

trend to shoe-horn us into uniformity, conformity, and compliance, whether through the use of psychoactive drugs or any other means.

I also think that the nightmare has only just begun. The lid of Pandora's Box is already creaking open... I will be following more scary science in later Science Updates. I think we have far more to worry about than a mouse with a human ear growing out of its back, a condition described by some, I think appropriately, as an "ultimate blasphemy".

Some scientists do indeed wish to not only indulge in genetic engineering, but to create life *de novo*. The plan is to start with a simple organism, and design it from scratch. The obvious candidate is a bacterium. And what if this creature, probably named *bacillus arrogans*, climbs out of its petri dish?

I *know* these people -I have worked with their ilk. I gave up a career in medical research because I was not prepared to engage in vivisection. I *know* that they would have much preferred to do their experiments on human beings than on cats, dogs and monkeys, because they *told* me so -down at the pub over lunch.

*Hubris* is the word which comes to mind: the extraordinary arrogance and incaution of which some scientists are capable.

#### HOPEFUL SCIENCE: A CONTRACEPTIVE FOR MEN

Take a styrene maleic polymer, dissolve it in dimethyl

sulphoxide, and inject it into the vas deferens, the tubes that carry sperm from the testicles to the urethra. Simple as that. It appears that the way it works is that the substance coats the walls of the tubes, but does not occlude them. Further than that the exact mechanism of action is believed to be that complexes of charge on the tube walls rupture the membranes of spermatozoa as they pass through.

Named RISUG, for Reversible Inhibition of Sperm under Guidance, the method has been developed by the Indian Council of Medical Research, and has been tested successfully on 500 men.

Apart from temporary tenderness and swelling there appear to be no adverse side-effects. The contraceptive is believed to be effective for about 10 years, and the procedure is completely reversible. The polymer can be flushed out with a solution of sodium bicarbonate or by manipulation.

Historically India has had a major problem with attitudes towards male contraception. Indira Gandhi's government enforced mass sterilisations of men in 1976. The result was hundreds of deaths through infections following botched operations. Consequently vasectomy remained extremely unpopular, and at present 97 percent of all sterilisation operations in India are on women. With this new male contraceptive it is to be hoped that this trend can be reversed. Maybe one of the Four Horsemen of the Apocalypse can be slowed to a canter... See *New Scientist*, 8th June, 2002, page 5. ■

## AN ELECTROMAGNETIC GYROSCOPIC PROPULSION SYSTEM. © BY KEN MORTIMER, FSR Consultant and Amateur Astronomer.

Ken Mortimer prefaces his article with a letter containing the following words:

I mentioned on the phone that electromagnetic fields of energy possess mass. They may also be arranged in lines of force, like those of the magnetic fields of the Sun, Earth, or Jupiter for example.

A few years ago an article appeared in *Astronomy Now*, if my memory serves me correctly. It explained how meteorites caused the electromagnetic lines of force to 'twang' when they pass through the Earth's magnetic field. The meteorites build up a plasma ahead of them which stretches the Earth's lines of force. They then snap back into place. Clearly there is a force concerned that could be utilised for different modes of transport.

It is articles like this that provide the clues and indirect evidence that I, and the likes of Sandy Kidd, are on the right tracks. There are other areas of information in astronomy that provide yet further clues.

Nobody is breaking any current laws of physics with these ideas. It is simply a case of new theories,

new understandings of physics, and new ways to utilise energy. There are no free lunches being had by anyone, so to speak.

**O**n the 17th of December 2003, the United States of America in particular, and the rest of the world, will celebrate 100 hundred years of manned powered flight. Many previous attempts at manned powered flight ended in failure, and on both sides of the Atlantic mathematicians claimed that it couldn't be done. Heavier-than-air machines simply could not fly.

The triumph of Orville and Wilbur Wright on the 17th of December 1903 at Kitty Hawk in the USA was achieved by determination and vision, and since that historic date many other breakthroughs have been accomplished in spite of the negative predictions of mathematical experts. And indeed, manned flight has now evolved into manned Moon landings and space shuttles.

Now there is a desire to develop more advanced methods of propulsion away from what are nothing more than sophisticated giant firecrackers. They are launched from Cape Canaveral and elsewhere and place spacecraft

into orbit and beyond or towards the planets of our solar system.

For the last twenty years or so a number of people, both amateurs and professionals, have theorised and argued that it should be possible to put spacecraft into orbit and beyond using electromagnetic gyroscopes as a propulsion system.

Some, like Sandy Kidd from Dundee, have taken this idea a stage further, and have actually built working models. This was reported in the *Sunday Express* nearly 14 years ago (see page 10.)

Other ideas involving exotic uses of energy for space flight have been published more recently in the *New Scientist*, using a machine that cancels local gravity (see FSR volume 47/1), and a few years ago in the *Sunday Times* there was an article about a method using microwave beams (see page 10). More of this later.

