Australia, tel/fax +61 (02) 6684 4409, <http://www.jainmathemagics.com>

For as long as I have known of Jain, he has been teaching and spreading the word on numbers. Magic Squares, Atomic Art, Sacred Geometry and Vedic Mathematics are just some of the subjects he researches, lectures on and writes about.

In this video, Jain focuses on Vedic Mathematics (also see Science News this issue), and after some brief background on its history he uses example after example, taking the viewer through most of the basic *sutras*, or word formulas. Above all, he succeeds in letting viewers understand a subject that most reject as too "hard".

If you've ever wanted to become a human biocalculator, then this is for you!

Video/DVD

Reviewed by Duncan Roads

ALIEN IMPLANTS: Dr Roger Leir

Presented by William J. Birnes

Produced by Stargate Productions, William J. Birnes and Dr Roger Leir, USA

Distributor: Dr Roger Leir, 253 Lombard St #B, Thousand Oaks, CA 91360, USA, website <http://www.alienscalpel.com>

A truly fascinating interview with a former sceptic and medical doctor, Dr Roger Leir, who has become the world's leading authority on the surgical removal of non-terrestrial implants from humans.

A lot of people I meet can handle the idea that UFOs are real and that extraterrestrials exist, but most of them would roll their eyes at the mention of alien-sourced implants being found in humans.

So, folks, if you've ever been in doubt about this, you had better see this video/DVD. It has great close-ups of the process of surgical removal and of the implants themselves. These implants have been analysed and show most remarkable properties. For instance, most implants need to be stored in serum from the patient after removal, or else they "dissolve"; many have demonstrated highly magnetic or ultraviolet properties and effects; and most of those tested have shown isotopes of elements that could not have originated on this planet! Highly recommended viewing.



REVIEWS

MUSIC

Reviewed by Richard Giles

AFRICAN PLAYGROUND

by various artists

Putumayo Kids, USA, 2003 (44mins)
Distributors: **Aust**—MRA, tel (07) 3849 6020; **UK**—Pinnacle Imports, tel 01689 870622; **USA**—Putumayo, tel 1888 7888 8629, <http://www.putumayo.com>

This is the fourth album of music for children in the Putumayo World Playground series. Playground albums are designed to involve children in the world of music, teaching them about the country where each piece originates. Each song is accompanied by notes, history and background on the country. And all the music is fun and exciting listening. Artists come from Benin, Senegal, South Africa, Kenya, Ethiopia, Nigeria, Congo and more. High-quality, educational, fun music with profits going to a Putumayo cultural learning fund.

MUSIC OF THE NILE

by various artists

ARC Music Prodn, UK, 2003 (79mins)
Distributors: **UK**—ARC, tel +44 (0)1342 328567, <http://www.arcmusic.co.uk>

David Fanshawe is an internationally renowned collector of music and recorder of ethnic sounds, a producer, photographer, speaker and more. His work has won awards all around the world. He began recording indigenous music in the Middle East in 1966, and rose to fame with his choral work, *African Sanctus*, released in the 1970s. This ARC Music release contains the original African field recordings made between 1969 and 1975, and comprises rare and unedited music samples collected along the River Nile before the *Sanctus* release. A very special collectors' album.

PACIFICA PIA

by Pia

New World Music, UK, 2003 (46mins)
Distributors: **Australia**—New World Music, tel (02) 9565 4522, website <http://www.newworldmusic.com.au>; **UK**—New World Music, tel 01986 781682; **Germany**—MCC, tel 4102 898202; **USA**—New World Music, tel (303) 415 1040

This is Pia's third CD after two releases from 1999, when she won accolades for her *Benediction Moon*. Pia has a stunningly pure voice, and she dedicates her album to Srila Sivarama Swami, her teacher. The use of piano, guitar, djembe, accordion, cello and flute go with a modernised devotional-style song, combining older traditions with

the contemporary to produce a journey of love and hope through the purity of sound. My favourites are "Guiding Star" and "Lord of the Universe". A very inspiring album.

EAST TO WEST

by Baka Beyond

Narada World, USA, 2002 (49mins)
Distributors: **Aust**—MRA, tel (07) 3849 6020; **USA**—Narada, tel (414) 961 8350, website <http://www.narada.com>

Baka Beyond released its first album of fusion pigmy Celtic music, titled *Spirit of the Forest*, back in 1993. *The Meeting Pool* followed two years later. Musicians Martin Cradick, Su Hart, Paddy Le Mercier and others have long collaborated to promote Baka pigmy music from the Cameroon forests. This first-class album brings together players from Senegal, Ghana and Cameroon, including a group of Baka from Lupé. Royalties from the Baka songs go to the Global Music Exchange to fund Baka projects. This is an exciting musical feast, combining African rhythms and Celtic reels.

