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# BULLETIN

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Crescat scientia vita excolatur (where knowledge increases, life is ennobled)

Vol. 17, No.6 November-December, 1996



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Peter Hough

← Outline of  
alien here

Black and white reproduction of a photograph of an alien entity, taken by an abductee in England. See story inside for more details.

**IN THIS ISSUE:** -THE ILKLEY MOOR ABDUCTION AND PHOTO  
-BOOK REVIEW OF BUDD HOPKINS BOOK "WITNESSED"  
-3 WEST COAST U.S AND CANADIAN SIGHTINGS; AND MORE

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SCIENTIFIC CORRESPONDENCE

Ball lightning an electromagnetic knot?

SIR — Here we propose a model of ball lightning, a rare and beautiful phenomenon, so far unexplained. Usually, it appears as a flaming ball, most frequently red, orange or bright white, green or blue in some rarer cases, its diameter being typically 10–30 cm, although some examples of a few centimetres or of several metres have also been observed. It moves in an unpredictable way and disappears after several seconds, sometimes smoothly, occasionally with an explosion<sup>1,2</sup>.

Several different theoretical explanations of this phenomenon have been proposed, based on microwaves, combustion, electrical or nuclear processes, or new states of matter — including the opinion that they are no more than optical illusions. No explanation is generally accepted.

Here we propose a solution based on the idea of electromagnetic knot<sup>3,4</sup>, an electromagnetic field in which any pair of magnetic lines or any pair of electric lines form a link — a pair of linked curves (Fig. 1). Each knot is characterized by two integers  $n_m$  and  $n_e$ , the corresponding magnetic and electric linking numbers (the number of times that each curve crosses a surface bounded by the other). M. Berry (personal communication) suggested that we use them to try to model ball lightning (see also ref. 5).

For simplicity, we will consider here only knots of magnetic type, with no electric field. According to the method explained in refs 3 and 4, we obtain the following magnetic field whose lines are linked  $n_m = n$  times

$$\mathbf{B} = \frac{4a}{\pi L^2(1+R^2)} \{2(Y-Z), -2(X+nYZ), n(X^2+Y^2-Z^2-1)\} \quad (1)$$

where  $(X, Y, Z) = (x, y, z)/L$ ,  $R^2 = (X^2 + Y^2 + Z^2) = r^2/L^2$ ,  $L$  being a length which sets the space scale and  $a$  a normalizing constant.

The linking number  $n$  is related to the

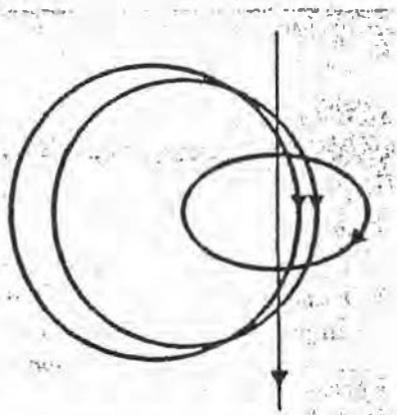


FIG. 1 Schematic representation of the magnetic lines in the case  $n=1$ .

so called magnetic helicity<sup>5,7</sup>  $h$  as

$$h = \int_{R^3} \mathbf{A} \cdot \mathbf{B} \, d^3x = n\alpha \quad (2)$$

where  $\mathbf{A}$  is the vector potential. This helicity does not depend on  $L$  and is a constant of the motion if there is no resistivity (if the conductivity is infinite).

If a magnetic field is coupled to an incompressible plasma that is hot enough, the magnetohydrodynamical approximation, in which the conductivity  $\sigma$  is assumed to be infinite, can be used. The motion is described by the Navier–Stokes equation coupled to the Maxwell equation for the magnetic field. A solution of this system is given by  $\mathbf{v} = \pm \mathbf{B}/\sqrt{\rho}$ ,  $\rho + B^2/2 = \text{constant}$ ,  $\mathbf{v}$ ,  $\rho$  and  $\rho$  being the velocity, the density and the pressure of the plasma. These states, the streamlines of which are also linked, are not really stationary, as its energy

$$E = \int (\rho v^2/2 + B^2/2) d^3x = (n^2 + 1)a/L \quad (3)$$

decreases by increasing the length  $L$  (the mean square radius of the energy distribution). Because infinite conductivity implies very high temperature, the knot radiates strongly according to the Stefan–Boltzmann law, which is why it shines and has a flaming aspect. If the knot radiates the same amount as a sphere of radius  $L$ , its energy loss is  $dE/dt = -\sigma^2 4\pi^2 L^2 T^4$ , where  $\sigma^2$  is the Stefan constant and  $T$  the temperature, this forces the ball to decrease its energy by increas-

