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NEXUS

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in Central Asian desert**



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• Soviet Mind Power • Giants • Cosmic Rays •

NEXUS

NEW TIMES MAGAZINE

Volume 8, Number 5 AUGUST – SEPTEMBER 2001

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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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While reproduction and dissemination of the information in NEXUS is actively encouraged, anyone caught making a buck out of it, without our express permission, will be in trouble when we catch them!

Editorial

Hello again, and welcome to the another info-packed issue of NEXUS Magazine. I hope you are surviving the rigours of globalisation in all its forms. One development of late is that face-recognition software has been combined with video surveillance cameras, and that various police departments are already using it. One day you will tell your children or grandchildren that you remember the days before "total surveillance".

Don't laugh: between videocams, satellites and the Internet, you cannot hide anywhere—even in the secret underwater tunnels and bases alluded to by Richard Sauder in his article this issue. What surprises me most about the subject of underwater tunnels is just how advanced the technology is that can drill such things. A lot of the technology has been available and in use for decades—so what have they constructed in secret?

As for today's modern satellites, even Russia's *Pravda* (as you'll read in Global News) has reported that they can monitor the presence and movement of everybody (indoors and out) and can read minds, and more! Maybe they have *already* read the second part of Martin Ebon's article on Soviet Mind Power Research!

First up, though, we have an important article about "stray" electricity in the ground and its effects on humans and animals. In short, it is very harmful; prolonged exposure can lead to death. Where does this electricity come from, and why haven't we been aware of this problem before? Read the article!

"Mycoplasma" is not a word likely to be used in many conversations, but these ultramicroscopic life-forms sure are getting around. Researchers have discovered that as well as the naturally occurring varieties, there are also some human-modified types—and they're getting worse. I bet this disease agent does turn out to be the primary mechanism behind AIDS and variant CJD, as Donald Scott suggests in his article. Mad cow disease researchers should particularly note the section on the *real* origin of kuru in New Guinea.

For the "underground mad scientists" out there (isn't this a great term?), we have Gavin Dingley's comprehensive article on Cosmic Energy Receivers; although it sounds "new age", it is not. If you are a fan of Tesla or Moray, then this is another one for you.

Due to a spate of protest letters from readers claiming that our Science News articles are too technical, we decided to dive into our files marked "forgotten scientists who did amazing things and deserve to be recognised and remembered". I'm sure you'll agree that these stories are not too technical and that these scientists are worthy of a mention in NEXUS.

It seems that almost every week the newspapers announce the finding of some archaeological site that challenges the accepted dogma laid down by the high priests of science. When will they realise that there was a global, high-tech civilisation that existed before the last ice age ended? The ancient civilisation of Sumeria still evokes wonder and awe, but from where did such an advanced culture emerge? And why don't anomalous cases warrant further study? With the collapse of the Iron Curtain, there has been renewed investigation by Western scientists of Central Asian archaeological sites, including an intriguing dig in southern Turkmenistan near the Iranian border. This site is as old as Sumeria and shows evidence of supporting an advanced culture over a long time period.

We always have one or two articles that fit into the "unexplained" category. In this issue we feature an article/book extract on African Avatars, and essentially it's about two of Africa's spiritual miracle-men, one of whom, Simeon Toko, died just under 20 years ago. Had Christ already come again and gone? And this time, was He black? We have done what we can to have aspects of this article authenticated and validated, but, as you will read, there is much that remains to be explained. If anyone reading this has anything further to add to this intriguing tale, please let us know so that we can pass it on to our readers. I'm sure you'll agree that the story of Simeon Toko is truly incredible.

Still on the unexplained, John Mount's article on Giants takes up all of Twilight Zone this issue. If you are interested in this subject, you might also want to read two books reviewed in these pages: *The Franklin Conspiracy*, and *Giants from the Dreamtime* by the indefatigable Rex Gilroy.

Finally, I encourage you to join us at the NEXUS Conference in September. With our great line-up of speakers (see the advert/insert inside for details), it should be another memorable event!

Duncan

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Letters to the Editor ...

The Indigestible Truth

Dear Duncan: We thought you would be interested in The Saga of the McDonald's Muffin. A friend bought said muffin 13 months ago, put it in a paper box and totally forgot about it until now, for a series of reasons too boring to detail here.

Imagine her amazement when she discovered this geriatric muffin to still be in pristine condition. Bugs had shunned it, the shape was identical and there was not a trace of mould; nor were there any other signs of what we have come to expect from the breakdown of real food. One wonders what the digestive system would make of this non-food.

Sincerely,

Elaine Hollingsworth,
Director, Hippocrates Health
Centre, Queensland, Australia

Call for Ban on Aspartame

I was very interested to read your article on aspartame [see NEXUS website]. For me it was like having a veil lifted, and it explained why I have been suffering from numerous health problems for many years, even though my own doctor could not find a cause.

I have been using aspartame for many years in various products in an effort to control my weight, but not any more. I would rather put on a few pounds than suffer a minute longer the misery that aspartame has brought to my life.

I cannot thank you enough. I hope that everyone who reads the article lobbies their government to carry out more research and ban the use of aspartame completely. Life should always come before profit—and if it does not, then there is something seriously wrong with our society. What right does anybody have to universally poison the population?

Thank you again,

Rosemary S., Cornwall, UK

[Dear Rosemary: We get so many letters like this one. Ed.]

Aspartame and Mood Swings

Your article on aspartame was very illuminating. My three-year-old has violent moods after consuming very small amounts of this sweetener in drinks or sweets. She can't sleep, and turns into the child from hell.

Laine M., United Kingdom

The Costs of Medical Errors

Dear Editor: Why are there so many deaths from properly prescribed drugs?

The *American Medical Journal* lists the causes of death of patients in public hospitals while under medical supervision: 12,000 – unnecessary surgery; 7,000 – medical errors in hospitals; 20,000 – other errors in hospitals; 80,000 – infections gained in hospitals; 106,000 – non-error, negative effects of drugs.

The figures reported by the *British Medical Journal* and NZ Health show a similar ratio of causes. According to the United States figures, doctors are about 9,000 times more dangerous than gun owners.

In Australia, the "experts" almost exclusively blame "human error", but when compared to overseas figures this is only about one-fifth of the death rate caused by properly prescribed drugs. What Australians are being told just doesn't stack up. It's obvious: something is seriously wrong with the management of public health and deserves an immediate and full investigation.

In most cases, the "adverse reactions" term appears to be a good way to disguise undiagnosed chemical sensitivity. The alliance between government and mainstream medicos to deliberately ignore chemical sensitivity seems to be killing people in public hospitals on a large scale.

At least one-third of the population has chemical sensitivity to varying degrees from a few very specific agents. Most people just avoid the offending

agents. However, these and more exotic compounds not previously encountered can be present in high concentration in complex drugs. The reaction they cause can easily kill anyone who is already seriously ill.

A newspaper investigative report claimed that a A\$120 million medi-error cure is required to reduce the number of lawsuits, which currently cost Queensland \$95 million per year. It claimed that Qld Health currently faces 400 lawsuits, while defence costs tripled last year. This represents a massive loss of precious health funding, leading to longer waiting lists and inadequate specialist services in provincial areas.

The stubborn refusal to recognise chemical sensitivity and environmental illness in Australia seems to be for no other reason than to benefit the business profits of agrichemical and pharmaceutical giants. According to reliable reports, Australian drug and medical errors are now killing one in five of us.

What price are we willing to pay, just so that toxic business profits can proliferate?

Rex Warren, President,
Australian Chemical Trauma
Alliance, rexglor@bigpond.com

Red Sky and Superwaves

Dear Duncan: "Grandfather's Prophecy" in NEXUS 7/01 predicts a "red sky" and the "night of the bleeding stars" as the last signs of the times, whereafter there would be no turning back.

In NEXUS 8/02, Dr Paul LaViolette tells us that the galactic superwave will cause cosmic dust to scatter sunlight and form a glow within the solar system that will redden the Sun's spectrum. For those who had the thought that only a huge cloud of cosmic dust and debris could "make the stars bleed", I guess that here's an idea as to where it could come from.

Bernie Turvey, bernie2t@telstra.com

Changing the World

Dear NEXUS: I heard of you from a cousin of mine and he advised me to have a look into your website and get copies of your magazine.

I now have done this and read many articles on history and psychic powers, and I now feel so enlightened because of your knowledge. Also, I have started courses and read many books which I did not think of before. I used to be a sceptic but now...I be alive! For this I thank you! NEXUS, you're changing the world!

Scott Leslie, Scotland, UK

Controls on Mind Control

Dear Editor: My name is Paul C. Dozsa. I am 61 years old. I was born in Szeged, Hungary, on 20 January 1940. I have spent most of my life as a research subject of the military.

I was implanted in 1958 in Budapest and become a research subject of Warsaw Pact military research.

Hungarian research knowledge is extremely advanced. Some of it includes:

1) Harmonising or disharmonising the implanted research subject's subtle energy field. That means the researchers can cure sickness before it manifests itself in the human body.

Since 1958 I have not taken any medicine, painkiller or sleeping pill; these have been replaced with harmonising electromagnetic waves and hypnotic suggestions. The path of the communication is Budapest Research Centre, satellite and my implant.

2) They can read the implanted subject's mind; *ergo*, they can process the thoughts of the implanted subjects!

The probable path is human thought wave, implant, satellite and the cybernetics computer in Budapest.

3) The researchers can dominate the implanted subject's mind and control their body. They can promote high levels of

... more Letters to the Editor

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

consciousness, health and euphoria in the subjects.

This knowledge has to be widely known and has to be discussed by respectable forums. Strict guidelines of control have to be established through the United Nations.

Sincerely yours,

Paul C. Dozsa, Sydney, Australia, paldozsa@yahoo.com, www.geocities.com/paldozsa

Carcinogenic Refrigerants

Dear Duncan: With all your revelations on evil products, I am amazed that you have nothing on the R134 being used since 1994 as the replacement for freon R12 in automotive use.

This is a highly corrosive, toxic, carcinogen and a deadly product. It operates at too high a pressure, creating heat and wear on the equipment it is used in.

There are a large number of "quiet lawsuits" due to deaths and sickness among the public.

When the US military tested the 134 refrigerant at 0.4% to 99.6% air, it clinically killed the test volunteers in under one minute. When it eats its way through your air conditioner or refrigerator, you are under the same deadly risk as the test volunteers.

The Ruling Corporation recommends that motorists always have a window open in their conveyance, winter and summer, for safety's sake. Kind of defeats the purpose of the AC/heater, don't it? Funny that I cannot find this "open window" recommendation in any owner's manual.

What happens to anyone involved in an automobile wreck when the integrity of the AC system is fractured? There is apparently an epidemic of cancers among air conditioner workers and repairmen.

Could the Ruling Corporation have picked a worse coolant?

It is a very quiet subject.

Otto K., Texas, USA

Filtering the Misinformation

Dear NEXUS: You are my guilty pleasure in magazines. I read "new age" all through college and eventually ended up in speculative/conspiracy writing. But I have grown weary.

How do we know that globalisation is not just a next evolutionary step for humans? There is so much darkness surrounding every secret society. Perhaps nationalism has blurred our screens. I have learned to try to filter reality through Ken Wilber's model of development and Buddhism. It tempers my response.

Your magazine is entertaining and informative, but how do you know or test each theory? Like David Icke? He really ruined it for me, 'cause I found myself so in doubt while enjoying his writing. Are we being misinformed?

Thanks for a great magazine. To truth...

Mark Frazer, Chicago, Illinois, USA

[Dear Mark: I look at it all as as though they are information pieces in the jigsaw puzzle called "the meaning of life and who is in charge". Enjoy! Ed.]

Natural Disasters & NWO

Dear Duncan: I have just read the article on the hurricane Andrew cover-up (8/03), and keep wondering about a possible connection between the horrific incident and what is possible with the new weather manipulating technology which was talked about in a previous issue.

In your editorial you suggested a link between the utterly horrific and tragic event, the lack of empathy throughout for those involved and the thousands of people drafted in to vote for Bush recently, to me all stinks of a greater story and hidden evil behind manipulating a political agenda.

A nip and a tuck here, a tweak here and there of several thousand lives at a time and the

world is your oyster...?! So many thousands of lives at a time are seen to be shifted unknowingly in favour of those corporations and those in power; diseases and "natural" disasters are just a couple of tools in "evil" hands.

This all seems like science fiction horror, except it is all too possible and going on right in front of our eyes. They say that evil gets away with it because so few believe it exists and they ridicule such notions.

Thousands are dulled and pacified daily, just through brushing their teeth with fluoride toothpaste and drinking the water. Whole populations are told to have vaccines that they cannot live their lives without. What is this global agenda that we are being prepared for?

Keep up the fantastic work you are doing.

Sincerely,

A longtime reader and fan since the first issues...

Human Cost of Animal Tests

Dear Mr Duncan M. Roads: I have read an article in NEXUS called "The Human Cost Of Animal Experiments" (8/02). I agree with many views and points stated there and think it's shocking how animal experimentation can continue, even although there is so much evidence suggesting that it's not necessary or effective. It became clear to me that something seriously needs to be done to stop this from happening any longer.

After reading the part about how animal-tested drugs can still have a harmful effect on humans, I thought that the information about dangers like that should not be kept from the public. People should know that a drug released by animal testing could seriously harm them, and they should find out about this either by looking at the prescription or hearing it from a doctor.

I looked at the number of ani-

mals killed from 1970-1975 (about 400 million), which was described in your article. It is simply sickening how many animals have died for almost nothing. And what's more is that millions are spent on research from taxpayer's money and from donations. Donors of money to disease charities should be notified how their money might be used to test and eventually kill these animals.

Noticing the situation from the scientist's point of view, they have to stay employed as long as possible and if the level of discoveries drops they might get fired. From my point of view, all this suggests a corrupted number of doctors and scientists wishing to keep their jobs; because of this, they're denying that the animal testing is unreliable and extremely brutal.

I think that laws should be made against animal testing unless it's absolutely necessary and there is nothing else to try. Then each of these experiments should be observed by a journalist who can tell the courts and people what is happening, and then it can be further decided in the courts whether such experiments are appropriate or not. I am very surprised at how some experiments have been allowed to go on when it was obvious that they were just morally and scientifically wrong.

I'm absolutely against any animal testing of any kind. At our level of technology, we could look for other ways that do not include unreasonable suffering of animals. This article really made me understand how animal experimentation is unreliable and is used because it is the fastest way for scientists to receive the greatest amount of money because they can approve new drugs more quickly. Thank you very much for publishing this article; it's very useful.

Sincerely,

Dima Miyusov, Ottawa, Ontario, Canada

PRIVATISING THE MILITARY

In January, the British Ministry of Defence (MoD) announced its plan to utilise corporately employed soldiers, including 80 "sponsored reserves" who will train with the Territorial Army and operate beside regular soldiers in both peacetime and war.

Britain's first private soldiers will be provided by a private consortium headed by Halliburton, a huge US-based transnational corporation whose tentacles into UK services, both civilian and military, have already reached sizeable proportions in areas from nuclear installation to transport infrastructure. The soldiers will owe allegiance only to their employer.

Based in Dallas, Texas, Halliburton commands a 100,000-strong workforce across 120 countries. Its operations and those of its subsidiary, Brown & Root Services, have corporate fingers in a staggering variety of strategically vital global pies from oil pipelines to defence, from road building to embassy security, from servicing armies and nuclear submarines to dismantling Russia's ballistic missiles.

The appointment of Dick Cheney (now US Vice President) as Chairman and CEO of Halliburton in 1995 moved operations up several gears and dramatically increased the corporation's penetration of world markets with gains such as:

- contracts to service the US Army in Bosnia, Kosovo, Macedonia and Hungary



with everything from catering to laundry;

- a contract to increase the security of 150 US embassies.

- contracts for myriad major oil pipelines across the planet;

- a management contract at the atomic physics laboratory at Cern in Switzerland;

- a contract to service Britain's nuclear submarine fleet;

- contracts for RAF aircraft maintenance and to provide air tankers to the RAF;

- contract to design, build, finance and operate a 21-km section of the A1 motorway between Alconbury and Peterborough and a 52-km section of the A417/419 linking the M4 and M5 near Gloucester;

- contract to carry out a multi-modal study responsible for designing a long-

term strategy for orbital transport round London.

In a press release trumpeting its military triumphs in Britain, Halliburton stated that "by outsourcing to private industry...Britain's MoD has been a bellwether for military trends".

As any lexicon will tell you, "bellwether" means "a male sheep that leads the herd". It is transnationals like Halliburton that are now whistling the sheepdog.

(Source: Squall magazine, UK, 25 June 2001, www.squall.co.uk.yes/ind2.html. Also see "The Bush-Cheney Drug Empire" feature article in NEXUS 8/02.)

AFRICAN AIDS DIAGNOSIS QUESTIONED

The AIDS crisis in Africa may be misunderstood, because an AIDS diagnosis is seldom verified with actual tests. The conditions accepted as forming the problem of AIDS in the West bear little or no resemblance to that which is called AIDS in Africa.

Recent findings say that approximately 99.2% of Africans don't have classic AIDS symptoms, including 97% of those presumed to be HIV-positive.

Contrary to the Western practice of confirming an AIDS diagnosis with two or more laboratory tests, in Africa AIDS is diagnosed in most instances without laboratory tests.

Based on the World Health Organization definition for African AIDS cases, many Africans are pronounced as AIDS victims if they show the following signs and symptoms: prolonged fever or a persistent cough for more than one month; 10% weight loss in two months; and chronic diarrhoea. These problems are not necessarily rare in many African countries.

Most African people die from symptoms that arise from known and treatable infectious diseases like malaria, pneumonia or diarrhoea as a result of poor hygiene and malnutrition.

Societal illnesses are thus being listed as AIDS—a disease for which the victim is more likely to be blamed—instead of being faced as products of the socio-economic realities of the region.

(Source: Toward Freedom, August 2000; via Project Censored, Sonoma State University, CA, USA, www.projectcensored.org)



... GLOBAL NEWS ...

GPS, OR "GOTTA PAY FOR SPEEDING"

When James Turner signed Acme Rent-A-Car's rental agreement in New Haven, Connecticut, last October, he didn't notice the warning at the top of the contract: "Vehicles in excess of posted speed limit will be charged \$150 fee per occurrence. All our vehicles are GPS [global positioning system] equipped."

He also did not know that his van was equipped with a sophisticated device called AirIQ, manufactured by a Toronto-based, worldwide wireless application service provider.

In addition to providing maps and location tools, AirIQ also allows rental car agents to "manage driver behavior by auditing location information" and "receive boundary crossing and excessive speed reports". An agent can even shut off a car by remote control if it's going too fast or heading into territory it's not supposed to be in.

AirIQ's speed reports cost Turner US\$450 in "fines", and the matter is likely to be in court for some time.

(Sources: Stamford Advocate, Connecticut, USA, 14 June 2001, www.stamfordadvocate.com; CNN, 1 July 2001)

DOUBTS OVER CARBON DATING ACCURACY

British and American scientists have found that radiocarbon dating, used to give a rough guide to the age of an object, can be wrong by thousands of years.

It means that humans may have been on Earth for a lot longer than previously thought, and that accepted versions of early history could need a radical rethink.

Experts have known for years that carbon dating is inexact but, until researchers from Bristol and Harvard completed their study, no one knew by how much.

The scientists calculated the age of ancient limestone formations in caves using carbon dating. The results were checked using a newer, more accurate method known as uranium dating.

They found that the carbon dates were wrong by thousands of years and that the further back in time they went, the more out of date they were.

The reason is that carbon dating measures radioactive carbon, and there may have been much more of it in the distant past than previously thought.

(Source: BBC News Online, 29 June 2001)

HRT HEALTH RISKS OUTWEIGH THE BENEFITS

Hormone replacement therapy (HRT) has been promoted for everything from protecting against heart attacks to staving off Alzheimer's disease, but evidence is accumulating that women should not count on HRT. For instance, four randomised clinical trials in the last few years found that HRT actually increased women's risk of heart attacks and strokes during the first year or two.

Even the notion that HRT prevents osteoporosis—the main reason why women older than 60 who no longer have menopausal symptoms are prescribed it—has been questioned by the *Journal of the American Medical Association* in its editorial of 14 June. The comments accompany an analysis of 22 HRT trials by two British researchers who found a reduction in bone fracture risk only in women who started treatment before age sixty.

At the same time that HRT's benefits are becoming murkier, the potential risks of long-term therapy—mainly an increased risk of breast and ovarian cancer and blood clots—are becoming more worrisome.

Apparently, though, the latest research about HRT's effects has not trickled down to many doctors who care for postmenopausal women, nor, as a result, to the women themselves. In the North American Menopause Society's most recent survey of women aged 45 to 65, conducted in 1998, 34% of respondents said they were on HRT.

Premarin, the leading brand of oestrogen, remains one of the most widely prescribed drugs in the world, with annual sales totalling nearly US\$2 billion. Last year, Premarin in all its forms was among the top 10 prescription

drugs most heavily marketed to consumers.

(Sources: JAMA, 14 June 2001, <http://jama.asan.org/>; USA Today, 14 June 2001, www.usatoday.com/news/)

TRANSGENICS COMPROMISE ORGANICS STANDARDS

That is the gist of declarations by two organic agriculture organisations to describe the effect of transgenic crop production on organic farming. As is the case with conventional soy, corn and canola, organic crops have tested positive for the presence of foreign genetic material because of cross-pollination and seed stock contamination. The inability to segregate transgenic crops from their organic and conventional counterparts during harvest, handling, transport and milling is also responsible for contamination.

The Organic Federation of Australia declared that contamination from transgenic crops in the United States has spread to such a degree that it cannot verify the purity of imported organic ingredients.

Farm Verified Organic seconded that assertion. A press release from the North Dakota certification agency stated: "...the GM pollution of American commodities is now so pervasive, we believe it is not possible for farmers in North America to



... GLOBAL NEWS ...

source seed free from it."

According to the November 2000 edition of Farministrynews.com: "The widespread adoption of GM crops in the US makes it difficult to ensure that grain is not being contaminated with genetically modified organisms (GMOs) as it is handled and transported from the field to the end customer. Industry insiders even question whether the foundation (parent) seed for non-GM varieties can meet a 1% purity level."

But one should remember that organic standards have to do with production, not purity, said Annie Kirschenmann, of Farm Verified Organic. This means that testing for any kind of residue, be it from pesticide or genetic drift, is not part of determining whether to certify a farm as organic. (Source: *Cropchoice News*, 1 May 2001, www.cropchoice.com/)

MICROCHIPS TO MONITOR PAPER MONEY – AND PEOPLE

Hitachi has developed a microchip that could be woven into paper money to help identify counterfeit notes. However, the chip could also have widespread ramifications for identification and surveillance technologies.

The chip, called Mew, measures just 0.4 millimetres on a side and stores basic information such as identification and security codes. It is capable of 128 bits of read-only memory (ROM) and RF wireless circuitry that allows it to transmit over a distance of about 30 centimetres. When inserted into money, a reader unit is instantly able to identify authentic bills.

While the chip currently requires a read-

er unit for it to work, its small size carries big implications for the future of identity technology. Chips could be implanted into all currency notes and be connected wirelessly to the Internet, so that authorities would be able to monitor the movement of all cash. Such chips could also be embedded in other consumer products to track them in the event of theft.

Hitachi says it is considering adding rewritable memory to the device.

(Source: ZDNet, 3 July 2001, <http://news.zdnet.co.uk/story/0,,s2090580,00.html>)

FACING UP TO SURVEILLANCE

The Tampa, Florida, Police Department has begun using software that allows people's faces, captured on video cameras, to be compared against a database of wanted criminals and sex offenders.

The software, called Face-It, is linked to dozens of cameras throughout the city's nightlife district. It can instantly capture the images of up to four to eight people and compare those images to a computer database, based on 80 points of a person's face in an area encompassing the eyes and nose.

The Tampa Police Department is the first in the United States to adopt the system, and already others are lining up.

Virginia Beach, Virginia, has used closed-circuit TV cameras to watch the oceanfront from the 2nd Police Precinct since 1993, largely for checking traffic and observing crowds. The local police propose to link existing cameras to the software and monitor images of people as they stroll along the oceanfront.

And in Colorado, the Department of Motor Vehicles, in an effort to prevent

identity theft and driver's licence fraud, is buying cameras that will map every driver's facial characteristics like a three-dimensional land chart.

Old driver's licence photos will be scanned into a computer database using the new technology. New mug-shots will be compared with those on file to make sure people are who they say they are when they go to get, or renew, a Colorado driver's licence.

Private industries, such as casinos and check-cashing businesses, have quietly used face-recognition technology for years, but the software garnered nationwide attention when it was used on more than 100,000 faces at turnstiles at the Super Bowl (dubbed "Snooper Bowl") last year without people's knowledge, though no arrests were made.

(Sources: St Petersburg Times, 2 July 2001, www.sptimes.com/; The Virginian-Pilot, 6 June 2001; Denver Post, 7 July 2001)

THE PROMISE OF SOCIAL INSECURITY

A remarkable slip of the tongue was made by US Secretary of State Colin Powell on Fox News on Sunday 17 June.

Mr Powell was discussing President George W. Bush's trip to Europe, and was at a point in his recitation where he was covering certain concerns regarding Russia, and the request for Russia to cooperate with the United States to track down lost nuclear materials and scientists still unaccounted for after the break-up of the USSR and that now may be in the hands of adversaries of the USA—or, in the case of the missing scientists, working for its adversaries.

"Finding the Russian scientists may be a problem, being that Russia does not have a Social Security system—as here in America that allows us to monitor, track down and capture an American citizen."

When he realised the consequences of making this disclosure to the American public, he froze for a second, rolled back his eyes at what he had said, and then he continued without further pause for the rest of the interview.

(Source: via Sightings web-site, <http://www.sightings.com>)



NO PLACE TO HIDE FROM STATE-OF-THE ART SATELLITES

Unknown to most of the world, satellites can perform astonishing and often menacing feats. This should come as no surprise when one reflects on the massive effort poured into satellite technology since the Soviet satellite *Sputnik*, launched in 1957, caused panic in the US.

A spy satellite can monitor a person's every movement, even when the "target" is indoors or deep in the interior of a building or travelling rapidly down a highway in a car, in any kind of weather (cloudy, rainy, stormy).

There is no place to hide on the face of the Earth. It takes just three satellites to blanket the world with detection capacity. Besides tracking a person's every action and relaying the data to a computer screen on Earth, the amazing powers of satellites include being able to read a person's mind, monitor conversations, manipulate electronic instruments and physically assault someone with a laser beam.

(Source: Pravda, 14 July 2001, <http://english.pravda.ru/main/2001/07/11/9825.html>. This is a remarkable article that should read in its entirety. Ed.)

NEW HAGUE RULING WILL RESTRICT INTERNET FREEDOM

In June this year, the Hague Conference on Private International Law met on a new treaty to set the rules for jurisdiction for nearly all commercial and civil litigation.

This proposed new treaty imposes a bold set of rules that will profoundly change the Internet by extending the reach of every country's intellectual property laws. With a blanket of overlapping jurisdictional claims, it exposes every website publisher to liabilities for libel, defamation and other speech offences from virtually any country, and strip Internet service providers of protections from litigation over the content they carry.

If adopted, it will reduce Internet freedom, shrink the public domain and diminish national sovereignty. And practically no one knows anything about the treaty.

The Hague Conference on Private International Law is a little-known organization that held its first meeting in 1893, but did not have permanent status until 1951.

(Source: Consumer Project on Technology, June 2001, www.cptech.org)

"MYCOPLASMA VISNA": THE SCIENTIFIC NAME OF AIDS

by Boyd E. Graves, BS, JD

On August 21, 1999 in Ganonoque, Canada, [I] presented a 1971 aids flowchart to the international medical and scientific community. The flow chart is the "Research Logic Flow" of an ultra-secret federal program entitled "Special Virus". Since then, the flowchart has continued to receive intense scrutiny, with many scientists and medical doctors now going on record to confirm the diabolical nature of the "Special Virus" program.

The "Special Virus" is the designer product of a century-long hunt for a contagious cancer that will selectively kill. The "necessity" for the creation and deployment of AIDS *et al.* is fully outlined in US population control policy decisions including National Security Study Memorandum 200 (NSSM-200) 1974, written and presented by Henry Kissinger at the mega-conference on population control held in Bucharest, Romania.

We continue to meet our detractors with endless citations from their own scientific and medical journals. We continue to see and hear from fewer and fewer of them and note that none has signed our petition. We believe that, through our call for review of the Special Virus program, the American people and the people of the world have their best chance to completely understand the truth regarding the ethnic biological landscape of humanity.

We sincerely believe that the US AIDS databases should contain the databases of the US Special Virus program. We also believe that the serum repositories affiliated with the Special Virus program should be reviewed to pinpoint the introduction of "junk DNA" into the human genome.

We have found the federal virus program that made AIDS. AIDS is in actuality a *Mycoplasma* (a tiny cell with no walls) that has a visna lentivirus (sheep disease) insertion. The documentation of the visna evolution in the etiology of AIDS is located in the *Proceedings of the United States of America at PNAS* 1995 April 11; 92:3283-87.

We have a citation that even Brian Foley's supercomputers in Los Alamos could simply not get around (see Sonigo, P. et al., "Nucleotide Sequence of the Visna Lentivirus: Relationship to the AIDS Virus", *Cell* 1985 Aug; 42(1):369-82). Additionally, in 1995, the Israeli government confirmed that "mycoplasmas regulate the heart of HIV" (see *FEMS Microbiol. Lett.* 1995;128:63-68). Neither of these papers has been renounced and, quite the contrary, greater scientific relevance continues to build in light of the discovery of the 1971 flow chart document.

The 1971 AIDS flowchart document allows for a technological, workman-like review of the 15 progress reports of the federal virus development program. We believe we are entitled to a full review of all research, documents, experiments, symposiums, conferences and faxes and computer records regarding the June 9, 1969 congressional testimony of Dr Donald MacArthur of the Pentagon. Dr MacArthur's testimony is archived as a portion of US House Resolution 15090, Part VI.

We believe Dr MacArthur's testimony provides an additional missing link in the true laboratory birth of AIDS. Specifically, on page 121, Dr MacArthur concedes, "to keep the record straight", that the Department of Defense (contrary to DoD policy) had been "experimenting on synthetic biological agents that would lead to worldwide scourge and Black Death-type plague in 'certain geographical areas' and regions of the world".

It is our position that a review of these specific experiments will further assist our collective understanding of the "Special Operations-X" program, which began by US appropriation in 1957. The comb to vanquish the black race has many teeth.

We conclude that, since visna (prior to HIV) had never before been seen in human disease according to the United States authorities, this peculiar homology alone proves the laboratory birth of the mycoplasma visna—the US hybrid chimera virus, AIDS.

We conclude that a review of the 1971 flowchart and the 15 progress reports of the US Special Virus program will definitively answer every question with regard to the origin of AIDS (mycoplasma combined with visna lentivirus) and its errant purpose.

(Source: Boyd E. Graves, BS, JD, 7 March 2001 [Day 97 of World War AIDS], <http://www.boydgraves.com>. Also see Donald W. Scott's article, "The Linking Pathogen in Neurosystemic Diseases", in this issue.)

THE DANGERS FROM STRAY ELECTRICITY IN THE GROUND

Poorly maintained power distribution systems that cannot cope with 21st century demands are believed to cause ground leakages of electrical current, with detrimental effects on animals and people.

by Chris Hardie

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ELECTRICITY'S DIRTY LITTLE SECRET

ATHENS, Wisconsin, USA — James Gumz fell silent as his eyes dropped to his calloused, clenched hands. Outside in the cold fall night, the day's final chore waited: the evening milking. The chore hadn't been the same since the winter four years ago, when 20 dead cattle were dragged from the barn. The surviving cows limped on crippled legs, with open sores on their body that would not heal.

One day, Gumz ran from the barn screaming because he couldn't take it anymore.

"When it first started, we blamed ourselves," Gumz said, lifting his face to display a grease-smeared cheek. "I went through depression and had to see a psychiatrist. I'd come home and just shake and cry. You just can't stand it."

On the kitchen wall of the modern farmhouse is a wooden plaque with the words, "House protected by guardian angels". But there is no protection from what James and Grace Gumz say is an invisible but powerful force that has devastated their dairy herd.

The Gumzes are not alone. Across Wisconsin and in other states, hundreds of dairy farmers struggle with "stray voltage"—electrical current flowing through the earth. Scientific research suggests that stray voltage has extreme physiological effects on cows and other animals when it reaches certain levels.

In the Coulee region, the stray voltage issue boiled over last week [the week of 30 January 2000], when more than 30 farmers presented a list of 13 demands to the Riverland Energy Cooperative board of directors in Arcadia. Those demands included the resignation of David Oelkers, cooperative general manager, "unless he agrees to represent the interests of the cooperative and its members".

QUESTIONS OVER HEALTH AND POWER QUALITY

But the controversy over stray voltage is not confined to dairy farms. There are increasing concerns in industry, business and the scientific community that the more than 2.5 million miles [4.02 million km] of power lines that bring us heat, jobs, safety and light have a potential dark side. Some are concerned our increasing appetite for power and technology strains the ageing power lines. They worry that in a growing number of locations in the Coulee region, electrical current is showing up in streams, on pipelines, in buildings, in barns and in homes.

While La Crosse area electrical utilities say their systems are both adequate and safe, there is contention about how much electricity normally carried on power-line neutral wires is actually flowing into the earth.

There also is concern about what effect that current has on animals and humans.

Farmers say their cows are crippled and gaunt, with flesh burns and open sores that don't heal. Some cows go blind. Others abort their calves and some simply break down—lying down and never getting up. Those that don't die immediately are sold for slaughter through rendering plants.

"I should be thrown into jail for treating the cows the way they look, but it's not my fault," Gumz said.

Farmers also worry that stray voltage is harming them. "Common sense will tell you that if it happens to a 1,200-pound cow, what's it doing to a human being?" said Richard Asher of Independence.