First to electromagnetic gyroscopes. I began to think about this method of propulsion about twenty or so years ago. About 15 years ago I finally began to conclude how gyroscopes could be used as a propulsion system. The gyroscopes would have to be assembled inside a sphere as indicated in the illustrations shown in Figs. 1 and 2.

The gyroscopes would have to spin at an extremely rapid rate, and would be set at angles in order to cause a resistive effect against the Earth's electromagnetic fields. This could be achieved by causing the gyroscopes to orbit a common centre of the sphere by mechanical means.

The sphere would have to contain a vacuum, and there would have to be three spheres attached to each craft in order to create stability. The resistance created against the Earth's electromagnetic fields would cause the craft to move through space in any direction required by its operators. They would control the attitude of the orbiting gyroscopes to achieve the direction required.

One or two things I would like to clarify at this point.

A) The fact that the gyroscopes are totally enclosed in a vacuum would not affect how they interacted with the Earth's electromagnetic fields, since the fields would flow through the craft. B) In the article published in the *Sunday Express* in 1988 it claims that Isaac Newton's Law of Motion is being challenged. This is not so. This system of propulsion no more challenges Newton's Law than the blades of a helicopter do during take-off. What is being utilised with gyroscopic propulsion is simply another medium of physics. No free lunches are being had, so to speak.

I have no doubts that developing a system of propulsion as envisaged here will require a great deal of determination, as was the case with the first heavier-than-air machines. Different-sized gyroscopes and rates of spin would have to be tried. New kinds of metal and plastic might be needed, and so on. But it is this kind of exotic propulsion that will take us to the stars. Chemical rockets certainly will not.

At this point it might be useful to say something about the anti-gravity machines that are being experimented with by Evgeny Podkletnov and others. Having read the article in *New Scientist* of May 1, 2002, I make the following comments:

If the anti-gravity devices do cause a reduction in the

gravitational pull on a given object, it may still be the case that they will not cause a spacecraft to move through space. A way of causing the device to react against the Earth's electromagnetic fields would have to be found, to create lift.

However, the devices could be used to cancel the gravitational pull on astronauts and delicate instruments during take-off from the Earth or any other planet. This would allow faster acceleration rates to be achieved, thus reducing journey times. Such devices might also assist in overcoming inertia, a force related to gravity. Therefore such devices could be used on the same craft that employed electromagnetic gyroscopes for propulsion in order to reduce G-forces.

Lastly we come to microwaves. Approximately five years ago an article headline in the *Sunday Times* read: "Microwaves punch a path into orbit for spaceplanes" (see page 10). I found this extremely interesting. (For decades objects of unknown origin have been seen moving through our skies at hypersonic speeds, with no sonic booms. This has baffled UFO researchers and scientists for years.)

The microwave beams are projected from the craft in the direction of intended flight, and punch a hole through the air to allow for easy passage of the craft firing the beam.

Interestingly, the microwave device could also be included on the same craft as the two devices previously discussed, but once again for different reasons. If the microwave device could be upgraded for the purpose of clearing interstellar debris out of the path of extremely fast moving spacecraft, that would be yet another huge breakthrough towards the ambition of building spacecraft that are truly capable of visiting other star-systems.