ing  $L$  according to equation (3). Assuming that the expansion is adiabatic and that the plasma behaves as an ideal monoatomic gas, its temperature must decrease as  $T = \beta L^{-2}$ , where  $\beta$  is a certain constant coefficient. From equation (3) and the last two relations, it follows that  $L = L_0(1+t/\tau_n)^{1/5}$ , where the characteristic time is  $\tau_n = (n^2 + 1)\tau_0 = (n^2 + 1)L_0^5 n / (20\pi^2 \sigma^2 \beta^4)$ . Consequently, the radius of the ball increases, the magnetic field goes to zero, the temperature decreases as  $T = T_0(1+t/\tau_n)^{-2/5}$ , the plasma cools down and the brightness is reduced. The stability of the structure, as measured by the slowness of the cooling, is due to the constraint imposed by the conservation of the helicity equation (2), or equivalently by the linking of the lines. The linking of the knot keeps the plasma hot for a time that increases with  $n$  and is longer than for an unlinked system.

We have assumed that the initial temperature is high enough, say above 30,000 K, to imply infinite conductivity. If  $\sigma$  could remain infinite, the expansion would continue for ever as  $(1+t/\tau_n)^{1/5}$ . But the conductivity decreases together with the temperature, bringing two new effects into play: first, an additional energy loss by Joule effect which accelerates the cooling; and second, loss of helicity conservation. This leads to the destruction of the knot.

Thus, a magnetic knot formed by a lightning in a storm, where the air is ionized and the temperature very high (30,000 K at least), first radiates energy according to the Stefan–Boltzmann law. Insofar as the conductivity can be considered as infinite, the conservation of helicity constrains the decay of the ball, which loses energy by slow expansion as  $(1+t/\tau_n)^{1/5}$ . This produces a reduction of its temperature and a corresponding increase of the resistivity, which in turn produces helicity loss and dissipation of the structure.

To design an experiment to test this model in ball lightning is not easy for obvious reasons. There are two possible laboratory settings: tokamaks<sup>8</sup> and devices constructed to produce fireballs<sup>9</sup>. Thus it may be possible to test the ideas proposed here in an appropriate experiment.

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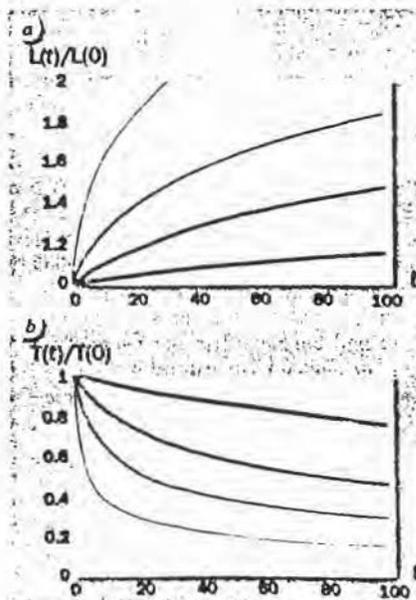


FIG. 2 a,  $L(t)/L_0$  and b, temperature  $T(t)/T_0$  versus time in units of  $\tau_0$  for infinite conductivity and for the linking numbers  $n=0, 2, 4$  and  $10$  (in increasing order of thickness).

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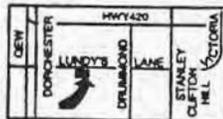
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OUR COVER STORY-

## **RETIRED BRITISH POLICEMAN ABDUCTED, TAKES PHOTO OF ALIEN CREATURE LEAVING AREA**

by Lawrence J. Fenwick

More than eight investigators from the West Yorkshire England BEAMS UFO group have reported on a major case which occurred in the morning of December 1, 1987. They followed up on the original investigation by Arthur Tomlinson a retired British policeman, was out alone on Ilkley Moor in Yorkshire, England with his pocket camera loaded with colour film and a compass in case he got lost. He came upon a hovering, domed, silver metallic disk. Suddenly an electrical field surrounded him and he was levitated up inside the craft. It was not what he had expected that morning as he only wanted to take pictures of the town of Ilkley. Clinical psychologist Jim Singleton regressed the man who said he was first put onto a table in a white room. Telepathically-relayed words of reassurance calmed him down. He described the creatures as having green, rough-looking skin, and short, "about four foot, with big, pointed ears and large black eyes. They haven't got a nose and only a small mouth. Their hands are enormous, and their arms are long. They've got funny feet, like a V-shape, two big toes (cloven hooves). They've got three big fingers, like sausages." The photo is blurred. It and the negative were checked by Kodak who declared it genuine. Some of you might not see the entity's outline at first glance, but it is in the center lower section of the photo. All you can tell from it is that the arms are long, one seeming to extend nearly to the ground. It is much clearer in the original colour photo,

as reproduced in Alien Encounters Magazine's September, 1996 issue on page 56.