The effects on both animal and human health are wrapped in a coil of controversy, but power quality is not. Power quality "will get worse before we'll be able to mitigate it,"

said Marek Samotyj, Electric Power Research Institute manager for power quality, in a July 1999 edition of *Fortune* magazine.

Power quality also is a focus of a newly organised state group. The Rural Energy Management Council is an 18-member board that will look at stray voltage and other energy-related issues facing rural Wisconsin.

WHY IS POWER QUALITY GETTING WORSE?

"We have a 19th century distribution system and 21st century technology," said Dave Stetzer, an electrical contractor from Blair, Wisconsin. Stetzer is leading a charge against the utility industry, whom he blames for misleading farmers and the public about the problem of electrical pollution and ignoring potential solutions. "It's a very simple thing. We're using the earth as a conductor rather than for safety."

The Electric Power Research Institute says 70 per cent of all electricity used by 2002 will pass through equipment that produces wavelength distortion—called harmonics—that puts heavy loads on the electrical system, up from 30 per cent in 1999. A higher estimate comes from the electrical industry magazine *Power Quality Assurance*, which says 60 per cent of the electrical load already causes harmonics.

Duane Dahlberg, a retired physicist who is now a consultant for The Electromagnetics Research Foundation in Moorhead, Minnesota, has studied ground currents and stray voltage since 1983.

"The ground currents have increased mainly because of the lack of repair on the lines and because of the fact they have increased the loads on the lines without improving them," Dahlberg said. "Higher loads force a greater current to go through the ground rather than the neutral."

Both Northern States Power Co. and Riverland Energy Cooperative say they have a constant improvement plan to upgrade and repair power lines. Oelkers said Riverland also has a contingency fund to deal with emergency repairs.

Mike Herro, an NSP spokesman, said the utility has not seen evidence of increased ground currents and said harmonics are under control.

"I've seen most of the concern in places where they have a lot of switching power supplies like an industrial plant or a business that has lots of computers," Herro said.

And Oelkers said harmonics are more of a concern in more industrialised areas.

A 1995 survey by the Minnesota Public Utilities Commission of 48 utilities found that 59 per cent of the conventional electrical current flowed into the earth. The study did not measure harmonics, however, and concluded that earth currents were not a significant factor in stray voltage.

But the utilities picture nationwide is not as optimistic when it comes to power quality issues. "Electrical utilities are unanimous," *Power Quality Assurance* said in a recent article. "The epidemic has barely begun."

"STRAY VOLTAGE" ON THE FARM

It is a bright, late fall day as a dozen or so farmers gather in front of a newer concrete block barn on the farm of Duane and Renée Suchla outside of Arcadia. Pigeons coo in the rafters and a thin coat of dust from ground corn covers the dirt.

There is idle talk of mild weather, but the congregation has come together to hear about stray voltage. Giving the sermon is Dave Stetzer, who stands in front of the barn with his hands draped over a decorative concrete block pulpit. Standing nearby is Chuck Forster, an electrical engineer and stray voltage consultant for the state's electrical cooperatives, and other Riverland Energy Cooperative employees.

Many of the farmers, like the Suchlas and their neighbour Steve

Haines, have heard Stetzer's message before. They and many other farmers have hired him to diagnose the cause of electrical problems on their farms. They show no surprise when Stetzer immediately attacks.

"I can plainly see this problem isn't going away," said Stetzer, who claims he and his partner Martin Graham—a retired professor of electrical engineering and computer sciences at the University of California, Berkeley—have invested \$4.5 million into research. "I don't mince words. That's the way I am. I'm going to call them paid utility whores because that's what they are"—referring to scientists conducting stray voltage research that is funded in part by utility companies. "I could have sold you the Brooklyn Bridge and it wouldn't do any good. Nothing I can sell to you can fix your problem. It's a utility problem."

The utilities say it's not always their problem. "Most problems are caused by on-farm sources," Herro said. "There are ways to solve on-farm sources. Every single farm has stray voltage. You can either attack by decreasing the amount of ground current generated from the farm sources or the utility sources. And there are documented ways to do both."

But Haines, who milks a 45-cow registered Brown Swiss herd about three miles from the Suchla farm, says he still has his stray voltage problem despite working with his utility.

"I've been dealing with [stray voltage] for many years and no one wanted to do anything about it until Dave Stetzer came around," he said.

He also said that since taking over the family farm in 1970, he has rewired his farm, put in an electrical grounding system and still he has problems with electrical currents flowing through his barn, despite numerous visits by Riverland (formerly Trempealeau) Cooperative employees.

"Stetzer's going to set the record straight," Haines said. "We'll share some opinions and see what side [the cooperative] is on. Someone's going to be called a liar; that's what I think."

Duane Suchla says he doesn't think he has got the truth since he built the barn and expanded his herd from 100 to 300 cows in December 1993. He saw problems with his cows almost immediately. Milk production fell and the cows refused to drink, had trouble getting up and were aborting calves at the rate of 20 per

"... ground currents have increased mainly because of the lack of repair on the lines and because of the fact they have increased the loads on the lines without improving them ..."

cent. Those are typical symptoms of cows being affected by electrical current, or stray voltage, as detailed in numerous stray voltage studies.

The cooperative was notified almost right away, Suchla said. "And they've been out here many times, but never follow up on it."

Oelkers said the co-op has done and will continue to do everything it can to help Suchla, including making an offer to do a complete on-farm assessment with the help of the Public Service Commission. He said Suchla turned down the offer.

Renée Suchla said she and her husband turned it down because they requested an assessment from a group independent from Riverland.

Oelkers said the cooperative has installed some new wires to serve the farm and responds according to Public Service Commission guidelines on stray voltage.

Suchla claims he has spent US\$40,000 installing new three-phase wiring, a "ring of life" system where his farm is surrounded by ground rods in an attempt to divert earth current, and an isolation transformer. The isolation transformer is designed to keep farms from being affected by current coming from off-farm sources by isolating the farm electrical system from the distribution line.

But Suchla said milk production continues to decline, despite efforts to improve feeding and nutrition. "I've been milking cows 23 years. In 1978, I had an 18,000- to 19,000-pound herd average. Now it's down to 10,000 to 11,000."

Suchla said he has replaced 200 cattle in the past year. Of the 64 he bought last summer, only half are alive. "I hauled over 50 dead cows out, sometimes three or four a day," he said.

With milk prices at record lows and cows dying with no answers, Suchla says: "I just want to fix the problem, whatever it is. We just want the problem solved."

Oelkers said the cooperative is sensitive to Suchla and other farmers who have stray voltage problems. But he said some of the electrical measurements found by Stetzer are not part of what the state recognises in its stray voltage protocol, which he says ties the hands of the utility by limiting the scope of what it can investigate.

"It begs the question," Oelkers said of Suchla's farm problems. "Is it something different than electrical?"

DETECTIVE WORK

Stetzer said he had no intention of becoming involved with stray voltage when a customer contacted him in December 1997. "You can have stray dogs or stray cats, but you can't have stray voltage. It's got to come from somewhere."

Stetzer, who was trained as an electrician in the air force, said he took an oscilloscope to the farm to check it out. An oscilloscope measures voltage variations and displays the waveform of the current.

"I left the scope there over the weekend and went back Sunday morning because I didn't want to spend valuable time chasing ghosts," Stetzer said.

What his scope recorded was a series of voltage spikes flowing through the barn floor. By the signatures of the spikes, Stetzer said he could track them to off-farm sources, including times when a nearby farm was using electrical motors.

"I figured that would be the end of it," Stetzer said. "I'd call the utility and they'd come out and fix it."

Instead, Stetzer said utility officials questioned him. He said they denied that the source could be coming through their distribution line from another farm.

"I said I don't care what you want to tell the farmer, but don't lie to me," Stetzer said. "I'm not going to get involved in this. This was my first and only case."

But Stetzer became involved when he asked the farmer's milkman if he knew any other farmers with stray voltage. He was directed to the farm of David Quarne near Blair.

"I went out there and checked and within 20 minutes I knew what his problem was," Stetzer said. "It was an off-farm utility problem."

Stetzer said he pinpointed the problem to what he calls an inadequate neutral wire on the power line between Blair and Taylor. On a power system, unused power returns to the substation on the neutral line to complete the circuit. Stetzer said the power line, built in 1936, is not big enough to handle today's electrical needs.

"It's like running four inches of water through a two-inch pipe," he said. "You have an overflow."

Herro refutes Stetzer's claim that the NSP line is faulty. "The Blair-Taylor line is more than adequate to meet their needs and even for substantial growth," Herro said. The line may date to 1936 but has been upgraded with new equipment as needed, he said.

Stetzer said he discovered more than current overflow. Based on his oscilloscope readings, he found that the current flowing through Quarne's farm and other nearby farms was not regular alternating current (AC), which flows at 60 times a second or 60 hertz. He says he saw frequency similar to that of microwaves.

All wavelengths fall on the electromagnetic spectrum, where they are measured by their frequency. Power frequency fields fall on the low end of the spectrum. On the upper end of the spectrum are ultraviolet and X-rays, which have shorter wavelengths but higher frequencies.

Stetzer said that when he measured the frequency of the current flowing into the farms, he found readings near the middle of the



spectrum, close to microwaves. Microwaves are thermal and cause heating, hence the microwave oven.

Utilities investigating stray voltage reports do not test for high frequencies, both Oelkers and Herro said. Public Service Commission guidelines established in 1989 said testing should be done only on the 60-hertz cycle.

While in the air force, Stetzer saw frequency burns on humans from exposure to certain radiowaves. He said he saw similar burns on some of the cows on farms with stray voltage problems.

"Every farm that I went to that had these high levels; the cows had these sores where they came in contact with the concrete," Stetzer said. He had a biopsy performed on one of the sores and found extensive tissue damage. "The tissue underneath was dead. It looked grey, just like the roast you would take out of the oven. But right underneath that it was okay. So there was more damage done on the inside than the outside."

Microwaves cook food from the inside out.

A PATTERN OF SYMPTOMS

If these currents are burning cows, what effect do they have on humans? That depends on whom you ask. There have been hundreds of studies on the effects of electromagnetic forces on humans, with mixed results.

But according to a 1989 study by the US Office of Technology Assessment, titled "Biological Effects of Power Frequency Electric and Magnetic Fields", there are risks.

"As recently as a few years ago, scientists were making categorical statements that on the basis of all available evidence there are no health risks from human exposure to power-frequency fields," the report said. "In our view, the emerging evidence no longer allows one to categorically assert that there are no risks. But it does not provide a basis for asserting that there is significant risk."

The government conducted another study, through the National Institute of Environmental Health Sciences, released last year. That six-year study concluded that evidence for a risk of cancer and other human diseases from electric and magnetic fields around power lines is weak.

A thesis review of peer-reviewed papers and reports by Neil Cherry, a New Zealand researcher, shows brain function change, sleep disruption, chronic fatigue, immune system impairment and cancers associated with above-average exposure to radiofrequency and microwave exposure.

Stetzer admits he is no doctor. "I know electricity," he said. But after testing hundreds of farms, he has found a pattern of symptoms among farmers and home owners similar to those disclosed by Cherry and found in other research into radiofrequency and microwave exposure.

Stetzer said those symptoms include fatigue, muscle stiffness, sleeplessness, anxiety, depression, joint pain, skin irritations, heart palpitations and others.

David Jenkins, Wisconsin Federation of Cooperatives manager, said there is no evidence that harmonics and earth currents described by Stetzer and his partner cause cancer or the other ailments detailed by the men.

"We're concerned about those allegations and would like information to substantiate that," Jenkins said. "We have asked Dr Henry Anderson, the state's chief medical officer of environmental health, to please look into this. He's told me the state has no evidence to substantiate it... So we're very conscientiously trying to find comparable or peer-reviewed research."

Stetzer, who wants his medical information reviewed by an epidemiologist, wonders whether the diseases of the 1990s like fibromyalgia and chronic fatigue syndrome could be related to a chemical change from electricity.

One person who agrees with Stetzer is Jim Beal, a former NASA engineer specialising in wavelength technologies. Beal also did research with the Miami Heart Institute and Parkinson Foundation and said he has collected information on electromagnetic and microwave frequencies since 1960.

Beal said there is more research going on to look at the effects of microwave and cellular phones on humans, but since the results are long term it doesn't get much attention.

"This is one of the many consequences of technology," said Beal, who believes that the fatigue and stress affects 80 per cent women and 20 per cent men. "It's interesting how we kind of ignore these things. But there aren't enough human bodies dropping now. The cows and bird migration and the environment may help attract more attention. We need research, in-depth, with the people who are electronically sensitive, mainly women. Doctors aren't paying attention to them."

John Beyerl, who has battled stray voltage on his rural Colby farm for seven years, believes there is a connection between ground currents and his health.

"You go to bed feeling like you're going to get the flu," Beyerl said. "You have the symptoms but you never get it."

Beyerl has a rash that does not heal, which is scabbed over from his constant scratching.

"It's bad today," Beyerl said one day in late October. He said his pelvis and chest hurt and often he has heartburn, a

headache and aching joints. Extreme symptoms usually correspond to peaks in current that a computer records in his barn.

Sixty-two-years-old Leroy Asher of Independence has had many cows die on his farm and has had several electrical engineers there to try to fix the problem. He gave up last year and sold his cows. But he says he lost it all when his wife died after a series of ailments.

An emotional Asher spoke up about his troubles during a Riverland Cooperative board meeting last week [w/c 30 January 2000].

"I lost nine cows in the last three months," he said. "My wife died in our house four years ago. If you look at Stetzer's readings, you'd know what I live with. I wished you people would start doing something about it and quit lying to us."

PUTTING IT ALL ON THE LINE

Stetzer, a fast-food hamburger in one hand and the steering wheel of his pickup truck in the other, points to the grey, weather-

Stetzer said that when he measured the frequency of the current flowing into the farms, he found readings near the middle of the spectrum, close to microwaves.

Continued on page 83

MYCOPLASMA

THE LINKING PATHOGEN IN NEUROSYSTEMIC DISEASES

Several strains of mycoplasma have been "engineered" to become more dangerous.

They are now being blamed for AIDS, cancer, CFS, MS, CJD and other neurosystemic diseases.

**by Donald W. Scott,
MA, MSc © 2001**

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I – PATHOGENIC MYCOPLASMA A Common Disease Agent Weaponised

There are 200 species of *Mycoplasma*. Most are innocuous and do no harm; only four or five are pathogenic. *Mycoplasma fermentans* (incognitus strain) probably comes from the nucleus of the *Brucella* bacterium. This disease agent is not a bacterium and not a virus; it is a mutated form of the *Brucella* bacterium, combined with a visna virus, from which the mycoplasma is extracted.

The pathogenic *Mycoplasma* used to be very innocuous, but biological warfare research conducted between 1942 and the present time has resulted in the creation of more deadly and infectious forms of *Mycoplasma*. Researchers extracted this mycoplasma from the *Brucella* bacterium and actually reduced the disease to a crystalline form. They "weaponised" it and tested it on an unsuspecting public in North America.

Dr Maurice Hilleman, chief virologist for the pharmaceutical company Merck Sharp & Dohme, stated that this disease agent is now carried by everybody in North America and possibly most people throughout the world.

Despite reporting flaws, there has clearly been an increased incidence of *all* the neuro/systemic degenerative diseases since World War II and especially since the 1970s with the arrival of previously unheard-of diseases like chronic fatigue syndrome and AIDS.

According to Dr Shyh-Ching Lo, senior researcher at The Armed Forces Institute of Pathology and one of America's top mycoplasma researchers, this disease agent causes many illnesses including AIDS, cancer, chronic fatigue syndrome, Crohn's colitis, Type I diabetes, multiple sclerosis, Parkinson's disease, Wegener's disease and collagen-vascular diseases such as rheumatoid arthritis and Alzheimer's.

Dr Charles Engel, who is with the US National Institutes of Health, Bethesda, Maryland, stated the following at an NIH meeting on February 7, 2000: "I am now of the view that the probable cause of chronic fatigue syndrome and fibromyalgia is the mycoplasma..."

I have all the official documents to prove that mycoplasma is the disease agent in chronic fatigue syndrome/fibromyalgia as well as in AIDS, multiple sclerosis and many other illnesses. Of these, 80% are US or Canadian official government documents, and 20% are articles from peer-reviewed journals such as the *Journal of the American Medical Association*, *New England Journal of Medicine* and the *Canadian Medical Association Journal*. The journal articles and government documents complement each other.

How the Mycoplasma Works

The mycoplasma acts by entering into the individual cells of the body, depending upon your genetic predisposition.

You may develop neurological diseases if the pathogen destroys certain cells in your brain, or you may develop Crohn's colitis if the pathogen invades and destroys cells in the lower bowel.

Once the mycoplasma gets into the cell, it can lie there doing nothing sometimes for 10, 20 or 30 years, but if a trauma occurs like an accident or a vaccination that doesn't take, the mycoplasma can become triggered.

Because it is only the DNA particle of the bacterium, it doesn't have any organelles to process its own nutrients, so it grows by uptaking pre-formed sterols from its host cell and

it literally kills the cell; the cell ruptures and what is left gets dumped into the bloodstream.

II – CREATION OF THE MYCOPLASMA A Laboratory-Made Disease Agent

Many doctors don't know about this mycoplasma disease agent because it was developed by the US military in biological warfare experimentation and it was not made public. This pathogen was patented by the United States military and Dr Shyh-Ching Lo. I have a copy of the documented patent from the US Patent Office.¹

All the countries at war were experimenting with biological weapons. In 1942, the governments of the United States, Canada and Britain entered into a secret agreement to create two types of biological weapons (one that would kill, and one that was disabling) for use in the war against Germany and Japan, who were also developing biological weapons. While they researched a number of disease pathogens, they primarily focused on the *Brucella* bacterium and began to weaponise it.

From its inception, the biowarfare program was characterised by continuing in-depth review and participation by the most eminent scientists, medical consultants, industrial experts and government officials, and it was classified Top Secret.

The US Public Health Service also closely followed the progress of biological warfare research and development from the very start of the program, and the Centers for Disease Control (CDC) and the National Institutes of Health (NIH) in the United States were working with the military in weaponising these diseases. These are diseases that have existed for thousands of years, but they have been weaponised—which means they've been made more contagious and more effective. And they are spreading.

The Special Virus Cancer Program, created by the CIA and NIH to develop a deadly pathogen for which humanity had no natural immunity (AIDS), was disguised as a war on cancer but was actually part of *MKNAOMI*.² Many members of the Senate and House of Representatives do not know what has been going on. For example, the US Senate Committee on Government Reform had searched the archives in Washington and other places for the document titled "The Special Virus Cancer Program: Progress Report No. 8", and couldn't find it. Somehow they heard I had it, called me and asked me to mail it to them. Imagine: a retired schoolteacher being called by the United States Senate and asked for one of their secret documents! The US Senate, through the Government Reform Committee, is trying to stop this type of government research.

Crystalline *Brucella*

The title page of a genuine US Senate Study, declassified on February 24, 1977, shows that George Merck, of the pharmaceutical company, Merck Sharp & Dohme (which now makes cures for diseases that at one time it created), reported in 1946 to the US Secretary of War that his researchers had managed "for the first time" to "isolate the disease agent in crystalline form".³

They had produced a crystalline bacterial toxin extracted from the *Brucella* bacterium. The bacterial toxin could be removed in crystalline form and stored, transported and deployed without deteriorating. It could be delivered by other vectors such as insects, aerosol or the food chain (in nature it is delivered within the bacterium). But the factor that is working in the *Brucella* is the mycoplasma.

Brucella is a disease agent that doesn't kill people; it disables them. But, according to Dr Donald MacArthur of the Pentagon, appearing before a congressional committee in 1969,⁴ researchers found that if they had mycoplasma at a certain strength—actually, 10 to the 10th power (10^{10})—it would develop into AIDS, and the person would die from it within a reasonable period of time because it could bypass the natural human defences. If the strength was 10^8 , the person would manifest with chronic fatigue syndrome or fibromyalgia. If it was 10^7 , they would present as wasting; they wouldn't die and they wouldn't be disabled, but they would not be very interested in life; they would waste away.

Most of us have never heard of the disease brucellosis because it largely disappeared when they began pasteurising milk, which was the carrier. One salt shaker of the pure disease agent in a crystalline form could sicken the entire population of Canada. It is absolutely deadly, not so much in terms of killing the body but *disabling* it.

Because the crystalline disease agent goes into solution in the blood, ordinary blood and tissue tests will not reveal its presence. The mycoplasma will only crystallise at 8.1 pH, and the blood has a pH of 7.4 pH. So the doctor thinks your complaint is "all in your head".

Crystalline *Brucella* and Multiple Sclerosis

In 1998 in Rochester, New York, I met a former military man, PFC Donald Bentley, who gave me a document and told me: "I was in the US Army, and I was trained in bacteriological warfare. We were handling a bomb filled with brucellosis, only it wasn't brucellosis; it was a *Brucella* toxin in crystalline form. We were spraying it on the Chinese and

North Koreans."

He showed me his certificate listing his training in chemical, biological and radiological warfare. Then he showed me 16 pages of documents given to him by the US military when he was discharged from the service. They linked brucellosis with multiple sclerosis, and stated in one section: "Veterans with multiple sclerosis, a kind of creeping paralysis developing to a degree of 10% or more disability within two years after separation from active service, may be presumed to be service-connected for disability compensation. Compensation is payable to eligible veterans whose disabilities are due to service." In other words: "If you become ill with multiple sclerosis, it is because you were handling this *Brucella*, and we will give you a pension. Don't go raising any fuss about it." In these documents, the government of the United States revealed evidence of the cause of multiple sclerosis, but they didn't make it known to the public—or to your doctor.

In a 1949 report, Drs Kyger and Haden suggested "the possibili-

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agent because it was
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ty that multiple sclerosis might be a central nervous system manifestation of chronic brucellosis". Testing approximately 113 MS patients, they found that almost 95% also tested positive for *Brucella*.⁵ We have a document from a medical journal, which concludes that one out of 500 people who had brucellosis would develop what they call neurobrucellosis; in other words, brucellosis in the brain, where the *Brucella* settles in the lateral ventricles—where the disease multiple sclerosis is basically located.⁶

Contamination of Camp Detrick Lab Workers

A 1948 *New England Journal of Medicine* report titled "Acute Brucellosis Among Laboratory Workers" shows us how actively dangerous this agent is.⁷ The laboratory workers were from Camp Detrick, Frederick, Maryland, where they were developing biological weapons. Even though these workers had been vaccinated, wore rubberised suits and masks and worked through holes in the compartment, many of them came down with this awful disease because it is so absolutely and terrifyingly infectious.

The article was written by Lt Calderone Howell, Marine Corps, Captain Edward Miller, Marine Corps, Lt Emily Kelly, United States Naval Reserve, and Captain Henry Bookman. They were all military personnel engaged in making the disease agent *Brucella* into a more effective biological weapon.

III – COVERT TESTING OF MYCOPLASMA

Testing the Dispersal Methods

Documented evidence proves that the biological weapons they were developing were tested on the public in various communities without their knowledge or consent.

The government knew that crystalline *Brucella* would cause disease in humans. Now they needed to determine how it would spread and the best way to disperse it. They tested dispersal methods for *Brucella suis* and *Brucella melitensis* at Dugway Proving Ground, Utah, in June and September 1952. Probably, 100% of us now are infected with *Brucella suis* and *Brucella melitensis*.⁸

Another government document recommended the genesis of open-air vulnerability tests and covert research and development programs to be conducted by the Army and supported by the Central Intelligence Agency.

At that time, the Government of Canada was asked by the US Government to cooperate in testing weaponised *Brucella*, and Canada cooperated fully with the United States. The US Government wanted to determine whether mosquitoes would carry the disease and also if the air would carry it. A government report stated that "open-air testing of infectious biological agents is considered essential to an ultimate understanding of biological warfare potentialities because of the many unknown factors affecting the degradation of micro-organisms in the atmosphere".⁹

Testing via Mosquito Vector in Punta Gorda, Florida

A report from *The New England Journal of Medicine* reveals that one of the first outbreaks of chronic fatigue syndrome was in Punta Gorda, Florida, back in 1957.¹⁰ It was a strange coincidence that a week before these people came down with chronic fatigue syndrome, there was a huge influx of mosquitoes.

The National Institutes of Health claimed that the mosquitoes

came from a forest fire 30 miles away. The truth is that those mosquitoes were infected in Canada by Dr Guilford B. Reed at Queen's University. They were bred in Belleville, Ontario, and taken down to Punta Gorda and released there.

Within a week, the first five cases ever of chronic fatigue syndrome were reported to the local clinic in Punta Gorda. The cases kept coming until finally 450 people were ill with the disease.

Testing via Mosquito Vector in Ontario

The Government of Canada had established the Dominion Parasite Laboratory in Belleville, Ontario, where it raised 100 million mosquitoes a month. These were shipped to Queen's University and certain other facilities to be infected with this crystalline disease agent. The mosquitoes were then let loose in certain communities in the middle of the night, so that the researchers could determine how many people would become ill with chronic fatigue syndrome or fibromyalgia, which was the first disease to show.

One of the communities they tested it on was the St Lawrence Seaway valley, all the way from Kingston to Cornwall, in 1984. They let out hundreds of millions of infected mosquitoes. Over 700 people in the next four or five weeks developed myalgic encephalomyelitis, or chronic fatigue syndrome.

Documented evidence proves that the biological weapons they were developing were tested on the public in various communities without their knowledge or consent.

IV – COVERT TESTING OF OTHER DISEASE AGENTS Mad Cow Disease/Kuru/CJD in the Fore Tribe

Before and during World War II, at the infamous Camp 731 in Manchuria, the Japanese military contaminated prisoners of war with certain disease agents.

They also established a research camp in New Guinea in 1942. There they experimented upon the Fore Indian tribe and inoculated them with a minced-up version of the brains of diseased sheep containing the visna virus which causes "mad cow disease" or Creutzfeldt-Jakob disease.

About five or six years later, after the Japanese had been driven out, the poor people of the Fore tribe developed what they called *kuru*, which was their word for "wasting", and they began to shake, lose their appetites and die. The autopsies revealed that their brains had literally turned to mush. They had contracted "mad cow disease" from the Japanese experiments.

When World War II ended, Dr Ishii Shiro—the medical doctor who was commissioned as a General in the Japanese Army so he could take command of Japan's biological warfare development, testing and deployment—was captured. He was given the choice of a job with the United States Army or execution as a war criminal. Not surprisingly, Dr Ishii Shiro chose to work with the US military to demonstrate how the Japanese had created mad cow disease in the Fore Indian tribe.

In 1957, when the disease was beginning to blossom in full among the Fore people, Dr Carleton Gajdusek of the US National Institutes of Health headed to New Guinea to determine how the minced-up brains of the visna-infected sheep affected them. He spent a couple of years there, studying the Fore people, and wrote an extensive report. He won the Nobel Prize for "discovering" *kuru* disease in the Fore tribe.

Testing Carcinogens over Winnipeg, Manitoba

In 1953, the US Government asked the Canadian Government if it could test a chemical over the city of Winnipeg. It was a big city with 500,000 people, miles from anywhere. The American military sprayed this carcinogenic chemical in a 1,000%-attenuated form, which they said would be so watered down that nobody would get very sick; however, if people came to clinics with a snuffle, a sore throat or ringing in their ears, the researchers would be able to determine what percentage would have developed cancer if the chemical had been used at full strength.

We located evidence that the Americans had indeed tested this carcinogenic chemical—zinc cadmium sulphide—over Winnipeg in 1953. We wrote to the Government of Canada, explaining that we had solid evidence of the spraying and asking that we be informed as to how high up in the government the request for permission to spray had gone. We did not receive a reply.

Shortly after, the Pentagon held a press conference on May 14, 1997, where they admitted what they had done. Robert Russo, writing for the *Toronto Star*¹¹ from Washington, DC, reported the Pentagon's admission that in 1953 it had obtained permission from the Canadian Government to fly over the city of Winnipeg and spray out this chemical—which sifted down on kids going to school, housewives hanging out their laundry and people going to work. US Army planes and trucks released the chemical 36 times between July and August 1953. The Pentagon got its statistics, which indicated that if the chemical released had been full strength, approximately a third of the population of Winnipeg would have developed cancers over the next five years.

One professor, Dr Hugh Fudenberg, MD, twice nominated for the Nobel Prize, wrote a magazine article stating that the Pentagon came clean on this because two researchers in Sudbury, Ontario—Don Scott and his son, Bill Scott—had been revealing this to the public. However, the legwork was done by other researchers!

The US Army actually conducted a series of simulated germ warfare tests over Winnipeg. The Pentagon lied about the tests to the mayor, saying that they were testing a chemical fog over the city, which would protect Winnipeg in the event of a nuclear attack.

A report commissioned by US Congress, chaired by Dr Rogene Henderson, lists 32 American towns and cities used as test sites as well.

V – BRUCELLA MYCOPLASMA AND DISEASE AIDS

The AIDS pathogen was created out of a *Brucella* bacterium mutated with a visna virus; then the toxin was removed as a DNA particle called a mycoplasma. They used the same mycoplasma to develop disabling diseases like MS, Crohn's colitis, Lyme disease, etc.

In the previously mentioned US congressional document of a meeting held on June 9, 1969,¹² the Pentagon delivered a report to Congress about biological weapons. The Pentagon stated: "We are continuing to develop disabling weapons." Dr MacArthur, who was in charge of the research, said: "We are developing a new lethal weapon, a synthetic biological agent that does not nat-

urally exist, and for which no natural immunity could have been acquired."

Think about it. If you have a deficiency of acquired immunity, you have an acquired immunity deficiency. Plain as that. AIDS.

In laboratories throughout the United States and in a certain number in Canada including at the University of Alberta, the US Government provided the leadership for the development of AIDS for the purpose of population control. After the scientists had perfected it, the government sent medical teams from the Centers for Disease Control—under the direction of Dr Donald A. Henderson, their investigator into the 1957 chronic fatigue epidemic in Punta Gorda—during 1969 to 1971 to Africa and some countries such as India, Nepal and Pakistan where they thought the population was becoming too large.¹³ They gave them all a free vaccination against smallpox; but five years after receiving this vaccination, 60% of those inoculated were suffering from AIDS. They tried to blame it on a monkey, which is nonsense.

A professor at the University of Arkansas made the claim that while studying the tissues of a dead chimpanzee she found traces of HIV. The chimpanzee that she had tested was born in the United States 23 years earlier. It had lived its entire life in a US military laboratory where it was used as an experimental animal in the development of these diseases. When it died, its body was shipped to a storage place where it was deep-frozen and stored in case they wanted to analyse it later. Then they decided that they didn't have enough space for it, so they said, "Anybody want this dead chimpanzee?" and this researcher from Arkansas said: "Yes. Send it down to the University of Arkansas. We are happy to get anything that we can get." They shipped it down and she found HIV in it. That virus was acquired by that chimpanzee in the laboratories where it was tested.¹⁴

Chronic Fatigue Syndrome/ Myalgic Encephalomyelitis

Chronic fatigue syndrome is more accurately called myalgic encephalomyelitis. The chronic fatigue syndrome nomenclature was given by the US National Institutes of Health because it wanted to downgrade and belittle the disease.

An MRI scan of the brain of a teenage girl with chronic fatigue syndrome displayed a great many scars or punctate lesions in the left frontal lobe area where portions of the brain had literally dissolved and been replaced by scar tissue. This caused cognitive impairment, memory impairment, etc. And what was the cause of the scarring? The mycoplasma. So there is very concrete physical evidence of these tragic diseases, even though doctors continue to say they don't know where it comes from or what they can do about it.

Many people with chronic fatigue syndrome, myalgic encephalomyelitis and fibromyalgia who apply to the Canada Pensions Plan Review Tribunal will be turned down because they cannot prove that they are ill. During 1999 I conducted several appeals to Canada Pensions and the Workers Compensation Board (WCB, now the Workplace Safety and Insurance Board) on behalf of people who have been turned down. I provided documented evidence of these illnesses, and these people were all granted their pensions on the basis of the evidence that I provided.

In March 1999, for example, I appealed to the WCB on behalf

The AIDS pathogen was created out of a *Brucella* bacterium mutated with a visna virus; then the toxin was removed as a DNA particle called a mycoplasma.

of a lady with fibromyalgia who had been denied her pension back in 1993. The vice-chairman of the board came to Sudbury to hear the appeal, and I showed him a number of documents which proved that this lady was physically ill with fibromyalgia. It was a disease that caused physical damage, and the disease agent was a mycoplasma. The guy listened for three hours, and then he said to me: "Mr Scott, how is it I have never heard of any of this before? I said: "We brought a top authority in this area into Sudbury to speak on this subject and not a single solitary doctor came to that presentation."

VI – TESTING FOR MYCOPLASMA IN YOUR BODY

Polymerase Chain Reaction Test

Information is not generally available about this agent because, first of all, the mycoplasma is such a minutely small disease agent. A hundred years ago, certain medical theoreticians conceived that there must be a form of disease agent smaller than bacteria and viruses. This pathogenic organism, the mycoplasma, is so minute that normal blood and tissue tests will not reveal its presence as the source of the disease.

Your doctor may diagnose you with Alzheimer's disease, and he will say: "Golly, we don't know where Alzheimer's comes from. All we know is that your brain begins to deteriorate, cells rupture, the myelin sheath around the nerves dissolves, and so on." Or if you have chronic fatigue syndrome, the doctor will not be able to find any cause for your illness with ordinary blood and tissue tests.

This mycoplasma couldn't be detected until about 30 years ago when the polymerase chain reaction (PCR) test was developed, in which a sample of your blood is examined and damaged particles are removed and subjected to a polymerase chain reaction. This causes the DNA in the particles to break down. The particles are then placed in a nutrient, which causes the DNA to grow back into its original form. If enough of the substance is produced, the form can be recognised, so it can be determined whether *Brucella* or another kind of agent is behind that particular mycoplasma.

Blood Test

If you or anybody in your family has myalgic encephalomyelitis, fibromyalgia, multiple sclerosis or Alzheimer's, you can send a blood sample to Dr Les Simpson in New Zealand for testing.