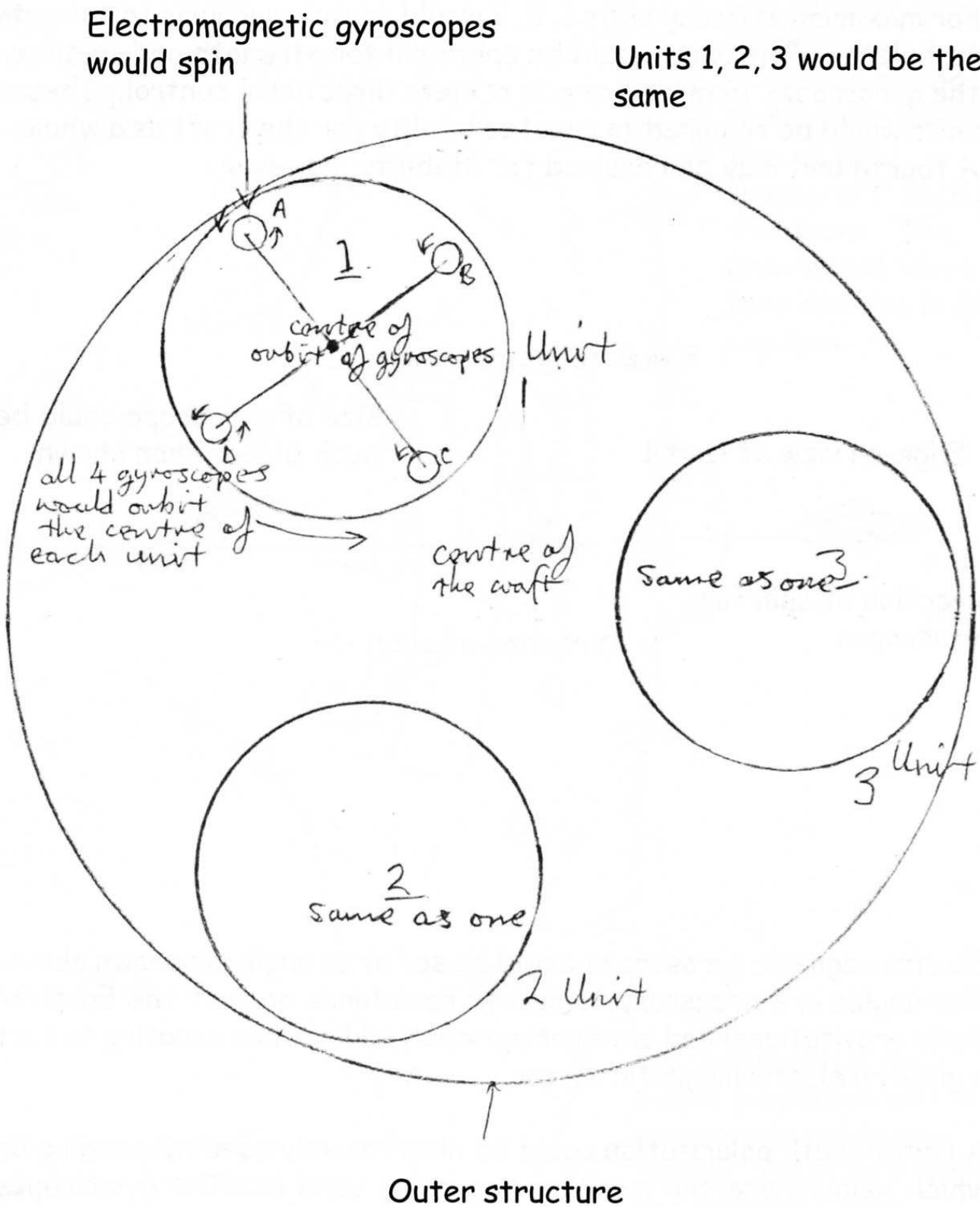
All these three systems could be powered by solar cells attached to the outer shell of any given spacecraft being flown. At least two of the systems could use superconduction. The Podkletnov machines and the gyroscopes. The gyroscope units would be very cold anyway because of the vacuum conditions.

Because of the extreme speeds that could be achieved using such devices, I think something needs to be said about Einstein's relativity equations which mean that as an object approaches the speed of light it becomes more and more massive, and so needs more and more energy to drive it. I am not necessarily suggesting speeds such that this effect becomes significant.

What we are more concerned with is that conventional spacecraft, chemical rockets, that is, have to carry all their own fuel, and it would need a truly enormous amount for a long journey at high speeds. This is fundamentally different from having an infinite access to energy, as the craft and devices described in this article would have by the use of solar cells, perhaps augmented by onboard nuclear energy units.

Therefore, just as Newton's Third Law of Motion remains unchallenged, neither is there any infringement of Einstein's relativity principle. The understandings of physics are moving on to new realms of depth of thinking, and new methods of practical application that were unknown in Newton's -and Einstein's -time. ■

On this sheet are a few basic ideas indicating how a craft using electromagnetic gyroscopes would operate. The craft would not use any aerodynamic principles, and so could also operate in space.

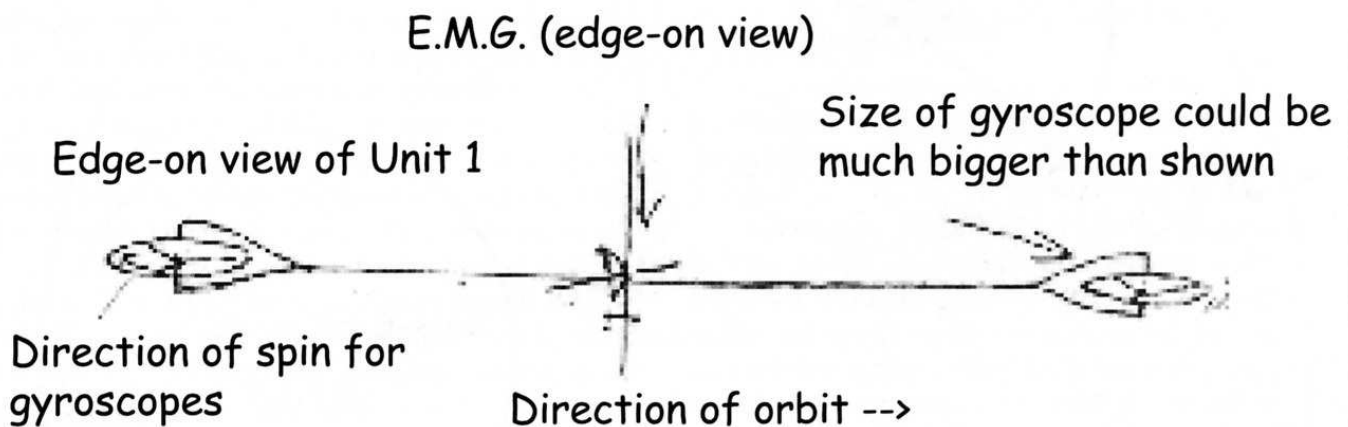


I do not think it would be required for the units to spin about the centre of the craft, particularly since this would destabilise it.

