

THE EARTH'S MAGNETIC FIELD, LOCATION AND MOVEMENT OF THE POLES, ORIGINS OF THE FIELD, AND ITS CONSEQUENCES FOR LIFE ON EARTH.

During the sixteenth century, mariners believed that somewhere in the North was a magnetic mountain that was the source of attraction for compasses, and dangerous to any ship that might stray too close to it. (Note at this point that the North Pole actually has the south polarity of a magnet since opposite poles attract; and correspondingly for the South Pole.) It was not until 1600 that Sir William Gilbert, physician to Queen Elizabeth I, suggested that the Earth itself was a giant magnet, although the origins of its magnetism remained unknown.

Gilbert believed that the North Magnetic Pole coincided with the north geographic pole, i.e. the north point of the Earth's axis of rotation. Magnetic observations made by explorers in subsequent decades showed that this was not true, and by the early nineteenth century, the accumulated observations proved that the pole must be somewhere in Arctic Canada.

Subsequently many expeditions have been mounted to locate the exact position of the North Magnetic Pole. In 1831 James Clark Ross located the Pole at Cape Adelaide on the west coast of Boothia Peninsula.

The next attempt was made some 70 years later by the Norwegian explorer Roald Amundsen. In 1903 he left Norway on his famous voyage through the Northwest Passage, which, in fact, was his secondary objective. His primary goal was to set up a temporary magnetic observatory in the Arctic and to re-locate the North Magnetic Pole.

Shortly after World War II a pole position was next determined by Canadian government scientists at Allen Lake on Prince of Wales Island. This, in conjunction with other observations made in the vicinity, showed that the pole had moved some 250 km northwest since the time of Amundsen's observations. Subsequent observations by Canadian government scientists in 1962, 1973, 1984, and most recently in 1994, showed that the general northwesterly motion of the pole is continuing, and that during this century it has moved on average 10 km per year.

In addition to its trend of movement, the pole also shows a diurnal fluctuation of position. The pole wanders daily in a roughly elliptical path around its average position, and may frequently be as much as 80 km away from this position when the Earth's magnetic field is disturbed.

ORIGINS OF THE EARTH'S MAGNETIC FIELD.

William Gilbert supposed that the Earth rotated because it was magnetic. P.M. Blackett considered the opposite possibility—that the Earth was magnetic because it rotated. This also turned out to be directly correct.

Magnetic fields are produced by the motion of electrical charges. For example, the magnetic field of a bar magnet results from the motion of negatively charged electrons in the magnet. The origin of the Earth's magnetic field is still not completely understood, but is thought to be associated with electrical currents produced by the coupling of convective effects and rotation in the spinning liquid metallic outer core of iron and nickel. This mechanism is termed the dynamo effect.

We are still not sure about what provides the heat in the Earth's core. It might come from some of the iron becoming solid and joining the inner core, or perhaps it is generated by radioactivity, like the heat of the Earth's crust. The flows are very slow, and the energy involved is just a tiny part of the total heat energy contained in the core.

So the molten metal is believed to be circulating. By moving through the existing magnetic field, it creates a system of electric currents, spread out through the core, somewhat like Faraday's disk dynamo.

Because the field generated depends upon any small field of random polarity, it can build up in any direction, and this explains why it is also capable of reversing.

CONSEQUENCES FOR LIFE ON EARTH.

A fundamental property of magnetic fields is that they exert forces on moving electrical charges. Thus, a magnetic field can trap charged particles such as electrons and protons as they are forced to execute a spiraling motion back and forth along the field lines.

One of the first fruits of early space exploration was the discovery in the late 1950s that the Earth is surrounded by two regions of particularly high concentration of charged particles called the Van Allen radiation belts.

The primary source of these charged particles is the stream of particles emanating from the Sun that we call the solar wind. The charged particles trapped in the Earth's magnetic field are also responsible for creating the aurora.

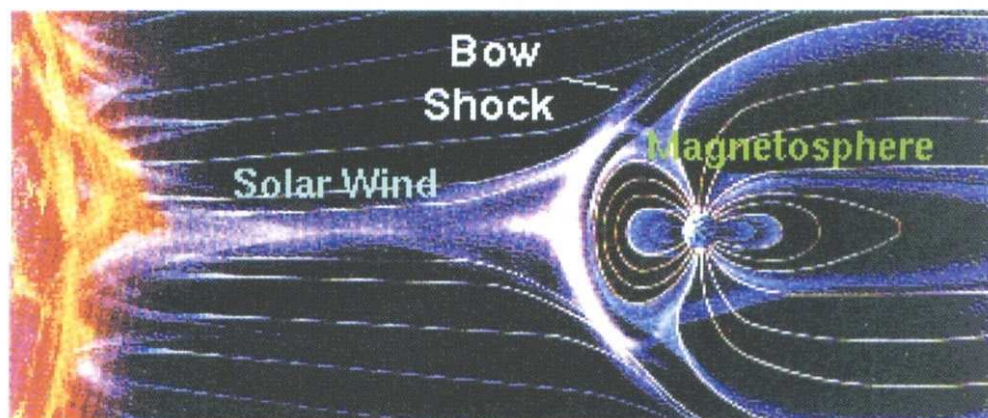
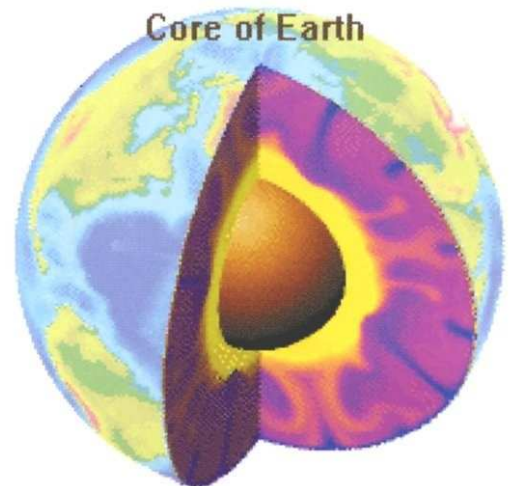
The solar wind is a stream of ionized gases that blows outward from the Sun at about 400 km/second and that varies in intensity with the amount of surface activity on the Sun. The Earth's magnetic field shields it from much of the solar wind. When the solar wind encounters Earth's magnetic field it is deflected like water around the bow of a ship.

The imaginary surface at which the solar wind is first deflected is called the bow shock. The corresponding region of space sitting behind the bow shock and surrounding the Earth is termed the magnetosphere; it represents a region of space dominated by the Earth's magnetic field in the sense that it largely prevents the solar wind from entering. However, some high energy charged particles from the solar wind leak into the magnetosphere and are the source of the charged particles trapped in the Van Allen belts.

Thus, without its magnetic field the Earth would not be so well protected against this blast of ionised gas from the Sun. Of course, it would still be protected by the atmosphere, but the atmosphere itself could perhaps be partially eroded by the solar wind. ■



Movement of Pole.

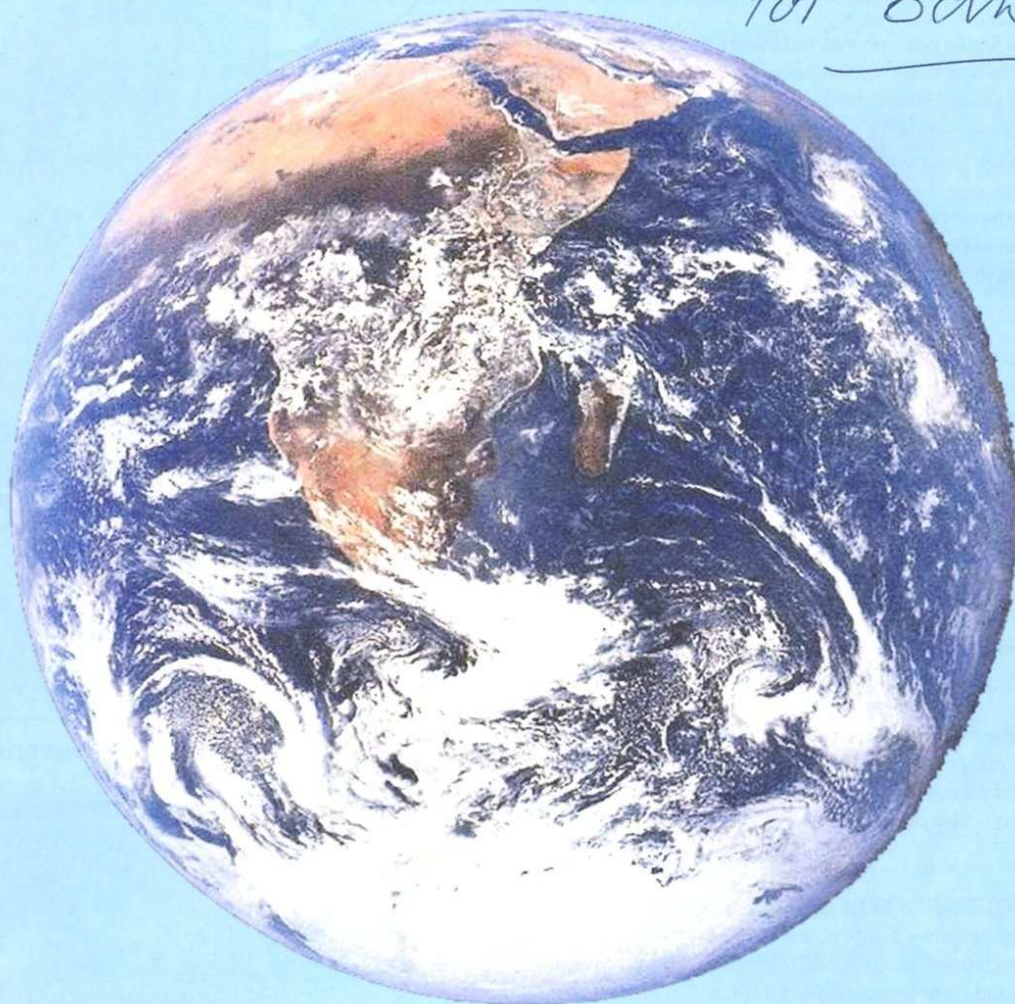




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For: Edwin



WHAT IS HAPPENING TO THE EARTH'S MAGNETIC FIELD?

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EDITORIAL: OUR NEW SCIENCE SECTION

The current developments in science and technology are becoming ever more extraordinary, and their implications are profound indeed, bringing with them either immense benefits, or catastrophic potential for misuse, or both.