If you are ill with these diseases, your red blood cells will not be normal doughnut-shaped blood cells capable of being compressed and squeezed through the capillaries, but will swell up like cherry-filled doughnuts which cannot be compressed. The blood cells become enlarged and distended because the only way the mycoplasma can exist is by uptaking pre-formed sterols from the host cell. One of the best sources of pre-formed sterols is cholesterol, and cholesterol is what gives your blood cells flexibility. If the cholesterol is taken out by the mycoplasma, the red blood cell swells up and doesn't go through, and the person begins to

feel all the aches and pains and all the damage it causes to the brain, the heart, the stomach, the feet and the whole body because blood and oxygen are cut off.

And that is why people with fibromyalgia and chronic fatigue syndrome have such a terrible time. When the blood is cut off from the brain, punctate lesions appear because those parts of the brain die. The mycoplasma will get into portions of the heart muscle, especially the left ventricle, and those cells will die. Certain people have cells in the lateral ventricles of the brain that have a genetic predisposition to admit the mycoplasma, and this causes the lateral ventricles to deteriorate and die. This leads to multiple sclerosis, which will progress until these people are totally disabled; frequently, they die prematurely. The mycoplasma will get into the lower bowel, parts of which will die, thus causing colitis. All of these diseases are caused by the degenerating properties of the mycoplasma.

In early 2000, a gentleman in Sudbury phoned me and told me he had fibromyalgia. He applied for a pension and was turned down because his doctor said it was all in his head and there was no external evidence. I gave him the proper form and a vial, and he sent his blood to Dr Simpson to be tested. He did this with his family doctor's approval, and the results from Dr Simpson showed that only 4% of his red blood cells were functioning normally and carrying the appropriate amount of oxygen to his poor body, whereas 83% were distended, enlarged and hardened, and wouldn't go through the capillaries without an awful lot of pressure and trouble. This is the physical evidence of the damage that is done.

ECG Test

You can also ask your doctor to give you a 24-hour Holter ECG. You know, of course, that an electrocardiogram is a measure of your heartbeat and shows what is going on in the right ventricle, the left ventricle and so on. Tests show that 100% of patients with chronic fatigue syndrome and fibromyalgia have an irregular heartbeat. At various periods during the 24 hours, the heart,

instead of working happily away going "bump-BUMP, bump-BUMP", every now and again goes "buhbuhbuhbuhbuhbuhbuhbuh". The T-wave (the waves are called P, Q, R, S and T) is normally a peak, and then the wave levels off and starts with the P-wave again. In chronic fatigue and fibromyalgia patients, the T-wave flattens off, or actually inverts. That means the blood in the left ventricle is not being squeezed up through the aorta and around through the body.

My client from Sudbury had this test done and, lo and behold, the results stated: "The shape of T and S-T suggests left ventricle strain pattern, although voltage and so on is normal." The doctor had no clue as to why the T-wave was not working properly. I analysed the report of this patient who had been turned down by Canada Pensions and sent it back to them. They wrote back, saying: "It looks like we may have made a mistake. We are going to give you a hearing and you can explain this to us in more detail."

So it is not all in your imagination. There is actual physical damage to the heart. The left ventricle muscles do show scarring.

This pathogenic organism, the mycoplasma, is so minute that normal blood and tissue tests will not reveal its presence as the source of the disease.

That is why many people are diagnosed with a heart condition when they first develop fibromyalgia, but it's only one of several problems because the mycoplasma can do all kinds of damage.

Blood Volume Test

You can also ask your doctor for a blood volume test. Every human being requires a certain amount of blood per pound of body weight, and it has been observed that people with fibromyalgia, chronic fatigue syndrome, multiple sclerosis and other illnesses do not have the normal blood volume their body needs to function properly. Doctors aren't normally aware of this.

This test measures the amount of blood in the human body by taking out 5 cc, putting a tracer in it and then putting it back into the body. One hour later, take out 5 cc again and look for the tracer. The thicker the blood and the lower the blood volume, the more tracer you will find.

The analysis of one of my clients stated: "This patient was referred for red cell mass study. The red cell volume is 16.9 ml per kg of body weight. The normal range is 25 to 35 ml per kg. This guy has 36% less blood in his body than the body needs to function." And the doctor hadn't even known the test existed.

If you lost 36% of your blood in an accident, do you think your doctor would tell you that you are alright and should just take up

line dancing and get over it? They would rush you to the nearest hospital and start transfusing you with blood. These tragic people with these awful diseases are functioning with anywhere from 7% to 50% less blood than their body needs to function.

And if the mycoplasma growth can be stopped for long enough, then the immune system takes over.

stops the growth of the mycoplasma. And if the mycoplasma growth can be stopped for long enough, then the immune system takes over.

Doxycycline treatment is discussed in a paper by mycoplasma expert Professor Garth Nicholson, PhD, of the Institute for Molecular Medicine.¹⁵ Dr Nicholson is involved in a US\$8-million mycoplasma research program funded by the US military and headed by Dr Charles Engel of the NIH. The program is studying Gulf War veterans, 450 of them, because there is evidence to suggest that Gulf War syndrome is another illness (or set of illnesses) caused by mycoplasma.

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VII – UNDOING THE DAMAGE

The body undoes the damage itself. The scarring in the brain of people with chronic fatigue and fibromyalgia will be repaired. There is cellular repair going on all the time. But the mycoplasma has moved on to the next cell.

In the early stages of a disease, doxycycline may reverse that disease process. It is one of the tetracycline antibiotics, but it is not bactericidal; it is bacteriostatic—it

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Additional Contacts

- Ms Jennie Burke, Australian Biologics, Level 6, 383 Pitt Street, Sydney NSW 2000, Australia tel +61 (0)2 9283 0807, fax +61 (0)2 9283

0910. Australian Biologics does tests for mycoplasma.

- Consumer Health Organization of Canada, 1220 Sheppard Avenue East #412, Toronto, Ontario, Canada M2K 2S5, tel +1 (416) 490 0986, website www.consumerhealth.org/.
- Professor Garth Nicholson, PhD, Institute for Molecular Medicine, 15162 Triton Lane, Huntington Beach, CA, 92649-1401, USA, tel +1 (714) 903 2900.
- Dr Les Simpson, Red Blood Cell Research Ltd, 31 Bath Street, Dunedin, 9001, New Zealand, tel +64 (0)3 471 8540, email rbc.research.limited@xtra.co.nz. (Note: Dr Simpson directs his study to red cell shape analysis, not the mycoplasma hypothesis.)
- The Mycoplasma Registry for Gulf War Illness, S. & L. Dudley, 303 47th St, J-10 San Diego, CA 92102-5961, tel/fax +1 (619) 266 1116, fax (619) 266 1116, email mycoreg@juno.com.

About the Author:

Donald Scott, MA, MSc, is a retired high school teacher and university professor. He is also a veteran of WWII and was awarded the North Atlantic Star, the Burma Star with Clasp, the 1939–1945 Volunteer Service Medal and the Victory Medal. He is currently President of The Common Cause Medical Research Foundation, a not-for-profit organisation devoted to research into neurosystemic degenerative diseases. He is also Adjunct Professor with the Institute for Molecular Medicine and he produces and edits the *Journal of Degenerative Diseases*. He has extensively researched neurosystemic degenerative diseases over the past five years and has authored many documents on the relationship between degenerative diseases and a pathogenic mycoplasma called *Mycoplasma fermentans*. His research is based upon solid government evidence.

THE EVIDENCE FOR SECRET UNDERWATER BASES

There is compelling circumstantial evidence that the US military has been constructing secret underwater and underground tunnels and bases for many decades.

by Richard Sauder, PhD © 2001

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Stories of underground tunnelling by the United States Navy are very persistent. When I first started my research, people began telling me that the US Navy was involved in clandestine tunnelling and secret underground base construction. Over the years, I have encountered bits and pieces of information suggesting that there may well be undersea naval facilities.

A former associate of mine, who had been in the Navy, told me that there are tunnels on both coasts of the United States that submarines enter when they are at sea, and then travel through to secret, underground submarine bases that are inland from the coast. I have been told, time and again, about purported submarine tunnels in the Long Beach, California, area that allegedly bore inland from the ocean.

Soviet-style Submarine Tunnels

In fact, there is precedent in the open literature for such tunnels—albeit in Russia. In their excellent book, *Blind Man's Bluff: The Untold Story of American Submarine Espionage*, Sherry Sontag and Christopher Drew relate that in the 1980s:¹

The Soviets also were building four large underwater 'tunnels' at a new submarine base at Gremikha near the tip of the Kola Peninsula, about 150 miles from Murmansk. Blasted out of the adjacent hillside, the granite tunnels were large enough to accommodate the *Typhoons*...

Have similar underwater tunnels been built by the United States Navy to secretly accommodate its submarines, perhaps in the Long Beach, California, area and elsewhere? I consider it possible.

Tunnelling into the Continental Shelf

I have been given hints that there may be lengthy, secret tunnel systems beneath the continental shelf, off both coasts of the United States. I have spoken to a few insiders in recent years, and I plainly asked one of them: "What about the stories of highly secret naval installations beneath the ocean floor, to which submarines secretly come and go? And what about the stories of secret, undersea bases and hundreds of miles of secret tunnels deep beneath the sea floor along the Atlantic and Pacific coasts of the United States?"

The answer was intriguing: "I would carefully consider those stories."

And so I am paying attention to the stories. I will tell you candidly that I do not know whether the stories are true or not. They are interesting. If they are true, then there are sophisticated, clandestine undersea bases and tunnels that the United States government operates—and has kept secret from the American people.

Bases beneath the Oceans and Seas

It is important to understand that the technology exists for constructing manned, undersea bases hundreds, even thousands, of feet below the sea floor. The experience, the expertise, the machinery, the trained personnel and the financial means for constructing manned bases beneath the ocean floor have been in place for at least 35 years. Bear in mind that the petroleum industry routinely and frequently carries out major industrial operations in deep water, well out to sea. It also routinely bores down into the deep rock beneath the ocean floor.

A recent news item on CNN's website profiled one of the deep-sea divers involved in

recovering bodies of drowned sailors from the sunken Russian submarine, the *Kursk*. The diver works for the giant multinational industrial conglomerate, Halliburton Co. According to the article, the diver worked on unspecified undersea projects with a range of construction activities including "welding, concrete work—whatever jobs can be done undersea".²

Let me relate a personal anecdote. In 1976, while hitchhiking through Scotland, I caught a ride with an ex-diver for the British Navy. He was working at that time in the oil fields in the North Sea, and described his work routine to me as follows. He would put on a diving suit and travel down to the sea floor where he would carry out major construction work, which involved strenuous work on pipelines and valves and the assembly of structural components.

The simple point I am making is that the offshore petroleum industry has had the capability for decades to carry out heavy industrial activities on the sea floor. This capability could easily be extended to constructing airlocks and openings for undersea bases.

Where tunnelling is concerned, operating a tunnel boring machine (TBM) in solid rock, hundreds of feet below the ocean floor, really presents no greater a technical challenge than operating a TBM in solid rock hundreds of feet below the surface of solid ground. In both cases the machine and its operators are in an enclosed environment.

Indeed, one source mentioned to me that "in principle" there is nothing to stop a TBM from tunnelling out beneath the sea bed

from onshore. Once offshore, beneath the sea, there is nothing to stop the TBM from tunnelling along the coastline, miles out to sea, beneath the sea floor. And no one would be the wiser.

The state-of-the-art progress for a TBM in good rock is several miles per year.³ With just one machine and one crew, a 100-mile tunnel system could certainly be secretly constructed in 10 to 20 years. If just five machines were employed, 500 miles (or more) of secret tunnels could be excavated in the same period of time. This is well within the state of the art of tunnel boring technology.

Indeed, at a recent meeting between the heads of state of Japan and South Korea, the then Japanese Prime Minister Yoshiro Mori proposed constructing a 108-mile-long undersea rail tunnel between Japan and South Korea. The purpose of the tunnel would be to facilitate trade and to provide a rail link between Japan and the Eurasian land mass. In the words of Prime Minister Mori: "The construction is technically possible, but the problem is money."⁴

The money to carry out a secret project of this sort certainly exists in the Pentagon's "black budget". The requisite infrastructure of secrecy to carry out such a project has been in place in the military-industrial complex for decades now. And there is even a paper trail that shows US Navy interest in building manned bases deep beneath the ocean floor.

The US Navy Paper Trail

One paper trail begins in 1966, with a letter on 18 April from Robert W. Van Dolah, of the US Bureau of Mines, to Dr William B. McLean, Technical Director for Research and Development at the US Naval Ordnance Test Station at China Lake, California.⁵ In the letter, Mr Van Dolah alludes to Dr McLean's interest in "deep underwater exploration". Mr Van Dolah specifically refers to tunnelling at great depth under the ocean bottom. His letter says:

In talking with some of our mining experts here, I find a consensus that sinking a shaft to 10,000 feet and driving a drift horizontally from this presents no severe problems (other than money perhaps) if the rock is competent and not faulted. One of the most difficult problems in deep mines is a sealing off of aquifers. It would seem that even if the rock were competent throughout the tunnel and drift, there might be rather difficult problems in breaking through to the bottom of the ocean and maintaining a seal against the high water pressure.

Mine Tunnels beneath the Sea

All over the world there are mines that extend offshore beneath the sea; in many cases, the mines were first excavated many decades ago, even one hundred years ago or more—as with the British coalmines that extend out under the North Sea and the Firth of Clyde.

Among the places where submarine coalmines have been worked, in addition to Britain, are Canada, New Zealand, Australia, Chile, Japan and Taiwan.⁷ By way of further example of undersea hard-rock mining, there is the Jussaro Island undersea iron mine off the coast of Finland, beneath the Gulf of Finland. The Jussaro Island mine tunnels extend hundreds of feet beneath the sea to bodies of iron ore that lie just offshore. The tunnels are accessed from shafts that have been sunk from islands in the vicinity (see illustration 1).⁸

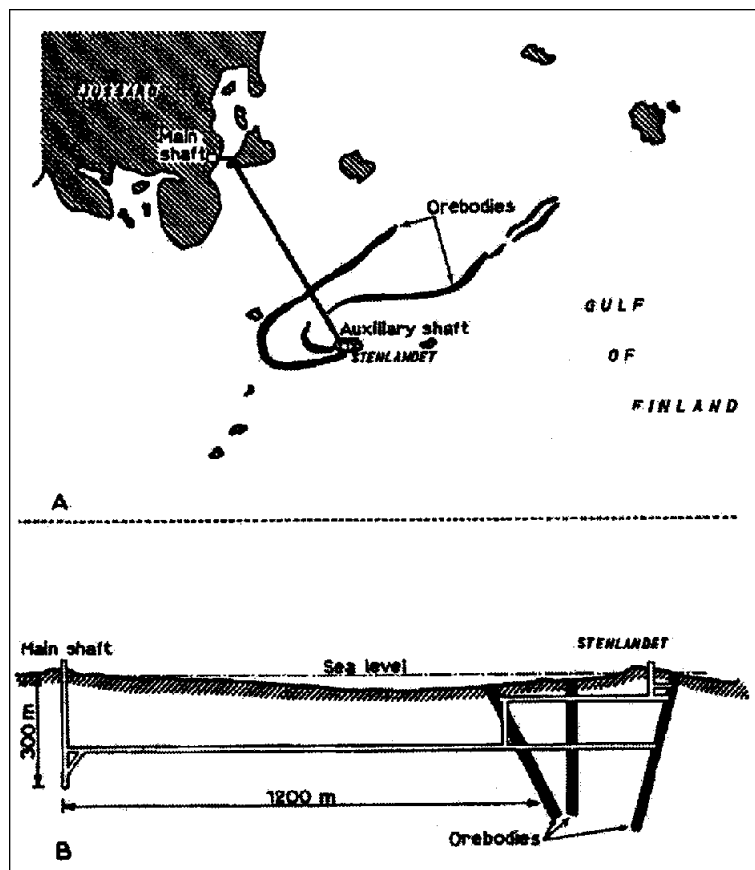


Illustration 1. Jussaro iron mine lies undersea off the coast of Finland. Notice there are two access shafts: one onshore, and the other offshore on a small island. The actual mine workings are undersea. The Jussaro mine is a good example of a deep mining operation beneath the sea floor. (Source: John L. Mero, *The Mineral Resources of the Sea*, Elsevier, New York, 1965)

As alluded to above, in Britain coal has long been mined from under the North Sea and the Firth of Clyde, at depths ranging to as much as 1,800 feet below the sea floor.⁹ In Cornwall, tin mines ran out under the Atlantic Ocean in the early years of the 20th century.¹⁰ In Canada, there have been many undersea mines. Sixty-five years ago, coal was being mined three miles out to sea, off the coast of Nova Scotia, as far as 1,600 feet beneath the sea floor.¹¹ The Wabana iron mine¹² at Bell Island, Newfoundland, was mentioned above, but there has also been submarine mining in other places in Canada, including coalmining off Cape Breton Island, Nova Scotia¹³ and elsewhere offshore from Nova Scotia,¹⁴ as well as underwater off Vancouver Island, British Columbia.¹⁵

There have been other submarine coal mines off the coast of New South Wales, Australia,¹⁶ and undersea in Japanese coastal waters, e.g., off the coast of Kyushu and elsewhere.¹⁷ Coal has been mined off South America's Pacific coast, in Chile.¹⁸ More submarine coal workings that extend out under the Bay of Biscay have been located at Arnao, Spain.¹⁹ There were even submarine mine workings in the United States 80 years ago. The rich Treadwell Gold mines on Alaska's Douglas Island burrowed more than 2,000 feet deep under the Gastineau Channel in the early 20th century.²⁰

Tunnelling out under oceans, seas, bays and estuaries has been done for a very, very long time, all over the world, stretching way back at least into the 19th century, if not before. Undersea tunnels can stretch for miles and reach depths of 2,000 feet or more beneath the ocean floor. Of course, today's technology is far more powerful and sophisticated than it was 50, 100 or 150 years ago. One can only speculate as to how long, how deep and how elaborate contemporary, clandestine, submarine tunnels might be.

There are plenty of examples of submarine tunnelling in the civil engineering literature. Perhaps the most famous example is the Chunnel, the well-known high-speed rail link that burrows deep under the English Channel between France and England. It is so famous that it scarcely needs mentioning.

US Navy Underwater Construction Teams

Of course, if the US Navy has secretly constructed manned facilities and rail tunnels deep beneath the sea floor, it would need a cadre of trained personnel capable of heavy construction at great depth underwater. Is there evidence of a trained, underwater construction unit within the Navy? In fact, there is.

The Navy operates special Underwater Construction Teams (UCTs) out of Port Hueneme, California, and Little Creek, Virginia. The UCTs are special Seabee units that carry out underwater construction projects around the globe. These UCTs are deployed literally anywhere in the world "aboard ships and other seagoing platforms". Among the areas where UCTs have been deployed are Africa, the Arctic ice cap, Diego Garcia, Iceland, Bermuda, Australia and the Persian Gulf area. Each of the UCTs consists of three officers and 52 enlisted personnel. After a few years of experience in the UCTs, qualified divers are eligible to complete the Advanced Underwater Construction course at Port

Hueneme, California. One of the requirements to be a UCT member is to be "eligible for a secret security clearance".²¹

In other words, there is a unit of specially trained personnel within the US Navy that carries out underwater construction projects all over the world and whose members have "secret" security clearances. This is exactly the type of unit that would be necessary for constructing secret, manned, undersea installations and/or tunnels many miles offshore—perhaps even in the middle of the ocean or beneath other bodies of water, large and small.

As an aside, during the Cold War between the United States and the Soviet Union, clandestine diving units operating from on board top-secret American submarines repeatedly conducted covert, communications cable tapping missions on the sea floor itself, in Russian coastal waters. The divers would never surface.

The entire operations were carried out underwater, using submerged submarines as a base. The men would go out from the submarines and carry out their work on the sea floor, and then re-enter the submarines.²²

If there are top-secret bases beneath the sea floor, the UCTs of the US Naval Facilities Engineering Command may possibly have helped build them, perhaps even on clandestine, submarine-based missions similar in secrecy and daring to the top-secret undersea communications cable tapping operations in recent decades.

Tunnelling out under oceans, seas, bays and estuaries has been done for a very, very long time, all over the world, stretching way back at least into the 19th century, if not before.

Naval Facilities Engineering Service Center

If there are secret, undersea manned installations, then it is a safe bet that the US Navy's Naval Facilities Engineering Service Center (NFESC) constructs and maintains them, or knows who does. The NFESC's website says that it is "the Navy's center for specialized facilities engineering and technology".²³ The NFESC's website further advises that it constructs "Specialized Ocean Facilities". It states:

We can help you with the design, construction, maintenance and repair of fixed ocean or underwater facilities from the shoreline to depths of 6,000 meters (20,000 feet). We can provide engineering services to meet your needs... We have an extensive inventory of specialized tools, equipment, vessels, and test facilities...

Notice that this agency is talking about the design, construction, maintenance and repair of underwater facilities as deep as 20,000 feet. Interestingly, the NFESC's Ocean Facilities Department includes both an Ocean Construction Division and a Seafloor Engineering Division.²⁵ This is exactly the sort of bureaucratic structure that one would expect to find if the US Navy has built secret, manned facilities beneath the seabed.

US Army Corps of Engineers

If secret, manned facilities under the seabed do exist, I would certainly expect to find evidence here and there that points to the possibility of such facilities—evidence of just the sort that I am presenting here.

During my research at the US Army Corps of Engineers

archives I discovered a Program Activity and Funding report, issued by the Corps of Engineers Construction Engineering Research Laboratory (CERL) as ENG FORM 0-4098 on 16 August 1967. It contains several entries that are germane to the instant discussion. Line Item 1, Task Number -01 states:²⁶

Engineer Studies and Investigations

The objective of this task is to identify, analyze, and initiate research in areas of specialized military construction which are beyond the current state-of-the-art. This task will provide means for applying the current state-of-the-art and anticipated developments in the future. It will enable coordination of the construction research efforts of CERL and other DOD laboratories, government agencies, industry and educational institutions.

The report has several other interesting entries. Task Number -02-005 says:²⁷

Sealing Deep Underground Structures

Explore economical epoxy coatings, concrete additives and other techniques for sealing walls from deep underground hydraulic pressure.

Of course, if the construction were taking place beneath the sea floor, the Army would want to seal the base against the unwelcome intrusion of the deep sea. The document contains more information that reveals the US Army's secret role underground.



Illustration 2. Artist's depiction of Rock-Site Concept. Here you can see an undersea installation inside a sea mount, with locks for small submarines to come and go. A drilling derrick is on top of the mount, at upper right. The long tubular array on top of the mount could serve as a long-wave radio transmitter (ELF) or as a mechanism for water desalination and/or oxygen generation. (Source: US Navy)

Task Number -05 says:²⁸

Power Plant Construction

The objective of this task is to develop new essential knowledge in the design, operation and maintenance of fixed and floating power plants which is peculiar to military requirements. Essential knowledge is required in hardened above- and below-surface plants, in precise, uninterrupted power, and in system reliability and maintainability...

The report then discusses Task Number -05-001:²⁹

Hardened Underground Power Plants

Develop design criteria for hardened underground facilities to permit rapid concept selection and design of underground defense power systems.

And Task Number -05-004:³⁰

Advanced Heat-Sink Technology

Develop design criteria for heat dissipation and storage in various underground geological formations as applicable to hardened underground facilities.

This information dovetails very nicely with other US Army information (presented earlier in my book) concerning the dissipation of excess heat that underground installations generate. This is a problem whether the subterranean facility is under a New

Mexico desert, burrowed way down in the hard rock below the Antarctic ice sheet, deep beneath a sea mount in the mid-Atlantic Ridge or in the middle of the North American continent beneath the Midwestern cornfields. No matter where a deep underground base is located, it needs to get rid of excess heat.

Finally, the document gets around to talking about underwater construction. Task Number -07 says:³¹

Underwater Construction (CERC Work – CERL Management)

The objective of this task is to explore and develop ocean engineering technology to meet Army Military Construction objectives. This task, involving original exploratory developments, studies and inves-

tigations and utilization of knowledge and capabilities developed by other agencies involved in oceanography, is to provide methodology essential to planning for and construction of unique military facilities in marine environments.

This is an interesting choice of words: "construction of unique military facilities in marine environments". Lloyd A. Duscha, former Deputy Director of Engineering and Construction for the US Army Corps of Engineers in Washington, DC, said in a public speech:³²

There are other projects of similar scope [to the NORAD base], which I cannot identify, but which included multiple chambers up to 50 feet wide and 100 feet high using the same excavation procedures [as] for the NORAD facility.

Mr Duscha then referred to the "critical and unusual nature of these projects". Might these large, secret, "critical and unusual" projects be the "unique military facilities in marine environments" that the US Army Corps of Engineers 1967 report refers to? Might both be referring to huge, deeply buried, undersea bases? I think that is very possible. The 1967 report continues with Task Number -07-001:³³

Structural Systems for Underwater Construction

Develop concepts for constructing underwater storage and transportation facilities for ammunition and other hazardous materials.

Remember, this is the US Army talking about underwater construction, not the US Navy. We may have to rethink preconceived notions about which agencies do what. In the black-budget world of the Secret Team and the Invisible Government, the tidy agency boundaries that we are accustomed to thinking about may not be very relevant at all.

Finally, there is Task Number -07-002:³⁴

Coastal Exploration

Develop techniques for rapid evaluation of coastal and inland bottom conditions for construction purposes.

Here the Army alludes to evaluation of the continental shelf (the ocean bottom just off the coastline) and inland bottom areas for underwater construction. Presumably those inland bottom areas would include (but not be limited to) areas such as Puget Sound in Washington state, Chesapeake Bay in the mid-Atlantic region, and the Great Lakes in the upper Midwest. It is my educated guess that any or all of these areas could be locations for clandestine, underwater facilities, deep beneath their bottoms. Is there any other evidence indicating the possible existence of secret, undersea bases, deep below the sea floor? In point of fact, there is.

The US Navy's Rock-Site Concept

A US Navy document from 1966 forthrightly discusses the construction of major military installations below the sea floor, in the middle of the ocean (illustration 2). Quoting from the title page:³⁵

ABSTRACT. Large undersea installations with a shirt-sleeve environment have existed under the continental shelves for many decades. The technology now exists, using off-the-shelf petroleum, mining, submarine, and nuclear equipment, to establish permanent manned installations within the sea floor that do not have any air umbilical or other connection with the land or water surface, yet maintain a normal one-atmosphere environment within...

The text of the report elaborates what is meant by the Rock-Site Concept.³⁶

...a Rock-Site installation consists of a room or series of rooms, excavated within the bedrock beneath the sea floor, using the *in situ* bedrock as the construction material.

Note what is being said here. The installation is carved out of the native bedrock beneath the floor of the ocean itself. And the installation is composed of one or more "rooms". Now, keep in mind that a "room"

to a hard-rock miner or underground construction engineer is not necessarily the same thing as a "room" in an ordinary house. At the beginning of the book I mentioned the dimensions of an underground power plant in the Himalayan Mountains of Bhutan that was hundreds of feet long and more than 100 feet high. Reflect on Lloyd Duscha's remarks, where he refers to multiple underground chambers more than 50 feet wide and 100 feet high. In fact, my research suggests that it would be within the state of the art in the underground construction industry to

make mammoth underground chambers, in the middle of the ocean, hundreds of feet below the sea floor, that would have no visible connection to either the land or the surface of the ocean.

Because I realise this assertion may well be controversial for the uninitiated, I am going to quote at length from the US Navy's Rock-Site Concept report. As you read what follows, keep in mind that already in the 1960s the technology existed to construct facilities beneath the ocean floor that could accommodate full-sized submarines, with locks that would permit their crews to enter and exit, well below the surface of the sea. Over the last 35 years, the technology to carry out subterranean and submarine construction has only become more sophisticated and powerful.

Truth may indeed be stranger than fiction. I am increasingly inclined to think that such facilities just may have been built, and just may be in secret use. What follows is a little lengthy and a little technical, but is well worth the reading.³⁷

Land-based undersea installations are not only practical today but are not overly expensive. The depth of shaft

Large undersea installations with a shirt-sleeve environment have existed under the continental shelves for many decades.

(US Navy document, 1966)

needed for a land-based installation will depend on the depth needed to reach either a competent rock horizon beneath the sea floor or else a desired depth from a construction point of view. Assume an installation depth of 1,000 feet below the surface is desired. A probable depth of shaft is then 1,200 feet.

Shafts can be excavated by drilling and blasting, but a more usable shaft with far less maintenance and damage to the rock around the shaft will result from boring, a technique just now coming into general industrial use [mechanical shaft boring is now a common practice in the mining and underground construction industries; author's note].

With a bored shaft in the range of 5 to 8 feet in diameter, the cost will be roughly 4 million dollars completed [in 1966 dollars], including the life support and service systems, although some industrial firms will now estimate a cost of about 2 million dollars for this size of installation. Large diameter shaft drilling has been well discussed in the literature and extensive charts and graphs for detailed cost estimating are available.

For long distance undersea tunneling, boring is especially attractive. Boring methods require only electric power and yield no serious fumes or gases, as would be the case for tunnels driven by conventional explosive methods. Boring machines are now essentially off-the-shelf equipment for rocks ranging from rather weak shales to strong hard sandstones and have been used with encouraging results in even stronger metamorphic rocks.

With hydraulic or other automated handling of the ground-up waste rock, including ejection of the waste to the sea floor, tunnel boring in a rock strong enough to be

fully self-supporting with a 15–20-foot-diameter bore can proceed at rates up to 5 miles per year for a cost of 1 to 1.5 million dollars per mile [in 1966 dollars]...

With modern-day shaft and tunnel boring techniques, access to the sea floor from land can be carried out at depths beneath the sea of several thousand feet (to at least 10,000 to 12,000 feet) and to distances offshore of tens to hundreds of miles.

Astonishing! Here is a US Navy document from the 1960s that plainly describes the capabilities of the underground construction industry at that time as fully able to tunnel out hundreds of miles beneath the ocean, at depths as great as two miles below the sea floor! I have spent a great deal of time in recent years reading tunnelling and underground excavation literature, and I assure you that the technology and the machinery for underground excavation has only become more powerful and more sophisticated in the intervening years. ∞

Editor's Note:

This article is extracted from chapters 5 and 6 of Dr Richard Sauder's book, *Underwater and Underground Bases*, published by Adventures Unlimited Press, USA, 2001. It is available in Australia, New Zealand, UK and The Netherlands from NEXUS Magazine.

About the Author:

Richard Sauder, PhD, is a native Virginian who presently resides in San Antonio, Texas, USA. He has an abiding interest in Fortean and arcane sciences. He is the author of *Underground Bases and Tunnels* (1995; reviewed in NEXUS 2/26), *Kundalini Tales* (1998; reviewed in 6/02) and *Underwater and Underground Bases* (reviewed in 8/04). Dr Sauder welcomes solid information and documentation from readers on the topics he covers in his books as well as other esoteric or non-mainstream data.

Endnotes

1. The *Typhoons* are extremely large submarines. See Sherry Sontag and Christopher Drew, with Annette Lawrence Drew, *Blind Man's Bluff: The Untold Story of American Submarine Espionage*, Public Affairs, New York, 1998.
2. "For Missouri-born diver, Russian sub mission was like no other." Associated Press news article at <http://www.cnn.com/2000/US/12/04/kursk.diver.ap/index.html>.
3. For example, the Pacific Gas and Electric Company used a Robbins Company TBM to bore a 24'1"-diameter, 22,000-foot-long tunnel during construction of the Kerckhoff 2 Underground Hydroelectric Power Plant in the early 1980s. The power plant is about 30 miles northeast of Fresno, California. Typical rates of progress were anywhere from 60 to 100 feet per day. Assuming 365 days of work per year, the machine should average about 5.5 miles of tunnel annually. (See Edward R. Kennedy, P.E., "The Kerckhoff 2 Underground Hydroelectric Power Plant Project, A State-of-the-Art Application of a Tunnel Boring Machine", US National Committee on Tunneling Technology, *Tunneling Technology Newsletter*, number 38, June 1982.)
- An 18-mile tunnel through fractured rock in Greece yielded extrapolated TBM net average advance rates of about 4.5 miles per year. (See G. Dolcini, S. Fuoco and R. Ribacchi, "Performance of TBMs in Complex Rock Masses", in *North American Tunneling '96, Vol. 1* [ed. Levent Ozdemir], A.A. Balkema, Rotterdam, Netherlands, and Brookfield, Vermont, USA, 1996, pp. 145-154.)
- Another study projects rates up to 10 miles of tunnel per year or more "to be feasible within the possible level of attainment using today's machines in moderate conditions and without any further advance in machine technology". (See D. B. Parkes, *The Performance of Tunnel-Boring*

- Machines in Rock*, CIRIA Special Publication 62, Construction Industry Research and Information Association, London, 1988.)
- And the extrapolated annual rate of advance for the TBMs boring the Chunnel underneath the English Channel between France and England ranged from about 8 to 13 miles, assuming the machines' best monthly rates of progress. (See "Tunnel Boring Machines", Eurotunnel website, <http://www.eurotunnel.com/eurouk/etplc/tbm.htm>, 1999.)
- The available evidence indicates that for contemporary tunnelling machines, an average rate of five miles per year is attainable even in fractured rock. In better conditions, tunnel boring machines can make advances of 10 miles or more per year. This is well within the state of the art in today's tunnelling industry.
4. "Japan proposes undersea tunnel to link S. Korea", <http://www.indiatimes.com/221000toi/22wor15.htm>, 2000.
5. Letter from Robert W. Van Dolah, Research Director, Explosives Research Center, United States Department of the Interior, Bureau of Mines, to Dr William B. McLean, Technical Director, Research and Development, US Naval Ordnance Test Station, China Lake, California, 18 April 1966.
6. The question as to the feasibility of deep shafts, i.e., large shafts that extend thousands of feet underground, has been definitively answered in the affirmative by the mining industry. I will cite just two examples from the many that can be found in the mining engineering literature; they suffice to prove the general point.
- In the early 1980s, the Wyoming Mineral Corporation and Conoco, Inc. bored a 10-foot-diameter shaft to a depth of 2,243 feet in Crownpoint, New Mexico. They also bored a couple of other six-foot-diameter shafts to a depth of 2,188 feet at the same location, with the objective of developing a uranium mine at about 2,180 feet below the surface.