ZABUCA

by Johannes Linstead

Real Music, USA, 2002 (45mins)
Distributors: **Aust/UK**—New World Music; **USA**—Real Music, tel (415) 331 8273, <http://www.realmusic.com>

The title of Johannes Linstead's fourth album since *Sol Luna Tierra* translates as "shake-up"—which is perfect for an infectious Spanish and flamenco collection from the land of Gypsies. Johannes' guitar style on *Zabuca* ranges from quiet and seductive, playful little pieces to passionate, joyful and bold Latin sounds. Of particular interest is a two-part song titled "Echoes of the Forest". These pieces combine a quiet classical guitar manner with modern flamenco moods. An album of fine performances from a master of modern *nouveau flamenco*.



Noni – The Tropical Cure-All Plant

Continued from page 22

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Continued from page 36

Treasury which was illicitly transferred to the Vatican and elsewhere at the end of World War II. David has recently completed an in-depth investigation into the black market of gold and has published it as an electronic book, "The Secret Gold Treaty", available through his home page, <http://www.deepblacklies.co.uk>.

Endnotes

27. See <http://www.marcosbillions.com> for some additional background on Roberto Benedicto and his willingness to front for Marcos. Additionally, I have a two-page Marcos document listing details of the numerous bank accounts he controlled either directly or through others.
28. See Luigi DiFonzo's *St Peter's Banker* (Franklin Watts, New York, 1983).
29. See William Scott Malone's *Golden Fleece* (Regardies, October 1988).
30. See "The Project Hammer File" part one for background on van Rooyen and Stander's involvement in Project Hammer.
31. See news reports circa 2000 of BoNY involvement in illegal money laundering activities with IMF funds on behalf of Russian criminal and political figures.
32. See *Everybody's Business: An Almanac – The Irreverent Guide to Corporate America*, edited by Milton Moskowitz, Michael Katz and Robert Levering (Harper & Row,

San Francisco, 1980).

33. Although this may, of course, just be pure coincidence, it is worth noting.

34. For a comprehensive account of the MGM/Credit Lyonnais affair, see David McClintick and Anne Faircloth's informative "Predator", which is freely available on the Internet.

35. See Peter Johnston's story in my e-book, "The Secret Gold Treaty", available for free download at <http://www.deepblacklies.co.uk>.

36. See <http://www.marcosbillions.com> for further details, and also "The Valentine's Day Caper", published at <http://www.FinanceAsia.com>.

37. This is according to the Anglo American website as at November 1998.

38. See <http://www.cryptome.org/za-disrupt.htm>.

39. See "The Project Hammer File" part one for further details.

40. See *Dope, Inc.* (EIR, 1992), page 101.

41. For a detailed background on the Keswick family and related associations, see *Dope, Inc.*, page 115, for the cited reference.

42. See Alejandro Reyes's article, "The Superman of Hong Kong", in *AsiaWeek* magazine, published in 2001.

43. See Anton Chaitkin's "Inside Story: the Bush Gang and Barrick Gold Corporation", at <http://www.afrocentric.news.com>.

44. See *Sunday Express*, March 25, 2001, for details of this story.

45. For du Cann's connection to Lonrho, see Linda Minor's "Follow the Yellow Brick Road,

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46. Their offices are, in fact, right next door to Buckingham Palace.

47. See Christopher Wrigley's "The Privatisation of Violence – New Mercenaries and the State", March 1999, at <http://www.caat.org.uk/information/issues/mercenaries-1999.php>.

48. For further details, see "Rent-a-Spy, Inc.", at <http://www.tijuanaimc.org/news/2002/11/79.php>.

49. Minorco held a 14% stake in Salomon Brothers. Anglo American held a 39% stake in Minorco, while De Beers held another 21%.

50. For background on Minorco, see "Anglo American Corporation: A Pillar of Apartheid", published by *Multinational Monitor*, September 1988, at http://multinationalmonitor.org/hyper/issues/1988/09/mm0988_08.html.

51. See "Rent-a-Spy, Inc." for referenced details.

52. See <http://forums.investorbbbs.com/myforums.pl?u=&B=113>.

53. See the van Rooyen deposition to German police that forms part of the exhibits of The Project Hammer File (part 1).

54. Board directors of Banque Al Saoudi included Sheik Salem bin Laden.

55. For a more detailed background on YAB/42, see "The Secret Gold Treaty" appendix headed "Aquino WWII Gold".

56. My thanks go to Lois Battuello for providing research material on this aspect of the story and for her generous assistance over the years.