We have therefore started a Science Update section in which we aim to keep a finger on the pulse of the new. There is also an increasingly important legal, social, moral and ethical side to many of these issues, and it is our intention to report on these aspects as attentively as on the scientific developments themselves.

One does not need to be much of a futurologist to envisage discoveries and applications which will have as much human significance to us as the invention of the hydrogen bomb.

I personally think they could feature in our lives within even the next five years or so, and it is therefore very important to promulgate information about such developments in a magazine such as this which is, after all, concerned primarily with a major issue which we

believe can impact the very fate of humankind. I refer, of course, to the alien presence, whose true significance we are still very far from properly understanding.

A lot of the kind of developments I am referring to do *not*, in my opinion, receive adequate coverage in the mainstream media, and in consequence public lay awareness of them is likely to be often hazy.

A major exception to this woeful situation is provided by the magazine *New Scientist*, one of the best popular science magazines in this country. It is therefore from the *New Scientist* that I have drawn much of my material -with thanks that we still have open-minded scientific reporting and debate of this quality.

So I have been going through my back issues and indexing items which I find particularly important and interesting. Quite arbitrarily I will start this Science Update section with material derived from the *New Scientist* issue dated 20th April 2002. -Philip Creighton. ■

SCIENCE UPDATE

MORE ON SCHRÖDINGER'S CAT.

In our last issue we reported on proposals to end, by experiment, the major controversy in quantum physics as to whether the phenomenon of so-called superposition - something being in two states at once, a hybrid reality - can translate or carry over from the level of the very small of particles and atoms to the macroscopic world we ourselves perceive. (See Schrödinger's Cat, page 3, FSR volume 47/1)

The problem with the proposed experiment mentioned there is that, because it would involve very long path lengths for X-ray beams, it could only be conducted in outer space, and would not be feasible for a long time.

However, now Keith Schwab (Laboratory for Physical Sciences in College Park, Maryland) and co-workers have come up with a proposed lab experiment which they believe may resolve the issue within 18 months.

To recapitulate, it has been demonstrated to date that even largish molecules, like the spherical 60-carbon-atom buckyball molecule, can exist in a state of superposition. This has been shown by the observation that a single molecule can pass through two adjacent parallel slits at the same time, and so produce an interference pattern, in a way entirely analogous to the famous Young's slits experiment which was used to reveal the wave nature of light.

The issue is: How large an object can be shown to exist in a state of superposition, and for how long before that state "collapses" or opts for one or other of the two states that make up the superposition?

Schwab and colleagues have built an apparatus which should enable the superposed state of "tunnelling" electrons to be transferred to the state of a flexible silicon beam whose thickness is 1/40 of that of a human hair - small, but still a macroscopic object.

Tunnelling is a quantum effect whereby electrons can pass through a material barrier despite the fact that they ostensibly do not have enough energy to do so. Essentially Schwab's apparatus consists of a superconducting aluminium loop attached by insulating contacts to an aluminium strip, referred to as a Cooper pair box; and adjacent to the latter is mounted the thin silicon beam, with the end next to the box free to bend if attracted to it.

Because the tunnelling is a quantum effect, electrons can be both in the superconducting loop, and in the Cooper pair box, at the same time, which means that it can have two different charges simultaneously - a state of superposition. Electrons, of course, are negatively electrically charged, and so they will attract and bend the silicon beam, which is made positively charged.

When the box is in two charge states at once, this should force the beam to be in two positions at once. Observation of the beam over a detailed time course should reveal if this indeed happens, and if so, for how long before the beam opts for one position or the other.

If this experiment does indeed succeed, it will end a controversy which has been raging for years, and explain

why large objects do not appear to be able to exist in two states simultaneously. See New Scientist, 20 April 2002, page 7, and 9 March 2002, page 26.

ORGANIC OPTICAL CONTROL.

The search is on for ways to use light to control light. The reason for this need is that our existing communications systems often use both light and electricity, and signals have to be constantly converted between these two forms - which slows them down, and is costly and wasteful.

A group in Florida has found a way of using organic molecules to achieve optical path switching - using light. The device consists of two quartz cells.

The first splits the light beam into three beams of distinctly different wavelengths (colours). Each wavelength can, for example, carry a separate phone call. The splitting is achieved using three different fluorescent organic molecules: anthracene, naphthalene, and tetracene. (Fluorescent substances shine with different colours when irradiated with light of a shorter wavelength.)

The second quartz cell holds a solution of spiropyran, an unusual organic molecule which changes shape according to the wavelength of the light to which it is exposed. The differently shaped forms of the molecule absorb a different one of the three wavelengths. Thus the second cell either blocks or absorbs one or more of the three beams from the first cell, according to the kind of light with which it is illuminated.

Eventually it is hoped that it will be possible to build all-optical miniature switches. These would revolutionise our existing ones which rely upon a hybrid of fibre optics and electronics. See New Scientist, 20 April 2002, page 23.

SCARY SCIENCE: THE THREAT FROM PHARMACOLOGY.

Do we really need all those mind-altering drugs which the pharmaceutical industry is constantly dreaming up and finding justification for - with financial motive certainly - but also ethical?

I remember being shocked, when as a biochemistry student in the seventies, I read a monograph brought out by Roche, entitled *Pathophysiology of the Emotions*. The opening page carries these words:

LIBRIUM is now a well-established therapeutic principle which the majority of doctors would not be without. That it is so frequently and unhesitatingly prescribed today is due to the recognition that it possesses in high degree the two basic qualities of reliability and safety. Both these features are amply attested in more than 1,000 scientific publications and have been confirmed by several years' experience in millions of patients.

Librium is, of course, the first of the family of tranquillisers known collectively as benzodiazepines. The monograph then goes on to describe the supposed mechanism of action of Librium. It contains an illustration which particularly struck me. The caption reads: *Fig. 7. European lynx, "vicious, snarling, dangerous" before treatment... and two hours after Librium was administered.*

Many years later I found myself working in the department of Pharmacology at the Institute of Psychiatry in London, and lo and behold, one of the main projects of that department was an exhaustive study of benzodiazepine addiction!

So the blandishments of the drug company were *not true*. It is now widely recognised that benzodiazepine tranquillisers and sleeping pills are extremely addictive, probably harder to get off than heroin, and have incapacitating side-effects like impairing short-term memory. Doctors are now not supposed to prescribe them for more than a few weeks, but I have known people who have been on them for decades.

Francis Fukuyama wrote an excellent article entitled *Life, but not as we know it*. In it he says:

"The bright line that formerly fenced off humans from the rest of the animal world, and allowed us to believe in our own higher dignity, has been steadily eroded.

"I believe that it is possible to defend the existence of a Factor X -a human essence- on secular grounds that are compatible with what we know of modern science. Factor X has to do with the evolved complexity of the human whole that can only superficially be understood by reductionist scientific methods.

"The most important component of that whole is the gamut of emotions that every human being is capable of subjectively experiencing. We do not understand the provenance or proper functioning of that gamut, or the subjective consciousness within which it is embedded.

"Biotechnology poses a fundamental threat to human dignity because of its ability to manipulate our natures in ways that will ultimately simplify that complexity and reduce us to something that is less than human. But let me explain.

"It has been understood in the natural sciences for some time now that the behaviour of complex wholes cannot be understood as the aggregated behaviour of their parts.

"The inability of reductionist materialist science to explain observable phenomena is most glaringly evident in the question of human consciousness, that is, the realm of subjective mental states. In the words of the philosopher John Searle, 'The most striking feature is how much of mainstream philosophy of mind of the past 50 years seems obviously false', beginning with the almost routine denial among researchers in this field that subjective mental states actually exist.... The fact of the matter is that we do not have the faintest inkling of how consciousness and the full range of our subjectively experienced mental states are produced by the brain."

He goes on to say:

"The problem with modern biomedicine is that it

constantly tempts us to reduce the natural complexity of the human whole in the name of much simpler utilitarian ends such as the relief of suffering or the prolongation of human life.

"The aspect of our complex natures most under threat has to do with our emotional gamut. We will be tempted to think that we understand what 'good' and 'bad' emotions are, and can go one better than nature by suppressing the latter: by trying to make people less aggressive, more sociable, more compliant, less depressed."

He then goes on to discuss the drug Ritalin, now prescribed to millions of children around the world to cure a disease known as attention deficit hyperactivity disorder. He points out -and I agree with him- that this is not a disease at all, and the child might just as easily be treated with greater adult attention, interesting work, or new challenges.

I quote from Francis Fukuyama further:

"There is a disconcerting symmetry between Prozac and Ritalin. The former is prescribed heavily for depressed women lacking in self-esteem; Ritalin on the other hand is prescribed largely for young boys who do not want to sit in class because nature never designed them to behave that way. Together, the two sexes are gently nudged toward that androgynous, median personality, self-satisfied and socially compliant, that is the current politically correct outcome in modern societies. The human emotional gamut is narrowed: we eliminate severe depression and hyperactivity, as well as a range of more nuanced feelings of discontent and discomfort that may be the source of creativity, wonder, innovation and struggle."

And finally he concludes in dire warning:

"The current debate over the ethics of biotechnology has become sidetracked, especially in the US, into a debate over the moral status of embryos. Yet real threats to human dignity are waiting in the wings. Neuropharmacology today is just a precursor to powerful technologies of the future, both pharmacological and genetic, that will allow us to alter the natural forms of human behaviour that have shaped us as a species, and eventually to redesign human nature itself.

"Given that we scarcely understand the provenance and functioning of consciousness, emotion, and the complex human whole out of which they spring, it behoves us to proceed down this road very cautiously, if we should want to go down it at all." See *New Scientist*, 20 April 2002, page 42.

Francis Fukuyama is professor of international political economy at John Hopkins University. His book *Our Posthumous Future* was published by Profile Books on May 20th.

Well, Francis, I found your article extremely interesting, and I have to say that I entirely agree with you. As one who worked for a psychiatrist in a research unit, and heard him one day blithely pontificate to the assembled company over lunch that "if you do not have consensus with at least six other people, you are by definition insane", I share all these misgivings about the

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.

On 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.