- (Hassell E. Hunter, "Drilled Shaft Construction at Crownpoint, New Mexico", in *Proceedings, 1983 Rapid Excavation and Tunneling Conference, Chicago, Illinois, 12–16 June 1983* [eds Harry Sutcliffe and John W. Wilson], The American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc, New York, 1983, 1:544-565. Twenty years earlier, a 9,673-foot shaft was sunk at the Western Deep Levels mine in South Africa. This shaft, which extends to virtually the 10,000-foot level mentioned by Van Dolah, has a lined diameter of 20 feet. ("World's Deepest Single Shaft", *The South African Mining and Engineering Journal*, 19 October 1962, p. 859) It is clear that shafts with diameters of 10 and 20 feet, that extend for thousands of feet underground, have been the state of the art in the mining industry for decades.
7. Shan-tung Lu, "Undersea Coal Mining", Paper presented to the Department of Mining, College of Mineral Industries, The Pennsylvania State University, University Park, Pennsylvania, USA, March 1959.
8. John L. Mero, *The Mineral Resources of the Sea*, Elsevier Publishing Company, New York, 1965.
9. George E. Sleight, "A Hydrographic Survey and Undersea Borings in Ayr Bay", *Transactions of The Institution of Mining Engineers*, vol. 112, 1952–1953, pp. 521-541; R. S. McLaren, "Undersea Mining off the North-East Durham Coast", *The Iron and Coal Trades Review*, 8 August 1952, pp. 301-309; J. H. Pierce, "Horden, One of England's Crack Collieries", *Coal Age*, vol. 34, no. 7, July 1929, pp. 406-409; J. T. Robertson, "Drifting Under the Firth of Forth", *Canadian Mining Journal*, December 1964, pp. 70-71.
10. "The Tin Mining Industry of Cornwall", *Scientific American*, Supplement, vol. LXIII, no. 1635, 4 May 1907, pp. 26189-26191.

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AMPLIFIED MIND POWER RESEARCH IN THE FORMER SOVIET UNION

***By 1970, most
parapsychology
research in the
Soviet Union was
authorised and
controlled by the
KGB.***

Part 2 of 3

by Martin Ebon © 1996

From the website:
[www.biomindsuperpowers.com/
Pages/Ebon1.html](http://www.biomindsuperpowers.com/Pages/Ebon1.html)

During the Cold War it became a commonplace observation that the Committee for State Security (*Komitet gosudarstvennoi bezopasnosti*, or KGB for short) permeated Soviet society at all levels. Its role in psi research was clearly a minor aspect of KGB activity. The KGB's uneasy role in psi research illustrated that it was not, and could not have been, a monolithic agency. Its sometimes contradictory aims, as well as its enormous domestic and international scope and diversity, made total efficiency impossible.

Western analysts have concluded that the KGB took control of Soviet studies in parapsychology no later than 1970. More precisely, the agency appears to have taken a serious interest in the field during this period, and its involvement after that became more active and consistent.

The KGB's alternately benign and hostile attitude towards psychic studies is well illustrated by the rise, fall and resurrection of the bioenergetics laboratory attached to Moscow's A. S. Popov Scientific-Technical Society for Radio Engineering, Electronics and Communication (known as NTORES, the acronym of its Russian name). The original initiative for the Popov lab came from members of its Bionics Section in 1965, who suggested a series of telepathy experiments under the label "biological communication".

The new section met on 11 October 1965 and developed a three-point program:

- 1) study and analysis of international literature on the subject;
- 2) a synthesis of spontaneous telepathic phenomena previously observed; and
- 3) a plan for laboratory-controlled telepathic experiments.

The resulting Laboratory for Bio-Information functioned on two levels, private and official. The core of the operation was a team of unpaid volunteers, who were permitted to work on premises leased by the Popov institute and whose activity was "officially authorised". The little band of parapsychology enthusiasts inside the Bio-Communication Laboratory was well aware that they operated under official scrutiny, that at least one KGB operative was a staff member and regularly reported to the agency. Much of their work was clearly visible, such as the long-distance telepathy experiments, but other studies were never published.

Among the unpublished studies was the work of Yuri Korabelnikov and Ludmilla Tishchenko-Korabelnikova, a husband-and-wife team who organised more than 8,000 clairvoyance tests. They placed different geometric designs of numbers inside opaque envelopes. According to the group's compilations, the two psychics were able to name about 70 per cent of the images correctly, compared to 20 per cent expected by probability.

In addition to the existence of rival "idealistic" and "materialistic" cliques, there was a continuous effort on the part of publicity-conscious Edward Naumov to push for more research in psychokinesis, while the laboratory's director, Professor Kogan, favoured telepathy experiments. Barbara Ivanova, then employed as a government translator, engaged in a series of experiments that included remote viewing and distant healing. Larissa Vilenskaya, impressed by the performances of Rosa Kuleshova, investigated dermo-optic vision and developed techniques for teaching this ability. One of Ivanova's early students, Boris Ivanov, eventually denounced her as bringing an "idealist" taint to healing research.

Ivanov himself specialised in "charging" water with "bio-energy"—a technique that had long been examined by a Canadian researcher, Dr Bernard Grad of McGill University, Montreal. After Ivanov left the Popov laboratory to continue his studies at the Institute of

Molecular Genetics of the USSR Academy of Sciences, a curtain of secrecy dropped over his work.

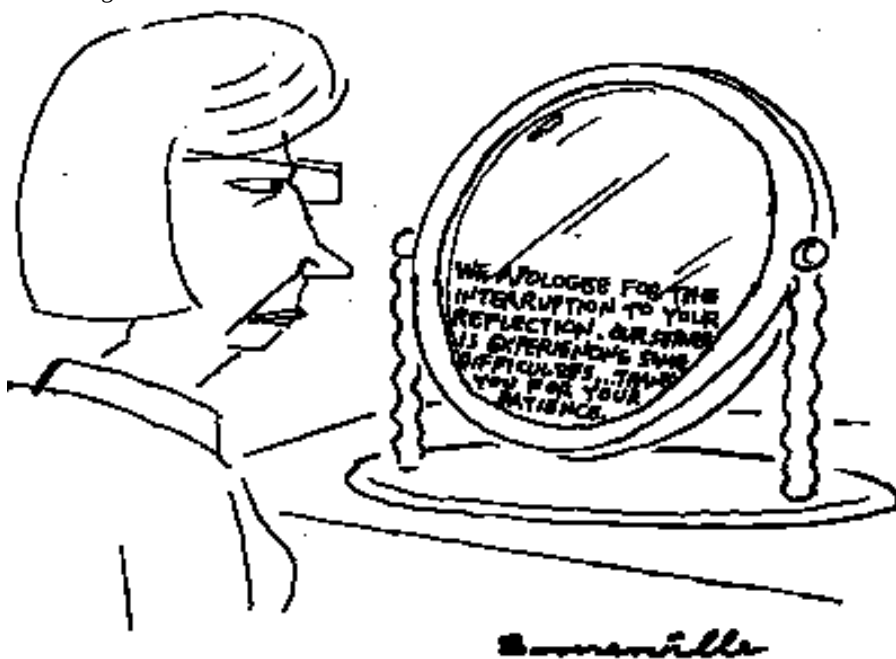
The KGB reorganised the Popov laboratory in 1978 along lines that favoured military-oriented research. The new unit, under the direction of academician Yuri Kobzarev, was established after three years of soul-searching.

Professor Kobzarev was considered by Moscow researchers as a sound scientist but, to the degree that this was possible within Soviet society, something of a "political innocent". As such, he occupied the position of an academic figurehead for the new Laboratory for Bio-Electronics, while the day-to-day functions of the unit rested in the firm hands of his deputy, a KGB functionary who had been active within the old laboratory and was instrumental in its eventual dissolution.

Debates regarding "inhumane" projects often arose. Determined to avoid these, the authorities did not permit within the unit's secretariat, its council or the laboratory team the presence of anyone who might oppose "inhumane" projects. To enforce this policy, a strict screening process was established, complete with "Rules for Admittance to Membership in the Central Public Laboratory for Bio-Electronics" (7 December 1978).

The rules specified that all potential staff members had to be interviewed by the lab's directors, commit themselves in writing to adhere to the rules, file two passport-type portrait photographs and submit a statement of three to four pages showing "familiarity with bio-electronic problems". The laboratory, in turn, established a file on each individual and issued an identity card.

Once admitted to the staff, members were forbidden to give lectures or publish papers "without the laboratory's prior permission". They were not permitted to "engage in any research concerning the structure or the improved quality of biofields" outside the laboratory, without the prior permission of the Scientific-Technological Section.



In addition to having KGB guidance, the Bio-Electronics Laboratory had military representatives among its officers.

In order to widen the geographic scope of bio-electronic research, Popov institutes in Leningrad, Kiev, Alma Ata, Kishinev, Taganrog, Minsk and Tallin were urged to establish similar laboratories and engage psychics for experiments.

In addition to having KGB guidance, the Bio-Electronics Laboratory had military representatives among its officers. The full extent and the purpose of the military interests remain vague due to lack of documentation. However, it is known that the military presence was large.

Among 18 members selected on 31 October 1978, two were senior scientists at the Soviet Ministry of Defence—Jan I. Koltunov and Nikolai A. Nosov—and a third, Mikhail A.

Sukhikh, was a Candidate of Military Sciences at the Ministry of Defence.

An appraisal of the KGB's role in Russian parapsychology must acknowledge that the agency was an ever-present fact of Soviet life, rather than an omnisciently sinister force. Thus, when we observe that the KGB slowly tightened its hold on psi studies, we can simply take this to mean that with a lot of backing and filling the KGB started to take psychic potential seriously, examine it more closely and guide its use towards serious applications.

Evidence for this interest can be found in diverse areas. When *émigré* August Stern reported on the carefully guarded operations of a laboratory in Novosibirsk, he made two significant references to the KGB's role: in the operation of this unit in particular, and in psi studies in general. He expressed the belief that two visitors who had inspected the Novosibirsk installations during its early days were KGB men, and he stated that experiments in Leningrad and Novosibirsk were later reported to have been combined under one Moscow laboratory, operated under KGB auspices.

Stern understood in 1974 that all psi tests had been curtailed, except for within the "secret KGB laboratory"; but when he was told that something "important" and "very dangerous" had been discovered in the course of these laboratory experiments, Stern said: "I never believed it. How can the KGB do effective research? They need real scientists." Speaking from the elitist viewpoint of a scientist, Stern may well have underestimated the results that can be achieved under police pressure, if not guidance.

One American researcher stated bluntly: "The KGB simply discovered or decided that parapsychology phenomena are real, that they work, that all theoretical wrangling be damned, and that the only thing that counts are results—and they just went ahead, full steam, to get more reliable results to suit their 'specific aims'."

The pattern of the KGB's rule in Soviet psi research that emerged was one of increasing secrecy about actual research within the USSR, accompanied by fluctuating tolerance of encouragement of the exposure of peripheral, irrelevant or even inaccurate information concerning Soviet studies.

Three stages in this process can be identified, and they were influenced by the role and policies of Yuri A. Andropov, who held the post of KGB Chairman from 1967 to 1982. On 12 November 1982, Andropov was named General Secretary of the Communist Party of the Soviet Union (the country's top position), succeeding Brezhnev who had died a few days before.

The "golden age" of Soviet psi research—the first stage of its contemporary development—lasted through most of the 1960s. It began with Professor Vasiliev's spirited advocacy of the research he had long proposed. It became obscured after Andropov took control of the KGB, which intruded more firmly into scientific activities including the monitoring, supervision and actual conducting of experiments.

From mid-1968 on, and quite noticeable by 1970, contact between Soviet psi researchers and their colleagues abroad began to dry up. By 1975, the Laboratory for Bio-Communication was disbanded. Publication of findings by such authorities as Professor Kogan ceased, while rumours concerning secret KGB-operated laboratories circulated. This was a period of transition with new plans made, blueprints prepared, staff tentatively selected, some projects at least publicly abandoned and others pursued in an exploratory, probing and even confused manner.

The KGB's influence on scientific research generally had been uneven. While it had the task of assuring maximum ideological and political loyalty among scientists, it also had to encourage

optimum productivity. This called for a relatively open exchange of information, including a monitoring of scientific developments abroad. But the sheer volume of data in science and technology available openly—at meetings, in journals and in books—in the United States, Western Europe and Japan during any given day must have severely taxed the transmission and translation facilities available to Soviet science.

Even so, the skilled manpower needed to evaluate, analyse and

apply such data was limited. Soviet scholars found KGB censorship of incoming mail uneven and heavy-handed; publications were often simply stolen in transit and sold on a specialised black market.

Soviet science, arts and literature experienced a "thaw" of several years during the regime of Nikita Khrushchev. But when direction of the KGB was taken over by Andropov, controls over Soviet society were tightened; flexibility, unpredictability and changes in policies thereafter characterised the agency's operations.

In 1975, foreign observers detected a distinct tightening-up of KGB and Communist Party control over the academy. The weekly magazine *US News and World Reports* (1 March 1967) described this development as "one of the most important Soviet internal changes since World War II". The magazine quoted one analyst as saying: "It is right up there with Stalin's death and the reversal of Khrushchev's reforms, because it destroys the only important island of independence left in the country."

The KGB simply discovered or decided that parapsychology phenomena are real ... and that the only thing that counts are results ...

CENTRES OF USSR PSI STUDIES

The limited information and massive disinformation available regarding the KGB takeover of Soviet psi research did not in itself contribute to an in-depth analysis of the Soviet psi research machine—especially when its large size was considered, along with the known extent of its multidisciplinary activities. For example, through privileged sources available to me, I was able to confirm by 1983 that the arms and functions of the machine were so extensive as to include all of the following 29 research centres:

- A. S. Popov All-Union Scientific and Technical Society of Radio Technology and Electrical Engineering, Moscow; Laboratory of Bio-Information, 1965–1975; Laboratory of Bio-Energetics, established 1978.
- Scientific Research Institute of General and Educational Psychology, USSR Academy of Pedagogical Sciences, Moscow.
- Baumann Institute of Advanced Technology, Moscow; Laboratory of Dr Wagner.
- Institute of Energetics, Moscow; Laboratory of Dr Sokolov.
- Moscow State University; Laboratory of Prof. Kholodov.
- State Instrument of Engineering College, Department of Physics, Moscow.
- Moscow Institute of Aviation.
- I. V. Pavlov Institute, Moscow.
- Institute of Reflexology, Moscow.
- Moscow University, Department of Theoretical Physics.
- Moscow State University, Department of Geology.
- Interdepartmental Commission for Coordination of Study

on the Biophysical Effect, Moscow (dowsing research).

- Adjunct Laboratory of Medical and Biological Problems, Moscow.
- University of Leningrad, Laboratory on the Physiology of Labour; Department of Physiology, Laboratory of Biological Cybernetics.
- A. A. Uktomskii Physiological Institute, Leningrad.
- Leningrad Polytechnic Institute, Department of Cybernetics.
- University of Leningrad, Bekhterev Brain Institute.
- Research Institute of Psychology, Ukrainian SSR Academy of Science.
- Institute of Problems of Information Transmission of the USSR Academy of Sciences, Moscow.
- Pulkovo Observatory, Leningrad.
- Filatov Institute, Laboratory of the Physiology of Vision, Odessa.
- Scientific-Industrial Unit "Quantum", Krasnodar.
- State University of Georgia, Tbilisi (Tiflis).
- Kazakhstan State University, Alma Ata, Kazakhstan.
- Institute of Cybernetics of the Ukrainian SSR, Kiev.
- Institute of Clinical Physiology, Kiev.
- Scientific Research Institute of Biophysics, Department of Cybernetics, Puschino.
- Institute of Psychiatry and Neurology, Kharkov.
- Institute of Automation and Electricity, Special Department No. 8 (1965–1969), Siberian Academy of Science, Novosibirsk.
- Institute of Clinical and Experimental Medicine, Novosibirsk.

THREE MAJOR DIRECTIONS OF PSYCHIC RESEARCH

Although the full extent of the discoveries and details of Soviet psi research remained shrouded in deep secrecy before and after the end of the Cold War, it has been possible to identify three major directions: (a) code by telepathy; (b) boosting the human brain; and (c) amplified mind power. Early on, these alarmed American analysts, and partially account for the American responses.

Code by Telepathy

The most spectacular experiments undertaken by the Moscow Laboratory of Bio-Information used the Soviet Union's star telepathists: Yuri Kamensky, a biophysicist, and Karl Nikolayev, an actor. The two men discovered each other's capabilities in thought transference when they met socially. Even before the Popov research group arranged formal tests, their skills attracted a mixture of curiosity, awe and doubt in Moscow society.

The first long-distance experiment took place in 1966, with Kamensky in Moscow acting as sender of the telepathic signals and Nikolayev serving as receiver at the science research centre in Novosibirsk, western Siberia. The Moscow daily *Komsomolskaya Pravda* (9 July 1966) reported that the experiment consisted of two types.

The first, modelled after tests pioneered in the United States by Dr J. B. Rhine at the Parapsychology Laboratory of Duke University, employed a deck of cards made up of five different geometric symbols: cross, circle, star, wavy lines and square. The newspaper account did not provide details on the experiment's design, nor did it publish specific results. It concluded, however, that "the number of correct identifications of symbols was higher than correct random identifications, as computed according to the theory of probability". The report stated that "The reception of other symbols was disturbed by considerable associative interference"—a condition that would be "reduced in the future", it said.

The aim of the second experiment was to transfer of images of concrete objects. The paper reported that Nikolayev, in Novosibirsk, "received quite clearly" the images of dumbbells and of a screwdriver sent from Moscow by Kamensky. The Moscow paper commented: "It is quite possible that these results will equally disappoint the most ardent adherents of telepathy and its opponents. The former, because no miracle occurred, because there were no perfect identifications. The latter, because the experiment demonstrated the reality of the phenomenon and produced valuable data, both positive and negative, which pointed up the need for continued research."

A follow-up experiment, this time between Moscow and Leningrad, took place a year later. It was designed to harness the emotional content of crisis telepathy into a code transmission. The Popov group set out to design an experiment that would (a) be suited to the skills of its telepathists, (b) utilise emotional elements, and (c) achieve specific information transmission.

The problem faced by the Moscow experimenters is a basic one in efforts to use psychic powers for practical purposes. In designing the Moscow-Leningrad experiment, they had to come up with an answer to the question: "How do you tame a telepathic flash; how do you transform a split-second impression into a meaningful message?"

The answer was provided by Dr Genady Sergeyev, then a staff member of the A. A. Uktomskii Physiological Institute in Leningrad and senior experimenter with Nina Kulagina. Sergeyev, who had been a World War II radio operator stationed in the Baltic region, decided that a short outburst of emotion might have sufficient impact to form the Morse code equivalent of a letter of the alphabet.

The experimental design called for a message of aggressive emotion lasting 15 or 30 seconds to act as the equivalent of a dot in Morse code, while a message of 45 seconds was to be the equivalent of a dash. To generate sufficient violence, Kamensky was instructed to imagine that he was giving Nikolayev a severe beating, lasting either the short or the long period. The experiment did not assume that Nikolayev would experience the "code beating" consciously or intellectually. Rather, it was designed to be registered by his brain and/or cardiovascular system. To measure the effects of this telepathic transmission, Nikolayev sat alone in a soundproof test chamber in Leningrad University's physiology laboratory. His heart action was monitored by an electrocardiograph, while his brain function was recorded by an electroencephalograph.

A follow-up experiment, this time between Moscow and Leningrad, took place a year later.

It was designed to harness the emotional content of crisis telepathy into a code transmission.

Boosting the Human Brain

The work of Professor Ippolite M. Kogan, who directed the Bio-Communication Laboratory of the Popov Institute in Moscow until 1975, has disappeared into a fog of silence. But either Kogan or his successors may well have continued this work. The AiResearch Manufacturing Company, in its 14 January 1976 report to the US Central Intelligence Agency, suggested that "further theoretic and experimental developments along the lines outlined by Kogan are continuing in the Soviet Union". The

report added: "Kogan posed too many interesting and challenging questions for himself and his colleagues not to have delved into them further. Based on the well-known predilection of Soviet physicists to solve difficult and challenging problems and their excellent training in modern physics, the possibility that a team of Soviet physicists is at work to systematically uncover and learn the physical mechanisms of parapsychological events is highly probable."

The California research group used the term Novel Biophysical Information Transfer (NBIT) to label the telepathic aspects of psi, when it stated: "Had Kogan not presented such a clear and sound proposal six years ago, one might have wondered if Soviet physicists have any interest at all in novel biophysical information transfer (NBIT) mechanisms. Clearly, if one could find out where Kogan is working and what he is doing, this question would be answered."

Amplified Mind Power

But Kogan had not been heard from since his Moscow Bio-Information Laboratory was closed down in 1975, and he was not a member of the staff of the laboratory that replaced it three years later. Kogan's background in the theory and practice of radio-electronics, together with his dramatic tests in long-distance telepathy, made his research particularly significant to studies in the transmission of very low frequency (VLF) and extremely low frequency (ELF) radio waves. These research areas were of specific interest in shore-to-submarine communications.

The AiResearch study made the following points: "Assuming that the USSR started a special NBIT program sometime in 1970, by now they could have developed some sensitive instruments to detect, monitor and analyze VLF and ELF radiations for possible instrument content, as Kogan suggested should be done.

"Also, they must have been instrumental in developing sensors to monitor fluctuations in the human body's electric and magnetic fields, and they may have a team of scientists studying the properties of bio-organic molecules and their response to electromagnetic ELF/VLF radiation."

The report suggested that Soviet researchers were using electronic means for boosting telepathic communications. "The Russians may now be implementing the next logical step, namely, to reinforce, enhance or aid NBIT in certain trained or gifted individuals after having discovered the basic communication carriers."

How could such enhanced telepathic or clairvoyant ability be utilised? The most dramatic mechanism possible, despite its science fiction connotations, is tuning in on people's minds.

Less precisely focused monitoring was well under way. The Soviet Union operated an elaborate eavesdropping network, with several monitoring stations on the eastern seaboard of the United States, to record radio-telephone conversations among US government agencies, private corporations and individuals. The monitoring of more intimate communications, even "thought reading", can be seen as an extrapolation on these undertakings, particularly if it can extend to the mind-reasoning of prominent decision-making officials.

It may be taken for granted that Moscow was interested in monitoring ELF communications between US naval command posts and submarines at sea on a continuous basis and then in an experimental situation. Tuning in on the mind processes and decisions of individuals, on ELF/VLF wavelengths, could hardly have been less tempting.

The AiResearch report noted: "If experiments which generate special ELF/VLF waves are being conducted, [such waves] may well travel across the world." It added that these frequencies may be "undetectable by the usual relatively broadband frequency detectors", and commented: "It is rational to assume that the Soviets pursue the investigation of various physical methods that might serve novel biophysical information transmission mechanisms. Whether or not ELF/VLF mechanisms explain parapsychological events may be a moot question if these mechanisms

can be utilised for human information transfer." In other words: if it works, who cares what you call it?

To discover the "carrier mechanism" of this capacity, the AiResearch team undertook what it called "a short, speculative study" and decided that three methods were "compatible with current modern physics". These included: "(1) Very Low Frequency (VLF) and Extremely Low Frequency (ELF) electromagnetic waves; (2) Neutrinos, based on the photon theory of neutrinos; (3) Quantum-mechanical (Ψ) waves, based on schizo-physical interpretation of basic QM [quantum mechanics] theory."

The report said that experiments in the United States and the Soviet Union in this field point to the ELF/VLF mechanisms, but "the other two possibilities cannot be ruled out".

Whether one uses such terms as "NBIT", "bio-communication" or the handy word "telepathy", there is an awesome fascination in the prospect that a single mind may be monitored, or thought transference between two people intercepted, on an extremely low frequency receiver. Medical electronics has perfected apparatus that come close to the frontier of such uses.

For years, Russian neurologists and psychologists had treated the human mind as little more than a complex electrochemical apparatus. As such, they felt it could function as the "recipient" of information or as an "inducer" of energies. With skill, these faculties might be manipulated—made more sensitive, more powerful, more responsive to outside influence.

In his book entitled *Thought Transference*, Kazhinsky had concluded that the human nervous system incorporates the elements of its own historic evolution. He wrote:

"Like all other parts of the living organism, nerve elements and nerve circuits perform adaptive and protective functions; that is, they adapt the organism to the influence of the environment, as well as to the influences of environmental factors.

"They have undergone changes and improvements for many thousands of years. Nature took care to equip all

living matter with highly delicate nerve structures that have resulted in great improvement of all vital functions. Electromagnetic transmission of mental information over a distance is a vital function of the nervous system.

"This leads to a logically justified idea: the human central nervous system (including the brain) is a repository of highly sophisticated instruments of biological radio communication, in construction far superior to the latest instruments of technical radio communication.

"There may exist 'living' instruments of technical biological communication still unknown to contemporary radio engineering. A thorough and original laboratory study of such 'living' instruments may help us raise radio communication to an unprecedentedly high level, placing entirely new and vastly improved radio facilities at its disposal."

Kazhinsky disagreed with those who regarded the telepathic ability as a remnant from man's earlier stages of evolution. Instead, he maintained that "the phenomenal capacity of a person

... the human central nervous system (including the brain) is a repository of highly sophisticated instruments of biological radio communication, in construction far superior to the latest instruments of technical radio communication.

to exert a mental influence over others from a distance is still in an embryonic stage". He added: "Those who believe that this brain capacity is moribund, degenerating, etc., are wrong. On the contrary, it is the beginning of a new and higher stage of development of the human mind, on a new and firmer foundation, based on biological radio communication. This hypothesis is confirmed by a simple law of nature: the more a capacity is exercised, the keener it will become and the greater man's power over nature will be."

Kazhinsky's concepts were, in several ways, a prototype of some Soviet thinking in this field. He noted the "insignificantly low energy emitted by the brain of the 'biological radio transmitter' in the transference of sensations and experiences over distance". He urged that efforts be made to develop instruments that can duplicate the "remarkably delicate and perfect natural instrument" that the brain represents in functioning as such a transmitter. Kazhinsky bolstered his arguments with a quotation from V. I. Lenin: "Sensation is the resulting effect of matter on our sensory organs." (*Materialism and Empirio-criticism*, Moscow, 1953).

By 1961, Vasiliev's psychiatric colleague, Professor K. I. Platonov, was able to address a Kharkov meeting on telepathy and recall experiments he had conducted in 1924 at the All-Russian Congress of Psychoneurologists, Psychologists and Teachers in Leningrad. Vasiliev, who was present during the original congress, published Platonov's account in his book. During a meeting of the congress's Hypnological Section, a female subject, M., sat at the presidential table, facing the audience, while Platonov stood behind a blackboard that hid him from M., although he could be seen by the audience.

Platonov had told the audience earlier that, when he silently covered his face with his hands, he would try to put the subject to sleep hypnotically. His report continued: "Having covered my face I formed a mental image of the subject M. falling asleep while talking to Prof. G. [who sat next to her on the dais]. I strenuously concentrated my attention on this for about one minute. The result was perfect: M. fell asleep within a few seconds. Awakening was effected in the same way. This was repeated several times."

Platonov's observations included the finding that when he gave the subject the actual mental suggestion of "Go to sleep" or just "Sleep!", he didn't get any results. But when he wanted to conclude the experiment, he had positive results. He noted that the subject woke up suddenly—"within a few seconds after I had started mentally visualising her awakening". Platonov emphasised that the subject was "entirely unaware of the nature of the experiment".

Platonov said that his tests should prompt scientists to take these phenomena "extremely seriously". He concluded that his findings should give researchers "the right to search for means of finding a scientific, materialistic grounding, not only for the phenomena of telepathically inducing sleep, but for many other telepathic phenomena as well".

The crucial question was whether hypnosis/telepathy could influence men or women who were unaware of being targets. Many cases had been reported, similar to Platonov's mental influ-

ence on the subject M., which seem to prove that the subject can be hypnotised while unaware of the experiments. It is likely that the pioneer work done by Soviet scientists in this field has led to more intensive and wider studies.

Soviet long-distance telepathy experiments are a matter of record; we may assume that the "reinforcement" or "mind amplification" by hypnosis or drugs of telepathic senders (inducers) and receivers had been attempted in all types of telepathy tests.

WASHINGTON'S DILEMMA

By 1969, the growing evidence that the Soviets were undertaking research into amplified mind power techniques led to the American dilemma of how to respond to the "psi situation". The American science community was not predisposed to undertaking a significant step towards "psychic research", and many government and intelligence leaders feared ridicule. But at the very least it had to be determined if there was any "potential threat" to American security if the Soviets had developed an array of amplified mind power techniques.

After what may have been a lot of soul searching, the CIA responded in 1973 by funding a classified exploratory project at Stanford Research Institute (SRI), placing it under the guidance of physicist Dr H. E. Puthoff. For years, the CIA involvement remained vague. But in 1996, Puthoff's report, entitled "CIA-initiated Remote Viewing Program at Stanford Research Institute" was published (*Journal of Scientific Exploration*, vol. 10, no. 1, pp. 63-76, 1996). [Note: This document can be found at www.biomindsuperpowers.com.]

Up until 1973, it was commonly understood that the American intelligence community had taken no interest in psychic research or ESP. But in 1981, the following document suggesting otherwise was declassified and released.

Continued next issue...

About the Author:

Following service with the US Office of War Information in World War II, Martin Ebon then worked on the staff of the Foreign Policy Association, and with the US Information Agency during the Korean War. From 1953 to 1965 he was administrative assistant of the Parapsychology Association in New York and travelled extensively on behalf of the Association's research endeavours. He has become a well-known figure in parapsychology circles. His lectures, reviews, research reports, magazine articles and books (over 60 of them) reflect serious treatment of the field. He is a life-long researcher/writer/analyst regarding the political and scientific developments of Eastern European countries, the former Soviet Union and post-Communist Russia as well as Asia and the People's Republic of China.

In addition to his many books on parapsychological matters, Ebon is the author of: *World Communism Today*; *Malenkov: Stalin's Successor*; a biography of Ernesto "Che" Guevara; *Psychic Warfare* (1983); *The Andropov File*, a biography of the former head of the KGB; *The Soviet Propaganda Machine* (1987); and *KGB: Death and Rebirth* (1994).

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HARNESSING THE UNIVERSAL COSMIC ENERGY

***Realising that we
exist in a boundless
sea of cosmic
energy, scientists
like Crookes, Tesla
and Moray
experimented with
devices that would
tap this primal
source.***

Part 1 of 2

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TESLA'S INSIGHTS ON RADIANT ENERGY AND HOW TO TAP IT

Ere many generations pass, our machinery will be driven by a power obtainable at any point of the universe. This idea is not novel. Men have been led to it long ago by instinct or reason. It has been expressed in many ways and in many places in the history of old and new. We find it in the delightful myth of Antheus, who derives power from the Earth; we find it among the subtle speculations of one of your splendid mathematicians and in many hints and statements of thinkers of the present time.

Throughout space there is energy. Is this energy static or kinetic? If static, our hopes are in vain; if kinetic—and this we know it is, for certain—then it is a mere question of time when men will succeed in attaching their machinery to the very wheelwork of nature.

This statement was made by Dr Nikola Tesla (1856–1943) during the delivery of his lecture to the Institute of Electrical Engineers in London in 1892. This profound insight came not long after he had given an extensive description of what he referred to as *cosmic rays*—a phenomenon that was not officially discovered until some 30 years later.

It is well known that Tesla intended to transmit electrical energy through the Earth so that it could be tapped as free energy from any point on the globe. However, the great scientist had a dream of tapping into an energy source that has been present since the birth of the universe, an energy that permeates all space and time. Although he was sure that the energy existed and could be tapped, he was not entirely sure how this could be done. Nevertheless, in the same lecture, Tesla went on to say that a device for tapping this sea of energy had already been discovered. He said:

Of all, living or dead, Crookes came nearest to doing it. His radiometer will turn in the light of day and in the darkness of night; it will turn everywhere where there is heat, and heat is everywhere.

The radiometer is a simple instrument that clearly demonstrates that light has momentum, and that this momentum can be imparted onto macroscopic matter to render it as useful energy. The instrument consists of four vanes mounted on a pinpoint vertical support. Each vane is coated on one side with black paint, while the other side is silvered. The whole assembly is then encapsulated in an evacuated glass bulb. When light falls upon this device, the vanes turn rapidly, thus converting radiant energy into mechanical energy. The secret to its operation is quite simple, yet it is the first device to harness this primal energy.

Light can be described as corpuscular in nature; specifically, it can be thought of as being composed of particles, namely photons. This means that a ray of light can be described as a beam of particles or photons, and like any other particle they carry momentum. How this momentum is transferred to any matter in its path depends on the target matter.

In the case of the radiometer, the atoms of the black paint, which coats one side of the vanes, absorb the light particles; while on the other side of the vanes, where there is a silver coating, the photons simply reflect, imparting some of their momentum or energy onto that surface of the vanes. This imbalance of forces—that is, the absorption on one side and reflection on the other—results in rotational motion: a radiant energy motor.

However, Tesla went on to say that the radiometer, although important in its concept, was perhaps one of the most inefficient energy converters ever invented. Crookes's radiometer relied on the mechanical interaction between light particles and matter. Tesla had discovered through his own work with radiant energy lamps that there was a subtler link between matter and light which would prove more efficient; this link was electricity.

The link between the electrical force and light had been theorised by Maxwell, while such scientists as Crookes and Lord Kelvin had extensively investigated the electrical nature of matter. Tesla now intended to bring these two together to form a simple yet useful technology.