Fig. 1

There are numerous ways in which this very basic idea can be experimented with. E.g. the number of gyroscopes per unit could be just one, and the angles at which the gyroscopes are set needs to be experimented with. The size of each gyroscope could be crucial.

For maximum efficacy units 1, 2, 3 would contain vacuums to cut out turbulence. The units would be spherical for strength and to allow the gyroscopes to manoeuvre to achieve directional control. These units would be required to create stability for the craft as a whole. A fourth unit may be required for stability, however.

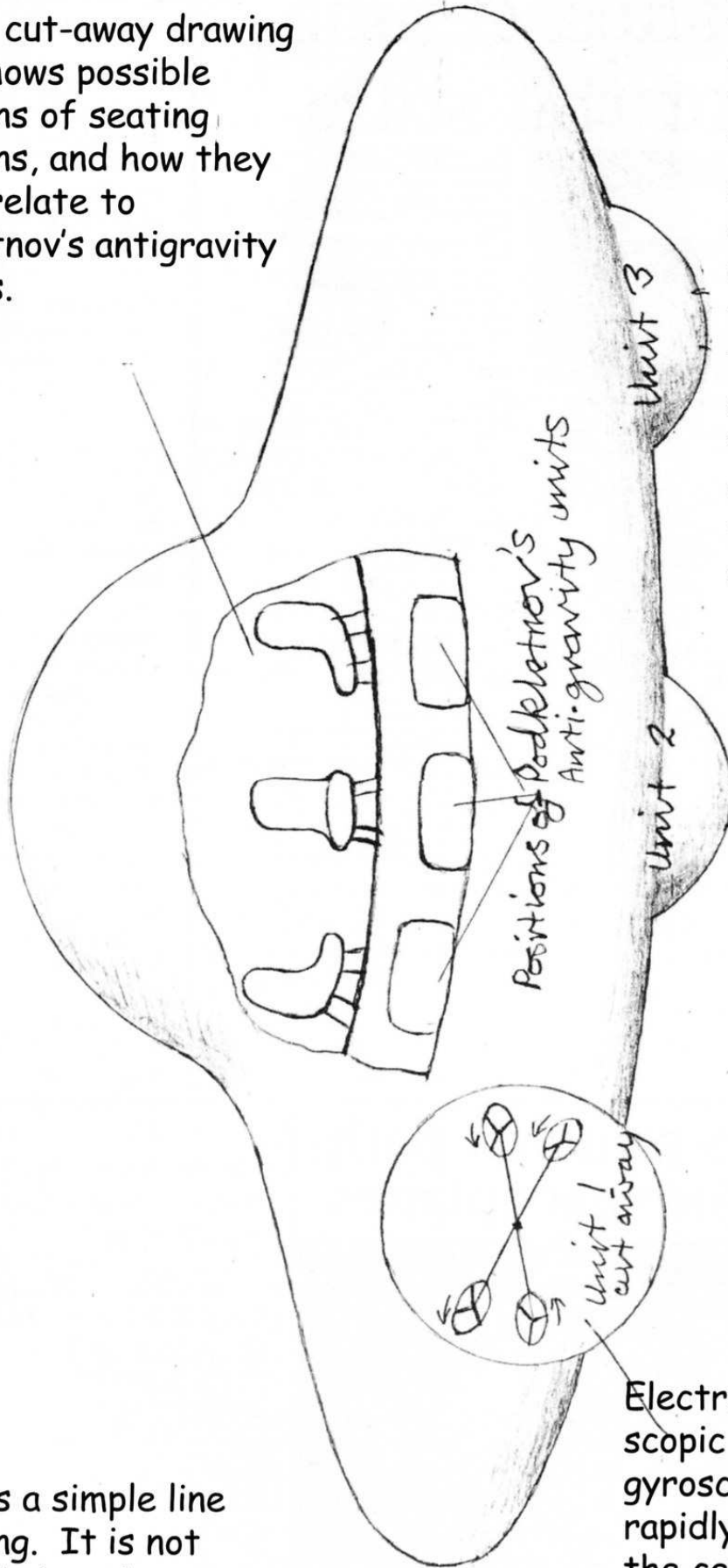


Electromagnetic gyroscopes would be set at an angle, as shown above. The angles are necessary to create resistance against the Earth's/Sun's gravitational and electromagnetic fields. Thus creating in fact a gravity/electromagnetic screw.

A north-south polarisation could be alternatively used, depending on which hemisphere the machine was being used in. The gyroscopes would of course be fixed to forks controlled from the centre attached to the axis of the gyroscopes. The power source of such a system would be an onboard atomic plant and/or converted solar power when possible.