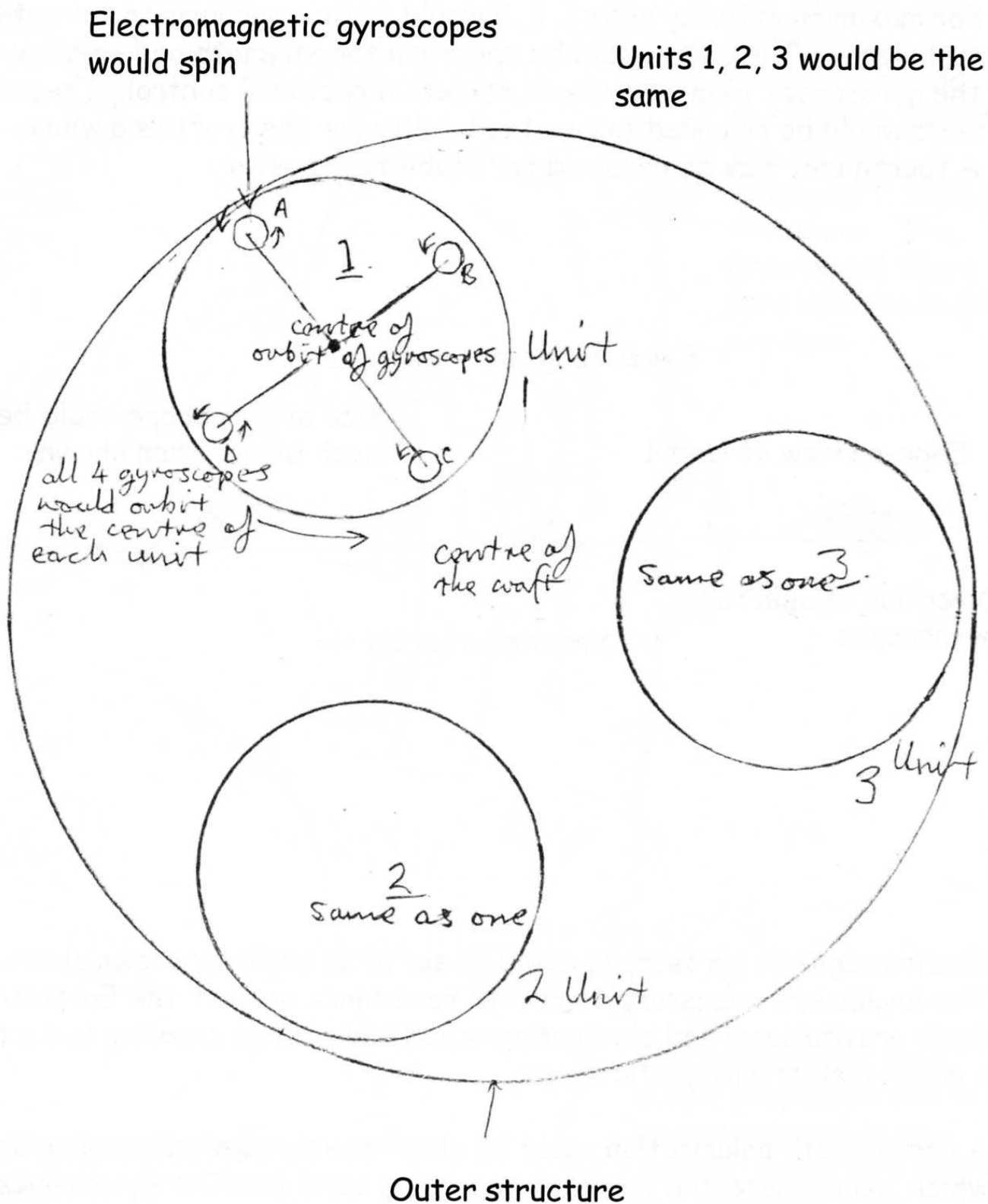
All these three systems could be powered by solar cells attached to the outer shell of any given spacecraft being flown. At least two of the systems could use superconduction. The Podkletnov machines and the gyroscopes. The gyroscope units would be very cold anyway because of the vacuum conditions.

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.

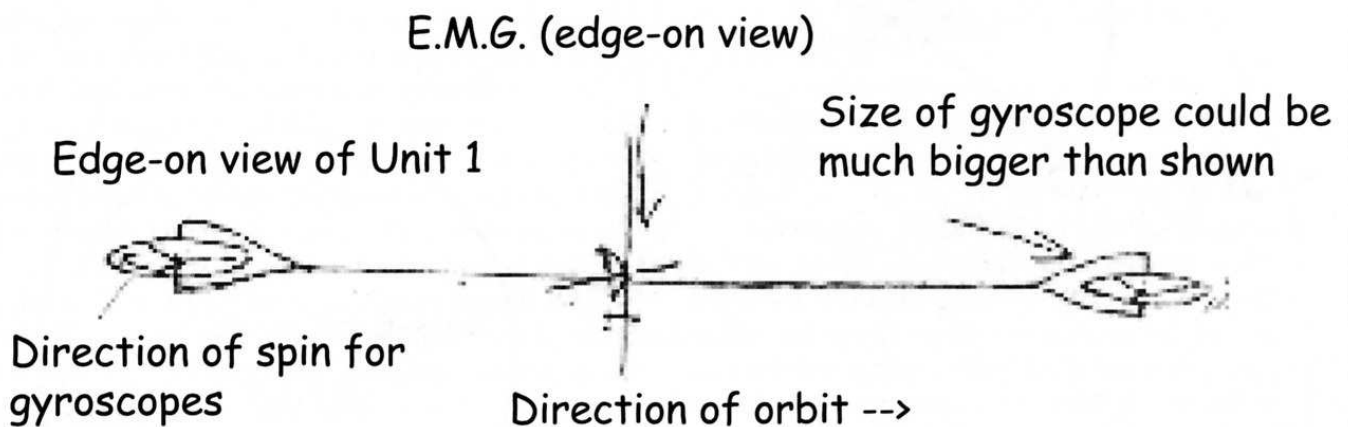


I do not think it would be required for the units to spin about the centre of the craft, particularly since this would destabilise it.

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.



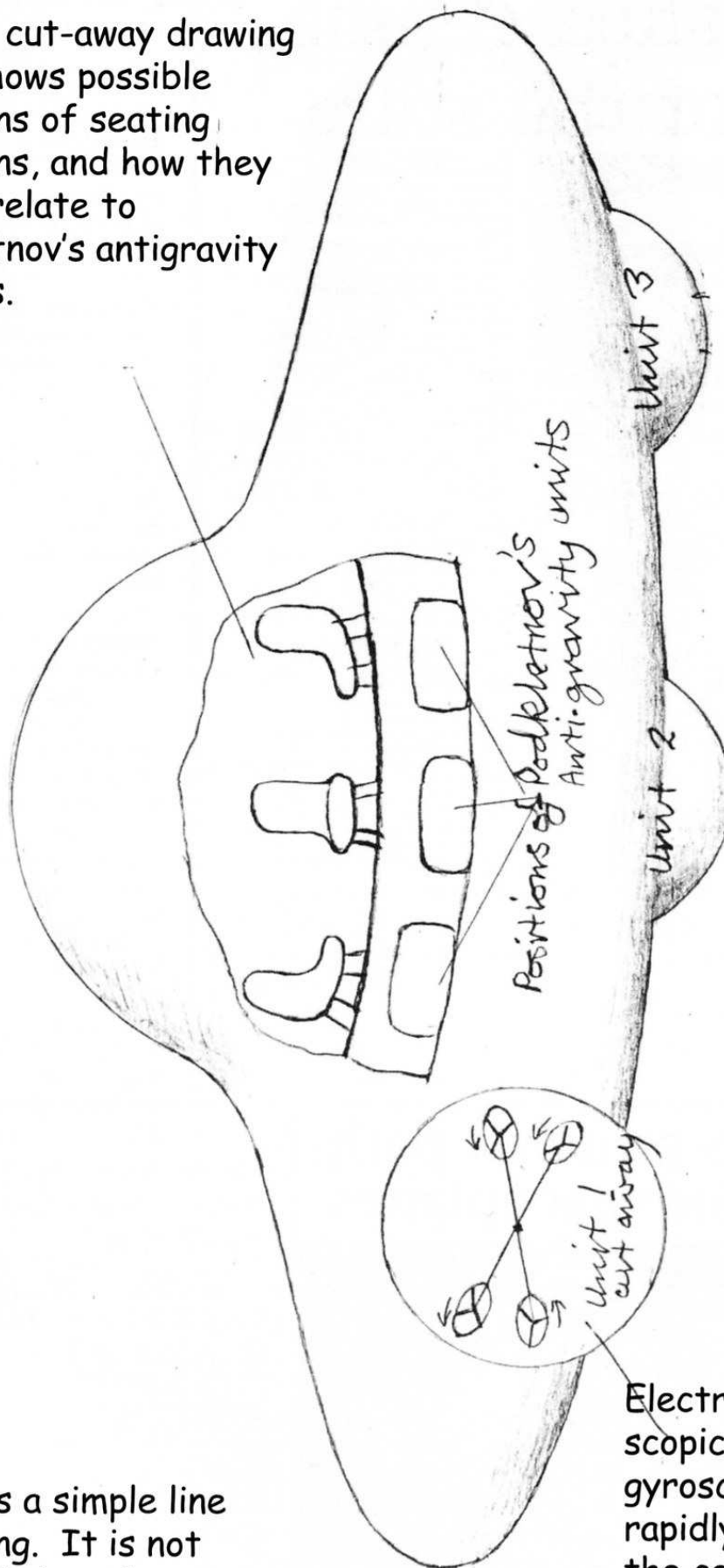
Electromagnetic gyroscopes would be set at an angle, as shown above. The angles are necessary to create resistance against the Earth's/Sun's gravitational and electromagnetic fields. Thus creating in fact a gravity/electromagnetic screw.

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

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 68-year-old technician, "I was round the back of the car when it happened. If I could only have seen it, I wouldn't have believed it."

was the first time I
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

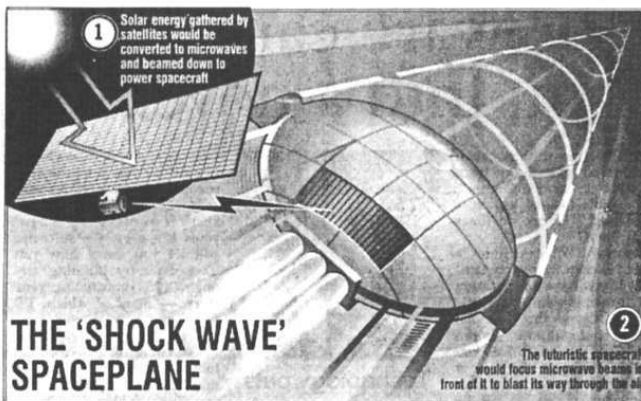
SPACEPLANES of the future could fly into orbit by firing microwave beams to help cut through the air, writes Max Glaskin.