US patents nos. 685,957 and 685,958 describe Tesla's apparatus for receiving radiant energy from the natural medium. A capacitor is connected to earth via a metal conductor inserted into the ground. The other terminal of the capacitor is connected to a metal plate of large surface area and raised high off the ground. While the plate is continuously being bombarded by radiant energy, it becomes electrically charged. This charge is then stored in the capacitor as it tries to find a path to ground. Across the capacitor there is a switching mechanism and the load that is to be powered. The switching mechanism periodically discharges the capacitor's energy into the load, turning the radiant energy into usable DC electricity.

It is not known if Tesla ever tested this invention, although he does allude to the fact that it had been tested in principle. It is more likely that he developed it along the lines of his particle beam device or death ray.

Specifically, he had developed a means of transmitting electrical energy via a particle beam; this was probably the energy receiver he was intending to use. This application of the radiant energy receiver is clearly cited in his patent, which explores the use of both ionising radiation, such as ultraviolet and X-rays, and particle beams, referred to as *Lenard rays*.

To employ this apparatus to utilise naturally occurring radiant energy would require an elevated metal plate of such a large surface area as to render it impractical. The principle behind Tesla's radiant energy receiver is well founded, as most people who own a car will have felt the effect. On a hot summer's day, most at some point will have received an electrostatic shock when they open the car door. This is because naturally occurring radiant energy accumulates an electrical charge on the large surface area of the car body. This charge does not leak away, as the car body is well insulated from the ground by the insulating tyres. It is only when an earthed object, such as an unsuspecting driver, approaches it that the charge instantaneously discharges to ground, hence the shock.

FORMS OF RADIANT ENERGY

At this point it may be worth explaining exactly what radiant energy is and how it is naturally generated. Basically, radiant energy can come in one of two different forms: electromagnetic waves or streams of high-velocity particles. In practice, it is only electromagnetic waves in the ultraviolet band and higher, or electrically charged particles such as ions, protons, electrons and some of the other more exotic members of the quantum zoo.

A ray of radiant energy can make many transitions as it passes through space and interacts with ambient matter. Atoms, the building blocks of physical matter, are composed of a positively charged nucleus surrounded by negatively charged electrons. Normally there are enough electrons to balance out the positive charge of the nucleus, thus forming an electrically neutral atom. If, however, an electron is removed from the atom, then an imbalance of electrical charge will be created, making the atom positively charged; the atom is now an ion. If this occurs throughout the majority of atoms in a gas, then the gas becomes what is known as *plasma*.

Any mechanism that removes electrons from their parent atoms can cause the ionisation of matter. This is a characteristic of all usable radiant energy. High-velocity particles can impart some of their momentum onto the orbiting electrons of atoms; this tends to give the electrons enough energy to break away from their parent nuclei.

The link between the electrical force and light had been theorised by Maxwell, while such scientists as Crookes and Lord Kelvin had extensively investigated the electrical nature of matter.

Among the most common interactions are those involving light particles, or photons. When a photon enters an atom, it imparts some of its energy onto an orbiting electron. If the energy is comparatively small, then the electron will simply jump to a higher orbit but still remain coupled to the nucleus. After a small period of time, the electron will return to its original orbit by emitting a photon to dispose of the excess energy. This is the mechanism behind the operation of a laser.

Electromagnetic waves or photons can only cause the ionisation of matter at wavelengths much shorter than those of visible light. It is only photons in the ultraviolet band and higher that have enough energy to

cause electrons to be liberated from their parent nuclei. This effect is known as the *photoelectric effect*, where a metal conductor manages to gain and lose charge when exposed to electromagnetic radiation. Its theoretical explanation won Albert Einstein the Nobel Prize several years later, yet Tesla had already utilised the effect as described. At wavelengths in the X-ray and gamma ray bands, the photons have enough energy to cause the multiple ionisation of atoms as they pass through matter; it is this that makes them so dangerous. Higher still in the electromagnetic spectrum there are wavelengths that are even more energetic, holding such a quantum punch that they are able to cause the complete breakdown of atomic structure. These are known as *cosmic rays*.

If the energy imparted onto an electron is great enough, the electron may not only break away from the nucleus but also have sufficient energy to cause the ionisation of another atom. This is known as *secondary emission*, and it plays a major role in most plasma formations. As electrons and other charged particles can be accelerated by electric fields, it is possible to cause the liberation of electrons, or ionisation, through electricity. This can be done in one of two ways: either an intense electric field is made to pass through the matter to be ionised; or a charged particle stream is accelerated to high velocities, via an electric field, before being made to strike the target matter. The latter process is the basis of Tesla's death ray and other particle beam weapons.

Tesla's radiant energy receiver, as described above, was designed specifically to intercept high-energy particles from outer

space; the connection to earth gave the capacitor the necessary electronegative charge. To derive energy from ionising electromagnetic radiation (i.e., employing the photoelectric effect), this requires an electropositive charge from an artificial source such as a battery. Even though a battery is used, it never discharges, and so the apparatus remains a free energy device.

Tesla cited the Sun as the main source of radiant energy to be received by his free energy apparatus; however, he did not think it was the only source, for he stated that the apparatus operated as well at night as it did during the day. The Sun is no less than a giant hydrogen bomb whose instantaneous detonation is taking 10 billion years. This mass of nuclear fire emits a vast sea of charged particles and ionising radiation, from ultraviolet through to high-energy cosmic rays.

However, in the depths of the universe there are other processes taking place that produce radiant energy of such great magnitude that they simply bullet through the planet. Collapsing stars perhaps make up for the greater part of this energy; burning their last few billion tonnes of fuel, they collapse, emitting vast amounts of radiant energy. The inverse square law prevents us from being destroyed by the intensity of this radiation, but the individual particles still reach us. They literally pass through the Earth, ionising any atom that stands in their path; in fact, in most cases the atoms are completely obliterated.

A single photon of cosmic radiation can travel across the vast stretches of space and strike our atmosphere, causing a massive burst of high-energy, charged particles. Megawatts of electrical power are poured into particle accelerators to try to witness this sort of energy in an instant, but this is nothing compared to the energy received from massive bodies collapsing several hundred light years away.

It is these rays that appear in the night, and which Tesla wanted to harness through his free energy receiver. However, it was to be another pioneering individual who would find the true secret behind the harnessing of this cosmic energy: Dr Thomas Henry Moray (1892–1972).

MORAY'S RADIANT ENERGY RECEIVER

The story of T. Henry Moray is one of deceit and suppression, but also of a marvellous discovery that remains a secret to this day. Moray was born, raised and lived most of his life in the vicinity of Salt Lake City, Utah, USA. Born into a Mormon family, his mother Swedish and his father Irish, he grew up learning the ways of the Latter Day Saints.

From an early age he was interested in all things electrical, and he hoped to steer his future career in this direction. However, his mother did not agree with his ambitions and preferred him to take up a profession in the world of business. So when he left school, he enrolled in a business course held at the old Latter Day Saints College. At the same time, he managed to study electrical engineering to some extent by correspondence. Armed with his qualifications in business and basic electrical engineering, Henry Moray bought with some of the family's remaining money a share in the Independent Electrical Company. Initially it looked a good deal in which he had a controlling position, but due to the dishonesty of others the deal collapsed and all the money was lost.

In 1912, Moray was sent to Sweden to do missionary work on behalf of the Latter Day Saints. While there, he was able to com-

plete a doctorate in electrical engineering, through examination, at the University of Uppsala. After returning from Sweden in 1914, Moray managed to secure several engineering positions, and during this time he married Ella Ryser. However, while working on a special project involving interference on telephone lines, Moray had a serious accident that greatly impaired his vision. Without compensation from the company involved, and being partially incapacitated, Moray had financial difficulties in the years following 1921. He eventually found a talent in chicken farming around 1923, a business that he found very lucrative as he specialised in rare breeds of poultry. This situation allowed him more time to developing his radiant energy apparatus.

Moray started his investigations into radiant energy in his early adult life, and carried on developing the technology up until his last remaining years. He faced much suppression and deceit while he tried giving his invention to the world. Around 1929 he started to demonstrate his device publicly to individuals from scientific and commercial backgrounds. The device in question was only a seed of what he was later to develop, yet right away he faced opposition. The individuals concerned either wanted the radiant energy technology or wanted to stop its development; either way, they made Moray's life very difficult. There were

some who honestly wanted to help him in his goal, but most of them were frightened off in one way or another. His workshop and home were often broken into, and on one occasion his equipment was destroyed. Both he and his family received threatening phone calls and later were even shot at. In the end, Moray was forced to have his car fitted with bulletproof glass and to carry a pistol.

Moray gave thorough demonstrations, showing the assembled engineers, scientists and industrialists the inside of the radiant energy device in

its entirety. He also showed them diagrams and allowed them to suggest any particular experiment to prove the authenticity of what he was presenting. Most went away amazed, proclaiming that Moray had discovered something unique and of great importance.

He was promised many contracts to help develop the technology further (including one from NASA in 1961), but they always seemed to fall through because of intervention from a third party. On one occasion he was offered help from the Russian Government, but for some strange reason he found himself meeting the representative in the main Washington office of General Electric. This sort of thing happened quite often: industrialists giving Moray the run-around with cloak-and-dagger tactics.

There is no doubt that the radiant energy device worked. The testimony of various individuals who observed it first hand, as well as the drastic actions carried out against Moray, are proof enough to encourage one to investigate the technology further.

The actual device appears to be as strange and elusive in detail as the science upon which it was developed. Moray's discovery was by no means a product of accident but, instead, of a search for what he felt intuitively existed: a limitless source of energy coming from or to the planet. It certainly was not the first, nor would it be the last, but Moray's work stands as a milestone in the search for free energy.

Originally Moray felt that this energy came directly from the Earth and that it could be tapped from the ground. So his first

**Tesla cited the Sun as the
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insights developed from a simple set-up: namely, a long wire aerial and a stake in the ground. With this, he was able to listen into the subtle pulsations of the Earth. However, this was nowhere near his dream of tapping into a sea of energy.

Initially he thought that the energy he was listening to was electrostatic—a product of the Earth's movement of charge between the ground and the atmosphere, a flow of charge equal to 1,800 amperes. However, Moray soon came to the conclusion that the energy was oscillatory and not electrostatic in nature. Not only this, but he discovered that the energy was not coming *from* the Earth but *to* it, for it was cosmic in origin.

The Swedish Stone Circuit

This new direction led to investigations that were based upon the principles of the crystal set, one of the earliest forms of radio receiver. In these bygone radio sets, a piece of crystal, usually galena (lead sulphide ore), was used to turn the RF energy into audio-frequency electrical currents; that is, they extracted the broadcast from the radiowave. Moray focused his attention on the crystal component of his apparatus. He searched for the best crystallized crystal set.

It was not until he was sent on a mission to Sweden by his Mormon brethren that he finally found what he was looking for. In his notebook, in an entry dated 1 November 1913, Moray wrote:

...obtained material from a railroad car at Abisco, Sweden, the previous summer and material from the side of a hill ... this soft, white stone-like substance might make a good valve detector.

Moray often referred to certain components of the radiant energy device as *valves*. This was because he felt that his device did not capture energy but, rather, acted as a pump. It would be like saying that a water pump redirects the flow of water, while a bucket captures it. Moray's device merely redirected the flow of energy through a load so that it could be made use of; after that it would return to where it originated. Specifically there is a continuous flow of energy between the planet and the rest of the cosmos, and Moray only wanted to dip his "water wheel" into this massive torrent of flowing energy—the primary principle behind the radiant energy receiver. So, like a water pump, the apparatus required valves to open and close in the process of redirecting this flow; the detector valve was such a component.

In another notebook entry, dated 13 November 1913, he wrote: ...time early this morning to test the stone again. Hard to buy any wire and stuff to make coils. Used cardboard tube to work on. Batteries of no help in priming. Got hard rubber Widstens from Wilsons, and bought some silk and pure wool cloth to use as static generator. Got some red sealing wax and tried to make a vacuum tube, but no luck. Silver wire used on stone makes a rectifier.

From this one entry it is possible to glean a lot of information regarding what was to become Moray's greatest secret. The "Swedish Stone" was the very heart of the radiant energy device and constituted the simplest free energy device in its own right.

In a traditional galena detector, the crystal is held in place by a conducting mount. The other connection to the crystal is made

via a silver wire (known as a "cat's whisker"). This silver wire is then slowly moved over the crystal surface in search of a single point where rectification will occur.

Another comment noted is that a battery was of no use in priming the stone; also, there is mention of a static generator. Some crystals (like silicon carbide) required a small voltage across them, typically up to 3 volts, to enable them to operate correctly as detectors; this voltage was often supplied by a battery. In later years when Moray gave demonstrations of his device, he would often have to "prime" the apparatus with an electrostatic generator. It appears, then, that a high voltage had to be applied to the stone to make it operate. As a battery was ineffective in doing this, yet a static generator was ideal, this leads one to conclude that a high-voltage, low-current source was required in the process of priming.

Most crystal sets have the ability to receive radio broadcasts without the need of an external power source—unlike modern radio receivers which require a battery. However, with a crystal set you must use high-impedance headphones to listen in to radio stations, as the amount of energy received is extremely small and

there is certainly not enough power to drive a loudspeaker. When Moray constructed his own crystal set using the Swedish Stone as a detector, not only was he able to drive a loudspeaker directly but with some further modifications he could draw enough energy to power a miniature arc lamp.

Also mentioned was the need of a vacuum, a requirement not usually associated with ordinary galena crystal detectors. The electrical current that was generated by Moray's device was of high frequency and high

potential. Such currents are known for their characteristic corona discharge around an open terminal. This form of electrical discharge is considered a loss and best stopped. One of the best ways of reducing this effect is by removing the air from around the terminal, i.e., contain it within an evacuated chamber. In the case of Moray's Swedish Stone detector, the point contact formed by the silver wire and the surface of the stone may have had a substantial amount of corona discharge, in the way of a small violet glow around the wire. This is probably the reason why the crystal detector was held within an evacuated tube.

While galena detectors are placed in series with a tuned parallel LC (coil-capacitor) circuit and high-impedance headphones, the Swedish Stone detector was often connected in parallel. From an electrical point of view, this is unusual. The parallel LC circuit is tuned into the frequency of the radiowaves to be received, and the galena crystal then simply blocks this current on one of its reversals. This is *rectification*, the principle behind a normal crystal set. In the case of Moray's apparatus, the Swedish Stone appears to do more than simply rectify the radiofrequency energy, considering its place in the circuit. Moray may again be able to shed some light on this. In his book, *The Sea of Energy in which the Earth Floats*, Moray makes the following statement:

The electric motor and generator would never have been discovered if a dielectric (insulation) had not been discovered. If one discovers a dielectric valve for the energy of the universe and a means of making this device

Not only this, but he [Moray] discovered that the energy was not coming *from* the Earth but *to* it, for it was cosmic in origin.

Continued on page 87

OBSCURE EXPERIMENTS WITH THE BLUEPRINTS OF LIFE

by John Mount © 2000

Professor John Tyndall (1820–1893), the noted British physicist whose forte was molecular physics, acoustics and heat radiation, performed a little-known experiment in the late 1800s.

Tyndall filled an experimental glass tube with the vapours of certain acids, iodides and nitrites. The tube was then turned on its side in a level horizontal position, and so arranged that the axis of the tube and parallel concentrated beams of electric light or focused sunlight were coincident. Adjustments were made to the focus until the vapours began to react.

Gradually, and to Tyndall's astonishment, these clouds of vapour began to coalesce, forming into coloured three-dimensional images of animals, plants and other shapes including geometric patterns of spheres, cubes and pyramids. At one stage during the experiment, Tyndall was amazed to see the swirling clouds suddenly change into the shape of a "serpent's head", and as the serpent's mouth slowly opened a long tendril of cloud emerged, forming into a perfectly shaped tongue. No sooner had this image faded than it was immediately replaced by another, this time of a perfectly formed fish complete with gills, feelers, scales and eyes.

Tyndall, commenting on the "completeness" of this figure, said:

The twoness of the animal form was displayed throughout, and no disc, coil or speck existed on one side [of the figure] that did not exist on the other.

This "twoness", as Tyndall put it, could lend some credibility to the experiment. The fact that every "twin" detail of an image is faithfully reproduced, i.e., both eyes, both ears, etc., suggests that the image is being purposely generated and is not just a coincidental occurrence like watching the clouds in the sky form rough caricatures of known objects.

Regarding the "focusing" of the beams, is it possible that, once the knack of "tuning" the beams of light had been mastered, certain images might then be pre-selected at will?

Tyndall's detractors had a field day. They pointed out that the phenomenon could easily be explained by the mechanical action of a beam of light, which would normally stir up molecules of vapour into certain shapes like globes and spindles—a

Tyndall, it must be realised, was a scientist of some repute, a Fellow and Director of the Royal Institute, President of the British Association, and disciple and confidant of Michael Faraday.

process which they said was recently demonstrated by the physicist Sir William Crookes.

Yet they omitted to mention the precisely shaped images of flowers, vases, seashells, fish, the serpent's head and a number of other forms that Tyndall's experiment produced.

Did Tyndall's own thoughts physically interfere with the experiment, or do the vapours of certain chemicals have a propensity to form images? No one at this point in time seems to know.

Tyndall, it must be realised, was a scientist of some repute, a Fellow and Director of the Royal Institute, President of the British Association, and disciple and confidant of Michael Faraday. He was a modest and charitable man, according to his peers, and his research work, writings and lectures were greatly appreciated by the scientific community. Not the sort of fellow who was wont to seeing things that weren't really there.

Another experiment sounding very similar to Tyndall's was performed by Sir Thomas Browne, a 17th-century physician and author. Browne called it, amongst other things, "Palingenesis...the re-individuality of an incinerated plant".

Browne, after reducing a plant to ashes by calcination, separated the salts from the ashes and after "special fermentation" placed the salts in a glass vial. He then made the following observations:

...by the heate of embers, or the natural heate of one's body, the very forme and idea [of the plant] will bee represented; whiche will suddenly vanish away, the heate being withdrawn from the bottom of the glasse.

A witness described the experiment as it was being performed on a flower:

...having...by calcination disengaged the salts from its ashes and deposited them [the salts] in a glass phial, a chemical mixture [reaction] acted on it, till in the fermentation they assumed a bluish and spectral hue. This dust, thus excited by heat, shoots upward into its primitive forms; by sympathy the parts unite and, while each is returning to its destined place, we see distinctly the stalk, the leaves and the flower arise; it is the pale spectre of a flower coming slowly forth from its ashes. The heat passes away, the magical scene declines, till the whole matter again precipitates itself into the chaos at the bottom. This vegetable phoenix thus lies concealed in its cold ashes.

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Shades of Semyon Kirlian! Talk about photographing phantom leaves and limbs!

Imagine the revolution these experiments could cause in modern science. These experiments, if proved true, could present the unique possibility of being able to view nature's storehouse of "bio-blueprints" or "life ideas" before (and after) she clothes them in flesh.

Take forensic medicine, for example; burnt evidence could be visually resurrected. And in archaeology, those old ashes and coals of burnt remains could show us how the people actually lived (and died). And would the skin or bone samples of Egyptian mummies and other ancient people properly treated allow us to gaze once more on the finely chiselled features of beautiful Nefertiti, or see again that Hellenic smile that once launched a thousand ships?

Another interesting experiment, similar in some respects to those mentioned above (but not politically correct by today's animal welfare standards), was performed during the 1940s using the Wilson expansion cloud chamber. This chamber, which is filled with a gas or vapour (usually water vapour), is normally used to track the path of atomic and sub-atomic particles.

Dr R. A. Watters, director of the William Bernard Johnston Foundation for Psychological Research in Reno, Nevada, theorised that the human or animal soul

exists in the "intra-atomic space between the atoms of human cells". He decided to test his theory using the cloud chamber.

A large grasshopper was placed in the chamber and dispatched with ether. At the precise moment of death, expansion of the water vapour occurred, which in turn trig-

What other potentially world-shaking discoveries lie concealed and forgotten in dusty tomes, sitting in equally dusty, out-of-the-way bookshops and libraries?

gered a camera and a photograph was taken of the condensation figure. In all, around 40 experiments were carried out using frogs and white mice. According to Watters, in all the tests where the creature permanently died, a "shadow phenomenon" appeared in the chamber, even after eight hours of observation, coinciding with the shape of the creature. However, if the animal revived, no condensation figure would appear on the photograph.

Did Watters photograph the soul of those creatures? Is the soul more easily captured

on film as it is leaving its body (with some small amount of the material world still clinging to it) than some time afterwards?

A brief, tantalising account of a French scientist's experiments clearly shows how easily momentous discoveries can be made and then how, just as easily, they can fade into obscurity.

In 1856, Dr Jobard of Paris declared to a startled press:

I hold a discovery which frightens me. There are two kinds of electricity; one, brute and blind, is produced by the contact of metals and acids; the other is intelligent and clairvoyant. The brute [one] ...has followed Jacobii, Bonelli and Moncal, while the intellectual one was following Bois-Robert, Thilorier and Chevalier Duplanty.

The electrical ball or globular electricity [ball lightning?] contains a thought which disobeys Newton [gravity?] and Mariotte [?] to follow its own freaks ... we have in the annals of the academy thousands of proofs of the intelligence of the electric bolt...but I remark that I am permitting myself to become indiscreet. A little more and I would have disclosed to you the key which is about to discover to us the universal spirit.

What other potentially world-shaking discoveries lie concealed and forgotten in dusty tomes sitting in equally dusty, out-of-the-way bookshops and libraries? ∞

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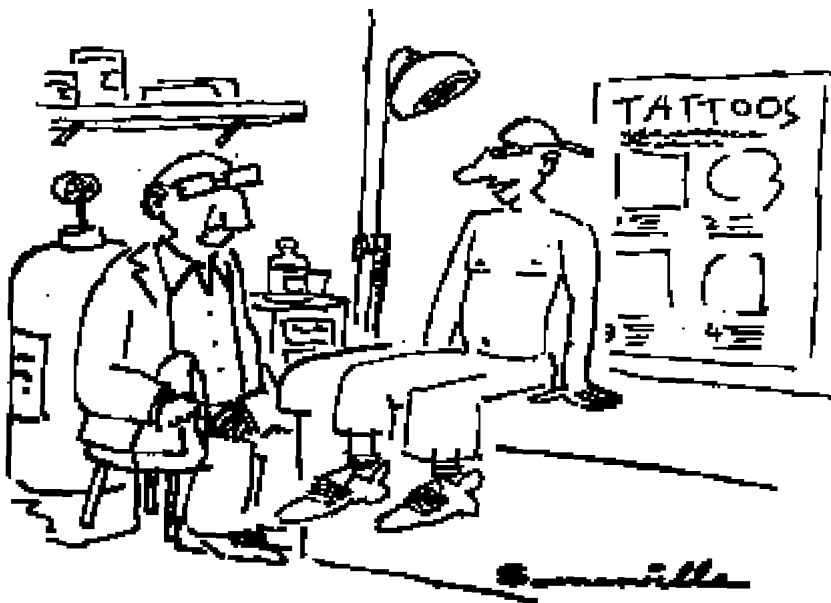
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"What transnational corporate logos do you do?"

A UNIFIED THEORY OF PHYSICS FROM THE 18TH CENTURY

by R. J. Anderton © 2001

Roger Boscovich (born in Dubrovnik, Yugoslavia, on 18 May 1711, and died in Milan, Italy, on 13 February 1797) had a career that is an anachronism in the history of science.¹ Physics in general at the time took its lead from Newton, and Boscovich's idiosyncrasy led him to take the opposite track to the majority.² Whenever words like "anachronism" are used, this means something strange is happening; it is a word sometimes used to describe Tesla, who seemed far ahead of his time. Boscovich is another example of a person far ahead of his time.

In a book written for the 250th anniversary of his birth, Boscovich is described as combining what we would now call relativistic ideas with quantum theory. The book, edited by Lancelot Law Whyte, admits that Boscovich had a unified theory of physics that combined the macroscopic scale with the microscopic.³

How can a unified physics theory be overlooked by mainstream physics? The answers are many and varied but, essentially, 20th-century physics has moved on from the ideas that Boscovich was dealing with.

The development of quantum mechanics from 1925, by Heisenberg, Bohr and company, made Boscovich and his theories seem irrelevant to the mainstream history of physics, and he and his ideas were thus omitted from orthodox science history.

The Whyte book admits that Boscovich had a unified physics theory, but says it is wrong.⁴ No clear reasoning is given as to why Boscovich's theory is wrong; the book just seems to assume that Boscovich's theory is wrong because it is not based upon the same quantum theory that was developed from the events of 1925–26.⁵

Interestingly, Einstein kept insisting that the theory of 1925–26 was wrong. He summed up his position in his book, *Out of My Later Years*:⁶

...in my opinion, the quantum theory [of 1925–26] does not seem likely to be able to produce a usable foundation for physics: one becomes involved in contradictions if one tries to consider the theoretical quantum description as a complete description of the individual physical system or happening.

It is well known that the theory of gener-

al relativity does not combine with quantum mechanics, as has often been pointed out by professors such as Hawking and Penrose.⁷ Maybe it would be a good idea to look at an earlier theory, dismissed by the mainstream physics community, that had its own version of quantum theory.

Only philosophers—not scientists—now

I was shocked to find Boscovich describing what we would today call "superstring theory" ...

bother to look at Boscovich, and the philosophers do not know what they are looking at. I was shocked to find Boscovich describing what we would today call "superstring theory", but he did not have the technical words that we have since developed in the past 200 years and was thus struggling to describe his theory.

Boscovich starts with talking about "physical point particles" which he called "puncta".⁸ He then goes on to define several other features, saying what is now interpreted as "the fields of elementary particles

have associated with them a length which appears in certain respects as a minimum; this is often loosely called 'the radius of the particle'". In effect, Boscovich was saying: "Treat all finite radii as properties not of single constituent entities, but of the laws of two-body interactions." As pointed out by Whyte, this suggests that physics should stop associating radii with single particles and only consider interacting pairs or sets;⁹ in other words, physics based on a "perfectly indivisible and non-extended point", treated as a quasi-material persisting centre of interaction.¹⁰

All of Boscovich's puncta are identical, so that the "mass" of any composite body is simply the number of puncta in it (actions being additive). Whyte says in his book that "this is an ordinary number which can be counted, not a dimensional quantity which must be measured in terms of extended units, like space or time".¹¹ I think

Whyte is in error here. But he makes amends when he says: "Boscovich, writing in Latin more than a century before the theory of dimensions was developed, could not say 'my theory is kinematic, everything being derived from spatio-temporal relations, not mechanical like Newton's'."¹²

A kinematic theory means a theory based on motion considered abstractly without reference to force or mass. Boscovich was trying to describe such a theory, and did not have the words; these did not come into existence until after his death.



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His theory involved eliminating Newtonian mass as a primary quantity and substituting a kinematic basis.¹³ This means he was treating mass in the same way as Minkowski treated time in Einstein's theory. We now talk of four-dimensional space-time. Boscovich was treating mass as another dimension to go alongside space and time. Wesson in 1990 discussed treating mass in this manner.¹⁴

Boscovich is thus presenting us with an interesting idea. He is starting with a theory that has puncta (point particles), and then extending the theory to a wider theory that has bi-punctas (two point-objects joined together). In the "wider" theory, punctas or points by themselves do not exist; instead, bi-punctas exist. By treating space, time and mass as dimensions, then each point is defined by five dimensions, so the bi-puncta is defined by 10 dimensions. And with two points we can define a line: a one dimensional object.

So, Boscovich had a 10-dimensional theory built on fundamental objects we would now call "strings", which today is called superstring theory. These bi-punctas of Boscovich are thus foreshadowing the idea of strings. We have a natural progression from classical theory development through Boscovich, an idea that is a modern contender for a "theory of everything".

But modern physicists claim that the unification of physics is very difficult; they have not been able to achieve it. I am now convinced that Einstein is right: the quantum theory of 1925 is wrong, and physicists have been trying to combine the

wrong quantum theory. I am further convinced that Boscovich achieved unification of physics in the 18th century.

Modern physicists are looking for a much more complicated theory than that which Boscovich was describing.

We have a natural progression from classical theory development through Boscovich, an idea that is a modern contender for a "theory of everything".

So, how can a simpler theory be the answer? Well, let me explain with a few quotes.

According to Einstein:¹⁵

Most of the fundamental ideas of science are essentially simple, and may,

as a rule, be expressed in a language comprehensible to everyone.

Werner Heisenberg says something similar:¹⁶

Even for a physicist, the description, in plain language, will be a criterion of the degree of understanding that has been reached.

The simplicity of Boscovich's theory fulfills the criteria of Einstein and Heisenberg. I was easily able to describe it in a few words in this article.

Erwin Schrödinger agrees with Einstein and Heisenberg on the "simplicity" matter:¹⁷

If you cannot—in the long run—tell everyone what you have been doing, your doing has been worthless.

Now compare the complexity of modern physics based on quantum mechanics of 1925, with Boscovich's theory of the 18th century, and ask yourself which theory is easier to understand. I will give you a clue: Feynman—possibly the greatest physicist since Einstein—admits that no-one understands modern physics.¹⁸

The choice is between a 20th-century theory that no-one understands, and an 18th-century theory that has been discarded. I am convinced that the 18th-century theory wins the contest, hence the numerous problems we are experiencing in the 20th century, as highlighted in NEXUS Magazine. No-one properly understands the technology we are using. ∞

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A CENTRAL ASIAN CIVILISATION AS ANCIENT AS SUMERIA

*The collapse of the
Iron Curtain means
that many ancient
ruins are finally
being examined by
Western
archaeologists.*

*The lost city at
Anau could spark a
radical rethink of
history.*

Interview with
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A large, sophisticated civilisation equal to Sumeria and Mesopotamia, and thriving at the same time at least 5,000 years ago, was lost in the harsh desert sands near the Iran and Afghanistan borders. But now details are beginning to emerge.

At the beginning of May, I visited and interviewed archaeologist Fredrik Talmage Hiebert, PhD, Professor of Anthropology at the University of Pennsylvania Museum of Archaeology and Anthropology and Assistant Curator of Near Eastern Archaeology. There he has some exquisite pottery shards, which the Russian government permitted him to bring back to the United States from his recent excavations in the Kara Kum desert of Turkmenistan and Uzbekistan on the Iran and Afghanistan borders.

No American archaeologist had been there since 1904 when New Hampshire archaeologist and geologist Raphael Pumpelly discovered ancient ruins at Anau in southern Turkmenistan near Iran. But the Soviets did not develop the Anau site. In the 1970s, Soviet archaeologists working west of Afghanistan reported vast ruins, all built with the same distinct pattern of a central building surrounded by a series of walls. Several hundred were found in Bactria and Margiana on the border that separates Afghanistan from Turkmenistan and Uzbekistan. But nothing was reported beyond a few Soviet journals that were never translated.

Then in 1988, after the collapse of the Soviet Union, Dr Hiebert first received permission to travel to Anau. He has discovered it is about 2,000 years older than the Bactria and Margiana sites further to the east, going back nearly 7,000 years to at least 4500 BC, or the Bronze Age. The oldest shards from there are of high craftsmanship, and this past summer Dr Hiebert found a black rock carved with red-coloured symbols that to date are unidentified but considered to be evidence of a literacy independent of Mesopotamia. The discovery is revolutionary to earlier academic thought that Sumeria was the first civilisation with a written language. Since this interview, Dr Hiebert will have presented his findings at an international meeting on language and archaeology at Harvard on 12 May 2001. The text of my interview with Prof. Hiebert follows.

Prof. Fredrik Talmage Hiebert, PhD: Our work joins Mesopotamia and Sumeria in being one of the world's civilisations in an area we hadn't previously expected to find civilisation. This is far to the north of the cities of ancient Mesopotamia, Iran and even north of the ancient cities of the Indus civilisation. This is in an area that was formerly part of the Soviet Union, so most Western scholars did not have access to this area.

Then this last year, during my excavations of June and July 2000, we came across a wonderful discovery: an inscribed stamp seal dated to about 2300 BC that clearly has symbols on it. These symbols looked to us like writing. We looked around at all the different systems in the area. Was it ancient Mesopotamian? Was it ancient Iranian or ancient Indus? We even asked our Chinese scholars if it was ancient Chinese. And it was none of these.

So, we are proposing that this one single stamp seal is the first ever evidence we have of writing among the cities of Central Asia that were found by our Soviet, now Russian, colleagues, and now where we are working as well. In other words, it's not just a linking area of the centres of civilisation. But it now contains characteristics of ancient civilisations itself: cities, monumental architecture, a very elite society such as kings and courts, and now some form of literacy or writing system. This is very important because what it



Large (150 x 150 metres) fortified building complex dated to at least 1800 BC, in the Kara Kum desert of Central Asia at Margiana, Turkmenistan, near the Afghanistan border.
(Photograph courtesy Prof. Fredrik T. Hiebert, University of Pennsylvania, USA)

means is that we can rewrite the history books about the ancient world. We are not really looking at separate, individually developing civilisations that weren't in contact with each other or didn't know about each other. It seems quite clear that this new piece of the puzzle suggests there was a broad mosaic of cultures that knew about each other and seemed to be growing in relationship with each other. This is the importance of our work.

Linda Moulton Howe (LMH): How did you specifically date that seal that has the symbols?

Prof. Hiebert: The way archaeologists would date such a single find like that would be to identify what level exactly it came from in the excavation. And in this case, we were very lucky. It was lying on the floor of a building and it was actually stratified between different floors. And on the floor of that particular building, we found some charcoal. And charcoal allows us to radiocarbon-date that level. We had four radiocarbon dates that allowed



Map drawn by Ardeth Abrams.

us to clearly say it was 2300 BC [4,300 years ago] that the charcoal was deposited [where the rock seal was found].

LMH: All of this seems to be pushing back our benchmark for the beginning of civilisation because you have to have an evolutionary arc to get up to 5,000 to 7,000 years ago with full-blown civilisation.

Prof. Hiebert: Yes, and one of the methods we use in excavating is what we call "stratigraphic excavations", where we do very-small-sized excavations which are very deep. And these small-sized excavations allow us to compare the development in an open site through time. At our site in Central Asia, called Anau, just across the Iranian border in the modern state of Turkmenistan, we've documented almost continuous growth of the culture in this area for at least 6,500 years. And that goes all the way

back to the earliest farmers we have in the area.