Under hypnosis, he went on to say that a sort of illuminated scanning device was passed repeatedly over his body. Then we were allowed to sit up and get off the table. A short while later, he was taken to another room. There, he was shown frightening future images of Earth and its pollution and final destruction. Finally, he recalled finding himself back on the Earth exactly where he had first seen the craft. He saw the green alien run a short distance and stop at a safe distance away from him. It bent and raised its arm as if it was signalling. Was it waving good-bye? As he took the picture, it ran away, hiding behind a large, moss-covered rock. The policeman ran there and found the disk. It quickly rose and sped into the clouds in what seemed like a fraction of a second. Two hours had passed in which he could not recall anything. Only under regressive hypnosis was he able to remember what had happened in that "missing time" period.

When he looked at his compass after the incident, he saw that its polarity had been reversed from north to south. Investigator Tomlinson took it to the University of Manchester's Institute of Science and Technology. They found that ordinary magnets had no permanent effect on a similar compass. Scientists there said

that the only way the polarity could have been reversed would have been if it had been exposed to either a rapidly applied or pulsed magnetic field generated by electricity, or by an extremely powerful industrial magnet available from Japan.

The media publicized the policeman's case, without mentioning his name. One day, two men calling themselves 'Forester' and 'Davis', arrived at his house. They showed him

official-looking ID cards and said they were from the British Ministry of Defense. When they asked to see the photo, they were told to leave, which they did. Menwith Hill Military base is only eight miles from the area.

Other BEAMS investigators involved were Ken Parsons, Alan Smith and Stephen Mera. Author Peter Hough now holds the Copyright to the photo.

## **"BONDING" AND WORLD LEADERS AS OBSERVERS HIGHLIGHT HOPKINS' NEW BOOK**

Book review of Witnessed;  
The True Story of the Brooklyn Bridge UFO Abductions  
by *Budd Hopkins*

Book Review by **Lawrence J. Fenwick.**

This is one of the most important books written about UFO abductions. In fact, it is also deserving of a high ranking amongst all books written about UFOs. The hard-cover book has a spectacular cover jacket illustration by John Stevens, three appendices, and notes, but no index. Its 400 pages are dedicated to Hopkins wife Carol. Included in the 16-page photo and drawing section in mid-book are three drawings by former CUFORN member Sal Amendola. The principal abductee in the events is Linda Cortile, the last name being a pseudonym. CUFORN Co-Director Harry Tokarz has been in telephone conversation with Linda over the last few years and has followed the developments in the case closely. When this book was published, the case was already known to this reviewer through Harry, who kept him up to date on it from time to time.

What makes this case unique is that there were 11 people involved,

four of them abducted, it took place in one of the world's largest city, New York City, several world leaders were witnesses (one of them, known in the book as "The Third Man" was abducted, and a pattern of repeated abductions of Linda and others over the years appear show that the aliens are doing a psychological experiment on people to see how they develop sexual and social relationships over a period of time. The fact that world leaders were there makes it appear that the main abduction was done to show the world that abductions are real. It was the equivalent of the proverbial "landing on the White House lawn".

The book reads like a diary, logically set out in a chronological order, with the chapters centering on the main events over the years of the aliens study and experimentation on the key abductees. It has a great

impact on the reader for another reason: much of the writing contains quotes from the people involved. The videotaping of the interviews with Linda along with the presence of a historian, Chuck Strozier, & psychotherapist Gibbs Williams, lend an air of authenticity to the whole of Witnessed.

Central to any critique of the book would be the fact that none of the main abductees and witnesses has been willing to give out their real name yet. So we are dealing with anonymous people. This is done for a good reason. Fear of ridicule and harassment, and fear of loss of status and credibility are the motives for hiding the people's real names, in most cases. Two U.S. Intelligence agents are involved, both of whom fear for their lives and or jobs if they went public. They were abducted along with the Third Man, and Linda over a period of years. The November 30, 1989 abduction near the Brooklyn Bridge at 3:00 a.m. is the one abduction of a series involving these four persons that got the most observers' attention. One of the intelligence agents literally cracked mentally under the strain of realizing he had been taken.

I did a bit of research to try to find out who the World leaders were, including the Third Man. I looked carefully at microfilm of the New York Times for the week leading up to November 30, 1989. I did this by spending four hours at a large library in Toronto one Saturday afternoon, by coincidence on November 30, the anniversary of the Brooklyn abductions. I only realized the coincidence after I reached home. What I came up with was that there were several major World leaders in New York for U.N. meetings. They were

Perez De Cuellar, the Secretary General of the U.N. , Willy Brandt, the Chancellor of West Germany who was known for his getting the Nobel Peace Prize, Lech Walesa, the President of Poland, and Edward Heath, Britain's Ambassador to the U.N. and former British Prime Minister. One or all of these men was present at the scene and saw the event unfold.