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 a 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 ;see also Linda Moulton Howe's website at 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.

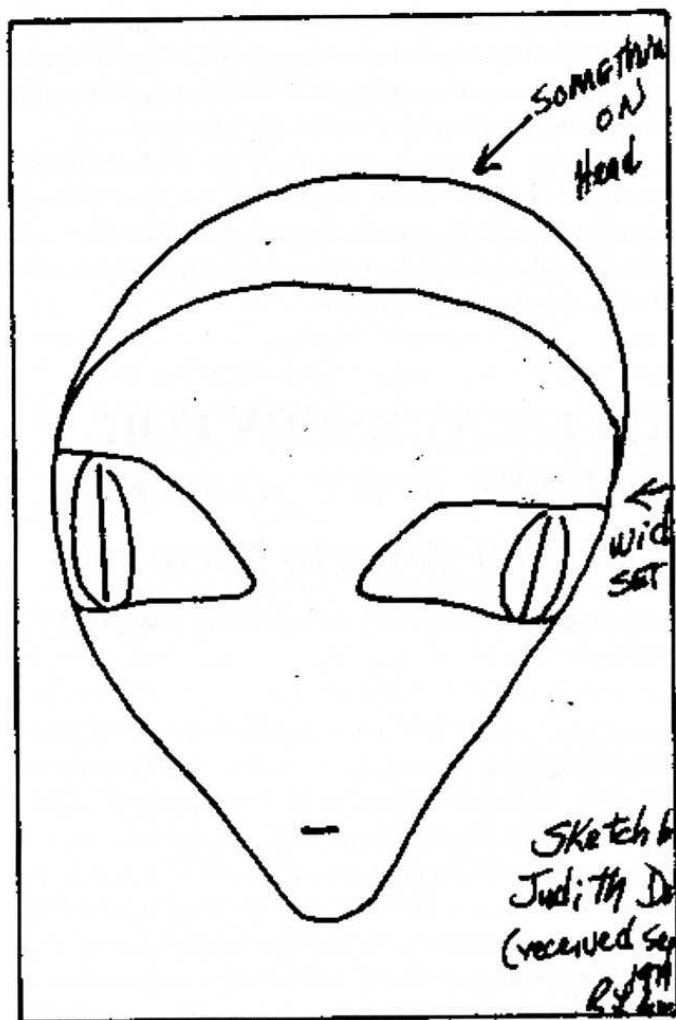


Fig. 1. Sketch by Judy Doraty of entities who abducted her.

others too... and they are trying to stop something that could cause a chain-reaction.... and maybe it would involve them too. I don't know. We aren't the only ones affected.

"They are stationed here (they have bases here). They are doing tests with all this in order to see how deeply and how far it has gone. It is going to create lots of problems, whether or not they stop it even now. Many people will die, because the waters are already contaminated.... It is in the water.

"The source of the poison is.... man himself. They said - and they were very emphatic about it - that although tests are carried on in Outer Space they still have an effect on things here. [Government tests - by whatever country or countries.]

"The underwater tests will also have a serious effect. If they continue, they will cause a grave chain-reaction effect when contact occurs with another compound. It will cause a chemical change, and this in turn causes a change in the consistency of the solidity of matter as we know it.

"The aliens have been here for quite a while, and they are conducting tests of our soil, our water, of animal life, and of vegetation. I asked them why they didn't say more, and why they didn't stop it if they know so much and they just got angry. I don't know why they got angry, nor do I know why they can't stop it. They say I just don't have sufficient knowledge and sufficient maturity.

If this continues, there will be nothing to eat, nothing to take, and people will die of hunger."

HYPNOSIS IN PUERTO RICO (J.M. Continues)

In one case that we investigated here in Puerto Rico, when we hypnotised a lady who had been kidnapped by aliens, and we asked her what explanations the aliens had given her in one of the encounters, *she said precisely the same thing as Mrs. Doraty had said about the tests that the terrestrial powers are conducting with the water and with nuclear compositions, and that in the near future this will have catastrophic genetic effects on the biological species of the Planet, for which reason they are now collecting up the life-seeds (our genetics) of all the species of life on this Planet - including the human - in case the process now going on is irreversible. IS THAT MERE COINCIDENCE?*

The lady in question (who prefers to remain anonymous at present) also said while under hypnosis that the beings who are doing this work of investigation here have got laboratories in conjunction with the Government of the United States of America and that they also have one here in Puerto Rico, where they are working in the attempt to reverse the negative process of contamination by that "so dangerous something".

The information obtained in Dr. Leo Sprinkel's hypnosis sessions with Mrs. Judy Doraty and the other lady from the American State of New Mexico, - it was very similar indeed in both cases - did not actually become known until the American investigator Linda Moulton Howe published her book, *A STRANGE HARVEST*, in 1989.

On the other hand, the hypnosis sessions with our Puerto Rican lady, carried out by the hypnotist Manuel Mendez del Toro, took place in the year before, in April 1988, and so the statements from Mrs. Doraty and the other American lady were not known then. And of course here in Puerto Rico, known even less. WE CONSIDER THIS FACT TO BE MOST IMPORTANT.

GLANDULAR HORMONES AND ENZYMES AS FOOD?

Likewise, certain eyewitnesses to UFO encounters and abductions assure us that, in the course of their experiences it has happened that the alien beings who abducted them explained to them that they - the aliens - use certain hormonal substances from the animals that they mutilate in order to secure certain nutrients and glandular substances which they themselves need for their own survival as a species.

Moreover, according to certain information that the alien beings have allegedly given to abducted eyewitnesses or based on information obtained from our own allegedly confidential sources (Governmental, or Military, or Intelligence), one of the species of the "Greys" is facing grave genetic problems itself, caused by some sort of unknown contamination in their own place of origin, and which has caused their species to degenerate.

It is claimed that these problems have led to grave damage to their reproductive and digestive systems and is also speeding up their general physical deterioration, for which reason they find themselves obliged to "ingest"

Fig. 2.

Right: Dr Vladimir Javinson.



Below: Dr Viacheslav Morozov.



the aforesaid hormonal substances through their skin, in order to halt the progressive deterioration resulting from their condition.

Do these reports reflect the true situation? Are the aliens really harvesting hormonal substances from our various species of animals in order to supply themselves with vital materials that their own degenerated organisms are no longer capable of producing for them?

The investigations into all these questions are continuing, *but we believe* it is well worth while to mention here certain discoveries made by medical scientists in St. Petersburg, Russia, regarding the utilization of hormonal substances extracted from cattle - and particularly from *bovine* cattle.

At this point our readers may possibly begin to think that this article of mine is turning into a medical treatise! But once they have read what follows below, they will realize the importance of what we are saying.

THE NEW RESEARCH IN RUSSIA.

[The following extract, which forms part of Jorge Martín's report, is from the article *OFFSETTING THE ONSET OF OLD AGE*, by the Russian writer Mikhail Karlov, graduate from the First Moscow Medical Institute and since 1993 Science Analyst for the new Russian publication *AURA-Z*. The full text of the article was published in an English translation in issue No. 1 of *AURA-Z* (March 1993). G.C.]

A team of Russian doctors, headed by Professor V. Khavinson (see Fig. 2), have created a group of new medical agents based on physiologically active substances. These are *bioregulators* which transfer the information required for normal functioning, development and

interaction of aggregations (populations) of cells. They were named CYTOMEDINS. Specialists from many countries state that they have no analogues in the world.

In the early 1970s scholars in many countries started active research into the so-called releasing factors of the brain - peptides - which regulate the release of hormones by the hypophysis (the hypophysis and the hypothalamus are portions of the brain). Students of the Military Medical Academy in St. Petersburg, V. Khavinson and V. Morozov, also took up the problem.

They started with the brain. The young doctors worked out original methods and extracted a peptide fraction from the brain tissue, which possessed the unique ability to enhance blood production. Two more peptide agents from the brain (epiphysis) and the thymus were soon obtained. These two became the first drugs from the cytomedin family. (Now there are more than twenty).

Tissues and organs of cattle are the raw materials from which they are produced. Generally the waste of the food industry is used for this purpose.

At present cytomedins have been extracted from the brain tissue as well as from the organs of immune, cardiovascular, respiratory, and urino-genital systems and also from the retina, liver, and other organs and tissues. Generally speaking, once Dr. Khavinson and his subordinates get hold of a cow, nothing will be left of it, everything will be put to use and turned into drugs. The main feature of the cytomedins is the sharpshooter's precision of treatment: *they treat the very organ from which they have been extracted.*

THYMALIN was the first drug in this series (at present the highly effective synthetic drug *thymogen* has been obtained). Here are just a few of its abilities: it enhances quick restoration of protective functions of patients with injuries and infections, and stimulates the regeneration of tissues. When oncological patients receive combined radioactive and chemical therapy, the drug markedly reduces the number of post-radiational ionizing radiations.

THYMOGEN produces a similar effect. It proved to be effective in treating purulent diseases of bones and soft tissues, bronchial asthma, rheumatoid arthritis, anaemia, and pyelonephritis. In veterinary practice it knows no equals as a biostimulator and a drug to treat animals suffering from infection-caused inflammations, toxicosis and dyspepsia. It is a good prophylactic agent for weak animals as thymogen preserves and normalizes natural weight gains.

The sphere where cytomedins can be applied is extremely wide. Here is a short list of drugs and the maladies they cure. Agents extracted from the lungs and bronchi are used to treat or prevent diseases of the lung, including bronchial asthma; those extracted from the blood vessels are used to treat atherosclerosis of vessels; the ones from the heart are used to treat ischaemic heart disease; the ones from the cerebral cortex are used

to treat disorders in the functioning of the central nervous system; the ones from the white matter of the brain are used to treat neuritis, neurasthenia and atrophy of nerves.

PROSTATILEN, obtained from the prostate, is used to treat prostatitis and adenoma of the prostate. It will do a lot of good to every man above 45. Agents extracted from the testicles and ovaries can restore the functions of the ovaries and cure people of sterility.

RETILIN (extracted from the retina) can cure numerous eye diseases including dystrophy of the retina. The agent derived from the pancreas, after insulin has been extracted from it, is used to treat diabetes mellitus.

An example of this is the case of an elderly lady with diabetic retinopathy. She was practically blind in one eye and with the other one she could see things no further than 20 cms. from her. After a course of treatment with retinilin, the woman could go out, look after herself without anyone's help, and watch TV (with eye-glasses).