And what's unique and special is it's clear to see that they used the same forms of farming and herding in Central Asia as did the ancient Mesopotamian people. So, we've got clear evidence for the interaction and the co-development of farming levels in Central Asia, just as in Mesopotamia. So, we are looking at a part of the world, even though it had been forgotten by Western scholars, which really takes its place as a partner in the development from the first farmers about 10,000 years ago, up to early villagers when we see the beginning of our settlement at Anau in Turkmenistan c. 4500 BC, all the way through to the development of these large cities that we are finding out in the deserts. And I am quite convinced that 5,000 years ago an ancient Sumerian would have some understanding of what a Central Asian was or what Central Asian artifacts were, and vice versa.

LMH: How big is the site now, so far, that you have excavated?

Prof. Hiebert: We've been looking at some of these large desert oasis sites in part of the Kara Kum desert of Turkmenistan, which cover an area of 100 miles long by some 50 miles wide [161 by 80.5 km]. This is an area that is simply dotted with archaeological sites. We call this an "ancient oasis". It would have been an area watered in the past with irrigation canals and would have been a lush agricultural oasis where farming would have produced an abundance of wheat and barley.

Today it's sandy. The sites are almost gone. It takes excavation to reveal the plans of these buildings. Once the buildings are excavated, we see they are unlike any other area that we have previously worked in Mesopotamia or Iran. These buildings tend to be in the 300 to 500 foot [91.4 to 152.4 m] length on each side, often having many series of walls that enclose them, surrounded by the fields, the agricultural fields. It's almost like a building complex with dozens and dozens of rooms inside them. Quite unusual, and apparently quite an organised society.

LMH: That sounds like it would support a large population. Do you have any sense of the number of people, and what was the water source? Were there any wells underground or any kind of nearby river source?

Prof. Hiebert: It's really hard to predict how many people would live in a particular building or how long a building was occupied, whether people were living in one part and then another part. It seems that these large building complexes would support hundreds of people; probably not thousands. They are not as big as a traditional ancient city, but their organisation and the density of rooms in them suggest it would be a fairly large population for that area.

About the water source. Clearly, water was the key to life out in the middle of the desert. And the only way that people could have lived out there is if they took a local river—and there were rivers that ran out into the desert—and modify the delta of the river. In other words, where the river snakes out into the desert, rather than letting it form a giant jungle morass of thickets, the people must have cut down the thickets and cleared irrigation canals. Once they did that, they took that desert oasis and made it bloom. Can you imagine that, 4,000 years ago, making a desert bloom?

LMH: Well, it happened in Egypt along the Nile.

Prof. Hiebert: It certainly did. And in many ways, these Central Asian desert oases are like the Nile, in which you could have one foot in a lush oasis and one foot in the sand right at the edge.



This small (1.3 x 1.4 cm) shiny black jet stone, carved with an inscription emphasised with a reddish pigment, was found at the Anau site in June 2000 by Professor Hiebert; it was in a layer of charcoal carbon dated at 2300 BC. (Photograph courtesy Prof. Fredrik T. Hiebert)



Professor Fredrik Hiebert, holding oldest ceramic pottery shard dated around 3500 BC from the Anau, Turkmenistan, archaeological site. Another Turkmenistan shard near his hand is a 15th-century AD blue-and-white copy of a traditional Chinese pattern. Centre is a jagged cylindrical vase dated to around 2500 BC. Next to it is a delicate, well-preserved vase, also dated to 2500 BC. On the silk square is the carved "bone tube", circa 2000 BC. (Photograph by Linda Moulton Howe)

LMH: And it sounds as if this was happening in Mesopotamia, Egypt, Central Asia, all at the same time, all back much further than anyone ever realised.

Prof. Hiebert: Yes. One of the things that intrigues us all is to imagine a system that we had previously thought may have existed only 2,000 years ago when the Romans were in power in the Mediterranean and the Han Dynasty was the great imperial power in China. Now we are pushing that back thousands of years earlier than that, into the Bronze Age. One of our questions is about how much trade was going on among them. Was there actually a Bronze Age Silk Road, a 4,000-year-old Silk Road? I don't think we're yet able to answer that, but we can talk about the importance of these desert oases as a pre-Silk Road civilisation.

LMH: Now, on the table with us, it almost looks as if I am looking at delft china. How did this blue and white, delicate pattern come to be in Central Asia along with these other pieces? What are we looking at? How old is it and where did you find it?

Prof. Hiebert: On the table in front of us is a series of pottery shards. A pottery shard is a part of a pot that was broken. These pottery shards are the best thing we have in archaeology because when the pots are broken, people throw them away. These are the remains we find most commonly on the dig. So I have a selection of ceramic shards which represent the time-scale we have from Central Asia.

The first piece we have is the blue and white ceramic that has a bird or dragon on it and these curly designs that do remind us of delft ceramics. This is a 15th-century AD Silk Road pot. It would have been locally made, but it would have been made in imitation of Chinese blue and white. And what's interesting about this is that in Central Asia they were making imitations of Chinese blue and white. And in Europe they were also making imitations of Chinese blue and white. It was sort of the Coca-Cola signature of the past.

Moving on chronologically, we turn to another well-made pot. It's so thin [he knocks on it], you can hear how finely made it is.

LMH: Only an eighth of an inch [3.2 mm] thick.

Prof. Hiebert: Yes, this is a piece that is about 4,500 years old [2500 BC], about 4,000 years earlier than the blue and white ceramic. Incredibly well made. It was obviously done by a master craftsman potter. This was made up in the desert oasis of Turkmenistan and it reflects a certain style that the people had. They didn't paint their pottery. You might think that had to do with the technology of the time, but in fact it was their style not to paint their pottery. It's quite nicely made. It's sort of buff on top, and on the bottom it's red. They distinctly and purposefully did that. All of their ceramics from Central Asia are fine from this time period, and it reflects the high level of crafts they had in the area.

Then we move on to three artifacts; not pottery, but metal and bone artifacts dated to about 2000 BC, so these are about 4,100 years old. We are moving back in large jumps of time. And here we see a bronze axe in the form of a bird's head with a feather going back and a very clear eye.

And what we call a "bone tube". I wish we had a better name for it. They are always polished very finely, with eyes, headdress or hair and some form of necklace or sometimes perhaps a beard. And these ancient tubes we think were part of the ancient rituals



Bronze axe in form of a bird's head with eye and feather, c.2000 BC.

(Photograph by Linda Moulton Howe)

of 2000 BC. And the ritual life is another area we as archaeologists can look at. We can look at the nature of their houses, the nature of their trade with these stamp seals we find, the nature of their production such as the pottery, and even the types of [religious objects] they had such as the bone tube.

LMH: What do you think the bone tube was used for?

Prof. Hiebert: We're not exactly sure, but it was found in piles of dirt we have analysed that had a tremendous amount of *Ephedra*. Ephedra is a type of plant that ancient Zoroastrians used to create a ritual drink that allowed them to hallucinate and get closer to God. It may well be that the tube was used in some pre-Zoroastrian ritual involving ephedra. Ephedra has medicinal factors. The decongestant Sudafed is made from the same ephedra chemical. But if you take it in some quantity and mix it with a poppy or opium, it would have the effect of giving you visions or hallucinations.

LMH: What about the beige pot?

Prof. Hiebert: We have two pots, each a thousand years earlier than each other. This one is a very beautiful vase made out of buff ceramics, only about an eighth of an inch thick, from 2500 BC. This would have been made at the same time that the great city-states of Sumer were in existence. This would pre-date some of the fine ceramics that were in China. So it is very significant that we had a civilisation in Central Asia at the time. So we can date this from the excavations to 2500 BC. This is at the time period of some of the earliest cities in Central Asia.

The last pot here is perhaps the most ornate. It's painted with absolutely gorgeous tree designs surrounded by squares that have a step motif. It's very finely made, only about an eighth of an inch thick, a very fine ceramic, and it has this beautiful paint. This is the oldest pottery we have, from about 3500 BC, and represents the type of ceramics just before people in Central Asia began to build big cities.

LMH: In the area you are working, if you were going to tie them into bloodlines of people alive today, which country would be closest to this group?

Prof. Hiebert: That of course is one of the questions we would like to know, but don't have the means to answer right now. I think that if we used the old perspective in suggesting there were individual civilisations that developed by themselves without much interaction, we might say Turkish people in the area are the descendants.



This finely made vase from Turkmenistan, c. 2500 BC, has walls only one-eighth of an inch thick. (Photograph by Linda Moulton Howe)

LMH: Did you ever find any skeletons during this work?

Prof. Hiebert: Burials were very formally made. They would build a mud brick structure, construct a little house and put ceramics such as some of these pots here. Sometimes they would leave a ritual last dinner in with the burials. These have taught us a great deal about the people. We haven't found as many burials as we have found along the Indus River or in Mesopotamia, but we've found enough to give us an interesting idea about the funerary rituals and the afterlife that the Central Asians thought [exists].

LMH: Is it possible there are fewer skeletons because they might have used a form of cremation and burned them?

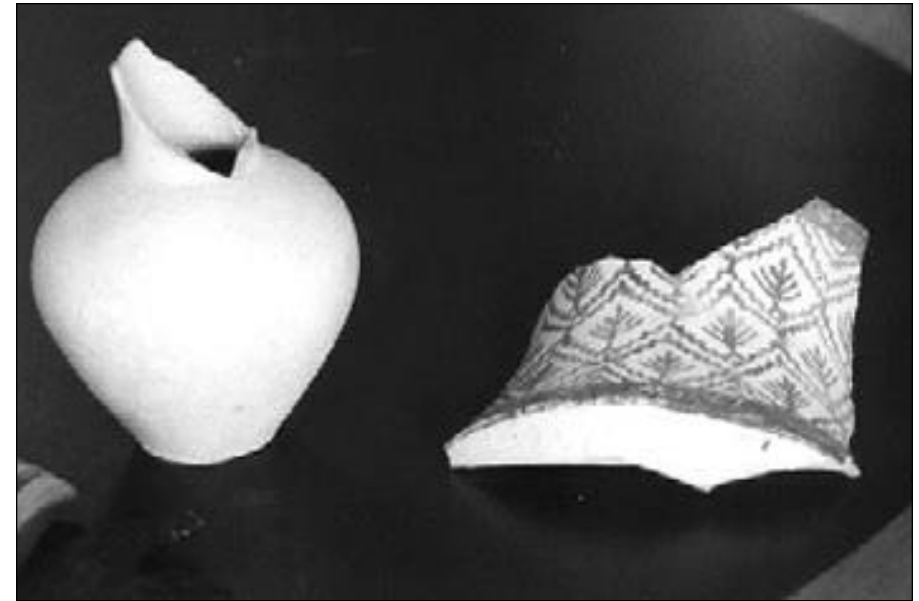
Prof. Hiebert: That certainly is possible. There is a ritual in ancient Persian Zoroastrianism that we think would have been an early form in the desert oases, that involved leaving the bodies out to return to nature.

LMH: So in a desert climate, they would have been wind-blasted and disintegrated?

Prof. Hiebert: Yes, so the burial record might not reflect the size of the population exactly.



"Bone tube" carved with stylised head, c. 2000 BC. (Photograph by Linda Moulton Howe)



Thin ceramic vase on the left is c. 2500 BC. On the right is the oldest pottery shard yet found in the Central Asian dig, c. 3500 BC. (Photograph by Linda Moulton Howe)

LMH: And it would be hard, then, for archaeologists today to know for certain what that population size was in Central Asia?

Prof. Hiebert: Yes; there are some things we can guess at but we are never going to be able to determine, such as the exact size of the population.

LMH: What has surprised you the most from the early 1980s to now?

Prof. Hiebert: Well, I think the thing that surprised me most was actually not the archaeological remains themselves, but the reactions of our colleagues. As we began to peel back the lawyers and reveal civilisation in the desert oases,

some people wouldn't believe us. Some people did believe us. Some people have challenged the origins of this. Some people have simply ignored this. What we are really seeing, now from the 1980s to the beginning of the 21st century, is finally an understanding that this area really takes its place among the great civilisations of the old world.

LMH: So, you are saying that your own scientist colleagues were not open-minded to this discovery?

Prof. Hiebert: I don't know if they weren't open-minded. They hadn't taken into consideration this new area of the world. And the more we work on it, the more we realise that this is an important part of the world. It was an important part of the world in the past and it was directly connected with the other areas. As we work more on this and create a better understanding of it in English and Western languages, the more we are getting the idea out that we have a large Bronze Age civilisation in Central Asia.

LMH: Could there have been in the Celtic world, up in the British Isles, building of megalithic stone circles that pre-dated all of this?

Prof. Hiebert: This question of the connection between the Celtic world and the ancient Near East is one that's been suggested as much as 100 years ago. The erection of these large stone megalithic monuments has parallels in the Black Sea world where there are megalithic tombs there and further west in the Mediterranean and perhaps even on the Eurasian steppes.

Nevertheless, to consider those monumental works part of a civilisation, they wouldn't fall into the same category as the types of societies we're talking about in Central Asia or Mesopotamia because the builders of the monoliths really didn't have...we don't have evidence of settled farming or urban life; no cities, none of the domestic animals and plants. It's a type of complexity that is very different from Central Asia, the Indus Valley or China.

So, I think to be open-minded we have to allow ourselves to understand the deep complexity of building monolithic monuments, but realise that diversity is also something very

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AFRICAN AVATARS AND THE THIRD SECRET OF FATIMA

***Christian churches
and colonial
governments tried
to eradicate African
spiritual masters
even into the late
20th century but
never destroyed
their influence.***

by Tom Dark © 2001

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Few Westerners are aware of the spectacular religious activity that has been thundering with incalculable exuberance through the hearts of millions of Africans in our just-passed century. Men and women have been seeing vision after vision, sign after sign, and wonder after wonder. There are national holidays commemorating miracles—not from centuries ago by some old saint whose paint has long since peeled, but within the last few decades and witnessed by thousands of ordinary citizens still walking among us.

Religious scholars whom I have contacted as independent sources have been recording the activity with intense fascination. Relatively little is known, and scholars are quite eager to learn more. They may be gathering information that could eventually form a "new" New Testament. It may well be that we are viewing the beginnings of a new civilisation formed around a new Christ, which, like the occasion that started our present one 20 centuries ago, remains relatively unknown in the world until some time after the events that then inspire so many millions for centuries to come.

This book extract featured here is primarily about a man named Simeon Toko, who died in 1984. Simeon Toko appeared before people in an apparitional body and in dream states while he was physically alive, and continues to do the same among certain selected people 17 years after his willing, natural death. At least one witness says that he, personally, killed this man—quite professionally, as a hired killer—and saw him alive again a few days later. Others still living at the time of this writing say they saw Toko physically slaughtered, and watched him bring himself back to life before their astonished eyes. There is a very large body of testimony, of which only a little has yet been recorded or written down from eyewitnesses.

Much of the media news from Africa in the past 80 years has been presented as political rebellion and tribal warmongering or as a battle between "good" civilised countries versus "evil" communists over the souls of Africans who are still considered uncivilised, superstitious and too immature, individual by individual, to be left to themselves...what with all those raw materials and diamonds yet needing to be dug up. This is the general bias of news reporting from Africa as I remember it since my own childhood. It's not much different now. We tend to think of the African peoples with a distortion somewhere between a bouquet of jokes about banana republics and a vague, distant horror of unexplainable war and slaughter.

The first slave traders who came to Africa in the 15th century CE found an advanced society dominated by a monotheism with a powerful code of ethics. They did not find half-naked people in grass skirts with bones through their noses. They did not find rows of fat little stone fertility goddesses and voodoo fetishes. They found an intelligent, friendly, dignified people who had created beautiful avenues, pleasant buildings, well-regulated agricultural fields and fine clothing. They found a people who practised the old Mosaic code, essentially (students of Mosaic law will note how much of it resembles the Egyptian code). They found a people whose language (Kikongo), linguists have shown, contains scores of words found in biblical Hebrew and in later European languages and thus pre-dates these. They may well have found what happened to the so-called lost tribes of the kingdom of Israel.

Except that the subsequent four centuries have proved out the following statement to a deplorable degree, we could otherwise be incredulous at a surmised of the main difference between the "discoverers" of central Africa and the people they divided and traded like objects and cattle over the ensuing generations: the difference between the civilised dark-

skinned peoples and their conquerors is measurable in intensity of greed and the will to murder to fulfill greed's endlessly wearisome demands. This behaviour has not ended in modern times. Slavery still exists in Africa, for instance.

Now, centuries after the first slashes into the belly of the African land and peoples, predominantly white-skinned countries still allow predominantly white-skinned corporations to assist insane warlords in killing each other, helping with helicopters and technology simply to keep company profits going. So reported Global Pacific News not long ago.

There is no question that the peoples of Africa, millions and millions of descendants of the ancient Ethiopians and Egyptians among them, have been methodically dehumanised for centuries. No peoples have met with such enormous psychological and material destruction in recorded human history. If they can be said to be blamed for allowing any of it, then their fault could only lie in a willingness to trust fellow men who come preaching principles.

The damage that Christian missionaries have done to the psychology of human kindness in Africa over the centuries is untold. Missionaries routinely accompanied soldiers who came to steal lands and loot for their home European country. The procedure went as follows: the missionary would stand and read aloud an edict in Latin to whatever villagers had gathered. The edict, completely incomprehensible to the villagers, ordered that each of them must at that moment convert to Christianity or be killed or enslaved. After it was read, the guns and swords were put to work. The soldiers felt justified in their murders through the benediction and authority of the Roman Church. Through varying interpretations of the works of Church fathers, the Roman Church developed a system of permissible murder and looting, and it was used routinely.

The missionaries would then go to work on the remaining people. The children were taught that their parents' intelligent, peaceful beliefs were "from the devil" and that they were to accept poverty "for the good of their souls", whereas the conquerors were supposedly blessed by God with superior might and wealth and so had to be obeyed.

Not long ago, Pope John-Paul II issued a public statement apologising for the behaviour of the Roman Church during the Inquisition, centuries ago. Over a period of about 400 years, Church authorities humiliated, ostracised, tortured and murdered about half a million fellow Europeans over "matters of faith". As these atrocities in the name of God mostly occurred centuries ago, the apology seemed a little late in coming. However, no apology seems to have been offered yet to the estimated 100 million Africans who were categorically enslaved, tortured and murdered into submission in the 400 years that the Roman Church itself assisted this activity, quite officially, benefiting from it materially and politically.

SIMON KIMBANGU: A PERSECUTED PROPHET

One would wonder also why there is as yet no apology forthcoming from the Vatican for its role in intent to murder one

Simon Kimbangu. This did not happen so long ago that the descendants have long been unaware of the wrong done and the property confiscated, as is mostly the case with the Inquisition.

There are thousands of Africans alive at the time of this writing who remember Simon Kimbangu very well. Kimbangu's name is celebrated throughout the great expanses of central Africa, and his fame continues to increase. He stands as far more than a mere national hero. A short history of his life can be found in the *Encyclopaedia Britannica*. He and his followers are also the subject of more detailed scholarly research. Simon Kimbangu was a prophet. He was tortured and left to rot in prison, where he died in October 1951 after 30 years.

There are Africans alive at this writing who were brought back from the dead by Simon Kimbangu, and there are people still living who watched him do it. The claim is that Simon Kimbangu healed the sick, made the lame walk, returned sight to the blind

and hearing to the deaf, and even brought back to life an infant who had been dead for three days. Kimbangu performed these miraculous deeds over a period of five months, from May 1921 through to 12 September 1921. Scholars do not dispute that this man performed these miracles. There is simply too much testimony about it.

On 10 September 1921, Simon Kimbangu gave a speech. He announced that the colonial authorities were about to arrest him and "impose a long period of silence on my body". He announced that one day a "Great

King" of tremendous spiritual, scientific and political power would arise, and that he himself would return as a representative. Before this event, a certain book would be written that would prepare the people of Kongo (not "Congo") for this event. This book would be resisted, but slowly it would come to be accepted.

Two days later, Simon Kimbangu was arrested by colonial authorities—on his 42nd birthday, 12 September 1921—and curtly sentenced to death. The authorities for the Roman Church had recommended his execution, and

so had various other Christian missions.

According to noted scholar Dr Allan Anderson, the Baptist mission alone protested the execution of this man whose apparent crime was to have stood in a village daily for five months and healed, consoled and revitalised people. The joy and the amazement of the gathering crowds had left the prophet open to supposed charges of sedition by jealous missionaries. Punishment for alleged sedition was death.

Just as Kimbangu had predicted two days before his arrest, he was instead given an indefinite prison term, a "long silence of his body". Each morning he was taken from his tiny cell and put bodily into a tank of cold salt water for lengthy periods in an attempt to hasten his death. His prediction that his body would be tortured and humiliated came true.

He had also predicted that day that Africa would be "thrown into a terrible period of unspeakable persecutions". For the next 40 years, Africans were indeed put through a terrible period of unspeakable religious persecutions. Hundreds of thousands were

There are Africans alive at this writing who were brought back from the dead by Simon Kimbangu, and there are people still living who watched him do it.

Scholars do not dispute that this man performed these miracles. There is simply too much testimony about it.

imprisoned, deported, separated from their families, subject to atrocious tortures and simply persecuted for new religious beliefs.

These new religious beliefs, triggered by the few words of an African man who performed miracles among his own people for "only a little while", sent out great psychological rays of hope to a continent of peoples who had long become accustomed to misery and poverty under centuries of colonial abuse and deliberately oppressive religious instruction. These powerful beliefs are still in development and will reach around the world even in their beginning stages. The appearance of the book this essay reviews marks one of many such beginnings.

THE FATIMA PROPHECIES AND RELIGIOUS CODES

The title of the book this essay introduces is *The True Third Secret of Fatima Revealed and the Return of Christ*. The author is Pastor Melo Nzeyitu Josias, and additional research was done by Rocha Nefwani. Both men are native Africans, both highly educated. I edited the book myself, here in America, and added a little general historical knowledge.

The book was meant to be available on 13 May, to commemorate the first of six visits of the Lady of Fatima, Portugal, who appeared on that date in 1917. She was visible to the three shepherd children who repeated her words to the world, yet was invisible to the crowds of thousands who were drawn to come to see her. The Lady made astonishing predictions. Her two sets of predictions, made in 1917 about events of the coming decades, proved true. Among other things, she prophesied the fall of Russia to communism, the end of the First World War and the coming of the Second World War.

There was a Third Secret, however, which the Lady instructed Lucia dos Santos to reveal only after 1960, after certain events had passed which would have made it more understandable. It was read to Pope John XXIII in February 1960. When the Pope heard it, he fainted dead to the floor; when he arose, he ordered the Third Secret sealed up in a vault "forever".

Are we in the "end of times"? Are we at the hour in which Jesus Christ has already returned and gone? It would seem that appearances of men acclaimed to be God incarnate have increased greatly in the past century.

Whether a human being can be said to be God made flesh, let alone whether a particular individual can be said to be this, can be debated into meaninglessness.

Those few who are said to have become "god-realised" and who have made themselves known to the public for divine purposes and missions, seem to attract material fortunes from a public that is either inexpressibly grateful or is too gullible. Although some Hindu religious branches speak of "five Ascended Masters" who live invisibly on our planet, there are many quite visible gurus or proclaimed avatars, around whom devotees have formed practical organisations of high material worth. Monies are collected and practical advantages, such as political contributions, keep the organisations going, while their intent is to "enlighten" the masses—who, we must assume, are "endarkened" without them.

Sincere or fraudulent, authentic or imitation, each event of the appearance of a man (usually a male) said to be God or god-realised represents a new bud of one size or another upon a very

ancient vine. The vine would be human consciousness, and the bud would be civilisation.

A civilisation forms through codes of knowledge and behaviour that allow each of its members, relatively, the broadest opportunity for value fulfilment. The codes seem most often to have originated with a single man who is also revealed as God's prophet, if not God Himself in fleshly clothing. New knowledge, or interpretations of it, is added in that Man-God's name.

I wonder about the nature of the human experience itself, as I cannot think of any civilisation which did not attribute its foundations to a single man at its cornerstone. Even the "godless" communist attempts at a new and sensible kind of civilisation quickly became personality-worship cults. Nor should we forget Germany's abortive attempt to found a "New World Order" around Adolf Hitler. However, neither Hitler nor Marx nor Lenin nor Mao nor Kim could walk on water or rise from the dead.

Christianity, of all religions, has come closest to uniting the peoples of the entire world. The emergence of avatars in Africa in the 20th century maintains a continuity with the ancient prophe-

cies found in the Bible. *The True Third Secret* cites biblical passages that make a case that Simeon Toko was Christ Returned—at least, different Christian ministers who considered the interpretations did not scorn their logic. The following is an excerpt I have culled from chapter VII of the book, with permission (some of the writing has been edited so as not to confuse the reader who will be reading this out of its context).

THE AVATAR SIMEON TOKO Fragile Beginnings

Simeon Toko was born on 24 February 1918 in a village in northern Angola (the Tsafon of Psalm 48:3), portentously named Sadi Banza Zulu Mongo ("Village of the Celestial Mountain"). The newborn emerged from his mother's womb into a very hostile environment.

For almost 50 years, from 1872 to 1921, this region suffered natural disasters. There were long droughts between short lulls. Northern Angola and the southern regions of the French and Belgian Congos were devastated. The resultant famines killed thousands; so, too, there were thousands of deaths brought by smallpox, typhoid, sleeping sickness, malaria and other diseases. These different plagues represent the fulfilment of a biblical prediction. None but a few people inspired by the words of the Lord recognised this.

*And the dragon stood before which was ready to be delivered,
for to devour her child as soon as it was born.*

(Revelation 12:4)

The baby Simeon Toko was born mere inches from sickness and famine and plague and death, and many leagues from safety. There was not much reason for a baby to want to live, and much against it.

The infant Toko caught smallpox. He was so badly affected by it that villagers thought the hand of the Almighty Father alone saved his life. He was left with the unpleasant marring of smallpox scars on his face. Compare this prophecy:

*As many were astonished at thee; his visage was so marred
more than any man, and his form more than the sons of men.*

(Isaiah 52:14)

Are we in the "end of times"?

**Are we at the hour in which
Jesus Christ has already
returned and gone?**

Not long after Simeon's birth, a missionary at a Baptist Missionary Society, based in Angola, had a dream. He dreamed that a Great King had been born in the region under his ministry. He decided to go looking for this baby.

Requesting guidance from the Holy Spirit, he came to the baby Simeon Toko. Staring at an infant so rachitic, like a "weak and tender plant", and with so blemished a little face, he shook his head. Doubt had come to stay. He asked one or two questions and left, feeling victimised by his dream and the voice that had led him there.

A Powerful Mission

In 1949, Simeon attended an international conference of Protestants in Leopoldville (currently called Kinshasa). During this event, the ceremonial masters asked three Africans from Angola to pray. Those selected were Gaspar de Almeida, Jesse Chiulo Chipenda and Simeon Toko. Simeon Toko asked in his public prayer that the Holy Spirit manifest in Africa to put an end to the abuses of the colonial powers.

Toko became a dedicated member of the Baptist Church in Itaga. He formed a singing choir of 12 people. Instantly this choir became famous, and from 12 members it grew into hundreds. At each of the choir performances, whether at their church or while visiting another church, the Holy Ghost manifested with such a power that white missionaries suspected young Toko of possessing black-magic powers. Jealously, the missionaries summoned him to abandon his "dark practices". He responded to them by saying: "But if we are praying to the same God, how come when I pray, and there is a manifestation of the Holy Ghost, you accuse me of sorcery? Is it because I am an African that my prayers couldn't possibly be answered? Does the Holy Spirit discriminate against Africans, too?" (See 1 Samuel 10:10.)

But the missionaries were fed up with him and decided to exclude him from the church. Then what was meant to happen, happened. All those who had joined the church on the inspiration of Simeon's magnificent choir left the church with him. The question was whether Simeon Toko would abandon these followers or keep them with him.

He decided to keep them with him, realising all the same that a very harsh duty awaited him. He decided to pray again to his Father, repeating the same prayer he had made three years before at the Baptist conference.

On 25 July 1949, Simeon and 35 members of his choir met on a street called Mayenge, at the house of a man named Vanga Ambrosio. The choir began to sing, waiting for the time to pray. Shortly before midnight, Simeon Toko lifted his eyes to the sky and he addressed this prayer to his Father: "Father, I know you always answer my prayers. Now look; consider these sheep you have sent to me. This duty is so immense that without the Holy Spirit, the Comforter, we will never be able to achieve what you intended. The prayer I addressed to you three years ago, didn't you hear it?"

At precisely midnight, a strong wind shook the house and the Holy Spirit possessed everyone at the prayer meeting, with the exception of a man called Sansão Alphonse, the choir leader. God let him remain in an ordinary frame of mind so that he could write down the testimonials and miracles taking place before his dumbfounded eyes. Many in the group were speaking in tongues. Some saw heavenly light and heard celestial voices; others were able to communicate clearly with people several kilometres from where the prayer was taking place.

The excitement about the miracles that happened at this new Pentecost led Simeon Toko's followers to spread all over town and start preaching the building of God's Kingdom. This attracted the attention of Belgian colonial authorities, who viewed the activity as a threatening commotion.

Within about three months, the police began jailing the preachers. They were jailed and prosecuted as promptly as were the Kimbanguists, the followers of Simeon Toko's Messenger, Simon Kimbangu—who himself was imprisoned from 1921 until his

death in 1951. Some were beheaded, burned alive in their homes, drowned in the river or shot without being prosecuted. Finally, the colonialists decided to deport them. The wives, husbands and children were separated from their families and homes by hundreds and even thousands of kilometres.

When miracles started taking place among the new followers of "Kimbangu", the Belgian authorities tried to suffocate this new Messianic group at once.

On 22 October 1949, Simeon Toko and 3,000 of his companions were put into two different jails, Ofiltra and Ndolo. After three months in the jails, a decree was passed to deport them out of the country. This is when Simeon Toko started revealing Himself.

The Belgian administrator of the jail in Ndolo was named Pirote. He abused the "Tokoist" prisoners, hurling racist insults. He always ended with: "Filthy nigger, you're going back to nigger country in Angola!"

Tired of this abuse, Simeon Toko replied sharply to Pirote: "Know that if there is a stranger here, it is you! To show you that I am home, the day you make the injustice of deporting me

from Belgian Congo, I'll have you carrying my bags alongside me!" Simeon Toko held up both hands, spread out his fingers, and told the abusive Belgian to count them. He said: "I give 10 years to the Belgians, not one more or less, to leave this country!"

No one at that time comprehended these sibylline words. However, the disciples of Simeon Toko understood later: the day they were deported, Pirote fell dead. He was gripped with an apparent heart attack while working in his office, and died as suddenly as though a bullet had struck him squarely.

As for the other mysterious statement made by Simeon Toko: 10 years later, in 1960, the Belgians were obliged to leave their rich colony of Congo. But to impel this event, Simeon Toko "unleashed his army". This incredible story is very well known throughout central Africa, and will be reported in greater detail in another book. The event was witnessed by thousands of people on 4 January 1959. Some of the author's own relatives were there,

Then the unbelievable happened. Before Canhandi and the two Portuguese accomplices, the body of Simeon Toko recomposed itself! Simeon Toko stood up! Canhandi could not believe his eyes. The Portuguese ran away in terror.

but so are there thousands of citizens of the city of Kinshasa, who witnessed it on that day, alive at this writing. January 4th is now a public holiday in Kinshasa and commemorates this event.

Kinshasa was called Leopoldville. On that day, the "Cherubim and Seraphim" appeared and stood against the Belgian colonial army. The citizens of Leopoldville saw an army of about a thousand very small men, about the size of children or dwarfs, with very muscular, imposing bodies.

Each of these diminutive human-looking creatures showed great strength; for example, a witness saw one of them flip a five-ton truck over with one arm! The Belgian soldiers fired at these little brown angels to no effect. Terrified, the colonial army was thrown into confusion. The little men disappeared as suddenly as they had appeared.

One year after this amazing mass apparition, the Democratic Republic of Congo was a new and independent country.

More Persecutions and Miracles

After being deported and arriving in Angola, the real tribulations of the "man of sorrow acquainted with grief and sufferings" were to start. Never again would Simeon Toko rest. His life would be a string of non-stop attempts to kill him to prevent his Mission.

Let us follow what he experienced, from Leopoldville, where he was unjustly incarcerated, to Angola. While incarcerated in Angola, the Portuguese authorities deported him:

1. to the Colonato of Vale do Loge, in the municipality of Bembe, northern Angola;
2. from Bembe to Waba Caconda;
3. from Caconda to Hoque, 30 kilometres off San da Bandeira;
4. from San da Bandeira to Waba Caconda again;
5. from Caconda to Cassinga, Vila Artur de Paiva;
6. from Cassinga to Jau, in Chibia's canton;
7. from Chibia, back to San da Bandeira;
8. from San da Bandeira to Mocamedes, in the municipality of Porto Alexandre, or, more precisely, at Ponta Albina.
9. from Ponta Albina to Luanda, the capital of Angola.

All of these deportations took place in a 12-year period. Simeon Toko's captivity in these prisons and agricultural compounds lasted from three months, as at San da Bandeira, to as long as five years, as at Ponta Albina.

The objectives of these deportations were to reduce Simeon Toko's influence and to dismantle his church. Contrarily, everywhere he and his followers were sent, they indoctrinated even more and more members into the belief of (what the Portuguese called) "Tokoism". In the end, the Portuguese authorities decided to use their last measure: "Simeon Toko *delenda* [must be destroyed]."

Thus, when he was sent to slavery in an agricultural field in Caconda in southern Angola, his head was offered for a price. Two Portuguese foremen, excited by the reward, decided to take

their chance. They put a plan into action to murder Simeon Toko.

During a stay in Angola in 1994, we collected the testimony of Pastor Adelino Canhandi, who was a cook at the Caconda agricultural compound. He saw what happened.