Continued from page 47

the Internet that he has developed a 160-kg vehicle able to lift in excess of 2,000 kg and that it has both horizontal and vertical drive features.

His device not only can go up and down and sideways, but it can push things away and pull objects to it, much like a *Star Trek*TM tractor beam.

In addition, the field that the device purportedly generates is capable of being broadened and weakened, or narrowed and amplified in a lensing effect, with the field producing an absolute vacuum of 2.2 metres in spherical diameter. Best of all, when it's cranked up, the core of it goes invisible, although the term Dr Hollingshed uses is that there is a "loss of reflected light".

There are no reports of independent confirmation, and Nick Cook says he hasn't been invited to see the device, so he's sceptical.

Where does this leave us? Perhaps Dr Podkletnov's words sum up our current situation.

"Modern theoretical physics cannot give you the direct answer to your questions

[levitation, torsion fields, etc.], and a scientist who would agree to give you the answer cannot be regarded seriously, softly speaking. If you had asked Dr Einstein if he were an expert on gravity, the answer would be 'No'. I can repeat his words: 'No, I am not a magician, yet; I am still learning.'" ∞

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About the Author:

Bruce Smith, originally from the suburbs of New York City, moved to the cool, damp climes of Yelm, Washington, a dozen years ago to intensify his studies at the Ramtha School of Enlightenment. As a journalist in the hard science that supports and explains the far reaches of consciousness, he is keenly interested in human levitation. His research into that topic led him to the technology and theories of antigravity, and thus this article was born. Aged 53, Bruce is a former psychotherapist of 16 years' standing; the 1998 National (US) Storytelling Champion runner-up; and the former owner and founder of Sandsifter Beachcleaning Co. of New York. His current day job is being a union stagehand in Seattle.

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will freely wander from one man to the next. Cities will be dominated by thieves, the Vedas will be contaminated by speculative interpretations of atheists, political leaders will virtually consume the citizens, and the so-called priests and intellectuals will be devotees of their bellies and genitals. The Brahmacharins will fail to execute their vows and become generally unclean, the householders will become beggars, the Vanaprasthas will live in the villages, and the Sannyasins will become greedy for wealth.

"Women become much smaller in size, and they will eat too much, have more children than they can properly take care of, and lose all shyness. They will speak harshly and will exhibit qualities of thievery, deceit and unrestrained audacity.

"Businessmen will engage in petty commerce and earn their money by cheating. Even when there is no emergency, people will consider any degraded occupation quite acceptable. Servants will abandon a master who has lost his wealth, even if that master is a saintly person of exemplary character. Masters will abandon an incapacitated servant, even if that servant has been in the

family for generations. Cows will be abandoned or killed when they stop giving milk.

"In Kali-yuga, men will be wretched and controlled by women. They will reject their fathers, brothers, other relatives and friends and will instead associate with the sisters and brothers of their wives. Thus their conception of friendship will be based exclusively on sexual ties. Uncultured men will accept charity on behalf of the Lord and will earn their livelihood by making a show of austerity and wearing a mendicant's dress. Those who know nothing about religion will mount a high seat and presume to speak on religious principles.

"In the Age of Kali, people's minds will always be agitated. They will become emaciated by famine and taxation, my dear King, and will always be disturbed by fear of drought. They will lack adequate clothing, food and drink, will be unable to rest properly, have sex or bathe themselves, and will have no ornaments to decorate their bodies. In fact, the people of Kali-yuga will gradually come to appear like ghostly, haunted creatures."

"In Kali-yuga, men will develop hatred for each other, even over a few coins. Giving up

friendly relations, they will be ready to lose their own lives and kill even their own relatives. Men will no longer protect their elderly parents, their children or their respectable wives. Thoroughly degraded, they will care only to satisfy their own bellies and genitals.

"O King, in the Age of Kali, people's intelligence will be diverted by atheism, and they will almost never offer sacrifice to the Supreme Personality of Godhead, who is the supreme spiritual master of the Universe. Although the great personalities who control the three worlds all bow down to the lotus feet of the Supreme Lord, the petty and miserable human beings of this age will not do so.

"Terrified, about to die, a man collapses on his bed. Although his voice is faltering and he is hardly conscious of what he is saying, if he utters the holy name of the Supreme Lord he can be freed from the reaction of his fruitive work and achieve the supreme destination. But still, people in the Age of Kali will not worship the Supreme Lord."

— *Srimad Bhagavatam* 12.3.24-44

(Source: from the IndiaDivine website at <http://www.indiadinine.org/predictions-kali-yuga1.htm>)