Says Professor Khavinson: "We should change the tactics of treatment. Indeed, *Retilin is unique*. There is nothing of the kind, the world over. However, we have indications that it is especially effective when applied with a set of other cytomedins (to treat, for example, diabetic retinopathy we have mentioned above) which permits operations on the eye (which few people enjoy) to be avoided for thousands of patients."

For the British doctors, the cytomedins are the medicines of the future. It is a prophylactic medicine, a medicine of rehabilitation.

Khavinson says that his bioregulators are *strategic* preparations, since the majority of modern medicines act upon a pathogenic process while it is already developing, while cytomedins nip the disease in the bud.

This method of bioregulating therapy is acquiring ever more supporters, because the peptide regulators - that is to say the cytomedins - have a marked therapeutic effect since they require a relatively short course of treatment

and are compatible with drugs belonging to other pharmacological groups.

They are highly effective in prophylaxis, they are not toxic, and do not cause allergy. They enhance restoration of specific functions of organs and tissues lost as a result of pathological processes or ageing. Application of bioregulators to increase the resistance of the organism to unfavourable influences of the environment and correction of genetic liability to certain diseases is no less significant.

Drugs belonging to the group of the bioregulators can be used for biological protection against the effects of ecological and technological disasters as well as for rehabilitation after them. Timely strengthening of the immune system and the organism's other life - sustaining systems is based on the principle according to which the duration of life can be prolonged by 30% - 40% as some experimental data indicate.

It all started when Professor Khavinson's father fell down in the street. The diagnosis read: *pre-stroke condition*. The professor realised what was in store for his father, so, as he had nothing to lose, he started administering a special complex of cytomedins to his father.

The old man was brought back to life. It all happened ten years ago. Now Mr. Khavinson Senior is 76 years of age. He jogs, works at his summer cottage plot, and states proudly that he has forgotten all the maladies that used to torment him.

The episode gave Professor Khavinson a powerful impetus to start work aimed at the prophylaxis of ageing. There were two laws to consider. The first one implied that ageing is accompanied first of all by disintegration apart from the organism's regulating system - that is, sections of the brain, like the hypothalamus and the epophysis, and also like the prostate, etc. The second law states that *cytomedins enhance restoration of the cells from which they have been extracted. That means that peptide regulators can be used to delay the decay of the regulating system.*

Two groups of laboratory mice were selected for the experiment. Nothing changed in the life of the first group, while individuals in the second group were administered cytomedins. As a result they lived longer by 130% to 140% than the animals in the first group.

The experiments were next transferred to people. Patients aged 50 - 55 were selected. People in the first group received traditional medicines for diseases characteristic of that age-group. Patients from

the second group were given cytomedins in addition to the traditional therapy.

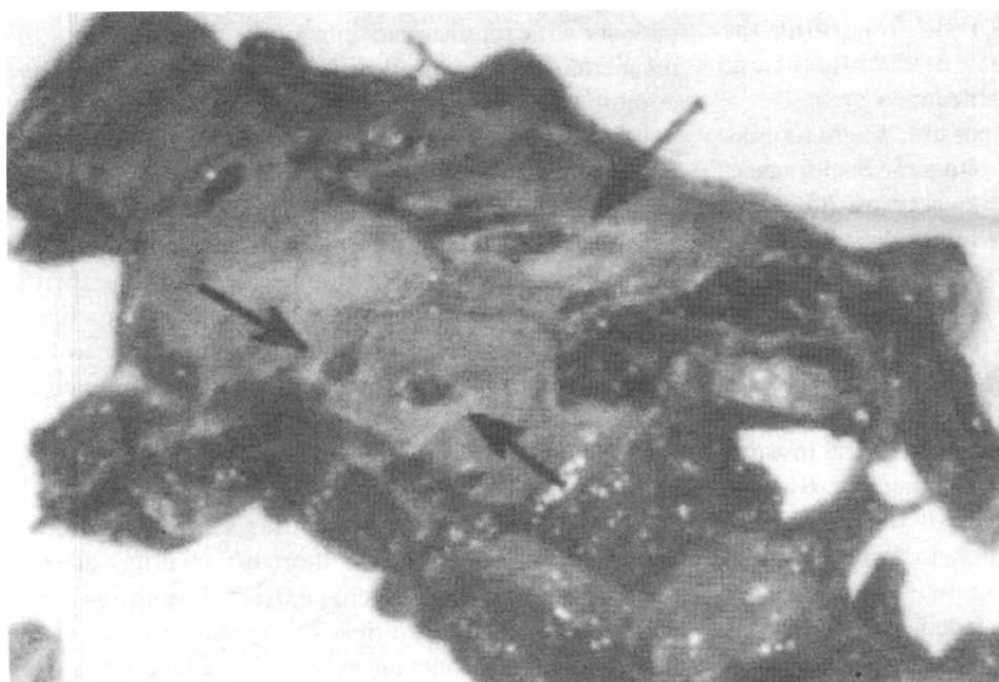


Fig. 4. Note the holes in the liver of a sheep mutilated in Yauco, P.R.

The observation, which lasted eight years, showed that the diseases of the patients in the first group progressed according to the laws of nature. The condition of the organisms of the patients in the control group remained the way it had been when the experiment started. 65 year old people had the health of 50-year-olds. There are 150 "youthful old men" already.

Moreover, the immune system of these patients functioned much better than those of the patients in the control group. For instance, they were three times less likely to have respiratory diseases. Besides this, the researchers are sure that the patients run much less risk of developing malignant tumours.

Says Profesor Khavinson: "It is not rejuvenation, but *prophylaxis proper, or the prevention of ageing*. Cytomedins should be administered *before* cardiac, vascular, oncological or any other diseases have shown. Only *then* can we prolong life. There is no immortality, nor will it ever be possible. But a human being is programmed genetically to live 100-110 years. We are here to help these people live these years actively, without losing their creative potential".

JORGE MARTÍN CONTINUES-

"That, so far, is what has interested us in the matter of this discovery by the Russian doctors. As we can see, the organs and tissues used in preparing the cytomedins are the same organs and tissues that are extracted from the animals (bone cattle, sheep etc.) in the cases of anomalous cattle mutilations, i.e. - eyes, genito-urinary-reproductive system, liver, heart, brain, etc. and likewise the blood too, which contains other substances connected to the various organs mentioned. (See Fig. 4)

Together with the above mentioned organs and tissues, the mutilators also take from the animals soft tissues, such as lips, tongues, udders, the anus, etc.

Now, if these beings are indeed conducting a study to see whether the various species of terrestrial animal life have indeed suffered some severe damage, including damage at the *genetic* level, due to "something" harmful that has been introduced into the terrestrial life-chain, as we are given to understand by what Mrs. Doraty and the other ladies have said under hypnosis, *then it would be precisely these sorts of tissues, the soft ones, which would be the most indicated for analysis in search of traces of that harmful agent, since it would be in precisely this type of tissues that the traces of the destructive agent would accumulate.*

For example, the liver would obligatorily be an organ to be studied, since it is this organ, the liver, that has the job of initially filtering all the substances that enter the body, extracting those which may be of use to the bodily organism and throwing out the rest.

Well now, in the mutilation cases in Puerto Rico that we have studied, as well as the cases reported from abroad, it has been observed that the instrument - whatever it may be - that penetrates the animals' bodies *seems to seek out the liver*, destroying it and extracting tissues and liquids from it, because as has already been seen, the strange incisions reach right to this organ and at times it is found to have completely vanished from the animal's

body.

If the alleged "dangerous contamination" referred to by the beings has indeed taken place, then we, like the animals, would eventually be greatly affected by it. Why? Because, whatever that harmful factor is, it would already have entered into the terrestrial food-chain, ultimately affecting us in the long run.

And, on the other hand, if "They" need glandular substances from our cattle and our animals in order to be able to combat a degenerative genetic condition that is affecting their species, and our animals and our environment are already contaminated with the harmful agent, then they would not be able to use us either for resolving their problems.

The pressing nature of the entire situation, combined with the urgency with which they would have to do this job without being discovered by us could explain the speed with which these mutilations are carried out, leaving the evidence strewn around in the fields for all to see.

Before I go any further however we would now like to tell you all that, in innumerable mutilation cases in the USA, Canada, and Argentina, when the carcasses of sheep were examined it was found that they were all lacking their hypophysis gland. So, once more, we have to ask ourselves: IS ALL THIS MERE COINCIDENCE? WE DON'T THINK SO.

THE EARTH: A COSMIC NURSERY FOR VARIOUS SPECIES OF ALIENS?

Everything said by us above now brings us to this question: *Are alien species using the Earth as a cosmic nursery?* That might explain the behaviour of these Aliens who appear to be visiting us. But - is there any evidence for it ? *The answer is yes: there is* sufficient circumstantial evidence for it. Let us now see some cases from Puerto Rico and from abroad that seem to indicate it.

THE CASE OF SR. AND SRA. CAMACHO.

It was the night of August 13, 1991, and Marisol Camacho and her husband Alberto were asleep in their residence on Calle Vargas in Maguayo, Lajas District. Maguayo, a calm, quiet community, is right beside the famous lake, Cartagena Lake, where, for decades past, folk have been seeing flying saucers and "strange lights" leaving or entering the Lake. The strange type of creatures known as the "Greys", and other allegedly alien, extraterrestrials, tall and fair and of human appearance, have been seen in the area all around there.

So, to return to the Camachos, the wife, Marisol, had been asleep in the bedroom, and she awakened, hearing what seemed to be several persons talking together in a rapid, whispering, unintelligible fashion. She tried to get her husband Alberto to get up and go and see what it was, but he did not respond. So she arose and went to the window, because the voices seemed to be coming from the vicinity of their balcony. Slowly opening the window giving onto the balcony, she was astonished to see three strange "little men" (hombrecitos) about 3ft high on her balcony, examining and taking leaves from an ornamental plant known as "Swiss Cheese" (Latin name *Monstera delicosa*).