Busy with cooking, he heard a voice calling him: "Canhandi, Canhandi, come here." It was Simeon Toko. Once outside, surprised and curious, Toko told him "to stand there and be watchful. Once again, the Son of Man will be tested." Strange words in particular for Canhandi, who was not then a Christian and didn't understand the term or what Simeon Toko wanted of him. Curious, he watched.

One of the Portuguese foremen showed up and hailed Simeon Toko: "Hey Simeon, you see that tractor over there? There are weeds clogging the sower. Go clean them out!" Submissively, the docile prisoner crawled under the engine to fix it. When he was under the engine, the foreman, sitting in the driver's seat, started it up, which automatically activated the rotating blades of the seed sower. Simeon Toko's body was instantly severed in several pieces.

Terrified, Canhandi stood frozen to the spot, watching. The foreman shifted into reverse to back up and check the damage. A second foreman, who was in service that day, flashed a victory sign, indicating that they had succeeded.

Then the unbelievable happened. Before Canhandi and the two Portuguese accomplices, the body of Simeon Toko recomposed itself! Simeon Toko stood up! Canhandi could not believe his eyes. The Portuguese ran away in terror. From that day on, Canhandi believed in the Lord, and his entire family converted to the church of Simeon Toko.

It was also that day that Simeon Toko made it known who he was behind that smallpox-marred face, purposefully behaving in accord with the following scripture:

Therefore doth my Father love me, because I lay down my life that I might take it again. No man taketh it from me, but I lay it down of myself. I have power to lay it down, and I have power to take it again. This commandment have I received of my Father.

(John 10:17-18)

During Simeon Toko's stay in Luanda, the capital of Angola, while he was in the process of being deported for the ninth time, another event happened to show his hidden and true identity.

We should say that when he came on Earth in Palestine, Christ referred to Himself in the third person, using the term "the Son of Man". This time, Canhandi was one of the rare persons to hear the Christ refer to Himself differently. Simeon most usually spoke of the Lord Jesus Christ, which meant to his followers that he, too, was a servant of Christ, like everybody else. Despite the miracles happening around him, he was just like a shadow; no one knew who he really was.

The Vatican and the Avatar

His followers were once again bewildered when they found out that two top-level emissaries had been dispatched by Pope John

The moment the PIDE agents rose to subdue him and carry out their murder, Simeon Toko stood up and ordered the plane to stop.

The aircraft stopped in mid-air! It stood still, not advancing an inch nor rising or falling backwards.

XXIII to Angola to meet Simeon Toko and deliver a personal message to him. One of the emissaries was unfortunate to fall ill with dysentery when he arrived in Luanda and wound up in a hospital. The other was received by Simeon Toko, and he said to him: "I am an emissary of Pope John XXIII, who personally mandated me and my colleague to come and ask you a single question: 'Who are you?'"

Let us bear in mind that the year was 1962, two years after the fateful date when the Vatican had instructions to make public the Third Secret of Fatima. John XXIII had read the message, kept it a secret, and very likely had sent his emissaries to Simeon Toko with a sinking feeling in his heart.

Simeon Toko responded: "I am amazed that a high-ranking person like the Pope is interested enough about my being to make you travel 8,000 kilometres just to meet me. The answer that you should give your master for me is in the biblical scripture, Matthew 11:2-6."

Let's now put ourselves in Pope John XXIII's shoes as he read the text suggested by Toko:

And now, when John had heard in the prison the works of Christ, he sent two of his disciples, and said unto him: Are thou he that should come, or do we look for another? Jesus answered and said unto them: Go and show John again those things which ye do hear and see: the blind receive their sight and the lame walk, the lepers are cleansed and the deaf hear, the dead are raised up and the poor have the gospel preached to them. And blessed is he, whosoever shall not be offended in me.
(Matthew 11:2-6)

Using a brief biblical quotation, Simeon Toko gave Pope John XXIII to understand that what the Pope had found in the note written by Lucia dos Santos was true. Indeed, the former Cardinal Roncalli could have picked any name as Pope, but he chose "John", so that now the scripture in Matthew that Simeon Toko sent him to read addressed him directly by name.

Fearing who it was who was now living among the most disdained people on Earth, the Pope contacted the Portuguese dictator, Antonio de Salazar. On 18 July 1962, Simeon Toko was again arrested and deported; this time, not to some isolated corner in his native Angola but to Portugal—where his anticipated birth had been announced in 1917 in Fatima. [Tom Dark notes: Tokoists contend that the true Third Secret of Fatima was in fact an announcement that Christ had returned to Earth, in the form of Simeon Toko.]

For Toko's deportation to Portugal, a Portuguese Air Force plane was waiting for him. The plane had state-of-the-art

telecommunication and navigation systems. In the plane sat a Catholic priest and members of Salazar's secret police, the PIDE-DGS, including the pilot and copilot. Their mission was to fly out over the Atlantic Ocean and, after about an hour's distance, push Simeon Toko out of the plane into the deep sea. This was the same inhuman treatment that the Argentinian military used years later against their political opponents. Supposedly the Catholic priest was brought along on the plane to counteract the magic powers of the African through praying. But this skilfully planned project was about to backfire.

The moment the PIDE agents rose to subdue him and carry out their murder, Simeon Toko stood up and ordered the plane to stop. The aircraft stopped in mid-air! It stood still, not advancing an inch nor rising or falling backwards. The crew was stricken by panic. The priest could hardly breathe, and hoarsely huffed out desperate prayers. They all started imploring the *preto*

[Portuguese denigratory term denoting "nigger"] for mercy. Simeon lifted his eyes and hands towards the heavens and after a short prayer he ordered the plane to move again. At once, the plane started moving.

Simeon Toko related this story himself. For those who are sceptical, we would remind you that the authority of our sciences does not determine all that is possible on Earth or in Heaven. This same Personality stopped a storm on a sea for a group of terrified fishermen 2,000 years ago. He also walked across the surface of the water and inspired the Sun to weave and dance gaily at Fatima.

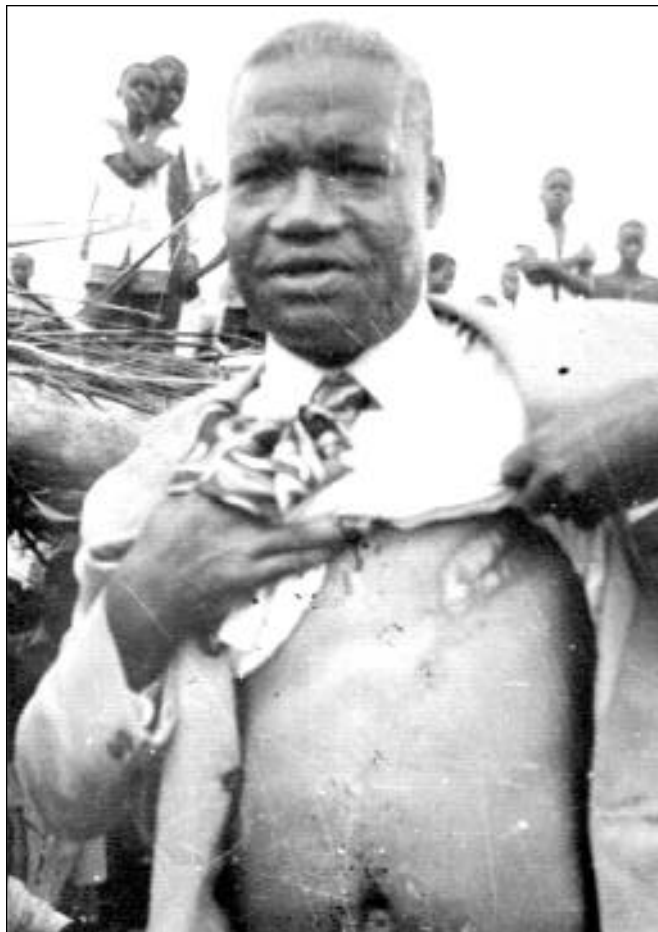
Simeon Survives a Morbid Experiment

As an "exiled political prisoner", Simeon Toko was deprived of all human rights. We describe here one of the many murder attempts upon his body during his forced stay in Ponta Delgada, in the Archipelago of the Azores. He was assigned the chore of maintaining a light-house there. At a future date, we will publish a record of mir-

acles performed by Simeon Toko, which were seen by eyewitnesses.

Doña Laurinda Zaza is a *vate* [pronounced "vah-tay"]—a sort of prophetic trance medium—for present-day Toko followers. She experienced the following event as she saw it happen to Tio Simão (a nickname meaning "Uncle Simon") while he was in exile in Portugal. Simeon Toko confirmed the fact of this event later, and revealed the physical damage that the doctors had done. Over the years, thousands of people saw this scarring on his chest. "You could almost see Toko's heart pounding in his chest through the scar; an almost unbearable sight," Doña Laurinda said.

This referred to a most remarkable attempt by these



Simeon Toko shows the scar from a macabre heart operation.

astonishingly misguided men to kill Simeon Toko under dictator Antonio de Salazar's orders. This attempt, which would have been "first degree murder" if the victim were anyone else, took place shortly before his return to freedom in July 1974. [Tom Dark notes: Simeon Toko was not released by Salazar; the dictator was unseated by a revolution and Simeon was released in a general amnesty of political prisoners.]

A Portuguese doctor had been reading records about Toko's alleged "invincibility" and invited several doctors from around Europe to perform an operation on him—an autopsy, under the pretext of removing a tumour from his chest. The doctors had him taken to local civilian hospital. They put him on an operating table, cut a jagged, mortal wound in the left side of the centre of his chest, reached into his chest cavity and pulled out his still-beating heart. The aorta and other arteries were severed by scalpel and his heart was removed. Simeon lay dead, his body covered with the warm blood that splashed out of his heart and chest.

The doctors dumped Simeon Toko's heart in a metal pan and took it to a laboratory in another room. They ran various tests on it—expecting to find what, they did not know. The gadgets and microscopes and probings showed there was nothing physically extraordinary or abnormal about Simeon Toko's heart. The doctors concluded that this purloined organ would not have been the source of his invulnerability—if it can be said that men can make conclusions about any such thing.

The doctors had unquestionably killed this man in this macabre experiment, but to their horror and bewilderment, Simeon Toko came to on the operating table! His heartless corpse was moving of its own volition. He opened his eyes, sat up and looked at them, the chest wound by which they had casually murdered him gaping open. "Why are you persecuting me this way?" he said to them. "Give me back my heart!"

[Tom Dark notes: If there are medical records available to confirm this event independently, I do not have them now but would like to see them. All of us involved in this project here in the US consider ourselves "doubting Thomases", to say the least, yet the stories of witnesses and followers have kept up our fascination.]

For now we will refrain from reporting many other significant events that happened that same day. We can let you know, however, that the exact time his heart was taken from him, Simeon Toko decided to give a finishing blow to Portuguese colonial power and rule over Angola. He returned to his native country of Angola on 31 August 1974, with the confidence his words would be fulfilled. A year later, on 11 November 1975, Angola gained its independence from Portugal.

A Departure by Choice

During the night of 31 December 1983 to 1 January 1984, when the death of Simeon Toko was announced by the media, thunderclaps of virtually seismic force and torrential rain burst the skies of Luanda. It had not rained in this area for several years. Meteorologists were mystified. For three days the rain fell con-

tinuously. The occurrence of this event was attributed to all the rumours surrounding the death of this great prophet.

A certain politician was recognised as one of the toughest men surrounding Neto, President of the Republic of Angola. He was often called upon for delicate and confidential missions. The Portuguese, whom he fought during a 14-year war for the liberation of his country, had a good deal to say about him. His name aroused dread and awe. He led a resistance group specialising in chopping heads with *catanas* (machetes). This man was one of President Neto's army officers. His name was Comandante Paiva.

After hearing the news that Simeon Toko had died, Paiva rushed to where the body lay exposed for public viewing. He fought his way through the crowd of tens of thousands of people. He was astonished at the sight of it. He stood looking at Simeon's body, and he asked to speak. He declared: "It is not true that Simeon Toko is dead, because he is invulnerable!"

To make such a public confession was blatantly incriminating. Seven years before, Comandante Paiva had orders to kill Simeon Toko once and for all. He told the public that this is what he and his men had done. He had Simeon Toko kidnapped and taken to a secret location; once there, he butchered him methodically, like a meatpacker with an animal carcass; he severed Simeon's head, then his arms and legs, then split his chest and abdomen apart. He stuffed the butchered corpse into a large bag, tied the top with a string and hid it in a certain location. After three days, he brought helpers back to get the bag and take it to the ocean to throw to the sharks.

By now the bag had disappeared. The men began to argue about its whereabouts. Suddenly, in the midst of their bickering about who may have moved it, a voice they described as sounding like "the sounds of many waters" (Revelation 1:15) overshadowed their own voices: "Who are you looking for? I am here!" It was

Simeon Toko, in flesh and bone, alive, standing majestically. The men dashed away shouting "E o Deus, e o Deus!", which means "He is God, He is God!"

Paiva's butchering had been the last time that anybody dared to touch a single hair on the head of Simeon Toko. And now that Simeon's body lay discarded by its owner, by choice, Paiva refused to believe it. ∞

**The doctors
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Editor's Note:

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About the Author:

Tom Dark is a professional editor, writer and music producer and leads a small worldwide dream experiment group.



AND THERE WERE GIANTS...

by John Mount © 2001

What of the fossilised giant mentioned in the *Strand* magazine of 1895, whose 12-foot-2-inch body was propped up for viewing against a 19th-century railroad carriage, totally dwarfing it? It's funny how these "finds" often disappear and never again see the light of day. Thankfully, a reporter took a photograph...

During a stormy BC military campaign, the Israelite commander David (already of giant-killing fame and later to become king of the Israelites), with the help of his army, fought a decisive battle with a Philistine army that contained a number of men of gigantic stature, eventually killing several of them. The biblical commentator mentions that while examining one of the bodies of these giants, David's men noticed some unusual characteristics:

And there was...a battle in Gath, a city of the Philistines also known as the City of Giants, where was [found the body of] a man of great stature, that had on every hand six fingers and on every foot six toes...

(2 Sam 21:20)

In one of his books, Harold T. Wilkins quotes excerpts from the publication *American Antiquities* regarding the finding of giant human footprints in solid rock at the headwaters of the Tennessee River near Braystown. The prints are unique in that they contain six toes! One print more pronounced than the rest is of a heel ball measuring 13 inches (33 centimetres) across!

... in the many worldwide references to giants, one often comes across these strange traits of six fingers and toes ...

It appears that these giant men in the distant, prehistoric past were leading their horses along a muddy or clay track when one of the horses must have slipped several inches, causing a more pronounced imprint of a hoof. This particular hoofprint mea-

sured 8 by 10 inches (20 by 25 centimetres)!

According to G. H. Williamson in his book, *Road in the Sky*, Talmudic and Midrashic literature contains several references to giants with double rows of teeth. In fact, in the many worldwide references to giants, one often comes across these strange traits of six fingers and toes with the occasional double row of teeth thrown in. Perhaps these are the "hallmarks" of true giants.

Abnormally oversized humans are nearly always recognisable as such, because their height is often gained at the expense of their build (as in giantism). Apparently, true giants were also easily distinguishable by their build, which (like normal humans) was in balanced proportion to their height.

There were several battles reported between the early Israelites and foreign armies containing giants. It was as though these giant men were used as mercenaries by early Middle Eastern civilisations.

At least one early Israelite account describes the size of one of these giants as well as the weight of some of their captured armour and weapons: "Goliath of

THE TWILIGHT ZONE

Gath whose height was 6 cubits and a span..." (1 Sam 17:4)

The stumbling blocks in these old reports are the different interpretations of the Mediterranean cubit. It was known to vary between 18 and 21 inches. The biblical cubit is conservatively reckoned at 17.5 inches (44.5 centimetres), representing the distance measured from an adult's elbow to the tip of the middle finger, which would

make Goliath in his stockinged feet at least 9 feet 5.75 inches (2.9 metres) tall. Another battle produced a captured breastplate of mail weighing 5,000 shekels (126 pounds or 57 kilograms) as well as a trophied spear, which the commentator compared to the size of a heavy "weaver's beam". The spearhead, when weighed by itself, tipped the scales at 600 shekels (approx. 15 lbs or 7 kg). (1 Sam 17:7)

According to ancient literature, humans and giants were rarely able to live together in harmony. A manuscript called *The Apocalypse of Baruch*, a pseudepigraphical work written around AD 100 and preserved only in the sixth-century Syriac Vulgate (and which seems a little unclear in parts) appears to hint at the origin of giants:

Men began as giants. These first giants were very highly developed, intellectually, artistically and physically: they had power over birds and animals...they misbehaved and were abolished by God, and ordinary men took their place...

H. T. Wilkins, in his book *Mysteries of Ancient South America*, recalls old Peruvian traditions that tell of a time during their long past when a race of giant men, who came from the Pacific Ocean in ships, invaded the lowlands of old Peru, forcing the Inca high up into their mountain strongholds in the Andes.

These giants, say the Inca, were so huge that "from the knee down, they were as tall as a tall man". According to Wilkins, the Inca say that these giant men "brought no women with them", and because they were too big for the Inca women they became "homosexual", and "one day while they were publicly polluting the marketplace with these practices, a fire from heaven rained down on them and consumed them".

Not all the giants perished in this "Sodom and Gomorrah-type holocaust", according to Wilkins. The survivors, apparently totally ticked off by these traumatic events and out after revenge, ascended the Cordilleras in pursuit of the Inca but were "dispersed" when they met the armies of the Inca king Ayataca Cuso.

It is noteworthy that giant-killing humans were somehow able to differentiate between humans with abnormal, excessive growth and bona fide giants. And because many of the giants themselves were of varying sizes, one wonders what criteria were used for determining the difference between a short giant and an abnormally large, well-built human.

Perhaps it was the extra fingers and toes that gave them away.

In March 1858, Commodore Byron of the French warship *La Patrie* during a visit to Port St Julien in Patagonia had an interesting conversation with the chief of a 500-strong tribe whose men were well over seven feet tall; none of the women was



The photograph published in *Strand Magazine* in 1895.

under six feet tall. The chief's body, according to the report, was covered with "hideous paintings", and the fellow was described as having a "fierce countenance".

He also had the skin of a wild animal thrown over one shoulder, which was probably a symbol of office—and which is strongly reminiscent of those drawings of Hercules, portrayed in ancient Mediterranean paintings, where he is shown armed with a club and with the skin of the Nemean lion draped over one shoulder. Which is also probably similar to that figure of a giant, which is carved into the chalk in the English countryside of Dorset. Research in recent years shows that the Dorset giant, bearing a club, was also once provided with something draped over the shoulder or upper arm.

The giant teeth found in China and known as "dragon's teeth" were found by the German-Dutch palaeontologist G. H. R. von Koenigswald around 1935 in a Chinese herbal shop. They were studied by various authorities who noticed that they bore a striking resemblance to human teeth, though around twice the size.

They calculated that the teeth belonged to a hominoid around 11.8 feet (3.6 metres) tall, which would have weighed in at 694 pounds (315 kilograms).

Von Koenigswald named the creature *Gigantopithecus blacki*. The close resemblance to human teeth had led some palaeomorphologists at the time to speculate that modern humans might have descended from "giant" ancestors. Modern science, however, was adamant that the teeth are from "giant extinct apes".

As far as this writer knows, the only evidence that science possesses of these creatures at the moment is a few teeth, some lower jawbones and possibly a piece of distal humerus. (Isn't it laughable that, ever since Darwin's time, science has been trying to make a man out of a monkey? Now, faced with the possibility of giant humans, they are trying to make monkeys out of men!)

An extract and photograph from the British *Strand* magazine of December 1895, reprinted in W. G. Wood-Martin's book *Traces of the Elder Faiths of Ireland*, mentions a fossilised giant that had been found during mining operations in County Antrim, Ireland:

Pre-eminent among the most extraordinary articles ever held by a railway company is the fossilised Irish giant,

which is at this moment lying at the London and North-Western Railway Company's Broad-street goods depot, and a photograph of which is reproduced here...

These giants, say the Inca, were so huge that "from the knee down, they were as tall as a tall man".

This monstrous figure is reputed to have been dug up by a Mr Dyer whilst prospecting for iron ore in County Antrim. The principal measurements are: entire length, 12 ft 2 in.; girth of chest, 6 ft 6 in.; and length of arms, 4 ft 6 in. There are six toes on the right foot. The gross weight is 2 tons 15 cwt.; so that it took half a dozen men and a powerful crane to place this article of lost property in position for the Strand magazine artist.

Dyer, after showing the giant in Dublin, came to England with his queer find and exhibited it in Liverpool and Manchester at sixpence a head, attracting scientific men as

well as gaping sightseers. Business increased and the showman induced a man named Kershaw to purchase a share in the concern. In 1876, Dyer sent this giant from Manchester to London by rail; the sum of £4 2s 6d being charged for carriage by the company, but never paid.

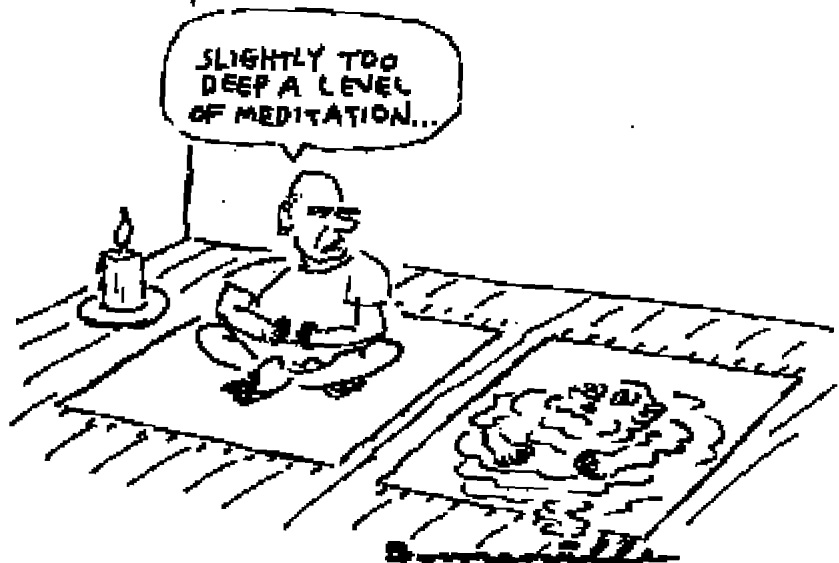
Evidently Kershaw knew nothing of the removal of the 'show', for when he discovered it he followed in hot haste, and, through a firm of London solicitors, moved the Court of Chancery to issue an order restraining the company from parting with the giant, until the action between Dyer and himself to determine the ownership was disposed of. The action was never brought to an issue.

Unfortunately (as far as this writer knows), nothing more was ever heard of the Antrim giant or its owners. ∞

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(Source: Written by John Mount, Queensland, Australia, email jemount@globalfreeway.com.au)



REVIEWS



BOOKS

Reviewed by Ruth Parnell

THE GOD FACTOR

50 Scientists and Academics Explain Why They Believe in God

edited by Dr John F. Ashton

Thorsons/HarperCollins, Australia, 2001

ISBN 0-7322-6876-1 (379pp pb)

Price: A\$22.95; NZ\$29.95

Distributor: **Australia/New Zealand—**
HarperCollins Publishers, www.harpercollins.com.au

The interface between science and spirit is a fascinating area of research, and for *The God Factor* Dr John Ashton (author/co-author of seven books and a research scientist specialising in chemistry) has assembled contributions from 50 scientists whose lives have been touched by God and who have a strong personal faith in the Creator. They may not be household names, but these scientists, selected from around the world, work as aerospace engineers, astronomers, biochemists, biologists, geophysicists, mathematicians, mechanical engineers, medical researchers, meteorologists, nuclear physicists, psychologists and more.

I was expecting more of these scientists to have discovered the reality of the Supreme Being through some deep quantum physics perspective, where the observer perceives him/herself to be one with the observed, but most of them seem to have fairly traditional spiritual viewpoints that are at odds with a rationalist's perspective. In the main, their belief in God sustains them, even if it may be hard for them to justify rationally. Some of them have arrived at their realisation of

God through intellectual insight, but others through personal experience, often at a very young age, or through prayer.

We need to remind ourselves that scientists are people, too, who are as entitled as the next person to contemplate a higher truth beyond themselves and try to make sense of existence. Perhaps it is typical scientists like these who are ultimately bridging the boundary between science and spirituality.

MYSTERIOUS LIGHTS AND CROP CIRCLES

by Linda Moulton Howe

Paper Chase Press, USA, 2000/01

ISBN 1-879706-91-1 (347pp pb)

Price: US\$19.95 + US\$3.00 s&h in USA;

Aust/NZ/UK orders, US\$15.95 + \$10 p&h

from Paper Chase; £17.00; NLGf55.90

Distributors: **USA—**Paper Chase Press, #850D, 8175 South Virginia St, Reno, Nevada 89511, tel +1 (503) 203 6248, 1-800 460 8604 (toll-free in North America); **UK/Europe—**NEXUS Offices

In her latest foray into unravelling the mysteries of the phenomenal world, US researcher/writer and award-winning documentary filmmaker Linda Moulton Howe examines England's crop circles and associated phenomena including strange, arguably intelligently guided lights in the fields.

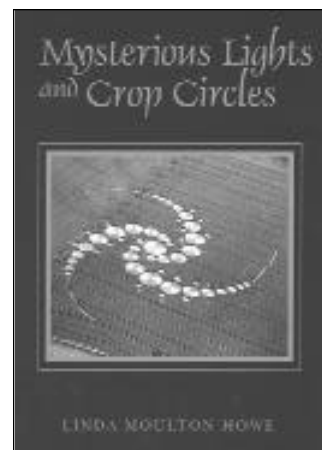
Howe has made at least five summertime visits to England between 1992 and 2000 and has experienced first-hand the awe of seeing and being in crop formations.

For her latest book, *Mysterious Lights and Crop Circles*, she has gathered anecdotal evidence from eyewitnesses and circle devotees and interviewed biophysicists and mathematicians. She highlights the work of Dr

W. C. Levengood who has studied various samples of biological material from seeds and stalks affected by the energies allegedly involved in creating the crop circles. Based on the evidence gathered, there's no way these creations could have been hoaxed on the ground, and so Linda gives the Doug and Dave episode the dismissal it deserves.

Many people claim to "resonate" with the glyphs, as if the geometries are familiar but hard to pin down, and Howe discusses some of the ancient symbols that have been repeated and built upon in the landscapes of England as well as on the continent.

So, whether plasma vortex energies or intelligently guided forces beyond this realm are behind the phenomenon remains to be determined (and may never be). Howe's book, which has a great selection of inspiring photographs, takes us to the heart of the mystery and is a worthy contribution in our confounding collective quest for knowledge.





REVIEWS

THE CONSPIRATORS Secrets of an Iran-Contra Insider by Al Martin

National Liberty Press, USA, 2001
ISBN 0-9710042-0-X (384pp tpb)
Price: US\$14.95 + US\$5.00 s&h in USA,
+ US\$7.00 to Canada, + US\$9.00 to
Aust/NZ/UK; NLG£59.90
Distributors: **USA**—National Liberty Press,
PO Box 43, Pray, Montana 59065, tel 1-
877 776 9004 (toll free, USA/Can), email
virtualagency@yahoo.com, www.almartin-
raw.com; **Europe**—NEXUS Office

A retired US Navy Lt Commander (Reserves) and former Office of Naval Intelligence operative, Al Martin is aptly described as "the man who knows too much"—certainly in his role as a "fourth-level" Iran-Contra insider, around which his book *The Conspirators* is based.

Martin's business prowess and his intelligence community connections had him rubbing shoulders with Oliver North and his "Cause" or "Enterprise" through the mid-1980s, and he was privy to details of all manner of criminal activity from financial fraud and narcotics trafficking to spying and assassinations. If you think the whole truth really came out in the Iran-Contra hearings, you're in for a surprise, for this book will open your eyes to the layers of covert machinations within the US Government, at least during the 1980s. Many of the players are still in power, unprosecuted for their crimes. Now, his health failing and much of his testimony not yet public knowledge, Martin has decided to turn whistleblower.

The Iran-Contra guns-and-drugs fraud, planned he says by George Bush Sr, Bill Casey and Oliver North, was envisaged to

require 500 men and raise \$35 billion, but blew out to using 5,000 operatives and raising \$350 billion. That it got out of hand is an understatement, but Martin claims that had it completely backfired then Operation *Orpheus* would have been implemented—the "distraction" of a small-scale nuclear war and a secret US Government coup in one fell swoop; never mind the millions who would die or be incarcerated in purpose-built detention centres. This is a sensational exposé that gives names, places, dates and events that darken America to this day.

GIANTS FROM THE DREAMTIME The Yowie in Myth and Reality by Rex Gilroy

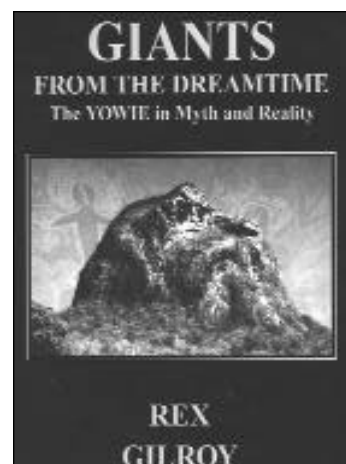
Uru Publications, Australia, 2001
ISBN 0-9578716-0-0 (379pp tpb)
Price: A\$58.00 + A\$7.00 p&h in Aust;
elsewhere, add \$15.00 p&h
Distributor: **Australia**—Uru Publications,
PO Box 202, Katoomba, NSW 2780, tel
+61 (0)2 4782 3441, email
randhgilroy@mpx.com.au

Australian field researcher and "amateur" Archaeologist and cryptozoologist Rex Gilroy has achieved another milestone in his remarkable life: he has finally published his long-promised book devoted to the yowie mystery. *Giants from the Dreamtime* is the culmination of close to 45 years of field research into what is one of his favourite passions. It's also a record of what he has gleaned from Aboriginal myth and anecdotal and recorded evidence from over 200 years of European settlement in Australia.

The focus of this area of his research is the yowie—the legendary hairy hominid creature that is the Australian equivalent of the Abominable Snowman of the Himalaya and

Sasquatch or Bigfoot of North America. Over the years, Rex Gilroy has encountered, recorded and photographed enough circumstantial evidence for him to conclude that the mysterious yowie is indeed real and comes in several variations, the largest identified as *Gigantopithecus*.

The range that this hairy Ice Age hominid allegedly covered (and may still cover) included not just Australia but Papua New Guinea, New Zealand and some of the Pacific islands. This suggests its original territory was broken up by a major geological cataclysm in a long-gone age. The photos of these overly large hominid footprints and their plaster casts are hard to ignore. But, as Rex is so keen to point out, mainstream scientists in Australia are all too ready to dispel evidence that is crying out for attention and scientific analysis. So much controversial evidence is passed over because it doesn't fit the consensus or come from an "establishment" scientist.



REVIEWS



CATASTROPHOBIA

The Truth Behind Earth Changes in the Coming Age of Light by Barbara Hand Clow

Bear & Co./Inner Traditions, USA, 2001
ISBN 1-879181-62-2 (256pp tpb)
Price: US\$16.00; C\$25.50; A\$36.00;
NZ\$47.95; £14.50; NLGf44,90
Distributors: **USA**—Inner Traditions, tel
(802) 767 3174, www.parkstpress.com/bearpress.htm; **Canada**—Ten Speed Press,
tel (416) 213 1919; **Australia**—Gemcraft,
tel (03) 9888 0111; **NZ**—Southern
Publishers, tel (09) 309 6930; **UK**—Deep
Books, tel 020 8693 0234; **Netherlands**—
NEXUS Office, tel +31 (0)321 380558

Humanity is a wounded species suffering from a collective psychosis due to unresolved trauma from cataclysms in our past, says Barbara Hand Clow in *Catastrophobia*.

A great catastrophe befell the Earth in 9500 BC when a supernova fragment tore through the solar system and rocked our world, leaving survivors to pick up the pieces of their civilisations and repopulate the planet. Another, less drastic, calamity struck in 5600 BC and affected the Black Sea region in particular. These cataclysms are now confirmed by science, and, to support her thesis, Clow draws extensively from the work of geologists D. S. Allan and J. B. Delair, authors of *Cataclysm!* (1997; first published in 1995 in the UK as *When the Earth Nearly Died*; see 2/24, 2/25). Clow suggests, as do Allan and Delair, that the cataclysm of 11,500 years ago was responsible for tilting the Earth's axis—an event that resulted in the precessional cycle of 26,000 years and the seasons as we know them.

However, Clow argues, it's time that

humanity faced up to this "catastrophobia" and realised that we don't have to live in constant expectation of apocalypse (not that all of us do, for that matter!). This collective fear, she says, is something that insidious forces have used for thousands of years to control the masses of humankind. Clow, author of *The Pleiadian Agenda*, *Heart of the Christos* and other titles, draws on the wisdom of her Cherokee/Celtic heritage and the evidence of significant archaeological findings to show that we are in the midst of a major shift of consciousness, heralding a new age of healing and enlightenment—not cataclysm. All in all, an empowering, thought-provoking book.

MYSTERIOUS AMERICA by Loren Coleman

Paraview Press, USA, 2001 (revised ed.)
ISBN 0-931044-05-8 (384pp tpb)
Price: US\$16.95 + p&h; NLGf47,90
Distributors: **USA**—Paraview Press, tel
(212) 489 5343, website www.paraviewpress.com; **Netherlands**—
NEXUS Europe Office, tel +31 (0)321
380558

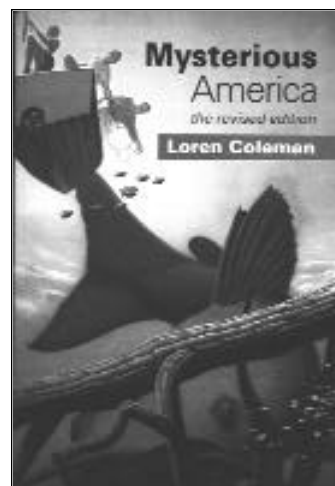
If cryptozoology is your special interest, you're likely to have a copy of Loren Coleman's classic 1983 book *Mysterious America*. However, this is the newly updated edition, so this is a good reason to update or explore this title for the first time.