Fig. 2

Simple cut-away drawing that shows possible locations of seating positions, and how they might relate to Podkletnov's antigravity devices.



If Podkletnov's devices do work they could be used to cancel gravity, and perhaps the effects of inertia during the rapid acceleration of the spacecraft, such as the above. The crew would therefore operate in G1 comfort.

This is a simple line drawing. It is not intended to show any structural or engineering designs.

Electromagnetic gyroscopic propulsion unit. All gyroscopes would spin rapidly, and in turn orbit the centre of each sphere to cause the required movement through space. Any form of transport would use such units.

Fig. 3

28/10/88 Sunday Express

# Garden-shed genius heads for the stars

by MICHAEL SHANAHAN

DAY trips to Australia and weekend jaunts in the Milky Way could become a reality, thanks to the brainpower of a Scottish inventor.

Sandy Kidd's discovery, which is set to revolutionise travel, is already sending shock waves through the scientific establishment.

One of Britain's top physicists described it "mind-boggling."

Mr Kidd's work, researched in his garden shed, will make science fiction writers' dreams come true. Trips to Mars will take 34 hours and the journey from London to Sydney will be reduced to a matter of minutes.

The 51-year-old former apprentice toolmaker's development of Gyroscopic Propulsion has also stunned



Kidd: Breakthrough

academics because it challenges Isaac Newton's Law of Motion.

He has worked out that, by setting gyroscopes at particular angles, a lifting force that defies gravity is produced.

Mr Kidd, who worked for five years on his brainchild at

his Dundee home, is now moving to the heart of the space industry in California where a massive investment programme is already under way.

Dr Harold Aspden, senior visiting research fellow at Southampton University, has seen the results of early tests.

"Scientifically speaking it is a bombshell," he says. I would not have believed this if I had not seen it with my own eyes.

"It will totally revolutionise the travel industry. Taken to the ultimate, we will have planes without jet engines and helicopters without rotor blades."

Mr Kidd is being financed by an Australian research company. A spokesman said: "We are on to something really big. The next stage is to power up Sandy's device in California with the prospect of building a full-scale vehicle at the end of the day."

"Money is no object, but we are determined that his work will not get out.

At Imperial College, London, Professor Eric Laithwaite, who has followed Mr Kidd's experiments, said:

"I have always been convinced it could be done... and I like to see someone defeat the system. He may be a long time perfecting it but I am sure he will succeed."

Mr Kidd made the final breakthrough in his work, highlighted in the Sunday Express last year, about four weeks ago in a laboratory in Melbourne.

"There was just one thing I couldn't understand," said the **dar technician,** **ed round the** **hat day when it** **ie. If I could** **ly hasn't some-**

*was the first time I did of Sandy Kidd.*

## STOP PRESS: NASA FUNDS ANTIGRAVITY RESEARCH.

The *Sunday Times* of August 4th, 2002 carries a fascinating article about the latest on Podkletnov's gravity-screening experiments, as reported on in the last issue of FSR, volume 47/1.

Apparently NASA has funded research to the tune of £ 3 million to replicate his experiments, and several large aerospace companies such as Boeing and Lockheed Martin also have antigravity research programs, about which they are understandably pretty secretive.

However, George Muellner who oversees Phantom Works, Boeing's research organisation, said that "antigravity works," and added "We know it can work, but what we don't know is whether it can be useful. The systems we have seen consume too much energy. I believe that one day there will be a breakthrough, but it is a long way away."

Well, it looks like the race is on. Interesting times -Philip Creighton.■

# Microwaves punch a path into orbit for spaceplanes

## AEROSPACE

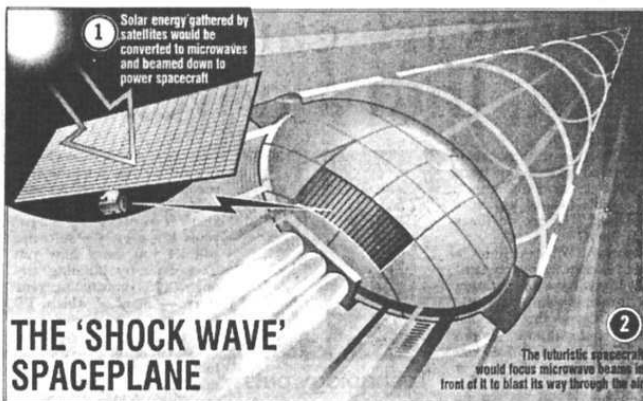
SPACEPLANES of the future could fly into orbit by firing microwave beams to help cut through the air, writes Max Glaskin.

After eight years of research, engineers at Rensselaer Polytechnic, New York, have successfully tested the new propulsion system in a tunnel that can recreate the shockwave effect caused by focusing microwaves.

They have established that the beams can be focused to blast away the air in front of the craft, like an invisible nose cone. Leik Myrabo, associate professor at Rensselaer's mechanical-engineering department, says a vehicle can travel in the slipstream of the shock wave at speeds of up to 19,000 mph, 25 times the speed of sound.