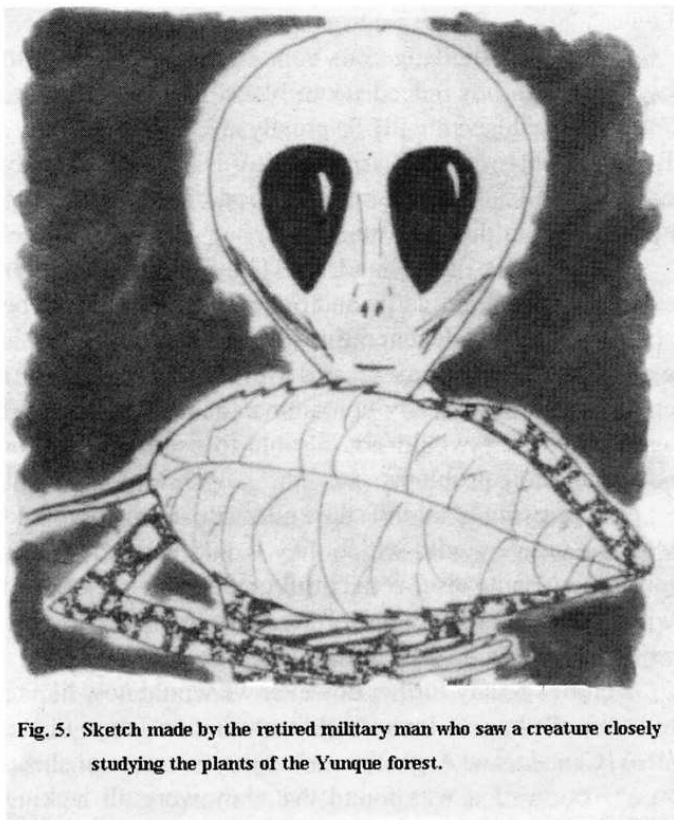


Fig. 5. Sketch made by the retired military man who saw a creature closely studying the plants of the Yunque forest.

The "little men" had light grey skin and big pear-shaped heads (broad at the top and with narrow chins). They had no nose - just small nasal orifices, and for mouths they had thin little slits without lips. They were slim, with long, thin arms reaching down to their knees. On their hands they had long, slender fingers - she did not recall how many. Trying to get a better view of them, she opened the window a bit further and they became aware of her presence. At once they fled, jumping the fence around their house without the slightest effort, and running off fast towards and apparently entering into, Lake Cartagena.

This happened on two occasions, both in the course of two weeks, and on both occasions the beings were examining the same plant and taking samples of it. In the opinion of Marisol Camacho, *"They live there - under Lake Cartagena, and they seem to be studying our world, our various species"*.

"BIG ONES AND SMALL ONES".

Another case, and similar, is that of Señora Elba Romero, residing at Bellomonte (Guaynabo), who has had a couple of "interesting encounters" with allegedly extraterrestrial beings of two different types, the first on March 11, 1992. She says one lot were beings "of human type", tall, wearing close-fitting one-piece blouse-like garments, metallic in appearance. The others, she said, were little beings with big heads and yellow skin. The eyes of the latter type were "drawn out towards the sides of the face", and dark. The noses were scarcely visible and the mouths thin, without lips.

The beings appear to have been greatly interested in botany, and in soils, and were examining the lady's entire garden! They examined everything, and touched everything and commented to each other in a murmuring, "hissing" sort of language, incomprehensible of course

to her. No reason is known why these beings should display this great interest in the "Swiss Cheese" plant, but scientists in Germany have found that extracts prepared from that plant possess properties that are in some cases *anti-cancerous*.

The taller, human-like beings explained to Señora Romero that the small beings wanted her to sow many types of plant in her garden - indeed as many as possible - so that they might then study them. They also said they were going to make a study of the soil there, because to do so was very important.

THE MILITARY OFFICER'S STORY.

Recently, also, we learned of a very strange case, of a professional ex-military man who is now retired owing to an injury, a man of vast experience and education, living in Luquillo, who has dedicated himself to the exploration of the great Caribbean National Forest, or, as we call it, the YUNQUE, over in the north-east corner of our Island. During one of his exploration trips, with two friends, through the Pitahaya section (north-eastern) he suddenly found himself face to face with a little creature that seemed to be studying a plant very closely.

He described this being as about three feet high, with a big, egg-shaped head, two big cone-shaped eyes *set vertically*, not horizontally (see Fig. 5), and with slender little arms. The small being's skin was of a creamy-brown shade. The upper part of the torso seemed wider than the lower part, and from the slender little neck right down to below, its entire body seemed to be covered with dark brown spots, interlinked, and blackish spots like selvages. It wore no clothing. The eyewitness did not manage to see the feet of the creature.

Fearing that, if his companions saw the creature and made any move to approach it, it would flee, he said nothing to them about it, and concentrated on observing it in detail. As he told me (I refrain from divulging his name for the present) "The little creature was extremely attentively observing a plant with broad leaves from side to side, very near to the leaf, and underneath it, as though "sensing" something from the plant."

The creature apparently "sensed" the gaze of the military man, and turned its head rapidly, and now they saw each other. The witness began to approach very slowly, and the creature just remained there, looking fixedly at him. Then he turned round momentarily to see whether his companions were following him, and, turning back, he found that it had vanished. As he said: *"That thing was examining the plant - I've no shred of doubt about that!"*

There have been lots of other cases like this in the Yunque, - cases in which similar creatures to these have been seen examining the plants of the Forest. In a forthcoming issue we shall discuss these sorts of cases from EL YUNQUE.

THE CASE OF INOCENCIO CATQUET.

In 1889 we investigated the case of the Aguadilla fisherman Inocencio Catquet, who was contacted by extraterrestrial beings of a human-like type, tall, with pinkish skin and blue penetrating eyes and long fair hair.

These beings, who were wearing white tunics, explained to the fisherman that they were here on Earth "studying all the species of marine life and gathering every type of genetic material relating to the species of life in the world's seas".

And cases of this same kind are happening all the time throughout the world. If, now, we add to these the countless cases of abductions of people by these types of beings, and the medico-genetic examinations and the removals of ova and semen from the people abducted, men and women, and the taking of genetic material as a whole, as though it were a sort of "harvesting" of this human reproductive-genetic material, and also the introduction into the bodies of some of the abductees of minute devices which our students of the subject call "*implants*", with a view, apparently to "monitoring us at a distance", just as we ourselves do with our own species of animals, then we can only conclude that various alien or extraterrestrial species are using the Earth as an enormous *cosmic nursery* from which they are obtaining innumerable types of botanical and biological -genetic materials which maybe they require for reasons that are

still unknown to us. We ourselves go to the forests in search of plants to aid us in the battle against different illnesses; WHY CAN'T THEY ALL BE DOING SO TOO?

NOTE BY EDITOR OF FSR.

It is a pity that there are so few of the "old-fashioned" sort of true students of Occultism left, for such people would have no difficulty whatever in accepting these reports and, what is more, they would well understand what all these various "beings" *are*! One thing is certain: **THEY ARE NOT "EXTRATERRESTRIAL"!**

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THE ALIEN "BLONDS". © BY JORGE MARTÍN, Editor of *EVIDENCIA OVNI* (Puerto Rico) and FSR Consultant. Translation from Spanish. G.C. (*EVIDENCIA OVNI* No. 9 (1996))

Ever since the start of the modern manifestation on Planet Earth of the phenomenon of the UFOs and of the alien beings, eyewitnesses have been describing how they have seen *intelligent beings of human appearance* in association with the mysterious flying devices or craft.

In this special article we are going to lay the emphasis on reports about this type of being, generally described as tall and fair, for which reason they have been dubbed generically with the names the "Blonds", or the "Nordics". (See Fig. 1.) We shall report on known cases relating to them, both from here and from abroad; on their alleged places of origin in the Universe, their patterns of behaviour, and their apparent areas of interest as regards their interaction with the human race and with Planet Earth.

These reports are based primarily upon the testimony offered by the eyewitnesses, on alleged telepathic "channellings" [although it is not an entirely scientific method, we have been able to correlate these reports obtained in such fashion with other reports obtained in physical and conscious cases, and for this reason we have permitted their inclusion], and also on confidential reports supplied by elements belonging to the Intelligence and Security communities of the USA, the total authenticity of which latter we cannot of course entirely vouch for. In the cases that are known to us ourselves at first hand we shall have to indicate that such is the case, and endorse the contents insofar as may be possible. Here is a general over-view of the matter.

WHO ARE THEY? WHERE DO THEY COME FROM? THE SOURCES OF THE ALIEN PRESENCE.

Although most people tend to see the *extraterrestrial hypothesis* as the sole and final explanation of the origin of these beings and of others, we must also envisage other possibilities. Among these are the following:

A. *This physical Universe, this dimension.*

An examination of the information compiled up till now permits the belief that the question of how many light-years away the source of the origin of the alien beings may be is of no importance, and that their advanced technology permits them to disregard those distances with their sophisticated craft. For this reason the extraterrestrial explanation is plausible and, consequently, to deny such a possibility simply on account of the great distance is not a dependable view.

B. *This physical Universe, but coming from a parallel dimension.*

Nowadays the theories about parallel universes are something of common scientific knowledge. Allegedly there could be as many as 12 dimensional divisions, with more or less infinite levels of harmonics within the scope of these dimensions.

C. *Another Universe, another Time and/or other dimension.*



Fig. 1. The physical types described by testimony of encounter with alien “blonds.”

It is apparent that many of the alien visitors have the ability to travel outside of our concept of Time and to manipulate and ‘bend’ Space at will. In fact, many of the alien beings allegedly pertaining to higher planes of physical density can manipulate as they wish, Time, Mass, Energy, and Consciousness (which are connected in their functioning).

POSSIBLE REASON FOR THE INTER-ACTION BETWEEN THE ALIENS AND OURSELVES.

1. Scientific investigation.
2. To monitor our development.
3. Conquest, with the possible retardation of our development.
4. To aid our development, both physical and scientific, and also at the spiritual level.
5. They co-exist with us in our same dimension or in a parallel one.
6. The acquisition of genetic material from the Earth.
7. The acquisition of physical and energy substances: water, minerals, gases, magnetic energies, etc.
8. The acquisition of samples of biological life forms.
9. Intrusion into our medium owing to technical problems.
10. The aim of cross-breeding.
11. For survival.

THE ALIENS’ MOTIVATION FOR THE INTER-ACTION.

On this point one can only say that there would be

two principal reasons for the Aliens to be interested in inter-acting with us, and they are the following:

1. To serve *themselves* (by using us for their own ends).
2. To serve *others* (by disinterestedly helping us to grow, to evolve, etc.)

Well now, having discussed the foregoing, let us return to what we were saying at the start of this article. There are several races of human appearance who are inter-acting with us. In some cases they have identified themselves as originating from the star-system of the Pleiades, from the star-system of Procyon, from the star-system of Orion, from Sirius, etc. But they could also be from a much nearer origin, including from some point in our own Solar System. Let us look at some examples.