This revised edition has new chapters, drawing attention to reports of the Giant Catfish and Minnesota Iceman, a new list of American "cryptid black panther" sightings, and many reworked/updated chapters covering all manner of weird creatures like the Dover Demon, Jersey Devil and Eastern Bigfoot as well as out-of-place kangaroos

and "devil" monkeys. Featured are accounts of experiences in places with "devil names" and sites that exhibit strange phenomena.

The book has proved an enduring "Fortean" reference. The bibliography has a regional US breakdown and there is now an index plus updated appendices covering such delights as recurring "spook lights" across the US, encounters with "teleporting 'gators" (sometimes with overtones of ancient mysteries), and sightings of phantom ships and lake monsters.

I like to think that maybe, one day, more and more of the "unexplained" will at least be explainable; but meantime, the sheer inexplicable just keeps happening, even in the most industrialised nation on Earth. Maybe we should be concerned that, with the shrinkage of our natural world, so many of us will never have the chance to catch a fleeting glimpse of something that makes us question our comfortable notions of reality.





REVIEWS

THE FRANKLIN CONSPIRACY

by Jeffrey Blair Latta

Hounslow/Dundurn Press, Canada, 2001
ISBN 0-88882-234-0 (320pp tpb)

Price: C\$22.99 + p&h; £11.99;

NLGf64,90

Distributors: **Canada**—University of Toronto Press, tel (416) 667 7791, (800) 565 9523, fax (416) 667 7832; **UK**—Dundurn Distribution, c/- Lavis Marketing, tel 01865 767575; **Netherlands**—NEXUS Europe Office, tel +31 (0)321 380558

The British Admiralty as well as the navies of Canada and the United States may have some astounding secrets locked away as a result of expeditions sent to chart a Northwest Passage from Europe, across the Arctic and down to China in the first half of the 19th century. These secrets, particularly those connected with the Franklin expedition, have been an obsession for Jeffrey Blair Latta, a freelance screenwriter and science writer based in Ontario, Canada.

He's not the first one to try to fathom the mystery surrounding two state-of-the-art British Royal Navy ships, the prophetically named *Erebus* and *Terror*, that set out in 1845 with 129 men, led by explorer Sir John Franklin, never to return. (Their mutilated remains were found on King William Island in 1929.) However, in *The Franklin Conspiracy*, Latta takes more of a bigger-picture approach than others.

Blair's methodical research has led him to believe the British Royal Navy had (and still has) a hidden agenda to do with investigating Arctic anomalies, from mirages of mountain ranges and alleged polar openings to sightings of tropical birdlife and giants. (The Inuit have their stories, too, and are said to have seen a giant aboard one of the

ships just before it sank.) It seems that the various search parties over the following 15 years had a dual purpose: to retrieve and keep secret any records of the Franklin expedition's progress. The plot thickens, as anthropological studies of three crewmen exhumed in the 1980s have revealed signs of bizarre autopsy. This is a mystery that may never be solved; nevertheless, Latta has produced a tantalising narrative that encourages readers to ask more questions.

BARRY & 'THE BOYS': The CIA, the Mob and America's Secret History

by Daniel Hopsicker

Mad Cow Press, USA, 2001

ISBN 0-9706591-0-5 (516pp hc)

Price: US\$29.95 + s&h; NLGf92,90

Distributors: **USA**—Mad Cow Press, PO Box 2687, Eugene, OR 97402, tel +1 (541) 935 6276, fax +1 (425) 955 7888, website www.barryandtheboys.com; amazon.com; **Netherlands**—NEXUS Europe Office

The biggest drug smuggler in US history was pilot Barry Seal, whose name is best known in connection with CIA-sponsored drugs-and-guns-running into and out of Mena Airport, Arkansas, in the early to mid-1980s. In 1986, having been exposed and cloistered in a halfway house, and threatening to spill the beans on covert operations and mob connections that ran right up to the Vice President, he was assassinated.

But how did he get where he got? Well, it's a long, very murky story, one that TV EP Daniel Hopsicker was warned off investigating for a documentary to be broadcast on NBC stations. But knowing this to be a story that had to be told, Hopsicker turned his research into a book, and a mind-blowing read it is. In *Barry & 'The Boys'*,

Hopsicker reveals Barry Seal's notorious career, which started in 1955 as a 16-year-old when he attended a two-week Civil Air Patrol camp run by pedophile CIA agent David Ferrie, and where he met fellow cadet Lee Harvey Oswald—both famous names in the JFK assassination eight years later. At 17, Seal was already running drugs for the CIA and owned two planes. His piloting skills, combined with his black ops connections, had him delivering guns to Castro in the late 1950s, participating in the Bay of Pigs fiasco, taking a mystery plane out of Dallas the day JFK was shot, making his mark in events around the Watergate break-in, as well as being party to the Mena drug-smuggling scandal and Iran-Contra fraud.

Seal was an integral part of the recent secret history of the USA. The FBI thought so, too, for its agents removed files in Seal's car at the crime scene, just after his murder. As for who gave the order, Hopsicker leaves us in no doubt as to who did.



REVIEWS



NATURAL COMPOUNDS IN CANCER THERAPY

by John Boik

Oregon Medical Press, USA, 2001
ISBN 0-97648280-1-4 (521pp l/f tpb)
Price: US\$32.00 + s&h (contact publisher); £26.00; NLGf89,90
Distributors: **USA**—Oregon Medical Press, 315 10th Avenue North, Princeton, Minnesota 55371, tel +1 (763) 389 0768, 1800 610 0768 (toll free), fax +1 (612) 397 9578, website www.ompress.com; **UK**—Intercept Ltd, tel 01264 334748; **Netherlands**—NEXUS Office

Although this is a technical book that is aimed at the medical professional, it is also a wealth of information for the layperson who wants to be well informed on cancer, how it behaves and how it can be alleviated with the least invasive treatments.

By "least invasive", read "most natural" in this compendium, which comprehensively reviews the actions and potential clinical use of over three dozen compounds. The coverage includes trace metals such as selenium, iron and copper, vitamin C and antioxidants, polysaccharides, amino acids and related compounds (including garlic), flavonoids, lipid-soluble vitamins, e.g., A, E and melatonin, and more. It's ably compiled by John Boik, who sits on the editorial board of *Alternative Medicine Review*.

The first part of *Natural Compounds in Cancer Therapy* looks at cancer at the cellular level, and has chapters on mutations and gene expression, growth factors and cell-to-cell communication. The second part focuses on cancer at the level of the organism, with an overview of angiogenesis (the growth of new blood vessels), invasion and

metastasis, and the immune system. The third part features clinical considerations with the use of natural compounds, as well as the effects of natural compounds on chemotherapy and radiotherapy. Each chapter is heavily referenced and there are substantial appendices—covering, for example, chemical data and dose calculations.

Judging from the data here, there are many promising natural substances that have anti-cancer effects. Practitioners, whether they be oncologists or herbalists, should be aware of this credible body of knowledge.

NATURE'S PHARMACY FOR ANIMALS

by Harald Tietze and Friends

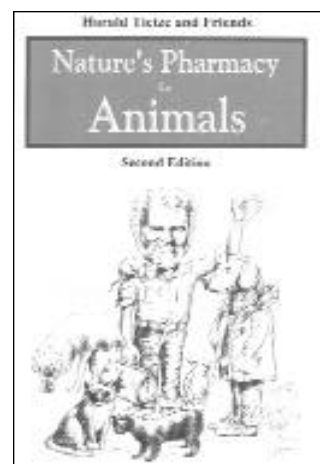
Harald W. Tietze Publishing, 2000 (2 ed)
ISBN 1-8761-7326-2 (133pp pb)
Price: A\$15.00 + A\$3 p&h in Aust; elsewhere, US\$7.00 p&h (Visa & MC only)
Distributor: **Australia**—Harald W. Tietze Publishing, PO Box 34, Bermagui, NSW 2546, tel +61 (0)2 6493 4552, fax +61 (0)2 6493 4900, email tietz@ozemail.com.au, www.wise-mens-web.com

We often hear from readers who want to apply sound health principles in the care of their pets and livestock, and now we can direct them to this handy little guide from prolific health writer Harald Tietze, which has actionable tips for animal owners and farmers alike. Harald has produced a wide range of titles, including *Earthrays: the Silent Killer*, *Urine: the Holy Water*, *pH: Youthing, Not Ageing* and *Kombucha: the Miracle Fungus*, so it was only a matter of time before he wrote *Nature's Pharmacy for Animals*, in which he applies much of his previous advice on natural therapies specifi-

cally to the welfare of our animal friends.

Just as we need to keep our own health in balance, so should we nurture the health of the animals in our care, and Harald advises us to observe how animals live freely in nature and apply that in practice. Animals naturally go on fasts or seek out special herbs and plants to get themselves back to a healthy state if they're feeling out of sorts.

However, when dealing with sick animals, it is important to obtain the correct diagnosis—from a professional veterinarian, Harald urges—prior to embarking on any home treatment plan. Regarding the latter, Harald describes many useful options including herbs (from angelica to yarrow) and how to use them for specific problems, as well as acupuncture, alkaline water, colloidal silver, electronic zappers, essential oils, flower essences, hydrogen peroxide and urine therapy. He discusses procedures, dosages and effects and, as always, relates some valuable and humorous anecdotes.





REVIEWS

THE MESSAGE FROM WATER

by Masaru Emoto

Hado Kyoikusha, Japan, and Hado Publishing BV, Netherlands, 1999–2001
ISBN 4-939098-00-1 (145pp tpb)
Price: A\$85.97; NLG f74.90
Distributors: **Australia**—Kinokuniya Bookstores, tel (02) 9953.8855; **The Netherlands**—Hado Publishing BV, tel/fax +31 71 521 0897, email order@hado.net, website www.hado.net; NEXUS Office, tel +31 321 380558



This book proved so popular in Japan, with over 60,000 copies sold since June 1999, that the publishers decided to release an English-language edition with French and German supplements. But the full-colour images in *The Message From Water* almost speak for themselves. They are the brainchild of Dr Masaru Emoto, a doctor of alternative medicine who has had an interest in "micro-cluster water" for many years.

Most of us have marvelled at pictures of snow crystals, but these photographs of crystals formed in frozen water are utterly breathtaking. Dr Emoto theorised that when a water molecule crystallises, pure water becomes pure crystal, though contaminated water may not crystallise as beautifully. He then set about "freezing", on high-speed film, water from a variety of sources—from glaciers, springs, rivers, lakes and marshes, from rain and from the tap, in Japan and around the world including Antarctica. He found that every sample he studied had a unique geometric signature.

Dr Emoto expanded his research to show the ever-changing nature of water in a new way: by capturing the crystallised image of water as it is played music as diverse as Tibetan sutras, Beethoven's *Pastorale* and heavy metal; shown letters and names in different languages (the Adolf Hitler vibration looks decidedly ugly); and imbued with a range of emotions from love to denial (the

most beautiful pattern associated with the former, of course). With the application of focused attention under lab conditions, water was snap-frozen to reveal "the mirror of mind", where consciousness left an indelible imprint. This research has more implications than are obvious at first glance.

CAPTAIN OF MY SHIP, MASTER OF MY SOUL

by F. Holmes Atwater

Hampton Roads Publishing, USA, 2001
ISBN 1-57174-247-6 (233pp tpb + Windows-formatted CD-ROM)
Price: US\$21.95; A\$57.95; NZ\$72.95 (due Nov); £18.99 (due Oct); NLG f65.90;
Distributors: **USA**—Hampton Roads, tel (804) 296 2772, www.hrpub.com; **Australia**—Gemcraft, tel (03) 9888 0111; **NZ**—NEXUS Office, tel (09) 405 1963; **UK**—Airlift Book Co., tel 020 8804 0400; **The Netherlands**—NEXUS Europe Office

The name "Skip" Atwater is well known in military remote-viewing circles as well as in consciousness research and education fields. Having joined the US Army in 1968 and completed degrees and graduate studies in psychology in the 1970s, Skip found himself on covert assignment in 1977 to get some "tips" from Robert Monroe, whose first book, *Journeys Out of the Body*, had also been a personal inspiration.

The US Army, together with SRI International, was investigating controlled remote viewing (CRV) as a surveillance and counterintelligence tool, so Monroe's input was sought for his direct experience in exploring altered states of consciousness. Soon Skip was working with RV "names" like Ingo Swann (the brains behind CRV), Hal Puthoff and Russell Targ and participating in highly classified military projects such as *Grill Flame* and *Stargate* (for which he was operations and training officer) with the US Army and then the DIA.

Upon retiring in 1988, Skip accepted the job of Research Director at the Bob Monroe Research Lab at The Monroe Institute in Virginia—and is still there. Since then, he has helped with the scientific investigation of the Hemi-Sync technology, written many technical papers, assisted umpteen people explore realms beyond the mundane physical, and collaborated in diverse research projects and educational programs.

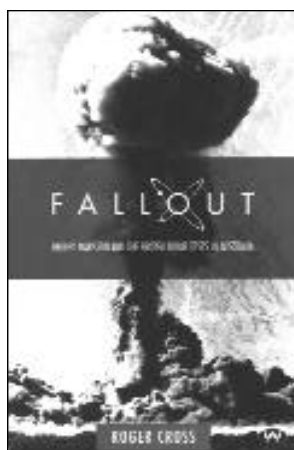
In *Captain of My Ship, Master of My Soul*, he ably reflects in his own inspiring way on his journey of spiritual awakening and growth—one that was part of him even in his military days, that led him to a realisation of All That Is, and that he's well qualified to share. (Skip Atwater is a speaker at the 2001 NEXUS Conference.)

REVIEWS



FALLOUT: Hedley Marston and the British Bomb Tests in Australia by Roger Cross

Wakefield Press, Australia, 2001
ISBN 1-86254-523-5 (226pp pb)
Price: A\$24.95; NZ\$39.95; £11; US\$ n/a
Distributors: **Aust**—Wakefield Press, tel +61 (0)8 8362 8800, fax +61 (0)8 8362 7592, email info@wakefieldpress.com.au, website www.wakefieldpress.com.au;
NZ—Addenda, tel (09) 834 5511; **UK**—Airlift, tel 020 8804 0400; **USA**—BHB International, tel (864) 885 9444)



When Britain approached Australia in 1950 to ask permission to conduct its open-air testing of atomic weapons within Australian territory, the anglophile Prime Minister Robert Menzies had so few qualms he didn't even consult his cabinet colleagues before consenting. And so the first atomic bomb was exploded in the remote Monte Bello Islands off the northwest coast of Western Australia in 1952. Later that year, Menzies acquiesced to Churchill by agreeing to two bomb tests at Emu Field in the far north of South Australia in October 1953. The testing fury began again in 1956 with two more at Monte Bello and four that year and more the next year at Maralinga, SA, the subject of damages claims by military veterans and indigenous Australians.

Many of these tests on Australian soil resulted in radioactive clouds that drifted over population centres, including outback towns in Queensland and capital cities including Adelaide and Melbourne (where resultant leukaemia clusters were observed), but the facts have largely been kept from the public. In *Fallout*, Melbourne academic Dr Roger Cross writes his history around CSIRO biochemist Dr Hedley Marston, who discovered a radiation plume over Adelaide from the 11 October 1956 Maralinga test and tried to expose the government/scientific cover-up. Dr Cross reveals the acrimony at the heart of Australian science at a time

when the nation was gearing up for a golden post-war industrial future and encouraging research into nuclear physics and medicine.

This is an especially relevant book in the context of recent testimony from Maralinga vets who have suffered the effects of these nuclear experiments and are seeking reparations, but also in view of plans to site nuclear waste dumps in the SA outback.

MATRIX V: Quest of the Spirit – The Ultimate Frontier by Val Valerian

Leading Edge Research Group, USA, 2001
ISBN n/a (550pp velo-bound)
Price: US\$59.99 postpaid in USA;
US\$74.95 postpaid to Canada, Mexico;
US\$89.95 postpaid elsewhere
Distributor: **USA**—Leading Edge International Research Group, PO Box 2370, Yelm, WA 98597, email val@trufax.org, website www.trufax.org

Frontier researcher Val Valerian suggested I allocate two weeks to review this latest volume in the Leading Edge *Matrix* series, but I'm lucky if I've got two hours to take in and describe the expanse of content in *Matrix V: Quest of the Spirit – the Ultimate Frontier*. He also suggested I suspend all notions of "body and gender identification beliefs" while I read it. That's easier said than done, even for someone of a paradigm-busting mentality, as some of the material on sexuality seems to smack of "spiritual sexism", to coin a new term. By the reasoning of the author (and I'm not sure if it is Valerian), few women can consider themselves on their "final incarnation" in third-density reality because they do not have the "unlimited creative ability" of men!

This book (it's velo-bound, so it's more a collection of papers) is meant to guide us towards the ultimate frontier, accessible via the Higher Self. However, the author seems to see some overriding ancient Orion agenda inhibiting women's ability to connect properly with their Higher Self. Thinking readers who have ever contemplated and actualised their higher spiritual nature will be somewhat aghast at some of these stances.

While acknowledging a debt to out-of-body pioneer Robert Monroe, *Matrix V* claims to present material to take us to territory beyond what Monroe even dared to describe. On principle, I'm wary of a book introduced as "the *only* book that exists on the planet right now that has this high level of information", but I'll leave readers to judge for themselves. No doubt fans of this series will want to continue the journey started with the first *Matrix* in 1988 and bury themselves in this one for weeks on end; they'll also welcome the reprint of the complete *Handbook for the New Paradigm*.



REVIEWS

THE MARIAN CONSPIRACY

by Graham Phillips

Pan Books, UK, 2001 (first published by Sidgwick & Jackson, UK, 2000)

ISBN 0-330-37202-5 (353pp pb)

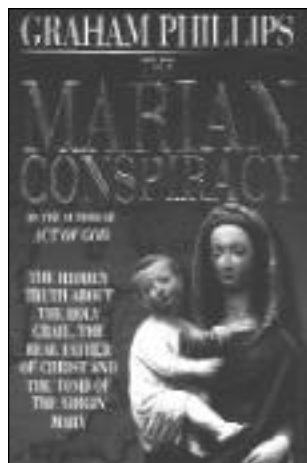
Price: A\$20.00; NZ\$32.95; £6.99

Distributors: **Australia/NZ/UK**—Pan Macmillan, www.panmacmillan.com

During a visit to the Vatican on the invitation of one Father Rinsonelli, a senior archivist in the Vatican Library, author Graham Phillips (*Act of God* and *The Search for the Grail*) was shown a room containing the rather disorganised "Secret Archives" of Vatican affairs through the centuries. He was asked by the archivist if he'd considered a link between the Holy Grail and the Holy Mother, the Virgin Mary. Very little was written about Mary, the Mother of Jesus, in the New Testament, about what had happened to her after the Crucifixion or where she'd lived her final years. The priest showed him a document about the appearance before the Inquisition of Giovanni Benedetti, an archaeologist with the Vatican Museum, who dismissed the idea that Mary's tomb was in Jerusalem but suggested a location in a distant land. Phillips was intrigued, so decided to find out more.

It had been a Church "tradition" dating back to AD 380 that Mary had ascended bodily into Heaven, and the Inquisition considered the tomb idea to be a Dark Ages myth. But it wasn't till 1950 that the Assumption was declared dogma by Pope Pius XII, so discussion of Mary's tomb is in effect heretical—for if Mary ascended into Heaven, how could she have been buried in a tomb?

Phillips's well-researched investigation in *The Marian Conspiracy* weaves its way from the Holy Land, to Ephesus in Asia Minor and on to Britain. It posits that the legends of the Grail and Avalon relate to Mary and her secret burial place in the British Isles on the island of Anglesey. An enthralling history with supporting b&w photos of sacred sites.



CD - ROM

Reviewed by Duncan Roads

THE MARALINGA FILES

by Paul Langley

Australian Atomic Ex-Servicemens Association, South Australia, 2001

Price: A\$12.00 inc. p&h in Australia

Distributor: **Australia**—Paul Langley, AAEA, PO Box 539, Noarlunga Centre, SA 5168

The shameful involvement of Australia in the UK's nuclear tests at Maralinga is still being unravelled. This CD-ROM is an excellent collection of documentation and accounts of just some of what went on during the British nuclear bombing of Australia.

MUSIC

Reviewed by Richard Giles

REALM OF THE RING LORDS

by Adrian Wagner

MediaQuest, UK, 2001 (57mins)

Price: A\$33.00; NZ\$45.00; £12.95;

NLG/n/a; US\$17.00

Distributors: **Aust/NZ/UK/Europe**—NEXUS offices; **UK**—MediaQuest International Ltd, tel +44 (0)1239 710594, email enquiries@mediaquest.co.uk, website www.mediaquest.co.uk/awagner; **USA**—MediaQuest International, website <http://mediaquestusa.com/index.html>

The third book by Laurence Gardner, *Realm of the Ring Lords*, was released in 2000 (see NEXUS Reviews, 8/01) and dealt with the Elven bloodline and its centuries of persecution by the Roman Church. The Ring and Grail cultures were preserved, but only because they went "underground".

Adrian Wagner, in his third CD of music based on the Grail legends, captures the story of the Elven kings, pixies and faeries and the mythology that we know so well from our childhood fairytales. He recreates the sound of Celtic dance, faerie processions and kingly marches and dances. He interprets the legends and tales of our culture, including Sleeping Beauty, Robin Hood and even Count Dracula.

In his own inimitable style, Adrian weaves into his music the real story made aural, dangling before us clues and musical triggers (note especially track 4, "Tomb of the Ring Lords"). He opens a collective memory link to evoke imagery of a long-distant past and the heritage of the Ring Lords and their faerie companions. This is a journey through the old dark lands, past the excesses of the mediaeval Church and into the light of a new understanding of the Ring Lords.

REVIEWS



MUSIC

Reviewed by Richard Giles

NATURE SPACE

by Sambodhi Prem

Global Suitcase, NZ, 2000 (50mins)
Distributors: **New Zealand**—Global Suitcase, tel +64 (0)3 545 0225, website www.globalsuitcase.com; **USA**—White Swan Music, tel 1800 825 8656 (toll-free in North America)

Originally from The Netherlands, Sambodhi Prem now lives in New Zealand. This is his fourth album and it features his concern for the natural environment and the precious gift of natural landscapes. He combines several types of guitar (steel, electric and synth) with native NZ bird sounds to complete a musical journey into melody and ambience. Made for relaxation and inspiration with a combination of guitar, violin, drums and keyboards, this is a fine album of elegant, ambient, textured music.

EVERY DAY IS A NEW LIFE

by Arto Tuncboyacıyan

Living Music, USA, 2000 (58mins)
Distributors: **Aust**—BMG Music, tel (07) 3236 0022; **USA**—Earth Music Productions, tel 1800 437 2281 (toll free), website www.livingmusic.com

We have featured a few albums in the past from Armenian artists, and this one is from legendary musician Arto Tuncboyacıyan, who was born in Turkey and later in life moved to the USA where he teamed with many well-known musicians. Not only does he play duduk (the haunting Armenian apricot wood flute), the traditional six-stringed sazabo and percussion, he is also an accomplished arranger. *Every Day...* features 11 of his compositions and an ensemble of 10 players including Paul Winter. This is a dynamic, resonant album with Arto's amazing, soul-filled voice.

UNTOLD THINGS

by Jocelyn Pook

Real World Records, UK, 2001 (51mins)
Distributors: **Aust**—MRA Entertainment, tel (07) 3849 6020; **UK**—Real World Records, tel 01225 744464, <http://real-world.on.net>; **USA**—Real World Music, tel (414) 961 8350, www.narada.com

If you enjoy listening to experimental, challenging and stirring music, Jocelyn Pook's album is one to hear. Her own compositions of sound and word verge on poetic verse music. This album turns your head, moving you to your depths. These are tremendously awakening, passionate compositions, accompanied by cello, viola, violin,

tabla, percussion and piano. *Untold Things* is a rare musical treat, wrapped up in a many-coloured coat of world sounds.

CARNIVAL

by various artists

Putumayo, USA, 2001 (44mins)
Distributors: **Aust**—MRA Entertainment, tel (07) 3849 6020; **USA**—Putumayo World Music, tel 1888 788.8629 (toll free), website www.putumayo.com

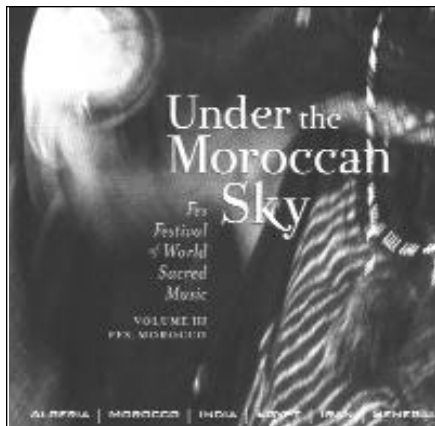
The history of Carnival dates back at least 2,000 years to the Greek and Roman festivals. The word comes from the Latin *carne vale*, or "farewell to the flesh" (Make of that what you will.) In Brazil, Cuba and other Latin American countries, Carnival is king. Brazilian carnival music blends African and Portuguese sounds into a brew that gets you up on your feet. Music from Cuba, Trinidad, Barbados, Haiti, Colombia and New Orleans helps you *enjoy* life while you have it. Party music for fun and magic!

UNDER THE MOROCCAN SKY: Fes Festival of World Sacred Music Vol. III

by various artists

Sounds True, USA, 2001 (72mins)
Distributors: **Aust**—Banyan Tree, tel (08) 8363 4244; **USA**—Sounds True, tel 1800 333 9185, www.soundstrue.com

Every year in Morocco, the Fes Festival of Sacred Music is held. For each festival, an album of the pick of the music is released by Sounds True in the USA. This year-2000 recording features: Musa Dieng Kala with West African Sufi music; Houria Aïchi from Algeria, with her Berber music; the Dufay Collective's Middle Ages and Renaissance pilgrimage music; Nass El Ghiwane, a Moroccan band, with songs of social injustice; Aruna Sairam, with devotional songs from South India; as well as sacred classical music from Iran, traditional Maddah music from Upper Egypt plus more. An exemplary collection of sacred world sounds.



The Dangers from Stray Electricity in the Ground

Continued from page 16

worn power poles on the way to the Beyerl farm. He says he never paid much attention to them until he became involved in the stray voltage issue.

"Now I look at them all the time," he said.

Stetzer knows that his confrontational style and the letters he has written to state officials have made him an outcast to some.

Along with putting his reputation and 21-employee business on the line, he claims he has poured \$2.5 million of his own money—along with \$2 million from his partner Graham—in research that includes computer monitoring of more than 6,000 cows in several states. This money he says he will never recoup because he's got "nothing to sell".

"If I charged the Beyerls my normal rate of \$150 an hour, they'd owe me \$500,000," Stetzer said. "This isn't about money. I spend 21 hours a day on this. The three hours I'm supposed to be sleeping I keep a pencil and paper next to my bed. Yes, it's consumed me. It's obsessed me. I could lose everything."

INCOMPETENCE OR A COVER-UP?

Just a few minutes after her husband James leaves to milk the cows, Grace Gumz arrives home from her job. She quickly tidies the kitchen and puts on a frozen pizza in the pizza oven that was an anniversary gift from James. There's just enough time for a quick meal before she needs to leave again to teach her son's religious studies class at church.

Gumz has asked her pediatrician for medical information about the possible effects of high-frequency current on her three children. "All of the utilities say there is no documentation and my pediatrician gave me at least a one-half-inch-thick packet of documentation," Gumz said. "Either they're doing a real bad job or it's all a cover-up."

She wipes the table with a dishcloth and puts down some dinner plates. "I shouldn't be tired in my own home. My husband shouldn't have to come home walking like a 60-year-old man. He shouldn't wake up crying because he's in so much pain. What's this doing to my kids? I want to be taken care of. I just get so angry..."

Gumz pauses, her voice choking and eyes watering. "It's just so pathetic."

Reaching for a stack of papers and documents, Gumz shows pictures of humped-up cows and others with open sores that began to show up on the herd in 1997. "This stuff is real, it's there."

The pizza is finished. She calls to her son to get ready.

"You know, most of us are happy to be living in the country and to be called farmers," she said. "It's gotten to the point that we're called stupid..."

Gumz stops and blinks back the tears. She walks past the guardian angel plaque and leaves for church. ∞

Editor's Note:

Chris Hardie's article was originally published as "Electricity's Dirty Little Secret" in the *La Crosse Tribune*, Wisconsin, USA, on Sunday 6 February 2000. It can also be accessed via the *Tribune's* website at www.lacrossetribune.com.

For further information, news updates and links on stray voltage, visit the website www.strayvoltage.org, set up by the *La Crosse Tribune* and funded in part by the Pew Center, an organisation devoted to civic journalism projects; also see the website www.toxicelectricity.com.

The Evidence for Secret Underwater Bases

Continued from page 32

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Harnessing the Universal Cosmic Energy

Continued from page 46

oscillate with the oscillating energy of the universe, one has the answer to harnessing the energy of the universe.

Now, the Swedish Stone appears to be more a dielectric than a rectifier; this explains the position of this detector in the Moray crystal set receiver. It is a well known fact that detector crystals, such as galena, possess an electrical capacity from 1nF to 100 pF.

Meanwhile, the modern semiconductor diodes that are used today instead of crystals have very little capacitance or none at all. A coil and capacitor form the resonating part of the circuit; altering the value of either will cause a shifting in the frequency of resonance. This is a fundamental principle in radio design. Resonance occurs because of the time it takes for the coil and capacitor to store and release energy. In the case of the coil, energy is stored in a magnetic field, while in a capacitor it is stored by the polarisation of molecules in its dielectric. The Swedish Stone forms part of the tuned circuit capacitor, and so

fulfils the requirement stated by Moray above: a dielectric oscillating with the oscillations of the universe.

The discovery that certain rocks possess the ability to receive cosmic radiation is very reminiscent of the discoveries made by Thomas Townsend Brown. Brown had discovered that the electrical resistance of high-K dielectrics would alter with the movement of astronomical bodies, such as the Moon. With further research he found that these same materials had radio-frequency electrical impulses appear across them. Finally he discovered that naturally formed rocks were able to rectify and accumulate these electrical impulses. For instance, basaltic rocks and granites developed voltages of around 700 mV when he measured them. Brown had always suggested that the energy received by the rocks was gravitational in nature; however, he had always entertained the idea that it might be some other form of energy. Either way, he referred to it as *cosmic radiation*—the same name given by Moray.

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About the Author:

Gavin Dingley has spent several years researching forgotten scientific discoveries and inventions, principally those in the field of electromagnetism and related subtle energies. His main goal is to reproduce many of these discoveries and devices, specifically those relating to Earth energies. Gavin's article, "ParaSETI: ET Contact via Subtle Energies", appeared in NEXUS 8/01.

Continued next issue...

A Central Asian Civilisation as Ancient as Sumeria

Continued from page 59

important. In Central Asia, people built cities as they did in Mesopotamia and the Indus Valley. But in the areas of Europe, farming took much longer to get there. The farming that finally entered into Europe after Central Asia, thousands of years and after the Indus Valley, represents a different type of culture.

LMH: Where does your work go from here? What's next?

Prof. Hiebert: We're very excited about discovering the stamp seal at our site dated to 2300 BC. We're certainly going to go back and look for more evidence of literacy and administration of trade from this time period. We hope to dig deeper to find out how [far down] this particular civilisation and site goes in this area. We haven't reached the bottom yet. We're still digging down. We really look forward to going back for a couple more seasons at this particular site. Then we hope to expand our research into looking at the ancient trade routes in the area.

LMH: How deep are you down?

Prof. Hiebert: We have a site that is about 35 feet [10.7 m] above the present

surface and we've dug down about 15 feet [4.6 m] below the present surface. And we're still going down! What that means is that the ancient surface has risen through time. There've been deposits that have come from the mountains; silt and dirt have been deposited around this archaeological site, raising the surface through time. So we don't know how much further we have to go down. And it's very exciting that it's continuing to reveal older and older strata to investigate. That's one of the joys of archaeology. You can never predict what you are going to find. Every season there are new surprises. ∞

Interviewer's Notes:

- Dr Hiebert and the geological team plan to return to the Anau site for a month in June 2001 to core down through the archaeological dig to see how much further it is to natural geological strata. They are planning an excavation trip for September 2001 or June 2002.

- A book about Dr Hiebert's work (*Origins of the Bronze Age Oasis Civilisation in Central Asia*) was published in 1994 by the Peabody Museum of Archaeology and Ethnology at Harvard University; it is available from Amazon.com.

- In other archaeological news, the Caral site in the Supe Valley in Peru has now been dated to between 2627 BC and 2020 BC—the same time period that Central Asia and Mesopotamia

were flourishing and the Egyptian pyramids were being constructed. Musical instruments were part of the Caral culture, which *Science* reported on April 27 as the Western hemisphere's oldest city and home to a civilisation as old and advanced as any in the world. See Earthfiles Science Report dated 6 May 2001 at www.earthfiles.com/earth236.htm.

About the Interviewer:

Linda Moulton Howe is a graduate of Stanford University, USA, and has a Masters degree in communication. She is a science and environment reporter for television and radio, including Premiere Radio Networks, and a reporter and editor on www.earthfiles.com. Over the last eight years she has regularly reported news for *Coast to Coast AM* with Art Bell and *Dreamland on Sundays*. Her film documentaries, *A Strange Harvest* and *Strange Harvests 1993*, explored the worldwide animal mutilations phenomenon. Linda's books include: *An Alien Harvest*; *Glimpses of Other Realities – Vol. I: Facts & Eyewitnesses* and *Vol. II: High Strangeness*; and *Mysterious Lights and Crop Circles* (see review this issue). These are available via amazon.com and barnesandnoble.com. Most of Linda's books and videos can also be obtained from NEXUS offices in Australia, New Zealand, United Kingdom and The Netherlands.