Myrabo says: "We are a step closer to proving that affordable, hypersonic aviation and space travel by individuals for business or pleasure could become a reality."

The test was successful at 10 times the speed of sound. This is less than the speed



needed to take a spacecraft into orbit but fast enough to show the concept works.

It may also be possible to use microwave beams to drive a fan-jet engine, propelling the ship forwards. This means it would not need to carry heavy tanks of rocket fuel.

Scientists are beginning to realise that spacecraft which have to carry their own fuel are too heavy and expensive

and may never offer an affordable approach for routine access to space, says Myrabo. Many also believe that chemical fuels do not deliver sufficient energy.

However, a personal spacecraft could be in our future, says Myrabo. The craft, shaped like a lens, would weigh less than a small car (1,200lb) but, being about 30ft in diameter, would cover one side of a tennis court. It

would be powered by microwaves transmitted from satellites orbiting the earth. The satellites would generate the microwaves by gathering and converting solar energy.

Such craft could speed people from Birmingham to Australia in 45 minutes or take visitors to the moon in less than six hours. Myrabo believes the technology will be ready for the next generation of travellers.

# Life on Mars was found by Britons - and it's still there

By Roger Highfield  
Science Editor

BRITISH scientists can claim to be the first to have found evidence of life on Mars in the wake of sensational new evidence that suggests primitive organisms may still thrive there.

A packed meeting of scientists in London was told yesterday that methane-belching bugs may have lived on Mars 600,000 years ago - much more recently than the 3-6 billion years ago suggested by American work that made headlines in August.

The discovery, by a team from the Open University, raises hopes that life may still exist in protected regions of our planetary neighbour.

Scientists were told of the "smoking-gun evidence of life on Mars" by Dr Ian Wright, a member of the Open University team led by Prof Colin Pillinger, joint organiser of the Royal Society meeting. "It is a staggering result," Dr Wright said afterwards.

The all-important question of who was the first to find



evidence of life on the red planet is also challenged by yesterday's evidence, which puts the British years ahead of the American team.

Dr Wright told the meeting that new analysis supported earlier work by the team that revealed a high proportion of organic material within EETA 79001, a Mars meteorite.

Doubts were cast on this evidence after it was published in the journal *Nature* in 1989.

Yesterday, however, Dr Wright presented new evidence to show that EETA 79001 did indeed contain organic material indigenous to the meteorite and not the result of contamination.

The discovery: Page 11

# SIGNS OF THE TIMES, BY GORDON CREIGHTON.

From a recent issue of the *Vancouver Sun* (March 21st, 2002) we learn some interesting details of the extraordinary climatic changes that are currently occurring in Canada as part of the upheaval predicted for these times.

Under the headline **TEMPERATURE RECORDS TUMBLE**, we are informed that, at no less than 230 places in British Columbia, record low temperatures had occurred during the week just elapsed!

More interesting still is an account in the same paper of the recent behaviour of the North Magnetic Pole.

## **Drifting North Magnetic Pole picks up pace in move from Canada. By RICHARD STENGER.**

The North Magnetic Pole could soon abandon Canada, migrate north of Alaska, and eventually wind up in Russia, according to a Canadian Scientist.

The magnetic pole, which has steadily drifted for decades has picked up its pace in recent years and could exist in Canadian territory as soon as 2004, says Larry Newitt of the Geological Survey of Canada.

If the pole follows its present course, it will pass north of Alaska and arrive in Siberia in half a century, but Newitt cautioned that such predictions could prove wrong.

"Although it has been moving north or northwest for a hundred years, it is not going to continue in that direction for ever. Its speed has increased considerably during the past 25 years, and it could just as easily decrease a few years from now," the geophysicist said.

The erratic pole can jump around considerably each day, but migrates on average about 10 kilometres to 40 kilometres each year.

Friend of navigators for centuries, beckoning compass needles from virtually every point on the planet, the North Magnetic Pole is distinct from the North Terrestrial Pole, the fixed point that marks the axis of the turning planet. The magnetic pole is currently 966 kilometres (600 miles) from the geographic one.

Because the magnetic pole lies in the Arctic Ocean, scientists attempting to pinpoint its precise location must visit during a brief window in the Spring.

"We always do this kind of work in May. We need frozen conditions so that we can land an airplane anywhere on ice or snow, but not so cold that it is impossible to work outdoors," Newitt said.

The North Magnetic Pole historically is resurveyed about once every decade. But Newitt and colleagues, who last studied the site in 2001, might attempt another trek in 2003 to investigate further its accelerated migration.

In this connection, I recall a recent book by a psychic lady (British I think, but unfortunately I do not remember either her name or the title) which predicts that the next

point at which the north magnetic pole will finally settle, to commence the "New Age", will be right on the Behring Strait, between Siberia and Alaska.

## **WHAT DID EDGAR CAYCE TELL US?**

Those of our FSR readers who know of my association and connection with America's most famous psychic and prophet, Edgar Cayce (pronounced Caysee), during the closing years of his life here, may be wondering what -if anything- Cayce ever had revealed about these matters?

I was stationed as Consul General (Acting) at New Orleans towards the end of World War II, and, so far as I have been able to learn, I was one of *only two British people* -possibly indeed *only two Europeans* -who had direct "psychic readings" (on health or on past lives) from Cayce.

The other one was my colleague David Rogers, my immediate predecessor at New Orleans, who left to go to Mexico as our Ambassador there.

*The answer is yes! Cayce had indeed spoken of this matter, and in an immensely important connection!*

In Cayce's psychic reading for a patient (No. 826-8 in the A.R.E. Archives) on August 11th, 1936, the patient had asked: "*What great change, or the beginning of what great change, is to take place in the Earth in the year 2000 to 2001, A.D.?*"

Cayce's reply was: "*When there is a shifting of the poles. Or a new cycle begins.*"

Already in the *Sunday Times* of 15th July, 1984, we had seen an item about all this under the heading-

## **North Pole Goes West.**

The Earth's magnetic field may be about to flip direction, according to a geologist from the University of Minnesota, and if the flip actually comes it could play havoc with compasses and weather for as long as 2,000 years.

Scientists have known for a long time that the magnetic field does flip occasionally. The evidence comes from sediments laid down at different geological epochs. The direction to which the field was pointing at the time of the rock's formation governs the way the rock looks under a microscope.

The new evidence comes from sediments in a Minnesota lake-bottom. The magnetic field has not changed direction for 700,000 years, but its strength has halved over the past 4,000. This, according to the geologist, Subir Bannerjee, may be the prelude to reversal. And the reversal could take a few years -or a couple of thousand -if history is any guide.

If it did happen, magnetic compasses would be useless for navigation during the change, and the protection that the field gives us from solar radiation could be altered, perhaps causing major changes in climate.

Finally, animals that use magnetism for navigation -birds, fish, and honey-bees, for example, may be utterly confused.

Subsequently, in July 1986, in the first published report on the findings of their *Voyager 2*, NASA mentioned that the magnetic field of Uranus appeared to be “flipping.”

The *New Scientist* carried the following piece on 13th April 2002, page 11.

### **Anomalies hint at magnetic pole flip.**

The Earth’s magnetic poles might be starting to flip say researchers who have seen strange anomalies in our planet’s magnetic field.

The magnetic field is created by the flow of molten iron inside the Earth’s core. These circulation patterns are affected by the planet’s rotation, so the field normally aligns with the Earth’s axis - forming the north and south poles.

But the way minerals are aligned in ancient rock shows that the planet’s magnetic dipole occasionally disappears altogether, leaving a much more complicated field with many poles all over the planet. When the dipole comes back into force, the north and south poles can swap places.

The last reversal happened about 780,000 years ago, over a period of several thousand years. Now Gauthier Hulot from the Institute of Earth Sciences in Paris and his colleagues think they have spotted early signs of another reversal.

### **South African anomaly**

They used data from the *Ørsted* satellite to study strange variations in the Earth’s magnetic field. In particular, one large patch under South Africa is pointing in the opposite direction from the rest of the Earth’s field and has been growing for hundreds of years.

The anomalies have already reduced the overall strength of the planet’s magnetic field by about 10 per cent. If they continue to grow at the same rate, the Earth’s dipole will disappear within just two millennia.

But *Ørsted* is the first satellite to take a snapshot of the Earth’s magnetic field for 20 years, and such scant data makes it difficult to predict future shifts.

“We can’t really tell what will happen,” says Hulot. “But we speculate that we’re in an unusual situation that might be related to a reversal.”

*Nexus Magazine* carried the following piece on page 6 of June/July 2002.

### **EARTH’S MAGNETIC FIELD PRIMED FOR A FLIP?**

Earth’s magnetic field could be gearing up for a flip, sending magnetic north into new digs in Antarctica, a study suggests.

Although such reversal has never been recorded by humans, switches have occurred many times in the Earth’s past. Little is known about why this happens, but researchers have suspected for years that currents of molten iron circulating Earth’s outer core (creeping at about 1 metre per hour) set up the opposite magnetic poles at the antipodes. And computer models hint that vortices in the molten flow that swirl in a direction which weakens the magnetic

field might begin the pole-flipping process.

Now satellite observations have turned up evidence that these subterranean vortices do exist. By comparing the strength and orientation of the magnetic field measured by two satellites in 1980 and 2000, researchers at the the Physics of the Globe Institute of Paris (IPGP) and the Danish Space Research Institute in Copenhagen, were able to plot the currents of molten iron that create the magnetic dipole.

In an April 11 letter to *Nature*, the team describes large whorls of the southern tip of Africa and near the poles - areas where the magnetic field has already flipped.

Source: American Association for the Advancement of Science, April 10, 2002. [www.academicpress.com/inscight](http://www.academicpress.com/inscight) ;see also Linda Moulton Howe’s website at [www.earthfiles.com](http://www.earthfiles.com)

### **WHAT WOULD BE THE CONSEQUENCES FOR LIFE ON EARTH OF A REVERSAL OF THE EARTH’S MAGNETIC POLES?**

Opinion differs, but we have gleaned the following major points:

1) The consequences for human compass-based navigation, and animal navigation, would be obvious; but how serious this would be would depend upon the rate of change of direction of the field. A more-or-less complete loss of the field would preclude it’s use at all for navigation.

2) A much more serious issue surrounds the role of the Earth’s magnetic field in deflecting charged particles from the solar wind around the Earth. In the complete absence of a magnetic field, regardless of direction, this would not happen, and so the barrage of these charged particles would be unimpeded (except by the atmosphere.)

(Since the solar wind even exerts a pressure on the Moon, and partially compensates for loss of its orbital energy by tidal drag on the oceans of the Earth, one can envisage that a disruption of the Earth’s magnetosphere could in time even influence the orbit of the Moon.)

However, two additional points need to be noted: a) The atmosphere itself also provides significant protection against penetration of these particles. b) Although only charged particles can be deflected by a magnetic field, the solar wind is not the only source of charged particles. Such are also created by high-energy ionising radiations such as X-rays, gamma-rays, so-called cosmic rays, by their action on the upper atmosphere. Only a fraction of this radiation normally reaches the ground.

The fossil record apparently provides no record of major extinction occurring at the time of the last reversal of the magnetic poles. However, that does not mean to say that there was none at all.

Even if the atmosphere still sufficiently protected surface-living life from radiation otherwise deflected by a now-failed magnetic field, the same would not presumably be true of the upper atmosphere, and so a failure of the field could presumably lead to climate change, as well as diurnal effects connected with night and day.



It seems certain that all radio communications dependent upon the normal changes in the ionosphere would be altered, and likely that communications satellites could also be disrupted.

All in all, apart from these general points mentioned, there seems to be a wide divergence of opinion as to what the consequences to Life on Earth might be of altering, or even losing the geomagnetic field for periods.

Fancifully we might envisage that humankind might one day be in a position to create an artificial geomagnetic field by surrounding the planet with superconducting cables carrying electric currents, for example.

However, it has to be considered that such artificially generated currents could themselves interact with the Earth's whimsical core through the dynamo effect, and either stimulate the regeneration of a desired natural field, or create further instability. ■

## IS EARTH A COSMIC FARM OR NURSERY FOR VARIOUS SPECIES OF ALIENS? © BY JORGE MARTÍN, Editor, *EVIDENCIA OVNI* (Puerto Rico) and FSR Consultant. (Précis translation from Spanish, (*EVIDENCIA OVNI* No. 6, 1995. G.C.)

If it is alien beings who are mutilating the animals here, *why are they doing it?* And - an even more pressing question - if so, why do they leave the mutilated carcasses of the animals lying about for us all to see, thereby creating alarm among our public?

Some investigators have proposed the hypothesis that these are *non-human* beings that have intentions to conquer the human race, and that the mutilations are part of a psychological warfare plan to show the humans that *they* - i.e. the alien beings - possess technological and psychological capacities that are very superior to ours. Simply leaving the animals' bodies would be a way by which to show us how powerful they could be and how useless it would be to confront them.

But, on the other hand, during the course of investigating many other UFO abduction cases, in which use has been made of *hypnosis*, quite different information has been secured as a result of the eyewitnesses' recollections of explanations that have been given to them - in almost all cases by beings of the "Grey" type.

For example, in the case of Judy Doraty (see Fig. 3 & 1) in the USA, when Dr. Sprinkel hypnotised her and asked her what the beings had said to her about what they were doing with the parts of the animals' bodies taken by them, this is what she revealed:

"They are making tests... they are interested in this for mankind's sake and also for their own sakes. They say that mankind is going to kill itself with its contamination of the earthly environment. With something - I don't know what. *It is something in the water.* It is going to be in the vegetation - it is in the vegetation already. It is something that has an E and an S in its name. And it has a number. Plutonium or something....? They fear there is going to be a great

loss of life... a great loss of lives because of that... a certain point has already been passed .... It .... *can* be reversed, but there will have to be a great loss of lives because it has already filtered through to the point where there is going to be so much contamination and so much of this poison in the water that folk will die from it. And it is somehow connected with nuclear waste or tests for... causing a change in the chemical composition of something....

"It is already reaching the human beings. Before that, it was first in the soil, now it is in the vegetation, and if nothing is done there is going to be a great loss of lives. It is a chemical, but I can't see what it is [the formula shown by them] has numbers and letters. There is a 6, and another 6. Plutonium? something? An "R".... I don't know...

"It is that if we carry on as we are now doing, what is going to happen will involve not only us, but possibly



**Fig. 3. Judy Doraty under hypnosis.**