ACCOUNTS OF ENCOUNTER CASES WITH UFOs RELATED TO THE “BLOND” OR “HUMAN” ALIENS.

The first mention of “blond or human type beings in connection with UFOs came from the American contactee George Adamski, who declared that he had had contact with an extraterrestrial called Orthon, allegedly coming from the Planet Venus, since September 20, 1952.

According to Adamski, an amateur astronomer who had a business near the Mount Palomar Observatory in California, the encounter had taken place in the Desert. He and several friends had seen a large mother-ship, shaped like a cigar, from which had come a ‘bell-shaped’ UFO like those shown in the ten photographs in the article by R.P. Collins which precedes this one in *EVIDENCIA OVNI* No.9 (Pages 2 - 7). (Issued in 1996). The bell-shaped UFO had then vanished behind some sand dunes. Adamski told his friends to wait there and that he would

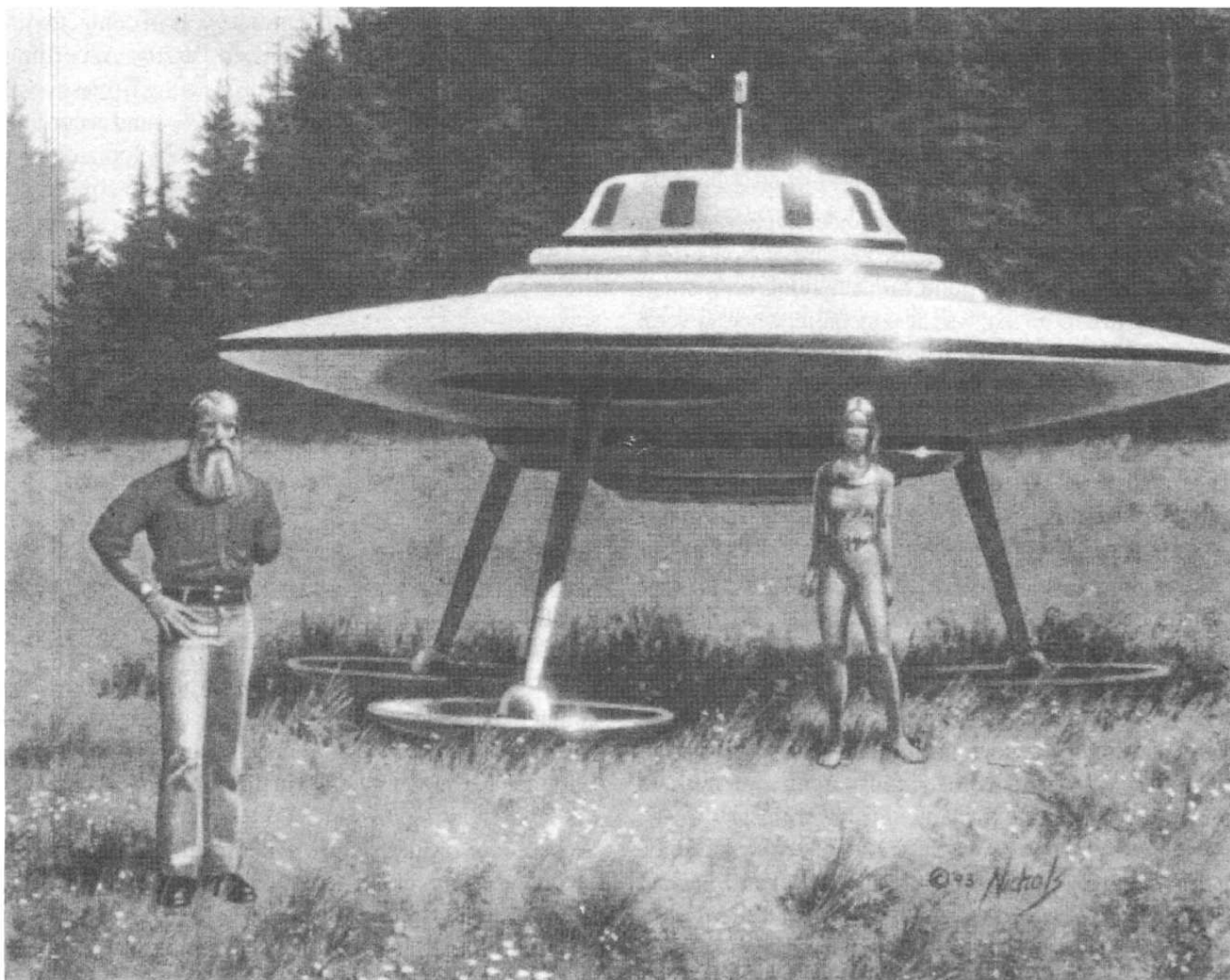


Fig. 2. Meier's encounters featured various women aliens from the Pleiades.

go and investigate, and when he got to the spot he saw that the object had landed and that out of it came the figure of a man.

The man was of an average height, with golden-tanned complexion, bluish-grey eyes and long blond hair down to his shoulders. He was wearing a loose one-piece brown garment covering him from neck to wrists and down to the feet. Adamski described the garment as "like a ski-suit, without seams....without zippers or buttons.... with a broad belt".

The being had a soft and melodious voice, very clear, and seemingly the voice of a young man. In fact he had the appearance of a young man of around 28 years of age.

According to Adamski, after that meeting there were many others, including some in which he travelled in their vessels to such places as the Moon and elsewhere furthermore Adamski claimed to have taken many photographs of luminous bell-shaped UFOs, and of cigar-type mother-ships, thanks to his contacts with those beings.

The photographs in question have been the subjects of feverish discussions, as while a part of the international "UFO community" accepts them as genuine, others pronounce them as frauds, although up until now, so far as is known, no serious and definite evidence on this last point has emerged.

TRAVIS WALTON TOO.

This type of "Nordic" or "Blond" alien human beings were also involved in the famous case of the encounter of the American Travis Walton, who was abducted by the crew of one of these machines in 1975 in a forest area in the State of Arizona.

Walton, who was with a group of companions, lumberjacks engaged in felling trees, found himself confronted by a splendid diamond-shaped UFO which emitted a beam of light that struck him and threw him to the ground. Seeing this, his comrades fled from the spot in panic, thinking he was dead. Some minutes later, on reflection, they returned to the spot, but Travis was no longer there.

Terrified, they informed the local Police who searched the forest for Travis (or his body) with no result whatsoever. The authorities did not accept the companions' account of what had happened, namely that a flying saucer had carried him off. They preferred to suspect that Walton had been killed by them in a squabble and that they had hidden his body and then invented the 'absurd' story of having encountered a flying saucer in order to cover up his disappearance.

Travis Walton suddenly appeared again five days later, suffering from amnesia as to what had happened during all that time. He did recall the encounter with the UFO,

but nothing more. When the events of those few days were investigated by the well-known UFO investigators Dr. J. Allen Hynek and Dr. Leo Sprinkle, they subjected Walton to several sessions of regression hypnosis, in which he recalled a part of what had befallen him during the five days.

According to his account given under hypnosis, when the beam of light hit Walton, he became unconscious. On awaking again he found himself lying on a small metal bed in a room that was also metallic, where several strange beings almost 5ft. in height were examining him. He described these beings as very pale coloured, with big bald heads, very big eyes with white sclera, and very large pupils (like ours, only bigger). The beings had very small noses, mouths, and ears, and hands with five fingers. They were wearing tight-fitting grey garments covering the entire body.

Reacting, and extremely frightened, Walton jumped off the bed and, seizing a strange tubular instrument, threatened to strike the beings with it, upon which they made signs to him not to hurt them and they went out of the chamber. Then Walton fled out of the room too and followed a curving corridor until he arrived in another chamber with a big domed transparent roof through which he could see a firmament filled with stars.

In this room there were a number of chairs and some equipment resembling control panels. Despite his fear, he felt curiosity, and so touched one of the controls. Instantly there came a change in the pattern of stars on the ceiling and, scared, he let go of the control.

While he was there, several beings of human aspect appeared, tall and blond, and with powerful physical frames. They were men and women, with pink skin and grey-blue eyes, and long blond-golden hair down to their shoulders and wearing tight-fitting one-piece blue suits covering their bodies from neck to feet.

These individuals calmed him down and took him for a walk around, and he then perceived that he was out in Space, aboard what seemed to be a craft of larger size, a mother-ship. They showed him hangars containing several craft like the one in which he had been brought, and other things. Finally they put him to sleep by giving him a gas to inhale, and then returned him safe and sound, though somewhat confused, at a spot close to where it had all begun, on a highway - about five miles or so from the spot where it had all started, in the State of Arizona.

The case of Travis Walton is one of those most studied and most investigated in the entire history of this sort of thing, and all the eyewitnesses involved in the case have passed the polygraph or lie-detecting tests to which they have been subjected over the course of the years. We have to say that in the case of Travis Walton the Aliens did not state their supposed point of origin.

Another case of a very singular contactee who avers that he was for many years in touch with tall blond beings of human aspect is the controversial Swiss man, Edward

(Billy) Meier. According to him he was in contact with these beings since the beginnings of 1970s. According to him they are extraterrestrials originating from several worlds in the Constellation of the Pleiades, and according to him the human race is the result of the colonization of the Earth by them in the remote past, i.e. by cross-breeding.

As in the case of the contactee George Adamski, Meier says that thanks to his contacts with them, he succeeded in taking hundreds of photographs of the craft in which the beings from the Pleiades perform their travels. (See Fig. 2)

Likewise, just as in the case of Adamski, Meier's photos are the subject of polemics and bitter discussions, since in the eyes of many they are just a trick, although various tests carried out on them by experts have shown that they do seem to be real photographs of flying objects and not clever trickeries. The discussions on the matter are still going on, and will be the subject of future articles in this Review. (*EVIDENCIA OVNI*.)

Blond beings like those mentioned above also contacted a Señor Quintín Ramírez, a Puertorican and one of the former owners of the land around the Laguna Cartagena - Cartagen Lake - in the border areas between the municipal regions of Cabo Rojo and Lajas (South-West corner of the Island). The meeting took place in 1964 and we received an account of it from his sister, Señora Zulma Ramírez.

According to what she told us, her family had been seeing craft of the flying saucer type going down into and coming out of Lake Cartagena ever since 1957. On one occasion, in the summer of 1964, her brother shouted to the figures that he could see at the windows of the craft, saying that he would like to know them, and one night he felt a telepathic call in which they were asking him to go to the "Las Guanábanas" sector of the road behind the Lake. Once he had arrived there, he saw, coming from the Lake, two tall men dressed in tight-fitting clothing with what looked like sequins or silvery scales and with long fair hair, very handsome men - "so handsome that they looked like women", he said.

They came towards him but he was so moved by it that he felt "as though his heart was going to leap out", and he asked them to please come no nearer. They seemed to understand what he was saying, and smiling gently they nodded their heads and slowly withdrew again in the direction of the lake, and vanished. Today Lake Cartagena is famous throughout Puerto Rico for the numerous sightings of UFOs there and for the encounters with alien beings that have taken place there over the years.

Similar blond beings contacted - on at least two occasions - a fisherman named Inocencio Catauet, residing at Aguadilla, near the beach known as Playa Peña Blanca. These encounters were said to have been in the summer of 1988, when several tall beings with pink skin, light-coloured eyes, long fair hair, and dressed



Fig. 3. Sketch of the general type of the alleged Koldasians.

in shining white tunics and golden sandals, communicated with him, by means of symbolic telepathic images, regarding geological changes that would soon occur on the Earth. Likewise he said that during one of these meetings, they had taken him aboard a submarine vessel "shaped like a fish, like a dolphin, - wonderful - that ran by a technology entirely based on the energy contained in water."

The blond beings told him that they were not connected in any way "with the others - those who are doing things that are bad", (The "Rigelians?"), and they said they were watching those.

They revealed to him that they travelled between dimensions and through dimensional portals which were opened up by means of magnetic devices, and furthermore they told him that their species (the blond ones) were carrying out an exhaustive and specialized study of the genetics of all the marine species on Planet Earth. And they said that other species were undertaking the same sort of study with regard to the different species and biological kingdoms.

A blond being of similar characteristics also contacted a young man named José de Diego, living in San Juan. The contact took place on El Yunque mountain (at the eastern end of the Island) in the summer of 1988. This being, who at first presented himself in the form of a ball of light particles, then assumed the form of a blond man wearing a tunic and golden sandals. The being informed him - also by means of signs and drawings - that there would soon be changes on the Earth and that soon they would come to the Earth en masse and that there would be a total contact, and they gave him to understand that

terrestrial man was going to undergo a total change of consciousness towards a higher level.

Similarly, in June 1991 a San Juan family, consisting of a lady whom we shall call Carla Suárez, her husband Julio, and their three children (two boys and a girl) had an encounter with another of these blond beings, this time wearing a white tight-fitting one-piece suit with a large golden medallion on the breast.

This blond being levitated them all over a barbed-wire fence and then took them through a sugar-cane plantation to a medium-sized metallic craft of triangular shape. Once again he levitated them and then took them into the craft and when inside talked to them about some other beings (a particular variety of "Greys") who were "problematic and dangerous" (Rigelians?), with whom the family had had an encounter previously in the vicinity of Lake Cartagena, and also in the region of Lajas and Cabo Rojo. After that he released the family and took them back to their car.

Well now, as we said at the start of this article, various places of origin have been suggested for these races of alien humans. The places mentioned have derived from statements given by aliens themselves during the encounters with the terrestrial human eyewitnesses or via special channellings.

Of these races, the one that is inter-acting most with terrestrial man, as we have seen, are the so-called tall blonds, who have an average height of between 6 and 6½ feet, and are said to be coming from two main areas. Probably they are Procyonians, beings from a solar system orbiting around Procyon, a binary or "two-sun" system, of light yellow stars which rises before Sirius in the Constellation of Canis Minoris at 11.4 light-years from the Earth. They would be from the fourth planet in orbit around the double system of Procyon. This would be a cosmic race with a positive orientation and attitude vis-a-vis the terrestrial human being. *The only thing that they don't like about the terrestrial human is our tendency to inflict harm on our fellow-men and our extremely materialistic tendencies.*

Another variety of this type of beings allegedly come from the star system of Orion, and are also described as tall and blond, but of a very powerful physical constitution and very athletic appearance. Our inter-action with these last-mentioned beings has been less than with the Procyonian blonds. According to the information available on this point, it would seem that the ones called "tall blonds" are opposed to the activities of a racial group specifically of the type of beings known as the "Greys", those who come from the star system of Rigel. It must be made clear that not all of the "Grey" type beings have negative or utilitarian attitudes vis-a-vis the terrestrial humans). An example of this is the race of the so-called Zeta-Reticulans, who are said to have a friendly attitude towards the terrestrial human race.

It is with a group of the Rigelian "Greys" that

some terrestrial Governments are said to have secret agreements which have placed us in a very bad situation.

The race of the blonds from the Pleiades - already mentioned - are another of the races said to be visiting us. This race is composed of similar beings, but of smaller size, being of the same average height as ourselves. It is claimed that along with other species, they have made an offer to the terrestrial Governments to help the latter to rid this planet of the negatively inclined beings.

Another "human" alien race is said to be the Koldasians (see Fig. 3), who, it is supposed, have their place of origin in the star system of Polaris. Unofficial sources declare that the Government of the USA and the Koldasians have also arrived at secret agreements for them to have subterranean bases in the USA. However it is said that the agreements were broken and the Koldasians withdrew when the USA attempted to take their base by force in order to get possession of their advanced technology.

Finally, another variety of human-type alien beings are the so-called "Browns". These are totally human in appearance, also of a very athletic disposition, with light brown coloured hair and eyes that are light or dark brown or hazel. One peculiar detail about these beings is that they are said to have a somewhat flattened nose, and pointed ears. They wear their hair short, in the 'flat top' style, combed down on the forehead. These beings are said to come from the star system of Tau Ceti, in the Constellation of Cetus.

A few species of the tall blonds have very highly developed intellectual and verbal abilities, while others are mute and telepathic. The blonds with abilities in verbal communication can respond with violence if attacked or threatened, but the telepathic/mute ones will not do so. In the majority of cases in which they have been seen by Earth people the eyewitnesses aver that they looked like young people of around 27 - 35 years of age.

Certain reports indicate that the tall blond races carried out experiments involving both artificial insemination and crossbreeding with the primitive terrestrial humanity in very ancient times. They were seeking to combine the greater cranial capacity of the tall blonds with the pulmonary capacity and respiratory system of the primitive humans who were better adjusted to the atmosphere of this planet. *The sudden appearance of Cro-Magnon man is said to have been the result of this intervention.*

This same tall blond species are said to have continued the crossbreeding with us, as in many phases of our evolutionary development, and this sort of activity is said to be still continuing until now. By means of this crossbreeding they are trying to put

right and correct the results of their early interventions, because while we have turned out to be a physiologically acceptable species, we are still an immature and psychologically unstable one.

The Procyonians link themselves up with us telepathically in order to experience vicariously our emotions. Their motivation for doing this is in order to trace and totally understand the psychological and the biological ramifications of such emotions, and their motivation for conducting the crossbreeding with us is to link themselves genetically to the vibratory frequency of our species, in order to assist us to perform a leap in our evolution and in our consciousness, and so that we will be able to help ourselves.

This leap in our level of consciousness will help us to eliminate the tares of destructive personality which from our ancestry we carry in our psyches, and help us to seek the well-being of all the species of life on Planet Earth and not only of the humans, which will result in great benefit to the terrestrial biosphere as a whole.

Finally, something that the tall blonds totally reject is the tendency of the terrestrial humans to "deify" them and to see them as the "saviours" who will resolve all their problems, whether it be by eliminating the problems that we ourselves have created by the grave environmental contamination of the Earth or by bringing about peace for us by putting out of action our nuclear weapons etc.

They point out that we Earthling humans tend to "divinize" or to satanize" visiting extraterrestrials or visiting aliens - be they extraterrestrial or be they interdimensional - in order to absolve ourselves of responsibility for our own actions. In aiding us to make an evolutionary leap they are helping us to take responsibility for what we are doing. We have got to understand that we are the architects of our own destiny and that nobody is going to resolve our problems for us.

Here then, so far, is the story of the alleged origins of the alien "human" races who are visiting us and inter-acting with us. As we see, their origins are various and coincide with the stellar zones identified since the very ancient times by the civilizations of Sumeria and Egypt and others as the places to which they adjudicated their own Gods - that is to say the Constellations of Orion, Sirius, The Pleiades, etc. Some people visualize that some of these beings, belonging as they do to superior cosmic or extradimensional planes, might well be ANGELS.

In the first part of the next article to this, in this issue of our Review (*CARRIED UP INTO THE LIGHT* -already published in FSR Vol. 43/1) we shall begin to examine this angle of the phenomenon. ■

READERS' LETTERS

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Mr. Gordon Creighton
High Wycombe, Bucks, HP13 5DZ
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May 27th, 2002

Dear Mr. Creighton,

In the last issue of the FSR, Vol. 47/1, Spring 2002, pp. 12-20 Jorge Martin has written an article in which he once more mentioned the Amaury Rivera case and his photographs. One of these photographs you have put on the front cover. At page 19 Jorge Martin writes:

"A number of computerized analyses have been made, by experts, of the photographs by Amaury Rivera, and NOBODY has been able to prove that they are a hoax."

This statement is false, and Mr. Martin KNOWS THAT IT IS FALSE! How can we trust the many other statements of Jorge Martin, when he is not serious in a case, that we could prove?

At the MUFON 1995 Conference our expert Dipl.-Ing. Rolf-Dieter Klein has given a lecture about "Scientific Analysis of UFO Material by MUFON-CES" (p. 280-315). At pages 290 to 301 Herr Klein has demonstrated, that Armaury Rivera must have photographed 2 small models, hanging on strings from branches. This conclusion is based on the perspective calculations. There is no other physical explanation for the fixed locations of the "UFO" and the jet for all the images according to these trees as seen on all photos of the Amaury Rivera series. An other image analysis on the missing motion blur on edge sharpness done on the images confirms this calculation.

Most convincing are the animation due to morphing techniques. That movie has been shown in the German TV-ARD (first TV company) on October 24th, 1994. It is only available at the video to a book with the same title: "UFOs: Zeugen und Zeichen." No serious researcher who has seen this documentary can doubt, that Riveras photographs will show large objects, and that Rivera was in the luckily case to take a photograph every time a jet came close to an UFO exactly in the same distance. (The probability to get such synchronous events are astronomically small.).

Proving Rivera's photographs to be hoaxed is very easy, since he made too many photographs of his 2 models. Any expert can see the trick!

Please, inform your reader that the front cover image were models.

With best wishes,

Heibroner

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