I myself have seen the building from which Linda was taken and I saw this building from the Brooklyn Bridge in daylight while touring the New York City area on holiday with my daughter and my late mother who lived in West New York, New Jersey and worked in the Empire State Building. I have also sat in an automobile under FDR Drive from where the two intelligence agents and the World Leaders were abducted from their auto. Are all these merely coincidences or do they have a deeper meaning? I do not know.

One of the ironic bits of case is that Linda was abducted by the two intelligence agents after they mistakenly thought that she was an alien or an alien hybrid. This is the first case known where abductees themselves abducted a fellow abductee after they were all taken together,

Perhaps I have spoiled the book for the readers, Perhaps not. However, I felt so involved with it that I had to put my feelings about it in print and reveal what Hopkins has discovered about and from the case. Let no one mistakenly decide not to buy this book because they think they have found out all about it. You do not know the half of it yet. I urge you to find out

all the details by purchasing this book. It was published by Pocket Books in September, 1996 in New York City. Pocket Books is a subsidiary of Simon & Schuster Inc.

Witnessed sells for \$23.00 in the U.S. and \$31.00 in Canada. It's worth every penny.

## **CAR PACING CEI & NL REPORTED BY AMERICAN NURSE**

by *Lawrence J. Fenwick*  
investigation by *Kevin Gariepy*

A 55-year old psychiatric nurse reported two sightings to CUFORN when visiting her girl friend, who lives with CUFORN's Chief Investigator, Kevin Gariepy, on November 14, 1996.

Sarah K. Had two sightings of her own. Investigator Gariepy sent us the completed sighting report forms. Along with it were the following comments:  
" Sarah discussed that growing up in Utah, it was common knowledge that the U.S. Military had underground bases in the mountains (in the 60's) There were also such bases in the neighboring American States of Wyoming and Colorado.

In an unrelated statement, Sarah discussed how the F.B.I. once had her under surveillance for two weeks. They were looking for a military veteran who had apparently killed his son. She went to say that U.S. citizens no longer trust the government.

As background on Sarah, we present this : She presently resides in the U.S. She lives with her mother on the U.S. side of the border and drives to work in the Canadian province of British Columbia. She was quite reluctant to give her name (in fact, she would'nt) nor would she sign the sighting

report forms. She was worried that the government "might call her".

Sarah's first sighting was in 1983. She could not recall the exact date. It happened outside a house in Delta, British Columbia, on a bright moonlit still night. It was a clear night with a few stars visible, she said. Sarah, a college graduate, watched a silent light with sharp edges while she had buildings there that served as a frame of reference. It was about 90 deg. above the horizon and was the size of a basketball held at arms length. It moved slowly, hovering at times, and followed a horizontal flight path. The sighting lasted between 30 & 50 minutes. She could not recall the time of night. Her hearing and vision are normal, she added.

### **UFO PACED HER CAR**

Her second sighting was on an unnamed night in 1994 somewhere in Northern California. This was a light which , she said, was closer to her than 500 feet, and "while I was driving my car it kept parallel and matched the car's speed of 80 m.p.h. It was the size of a basketball held at arms length, and appeared both solid and as a light". The light was silent during her 30 minute observation.

The round light appeared on a windless night when the sky was clear and the moon was bright. She saw it at a 45 deg. angle above the horizon. At times, it seemed to hover.

Since we do not know the exact dates of her sightings, we could not check for IFO's such as fireballs

plasmas, weather balloons, etc.. Unless the person reporting the sighting has sufficient data upon which to check for mundane causes, we can not make a judgment as to whether they are reporting an IFO or a UFO. We therefore, call her reports ones with insufficient data.

## 20 YEAR OLD SIGHTING REPORTED FROM BRITISH COLUMBIA

A woman whom we will call Janine told of a sighting she had when she was 5 years old. She did this after noticing investigator Kevin Gariepy's collection of UFO books while she was visiting her friend Ann who lives with Kevin. She is currently living in Surrey, British Columbia, Canada's Westernmost Province. She is a mother with three young girls.

She reflected that around the year 1976 there were "a lot of sightings" reported in the Surrey area which she said is near "Victoria Base"

She said that "one evening" she saw a "disk" in a clear sky as she looked out the back window of a car. She tried to tell the adults in the car, who were her baby-sitters but they just said "sure", without looking themselves to see what it was. She said she felt that they would not bother to look as they were engaged in a conversation at the time. Investigator Gariepy said he would try to check into weather conditions at the time. Below is "Janine's" drawing of what she saw on King George Highway in Surrey:

