

# UFO REVIEW

The Truth is a bit constipated and won't be popping out real soon

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Number 10

## New Alien Autopsy Santilli Footage Finally Released!!!!



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## Welcome



Late again. Oh well, best thing to do is to abandon deadlines and you'll see us when you see us. Ironically, issue 11 might not be far behind.

As is the way with these things, an underlying and continuing progression of thought has brought me to a point where I have become convinced about the process that will be used for introducing the Human race to the reality of alien life. Yes, I've cracked it and I'm serious. It will be through the eventual announcement of life existing on Mars. It's really very obvious actually when you think about it, because that announcement will come at some point, but it won't be about Martians. It will be about microbes; life that can only be seen under a microscope.

That isn't the way of course that most of us would like it to be done. What we want is drama, perhaps an unplanned event like the Phoenix Lights (assuming that *was* unplanned) and the President of the United States being forced into making a statement. That though we are unlikely to see. First we need to get comfortable with the fact that something else with a pulse lives elsewhere other than here on earth and small creepy crawlies are not too threatening to the general public. Then, gradually, the debates start up and the process unwinds. It won't be quick. And a small part of that process will be the next Spielberg film *War of the Worlds* which is dripping in irony. For many consider that Orson Welles' radio adaptation in 1938 was partially responsible for the mess we're in right now with this subject.

Many disagree with what I've written above but in my bones I feel this is the way this story of ours will unfurl.

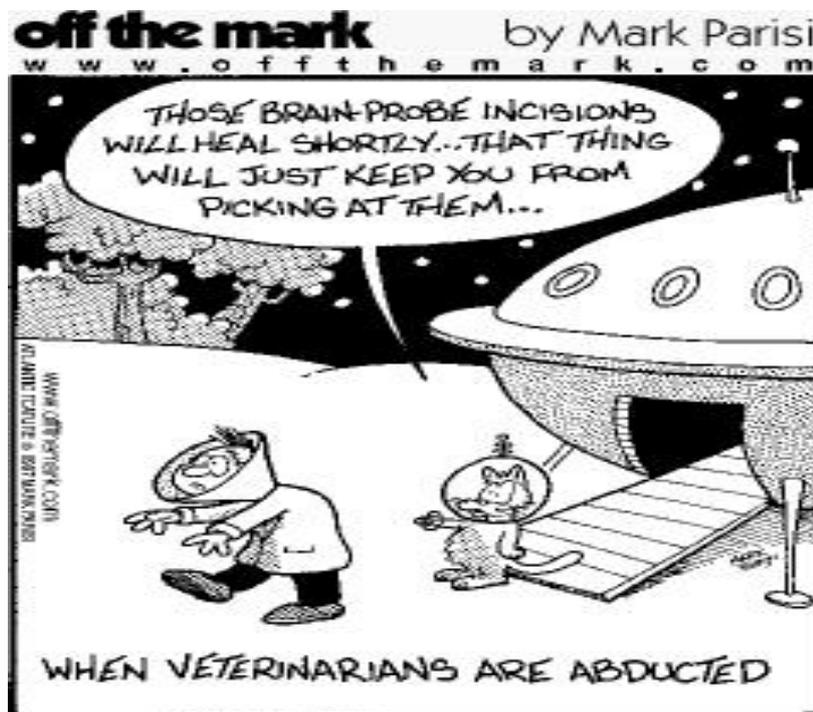
For the last three or four years I have been setting myself a target of getting over to the States to attend a conference - I have one or two in mind - and to see some old friends. I set myself the goal of the latter part of the year and every time it comes round I seem to find excuses for not going. It's very depressing. I am determined to get over this year.

As is the cyclical nature of these things, the debate about the Alien Autopsy footage has re-surfaced again in one or two places, and indeed, we carry an article in this edition that draws heavily on the topic. I'm glad that things come round again because it gives me the chance to re-focus on something that I hadn't looked at properly the first time. I was easily swayed by the uproar the film generated when it first came out and had long put it in a box in my mind labelled "probably fake", but I had done that on the backs of other people's opinions. Now I feel differently about it. There's no point in pointing to various bits of analysis or things that people did or did not say at this juncture; all the evidence that was ever likely to surface has done so and we need "the next step" to take this any further. My point is that experts have contradicted each other and countered each others points and Santilli has done his bit in answering various questions and owning up to his misdemeanours. I don't feel, looking at the evidence out there that one can genuinely come to an objective decision about it. Most people have arrived at their conclusions subjectively but aren't honest or bright enough to either recognise that or admit it. In fact, it would be an interesting study just to look at the Ufological community's reaction to the whole farrago purely because it not only touched upon so many vested interests but also reached into the very souls of

ufologists in terms of what they wanted and what they expected when that great moment arrived and they saw their first ever non terrestrial being. My own thoughts have changed very rapidly over the last few weeks with this and I am now of the opinion that the film itself is genuine. At this moment though, I'm only "so-so" about whether what we're actually looking at really are aliens or something else. But this subject isn't going to go away.

As usual, this edition carries a wide range of subject matter and in particular, we step into the topic of crop circles for the first time in a serious manner. Jenny Randles appears to have got all this sorted out, or so she keeps telling everyone, ages ago actually. I'm very pleased for her. I've not bothered to read what she's written and probably won't. Difficult to take statements like that seriously and hence the folk behind them.

My thanks to all this issues contributors.



It's late Spring, the days are longer, we've already had the first lambing season and the crops in the fields are starting to grow. As it's the UK, that can only mean one thing. **It's Crop Circle time.**

## Interview with Andy Thomas



Mention crop circles to any "serious" ufologist and if you get a reaction at all, it will be the standard, "They're all man made". Or, they shift uncomfortably at the thought of them because it brings to mind an image of mature baby boomers reliving their hippy days with shades of the dreaded "New Ageism" thrown in. Serious ufologists care about which thread screw fell of a particular alleged craft and in the background, there is some vague awareness that crop circles equals "spirituality", or, god forbid, thinking.

If you do read this, which of course you should, you will laugh your head off at the similarities between the two sciences. Yes, sciences. The parallels are striking. Almost the same problems, the same frustrations, the same difficulties.

So, methinks, if we are going to talk about crop circles in a semi-serious ufological publication, we might as well speak to someone who doesn't talk bollocks and can speak to us at a level we appreciate and interact with.

He may not agree but I regard Andy Thomas as the leading voice of Cereology, certainly in the UK and probably within the top 5 in the world. How do I come to that conclusion? I've read his books, or some of them, and was delighted to be confronted by a sane, rational, readable, and very wry and amusing individual.

Andy has certainly had his moments. Now an integral part of the Glastonbury Symposium, his lectures in the past have been anything but conventional, as you will discover. He probably redefined the concept of the word as his audiences were verbally and emotionally hit hard over the head with a figurative hammer, as he went about making his various points.

This interview was recorded on April 13<sup>th</sup> 2005.

SM: I know that you were, and for all I know may still be a performer. Are your performances and your interest in crop circles in any way linked?

AT: I've always been interested in creative things and I was in the music business on one level for many years and wrote music and songs. I've been a gigging musician as a keyboard player for 20 years plus now and I would say it was that artistic/creative spark which the crop circles stimulated; I found the circles very inspiring when I became involved with them. I used to write a lot of song lyrics and writing generally was something I was very interested in, so when I became involved with crop circle people and we started up our own organisation, which eventually became known as *Southern Circular Research*, it made sense that I would write the newsletters. That's how it began. Then it turned into our journal, which was known as the *Sussex Circular*, a few stapled bits of paper that then wound up selling 500 copies every month, which was pretty good. (Now we have transferred our work to the website [www.swirlednews.com](http://www.swirlednews.com).)

Because of the journal, that was when I began to write a lot about crop circles. And then eventually my performing side did become a part of it because I was asked to give talks about them, which I had never done in my life. I'd never given a lecture, although I was used to appearing on stage and already had a knowledge of stage presence and making my voice heard through acting and singing and whatever. So those skills then came in useful.

SM: I've never seen you perform but the impression I've got is that it's quite 'in your face'. Would that be right?

AT: I give lectures about crop circles all over the world now. I'm off to Peru in a few months time, for instance, which is very nice, but a lot of the time you're talking to smaller local groups where basically you've just got to give a straight talk. You can't be too flamboyant. My infamous reputation for big theatrical stuff really comes from my connection with the Glastonbury Symposium, which is the world's longest running annual crop circle conference, held each July.

Originally I was just a speaker at the Symposium and now I'm one of its organisers, but when I first arrived there in 1994, I found that other speakers often used to do a little bit more than they would do normally. There was a slight theatrical bent to the whole thing already. So I was inspired by that and took it on somewhat further. You'd be up on stage and people quite liked you to do something that was a little bit different. It started as small things, with the odd funny little prop or costume, and then it expanded into full scale performances. We had the Queen, who turned out to be an alien, onstage; we had people take their clothes off; CIA agents roaming around; and I once came on in robes surrounded by worshipful followers! All this sort of thing. But it was always to make a point.

Partly the reason for this was that I needed to wake people up as I'm normally on first thing in the morning on a Saturday. The other need was to do something that's just a bit unexpected, to hopefully shake an audience out of their complacency about what a lecture is. It seems to work, but the only thing you're stuck with is that people tend to remember the silly bits, but can't always remember three years on what you actually said!

SM: Have you ever had a negative response to any of your stage performances?

AT: Very few. Most people appreciate it. I think there's one or two, particularly older people, who like a lecture to be a lecture and that's that, and who perhaps don't appreciate the more flamboyant side of it. But even when a man and woman took their clothes off on stage, I think only one person said they thought it was a bit over the top. Everybody else took the point and seemed absolutely fine about it, which was great because I was expecting more complaints.

The theatrics are always to make a point, and obviously it's not the sort of thing you'd do in your local Women's Institute hall. Normally I keep it straight. It's the Glastonbury lectures, and just occasionally elsewhere on request, where the stage gimmicks take place. On the whole though, I do it straight.

SM: Was there a single defining moment in which you took an interest in crop circles?

AT: Yes, there was, definitely. I had been vaguely aware of crop circles in the mid 80's, because there'd been one that had appeared near Dennis Healey's home (ed - Healey, curiously, is a former Minister of Defence in the UK government), which is not very far away from where I live, in East Sussex. I remember that being in the local newspapers and then the nationals, and recall being curious, but for some reason it didn't particularly grab me at that point. There was a strangeness to it which appealed to me, but my mind was involved in other things at the time.

It wasn't until 1991 when it really clicked. I was on my honeymoon, of all things, with my then wife (sadly, we're now separated), and we went down to the West Country. I was aware that crop circles appeared in the Wiltshire area and I remember just casually thinking, "Oh it would be nice to see some of them while we're down here." The year before, in 1990, there had been loads of stuff in the papers about it.

So I remember being aware of crop circles, but even then it was just a kind of afterthought on our trip. I remember we were staying in a bed and breakfast place and we just said to the landlady, "Are there any crop circles around here?" She went and got some maps and showed us the places to go. It was the last day of the honeymoon and we got out onto the road on a misty morning and saw a crop formation in the distance. When the mist rose from it, and it became clearer, *that* was the defining moment. There was just something which immediately grabbed me inside on a strange feeling level that is really hard to define. I've described this before and the nearest I've been able to get to it is to say it was like something I had been waiting for all my life - but I didn't know it until it was there in front of my eyes. And it was like suddenly, "Yes! There's something about this which is going to change a lot of things." And it did.

So I just walked around in a daze, visiting these crop circles just completely blown away by the scale of them and the questions they raised, having absolutely no idea what could have put them there, going through all the questions that people do. Could it be a joke? Was it real? Where was it from? So that was the defining moment - seeing that crop circle coming out of the mist. It was quite some distance away, but it did it for me in that moment.

And then later that day, I actually walked inside some pictograms. It sent me on an obsessive search. I just knew I wanted to be close to this mystery; I wanted to get nearer to what it was about. And from there I joined the Centre for Crop Circle Studies; I found their address in the back of a book which I'd bought and hungrily read through, obsessively. I tried to find any other book I could about the whole phenomenon.

It was through the Centre for Crop Circle Studies that I met other interested people down in the Sussex area where I live, and we decided to form our own group. So that's where things started. We're still meeting in the same room, holding public meetings, to this day.

SM: Colin Wilson, in a recent interview, reckoned that the number of man-made circles is about 80% and the other 20% being genuine enigmas. Would you agree with that percentage?

AT: I've always raised objections to putting percentages on this, because by and large when you actually track down what people are basing their percentages on, it's just plucked out of thin air. It's vague. When you actually try to clarify the criteria, and I've had issues with other crop circle researchers about this before, you realise it's not based on evidence. It's often just based on their vague feeling. And giving a percentage based on a vague feeling is a contradiction in terms. It's a waste of time.

When you look at the actual real percentage of *known* man-made formations - that doesn't mean there aren't more - but if you just look at the known ones, it's something pathetic like 8% to 10% a year which can be *provably* shown to be man-made. Beyond that, it's speculation. So when people say 80% are man-made, I have to wonder where that leap of faith comes, because that's not based on evidence. It's usually based on rumours they've heard or it's because they don't quite like the look of *that* formation, because it's got a bit that doesn't look quite right to their eye, blah, blah, blah.

But then you find everyone's opinion is subjective. Everyone has a different view, and more often than not it's not based on evidence, nor on any proper analysis at all - it's just opinion and nothing more, and you cannot make up a percentage based on that. I think comedian Vic Reeves said it all when he said that "88.5% of all statistics are made up on the spot", and I think that's true. So, I would agree that there probably are more man-made formations than there have been in the past, but to say that 80% are man-made is an unprovable statistic and I just don't think anybody can put their finger on exactly what the percentage is.

My feeling on the whole is that it would be less than 80%, and there are not as many man made formations as that - but that's my opinion. If I then make up my own percentage, I'm talking bullshit too unless I've made a serious analysis of the evidence, which people often don't do these days. People often base an opinion on just seeing an aerial photograph, and I'm sorry, but you cannot tell anything definitively from that. You've got to go inside, you've got to take samples, you've got to measure it, you've got to look at the ground evidence, look at its geometry, and there's only a small body of people that do that.

Researchers that sift through a load of aerial shots and then say, "I like that one, like that one, hate that one, hate that one, that's a hoax" etc., based on nothing but their opinion and whatever mood they're in that day, make for a very poor system. And unfortunately, I think a lot of researchers do it like that. But it's useless, and to base these percentages, as people do, on that kind of analysis, if you want to call it that, I think is wrong.

SM: It's been well known for some considerable time as a result of research that there are biological changes that occur within a field where a crop circle has appeared. Am I right in thinking that those same biological changes have also been noticed in fields where there are circles that are known to be hoaxed or am I wrong there?

AT: I have never heard yet of any man-made formation, done as a demonstration or a test which has ever produced these biological anomalies. To my knowledge, based on the work of Nancy Talbot and W.C. Levensgood etc., no man-made circle has ever demonstrated these same affects.

About two years ago, there was a programme on the Discovery Channel where they got these students from MIT to try to replicate the biological anomalies in crop circles by making their own, and they couldn't. Even there, the programme misrepresented

itself. It tries to make out that the students did better than they did, but if you read Nancy Talbot's account of what they did and didn't manage, it proved that the effects she and her team were detecting were not reproducible by any manual flattening technique.



Amazingly, Mr. T in a crop field.

SM: How long does it take you to walk into a circle and come to the conclusion that it's a hoax?

AT: Well first of all, I never do that. I think it's a massive arrogance for anybody to stand in a field and quickly put their nose in the air and say, "Well in my opinion this is..." I think when you go down that road, you're in dangerous territory because you've got to do a number of things before pronouncements can be made. If you want the full criteria, if you like, on which you can base a proper opinion about a crop formation, you've got to take samples, you have to measure it, you have to look at its geometry, you have to find out under what circumstances it occurred, talk to local people; were there any witnesses to strange lights or were there any witnesses to people seen in the area that night? You have to look at the ground evidence, at the state of the crop, etc. Now that takes a long time to do and just standing in a formation for about 15 minutes as some people do, unfortunately, and then say, "Well this is a hoax", is not viable. I don't think you can do that.

SM: You possibly misunderstood my meaning. When I said, "From when you first walk into a circle" I wasn't expecting a timescale of a few minutes. Possibly months after, but you've really answered the question anyway – some considerable time after.

AT: Yes, and even then, to be honest with you, unless you were there when it was made by either people or non-people, you can't be certain, I don't think, unless you have absolute first-hand evidence, which most people never do. You cannot declare with certainty the reality or otherwise of that formation unless you have that. All you can do is express an opinion and I think it's very important when people say, "I think that one's good, or that one's bad" that it is made clear that it *is* an opinion, unless it is based on absolutely scientifically collected data, which most times it isn't.

SM: So it sounds like an incredibly muddled field, no pun intended, where the statistics are a waste of time.....

AT: Well no, the statistics are *not* a waste of time; it's the people who make them based on opinion and not evidence that create the problem. The point that I am making here is that you can reach a more accurate level of understanding if you use the actual data, but often people can't be bothered to collect the data and therefore just express opinions.

With enough time and enough scrutiny, I think you can make some very clear and interesting observations on which maybe then better percentages can be based. But what I'm saying is a lot of people do seem to reach this level where they can't put the necessary time and energy into ground research but are still expressing opinions. I have been outspoken about this in the past and have upset people because of it, but my take has always been that it is not a valid way to do research.

SM: Do you think there is pressure on researchers to take a sceptical point of view?

AT: I think what's happened over more recent years is that some researchers have been very keen to be taken seriously. If you're not seen to take the man-made component of it seriously, then you are open to attack.

What then happens, though, is that they can then become over-accommodating towards the human circle makers in an effort not to be seen to be ignoring that part of it, and wind up being very, very scared not to sound cranky or too New Agey. As a result, certain researchers tend to play more towards the sceptical side because they're afraid of being made fools of.

That's OK, but as soon as anyone goes down that road, often you then find they don't express their true beliefs. Instead they express opinions they think will sound good to the media or to the so-called scientific establishment, as if they're trying to have one foot in that camp and another in the whole surreal, weird and wonderful camp at the same time. I find that is not a position you can really be in for too long. Sooner or later you're going to fall into either the sceptical camp or the 'believer' camp - or you will be placed into one of the two boxes by other people.

Now because I have always refused to go down this road of pandering to the sceptics just to keep them happy, I therefore have been placed by a lot of people in the 'believer' box, as if I'm completely undiscerning and have no sense of reality at all, because that's the only way they can cope with it. They can't cope with me still saying "I believe there's a real phenomenon here, based on the evidence", especially if you're another researcher who no longer even bothers to spend time looking at the evidence properly. It's easier for them to paint me as some crazy person, while they continue to try to keep the establishment happy by saying things which sound good, but which actually aren't based on real research at all.

SM: Would you care to name those researchers that you have respect for?

AT: I don't think that would be fair either way because I wouldn't want, in an interview, to name researchers that I didn't have respect for. So therefore I don't think it would be right to pick out any of them.

But I think there are researchers out there doing fantastic work and there are also researchers doing not such good work. I think it's the same in all areas. Suffice to say, there are a lot of people who don't necessarily hog the limelight, but who are doing absolutely astonishing research, purely through their personal obsession with it. Maybe this work will reach the light of day eventually; one hopes it will. I'm in contact with

various people like that. Often, the ones that hog the limelight are the ones no longer doing the actual hard work, but that just seems to be the way of it. There is some successful crossover, of course, happily, but there is still a sort of divide between some of the personalities in the crop circle world, and those out there at the coal face, really doing the research.

What I'd like to see is more of a meeting of the two approaches. It would be nice to get more of a blend. You probably gather here, even as a crop circle researcher myself, that I have criticisms of the way the arena has become. But I would say I think it is the same in all areas. From what I know of UFO research, you get a similar phenomenon occurring there – it's just human nature. But I think with crop circles in particular, because researchers are often put on the spot to give their reasons for why they believe this is real, I think it creates more of an opportunity for this kind of polarity to be brought to the surface more obviously.

SM: When I've read your comments about hoaxers, they've been restrained, at least from what I've read. What is your opinion of hoaxers?

AT: It depends what you've read. You say "restrained"; I think I've been fairly outspoken about them in the past. What I've never done is attack them as people, for the most part, because I just don't see the point. I think you have to accept there are human circle-makers, that there is a certain level of the phenomenon that's made by people.

But I'm not particularly interested in that side of it. I'm more interested in looking at the evidence which suggests that they were *not* involved, and I try to concentrate more on that, without blinding myself to the human circle-making side of it. But that's not an aspect I'm that personally bothered about being involved with. Other people investigate that. They talk to them at great length, and that's fine. Other people can do that, and I read their reports and views. Therefore, I'm not going to give my time and energy to continually slugging the human circle-makers off. What's the point? It gives them more attention than they deserve. I have been restrained compared to some. Some researchers have gone on record saying all the hoaxers should be rounded up and shot, but I don't see how that helps anybody. All that does is make us sound like complete extremists.

SM: OK, perhaps that was an emotive over-reaction, but I can certainly understand where they are coming from with that. I'm surprised that you say that you're not bothered by them because surely what they're doing is getting in the way. They bring ridicule on the subject and they hinder serious research.

AT: But they're there. It doesn't matter what you or I think about them, they are not just going to go away. They're there, and they do hinder the research on one level, but on the other hand, they also keep us on our toes. They make us have to look very clearly at what we are calling good evidence, and this is where you do have to take the human circle-making into account. It helps bring it into balance at one level because you are forced to scrutinise what you are claiming are your results for a genuine phenomenon all the more accurately, and that's not entirely a bad thing.

So, yes, they're a nuisance at one level, but it's just a fact of life. It's just the way of it and I think in any area of study you're going to get a dark side and a light side, and you have to find the balance in-between. I just can't be bothered to get angry about them anymore. There are certain researchers that I've seen waste a third of a lecture criticising them, carping about how upsetting it is that hoaxers are there. Well, what's the point? It's not going to make them go away. If anything, it feeds them. They think, "Hey great, we're having an effect. We'll keep this up."

SM: Do you think they're pathetic?

AT: I don't know. I think it depends what the motivations of the individual hoaxers are. If they are just there for mischief and to have a sniggering tee-hee behind the hand at what they see as all these pompous pseudo-scientists, if that's their attitude, then yes, that's pathetic. If they are out there trying to see what really can be done, as some research thing, okay, it's still morally dubious because they're not doing it with permission, but perhaps that's a bit better.

If they are creating art as some have claimed, as some kind of higher inspirational thing and they just can't help themselves with it, well, that comes down to whether you believe them or not- if they are, then okay, there's another motivation to consider. But I think that's the problem – how does one discover the real motivation? These people play games and don't always tell the truth. For me to say they're all evil wicked people means that I therefore have got some higher knowledge of where they stand - and I don't.

The ones I have spoken to over the years, and I have, inevitably, been on TV programmes with some of them and chatted to them, most of them, with a few exceptions, seem like reasonable human beings to me. That said, I think some of them *have* got dubious reasons for being involved. Others claim at least to be doing it on some higher artistic level.

SM: What's Doug and Dave's claim?

AT: I saw Doug Bower once, a long time ago, and was not impressed by him. I have to say the Doug and Dave story – the first public hoaxing claim in the 1990s - was not in the same league as some of the more recent hoax claimants, if you want to call them that. I think there is evidence they were a distraction story, created from somewhere, to diffuse interest in what was really going on. I don't think the evidence they had was very credible and I think they had motivations that were not good. That was the first overt hoax claim that ever came forward, but if you look at what they claim and the way they claimed it, it didn't carry much weight, and those human circle-makers who have come after Doug and Dave have learnt lessons from that.

SM: My conspiracy-orientated brain picked up as you were speaking there, because I thought I detected an intimation that Doug and Dave were put up to it. Are you saying there is official undisclosed interest in what is appearing in cornfields?

AT: I have no proof whatsoever that there has ever been any conspiratorial campaign against crop circles, but I think there is a level at which certain things become suspicious, and I think there were a number of very suspicious areas to the whole Doug and Dave story. I think, and this is nothing more than an opinion, but it is an opinion shared by many people, that particularly at that time (1991) there was a genuine cause for concern, from an 'authority's' point of view, which might provoke them to concoct a distraction.

If you were some higher authority back then, you've got strange lights hovering over the fields, you've got huge shapes appearing out of nowhere, great public furore - what do you do? You can't stop it happening, you can't control it. It doesn't look too good, because it looks like you've actually lost control. Here is something over which the authorities have no control - so what do they do? If you can't stop it happening, then the only thing you can really do is perhaps create a distraction story which is so ridiculously moronic that you know everybody is going to believe it and think, "Oh, right, it was just those two old chaps". And then everyone stops thinking about the reality of the phenomenon, which is what occurred.

Now, there were claims that there were MI5 connections behind Doug and Dave. It wouldn't surprise me if that was the truth, as there was some evidence to support that, but I think you can get *too* paranoid. I wouldn't go beyond saying much more than that. I think a lot of the media debunking that has occurred since is just force of habit on the part of the media, rather than an ongoing campaign, but I wouldn't put it past the authorities to occasionally throw something into the pot, just now and then, to keep the debunking momentum going.

But again, you can't worry too much about that. If there is a coordinated campaign against crop circle credibility, there's no point going crazy and getting into heavy conspiracy theories. All you can do is what myself and my colleagues do already, which is to try to spread the word of what is actually going on. To share the research which says "here is the evidence to suggest that these human circle-makers here cannot be responsible for the whole phenomenon". That's all you can do to combat conspiracies - to speak your truth where you can, as clearly as you can. That's what I do.

SM: I keep smiling wryly to myself as I listen to you because the parallels between what you're saying about crop circles and the UFO phenomenon are just absolutely enormous. The difference being of course is that you have a much bigger advantage - you have got firm evidence i.e. the crop circle in the field, whereas we've not been able to produce a flying saucer or an alien. If there is any covert interest in the phenomenon, would that be because you think they've no idea what's happening or maybe they do, but if they've no idea, then is it just to cover their embarrassment?

AT: I really wouldn't want to second guess what the motivations of any authority would be in wanting to keep the real crop circles secret, as it were. We have had contacts who have told us that the MOD carried out tests even in the late 1980s on crop circles and knew for a fact back then that they were not man-made. Now, I can't prove that, but we've been told this by apparently reliable sources. I think it is just as likely that any authority that is trying to debunk doesn't actually know what the hell is going on, but certainly doesn't want anybody else to find out before it.

I think if authorities did really know what was going on, their behaviour would be slightly different. I think maybe with the UFO phenomenon it might be different, but the feeling that I get with crop circles is that the military seem just as bamboozled as we are, but, because it is an unknown quantity, they would prefer other people to stay away from it because it's an area they don't understand. They wouldn't want somebody else blabbing about it too wildly if it turned out to be something detrimental to them and their well-being.

It's an utter unknown what the exact motivation of an official debunking campaign would be. There is the other claim which is that it's a religious motivation. There were claims in the early 1990s that one of the big crop circle debunkers at the time belonged to the shadowy Catholic organisation Opus Dei. Now, again I don't know whether that's true or not, but a lot of people claimed that he had implied that there was a religious reason to debunk the circles. This would make sense, especially if any religion saw crop circles as potentially evil, an influence of a satanic nature.

If there's any validity to that, you could indeed say that another motive to debunk the crop circles would be because there is a fear that it could be something that threatens the Divine. There are a lot of religious organisations out there that have a lot of clout and if they don't know what the circles are but fear they might be something which in some way circumvents their own agendas, then maybe there's another reason why they might want to try to put people off them. This is total speculation, but it's another possibility.

SM: Why the UK?

AT: I think there is a geological reason as to why crop circles cluster in certain areas. Within the UK itself, I think there is no question, from the work done by people like Steve Page and Glenn Broughton, that crop circles are appearing near strong underground water sources. They clearly follow what are known as the 'aquifers' which are these regions where rock carries a lot of water. You map out on top of these geological maps where the crop circles have appeared and they hug the areas of underground water almost exclusively.

Now there are plenty of other counties outside of these areas, full of crop fields, that don't seem to get many crop circles. So I think you've got to say there's a geological reason, partly, for their distribution. That suggests that either there's a natural force at the heart of it, or at least an intelligence, which many people believe is involved, that utilises the earth's natural energy field to create these.

Therefore, on a more global level, if that happens to be the case, maybe it just happens to be that the UK is more conducive to creating these crop circles using natural energy sources than any other place. Everything seems to have a heart. It could have been Portugal! But it so happens that it was England. That's one possibility.

Otherwise you've got to get into the realms of saying, "Well, you know, it's a message from a higher intelligence and maybe it thinks we in England are best placed to spread this word to the world." But then you're getting into all kinds of cultural elitism theories and that I don't know. I wouldn't want to speculate about that. My gut feeling is it's something to do with geophysical reasons, and the UK just happens to be a hotspot on a planetary energy level which is particularly conducive to them.

SM: You mentioned, as many do, natural forces but, the difficulty I have with that is the likelihood.....

AT: You perhaps misunderstand me here. What I am saying is that though natural forces may well be an aspect of this, many people believe an intelligence is also involved.

SM: Yes, well indeed, and that's probably the most commonly held belief, but on the natural forces element, the trouble I have with that is the consistency of spectacular patterns. Beautiful patterns that strike a chord in the human brain. Now that doesn't strike me as likely coming from a natural source.

AT: Well, a lot of researchers point towards the science of cymatics, where you vibrate sound waves through sand particles or water, and it is true to say you can get extraordinarily complex geometric shapes to appear from that process. Many of them do seem very similar to some of the crop circles we have had.

Now, does that explain them all? No, clearly not, because some of the formations, for instance, have been very accurate star maps. We've had very accurate astronomical diagrams giving dates and times using stars and planetary positions. Now that clearly is not just sound waves at work. There's obviously some level of mind there, and yet they appear to be made in identical ways to other crop formations

The nearest I can come to giving you my running theory is that my instinct is that there is a natural phenomenon that can create simple patterns of its own accord. It's probably always been around. There's certainly evidence of simple circles going back centuries. There are photographs of what seem to be crop circles from as early as 1932, and they're all simple.

Now, you can therefore argue that either a natural force for some reason has been nudged to become more complex due to rising planetary energies or whatever, or

some other intelligence impetus has learned to harness that natural process of laying down circles so that more complexity can be created to its own will, using a natural mechanistic process that was already there. That is something that simply cannot be ruled out.

SM: So you seem to be blending both sides together.

AT: I think you have to. Any person with a theory who doesn't take in all sides of the evidence is not going to get that far with the theory, and what we've had too much of in the past is people taking a very definite stand and saying, "It's this or it's that" - and then they stop taking into account any evidence that doesn't fit in with their theory. And then the theory runs into a wall.

My gut instinct is that the ultimate answer to this is going to be an amalgamation of all the different theories, and you cannot ignore, for instance, that crop circles appear near underground water. Now that suggests that there is a geophysical reason as to why they've been placed in certain areas. So you cannot rule out that natural forces might be involved, whatever else may be working with it. You've got to look at the early circles. We've got records seemingly going back as far as back as 1678, which is the earliest drawing of what might well have been a crop circle. Even if that's not real and it was something else, there are clearly other records from the past few centuries.

If those early simple circles of many years past were an intelligent force at work, then why? What was the point of them back then? Would it really spend so long to build this up? My feeling is no, probably not, so you have to conclude there is another basic force that can make little circles. But sceptics inevitably say that all that's happened is that people have copied the natural force and started to manually make any old shape in the field. But that doesn't make sense, because you can look back at the evolution of the designs from the 1970s and see clear - and it's often in the geometry rather than the symbolism - evolution of some of these formations from the simplest to the most complex, and there is an absolute connection between them. One lot didn't suddenly appear without any precursor in the simpler patterns.

To those who say all the simple ones are real and all of the complex ones are hoaxes, that doesn't make sense either, because there are no longer the same amount of simple patterns which are appearing. If it were the case that the simple ones were real and the complex ones were hoaxed, we should still have the same amount of simple circles appearing today as we did in the 1980s, and we don't.

Some researchers who have made this claim have basically tried to say there are as many simple circles now, but they just don't get reported anymore. That's absolutely not true. I know that's not true, because I'm involved with ground research and we look after the whole of East and West Sussex in the UK, and we report every formation that appears there. Researchers in other counties do the same, reporting both simple circles and complex ones, and there's no question the complex formations now by far outnumber the simple formations, which have diminished. So that suggests an ongoing phenomenon which has developed and therefore carries the same thread.

That's why I come back to the idea that something may well have learned to harness what was always an established natural process, but is now taking it on in its own direction. But again, that's nothing more than a theory.

SM: The inference from that is that an intelligence not from this Earth, has a better understanding of what is going on, on this Earth than we do.

AT: No disrespect here, but your immediate assumption is about the intelligence not being from this earth - I'm not sure that's necessarily true. I've been involved over the

years in a number of experiments using psychics, and there have been a number of very well documented experiments where people have influenced the creation of crop circles with the power of their own minds. We did work like this here in Sussex in the mid 1990s and this culminated in an experiment where we chose a shape. We sat in a certain place and focussed our thoughts at a certain time, visualising a crop circle appearing, and lo and behold, a crop circle of exactly that shape appeared on that very night.

Now you could say that's coincidence, but then you look at all the other people that have done it; The CSETI group in 1992 managed to get their logo to appear. As far as we know, there was no dubiousness involved with this. A Christian prayer group in 1994 at Martock in Somerset prayed for a crucifix formation. Hey presto, a cross-like appeared that night, the first formation they had ever had in that area. The East Midlands crop circle group did a number of experiments with, for want of a better term, focussing the mind, and got an extraordinary formation which appeared in conjunction with this. So I think there is a level of psychic interaction here that cannot be ruled out of the picture.

So it could even be that the intelligence behind the crop circles is in fact our own mass consciousness. We always assume the intelligent intervention is being imposed from the outside by an alien or extraterrestrial influence. Now I can't and don't rule that out, but it's just as likely that the source behind crop circles might be something more to do with a super-consciousness that involves our minds as well.

This is where it begins to get very complex and this is also where it begins to get very hard to define what the source of the crop circles is, because there are so many possibilities and there is so much evidence to be taken into account.

SM: It's interesting that you should make that point towards the end, because my next question was going to be to ask you how you would account for the increase in the frequency of crop circles since the 70s and 80s, and I suppose one answer to that question might be that it ties into a cultural level of awareness within the public as a result of the usual media stuff that sceptics throw at us about the *X Files* and Steven Spielberg films and so on and so forth. How would you answer that question?

AT: Well I think you've sort of framed that yourself there really, in as much as if you take the mind connection thing, I think there is a development in consciousness that is currently going on that is very different from anything that's gone before. It may be that it is not occurring yet at anywhere near the level one would hope for, but nonetheless, there is a growth in awareness which, if one is saying there is a psychic link, could therefore trigger more complexity to appear.

You've also got the geophysical factor, the natural energies, to consider, as maybe part of some interaction with an intelligence impetus, whether it's our intelligence or extraterrestrial intelligence or whatever. At the moment the magnetospheres of nearly all the planets in our solar system are reportedly changing. The Earth's energy fields are changing too; it seems to be something to do with the behaviour of the sun and a region of space we are moving into. Now could it be that what we're seeing here is the manifestation of our minds developing, the planetary energy fields developing and changing, and manifesting as shapes in the field which of course will grow in complexity as the energy fields also grow and we grow in conjunction with it?

There's many ways you can argue that round and there's many plausible running theories that you can build around that.

SM: Going back to what you were saying before about the viability of natural forces producing patterns by coincidence that are attractive to the human brain, how do you

answer the point that a lot of the patterns are very significant in very subtle ways in terms of what they show, like the star systems or Tesla stuff; in other words the patterns have some meaning to us as opposed to being just beautiful to look at?

AT: I think that's where you then have to say some of them at the very least are being influenced by some collective thought process on our part. Or, something from the outside is deliberately using this process to target certain information at us. In that regard, I do always hold up the astronomical formations as being some of the most important we've ever had.

Now the astronomical patterns are clearly not a random force, but whether it's our consciousness at work or an extraterrestrial consciousness at work is of course the big question nobody can seriously answer. But there have been levels of incredible accuracy and knowledge displayed in the fields. Interestingly, with what I was saying about the change in the planetary energy fields and the sun, in 1994 we had three so called 'galaxy' formations and you could tell from the stars and planetary positions they were clearly depicting that the date they were showing us was the 6<sup>th</sup>/7<sup>th</sup> April 2000. One of the formations showed it so accurately you could tell the time - it was showing midnight GMT on the cusp of the 6<sup>th</sup> and 7<sup>th</sup> of April. It showed you Mars, Saturn and Jupiter in a triangular configuration against the constellation Cetus, and there was the moon in a very specific phase shown in the diagram.

Well, when that night finally arrived six years later, and there was that alignment up in the sky, call it coincidence if you wish, but we had one of the biggest solar storms that we'd had in many years. As I understand it, power grids went down, satellites were affected, and the northern lights - the aurora - were seen as far south as North Carolina and indeed in England, where I was lucky enough to witness the effect over Alton Barnes, Wiltshire, where many crop circles have appeared.

Now when you then look at the other crop formations which have shown what clearly seems to be solar symbolism - the sun - and also things like radioactive fields, magnetic fields and genetics, could it be that something is trying to give us a message very specifically there, because all of these types of symbols have been seen as crop circles as well as the other ones which could be just generic geometrical shapes. So there could be a theme here - an intelligent force trying to attract our attention to the changing energy fields of the planet and the possible effects on our genetic evolution?

This is where it gets so difficult to say what you think is going on. "What makes crop circles?" is always the first question you get asked when you're interviewed for the telly and so on. Well, it's just impossible to give a straight answer to that, because there's all this stuff to be talked about, and there isn't usually the time to do that.

On the other hand, a man with a plank is a very nice, simple concept that people grasp very easily and, boy, they get their point across quickly. Meanwhile, we mumble away about all these different things because of course, we can't possibly pack it all into a 30 second sound bite. With a plank, the hoaxer has made his point in 5 seconds. So that's what we're always up against.

SM: Have you detected a sense of what might be trying to be said to us, so to speak, in the circles, where there appears to be some significant meaning of some sort?

AT: Like I've just said there, some formations do seem to have very specific significance. Others are totally ambiguous. You have to say that *if* there is an intelligent impetus behind it that's not just our mass consciousness randomly providing us with feedback in the field, I'm sure they could speak to us a lot more coherently than they currently do if they really wanted to.

And in that hypothesis, my feeling is that the information the formations contain, be it mathematical, geometrical or symbolic, is almost a kind of a mish-mash being thrown at us, as much as anything perhaps simply to raise questions. They don't really give us answers, they give us questions, and maybe that's all they're meant to do. It's almost like something nudging us, Humankind, in the ribs, to say, "Hey guys, evolve, use your brains."

I think that many people who have been involved with crop circles would say, if you talked to them, that it's the journey of the mind through the questioning that the crop circles have inspired that's been the important thing. So many people have been inspired by these shapes through their unknown quality - that's the very thing that has sent people on to try to explore their own beliefs. There's been nothing like the crop circles for providing a forum of debate about the whole nature of reality. There are very few things that do that and, okay, these things are often ridiculed in the press, but hey, they're in the press! A symbol carries a lot of power and says a lot more than words can in a very short statement. When these things are presented in the media, even if they're being made a joke of, there's still something that's very powerful, and the next thing you discover is that everyone is discussing the meaning of life because of it.

That's the whole thing with crop circles. They just seem to have that effect. They seem to send people on to a level of thinking they don't normally go to.

SM: Well, if I was to extrapolate what you said there, I would sum it up by saying there is a general attempt to raise the spiritual level of the general population of the world. What would be the purpose of that? To prepare us? To prepare us for what?

AT: Many people feel that the crop circles are a herald for some kind of change around the corner. But then many people who have no knowledge of crop circles whatsoever also have a feeling that there's some big change around the corner, be they religious or whatever. There are even alleged UFO abductees who claim they've been told there's a huge shift around the corner. You've got the whole 2012 phenomenon, with ancient prophecies clearly pointing to a time cycle which seems to culminate in its latest guise in the year 2012, with predictions of global changes. Now what's that all about? Could the crop circles be some herald of that? It's possible they could be. Whether they're a warning or just some feedback loop that naturally comes with this raising of the energy fields or whatever... ultimately, it's an unknown.

But yes, I think many people would say they feel the circles are here *now* not by chance, but what exactly it is they're heralding, a big spiritual transformation for the world, raising of the energy fields, or something more apocalyptic, I just don't know. Nobody knows.

But I don't think it's an accident that they have proliferated now, in more recent times, and I actually think that whatever you think makes them, whether its natural forces, extraterrestrials or hoaxers, it's fairly irrelevant now because it's all had the same affect. The shapes have stimulated people to consider these subjects, wherever they have really come from, and maybe that's the most important thing of all.

SM: How does the geophysical side of it tie in with the seasonal element of crop circle appearances?

AT: Well, I'm not a scientist nor a dowser, but I am told by those who are better informed than I that the natural energy fields are profoundly affected by sunlight. When there's more sunlight available, inevitably in the summer, there is more energy available, hence bigger patterns. This is something that's been put to me and it makes a logical sense.

We do occasionally get winter formations, but they are rare and it certainly seems that the majority of the formations appear in the peak of July and August. That's just for the UK and it changes around the world depending on what the season is. But it could well be, yes, that more prolonged sunlight and light in general does affect the natural energy fields.

SM: What makes you angry within the crop circle subject? You seem to be fairly rational about hoaxers. Is it poor research?

AT: Poor research that masquerades itself as big announcements does make me angry. I think crop circle research has been done a lot of damage by people who have made very big announcements about massive theories or whatever, as if they are proven, when they aren't, contacting the media and appearing to speak for the research community as a whole, when they don't. Likewise, people who have made statements that it is fact that 80% of circles are man-made, when it is nothing of the sort, are very harmful. I think that does more damage than anything else, because when people do stop to look at the evidence and they realise that these large claims are not substantiated, what it has the effect of doing is to make people think, "Well, presumably nothing these people say can be substantiated then".

I think the onus is on us that if we go in to try to present a phenomenon which we believe is genuine, that we must be as accurate as we can in what we report and have as much integrity as possible in not over-generalising and in not over-sensationalising it. But there are some people that know they can get newspaper headlines, know they can get on the telly or whatever if they make their pronouncements very big and grand and imply that they know the answer to everything that's going on. Well, nobody knows the answer. If they really did, they'd be raking it in and be genuinely super-famous, not just for five minutes. That makes me angry.

SM: I think this is a ridiculous question but I'm going to ask it anyway. What do you see in the future in terms of crop circles, or perhaps I should say, what are your hopes for the future?

AT: Well, if they are a herald for some kind of change - let's take that as a running theory for a moment - then it stands to reason that we'll still be getting crop circles in the run up to whatever this change is. When we get to the core of it, then presumably they won't appear so much because there will be no need for them to. Maybe then it will just die back down to a few simple circles again.

My feeling, however, is that given especially that there has been a rise and a much steeper curve in terms of complexity and numbers over the last 20 or 30 years, well it stands to reason that it will fall again, because most things go in cycles and I do not make the assumption that we'll have this phenomenon with us forever to the same degree that we've got it now. I think, as times change, we will see a reduction in the numbers of crop circle and maybe they'll eventually recede down to background level again.

Whether we'll be any the wiser as to what actually made them... well, I think it's highly likely we won't be any the wiser. If the world survives 2012 or whatever it may be, if there is anything to that, we might be looking back in a hundred years time and there will be this quaint little mystery of the late twentieth/early twenty first century and people will be going, "What was that about anyway?", and nobody will know. But the important thing will be the data that was collected while the circles were here - that will be all future historians will have to go on. And I think there is a big responsibility on those who are here and now, while the crop circles are appearing, to record them as accurately as possible and not infect the data with opinion, so that it will be available in years to come, should anybody try to put a wider perspective on it in the future.

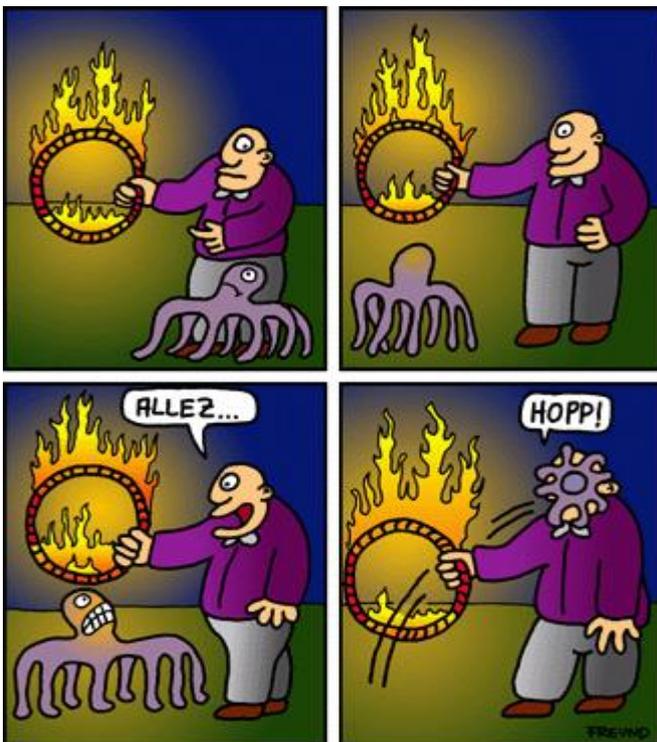
SM: Andy, thank you.

For crop circle news etc. visit Andy's site at:

<http://www.swirlednews.com>

To purchase the most sensible books on the subject, click the URL below.

<http://www.vitalsignspublishing.co.uk>



**Sandpaper Files # 22 2005**

Heavens Investigations

George A. Sandpaper, Director of MUFF diving, North Western

June 6<sup>th</sup> 2005

Webmaster: C.E. Bunnyhome

**Artefacts on Mars**

By golly there's lots. In the Cydonia region there is now evidence from an ESA fly past of an ancient Costcos, an abandoned space ship, three discarded tyres, a wheel brace, a KFC bucket, a partridge *and* a pear tree. How do those European chappies do it? And all these prints were taken with a Kodak disposable while standing on the top of Blackpool Tower!!



In the picture above, one can also clearly see an immense city, long ago abandoned, (just visible behind the rock on the upper left. No, dummy, not that one, *that* one). Can I just say btw that if you're thinking of moving, my wife can locate you in a very nice condo just 30 minutes from the site above and only 5 minutes from the beach). Just look at that rock at the very bottom of the picture. It's moved since you started looking at this picture you know. Something's picked it up and shoved it a few feet the other way. Which way? Why, closer to that immense Martian neon sign advertising Coca Cola (Tsk! Trust us yanks eh?). And yet despite all this fabulous evidence, we still aren't taken seriously by anyone at all actually. But the Martian conspiracy can only go on for so long, a bit like me as it happens, and then it will all be exposed, again a bit like me, and the government will be revealed for the bumbling incompetents that they really are. Err also a bit like me. Did I just say that? No, I wrote it didn't I? That means I can scrub it out and no one will ever know I wrote it.

**Airplane sighted over New York**

T. Wanker who lives in Yonkers wrote; "I live in Yonkers (we know that cretin. Get on with it) and it was on July 10<sup>th</sup> 2005 late in the afternoon when I happened to look up and saw this huge airplane flying very slowly over the city. I can remember the date because it was the same day I was released from the Yonkers Home for the Frightfully Worried and I was enjoying my first taste of freedom in 19 years. That incident with

that young lady by the way was all made up by the police because they were trying to frame me for something I hadn't done because I once told a cop that his tunic button was undone. Anyways, no one else saw this plane but I watched it and saw it land in front of everybody at the airport. Then, a door opened and I counted as 256 aliens came down the steps on to the ground. To me, that's an invasion. It's started. By the time you read this they will be in control."

### **UFO Kills dog**

Haille Demented from the UK writes;

"A UFO killed my dog." Err that's it.

### **The Guinness Affect**

Yet more reports reach us of strange happenings in and around bars that sell beer. People inexplicably appear to fall over or get into fights and kill each other. These paranormal events always occur near bars that have a Guinness sign hanging up outside.

### **Flying Triangle seen over New Jersey**

R. E Tard writes; I live in New Jersey (we know that moron, get on with it) and one day some time ago, I looked up into the sky as I was cleaning my shoe laces and saw a huge delta shaped triangle. It was flying and everything. But my pal, Dewey, says no one will believe us 'cos New Jersey is a swamp and all who live in it have certain problems to do with speech and education and other stuff. That sounds to me like the world thinks Jersey is full of idiots and simple folk. Anyway, I can prove that I saw this thing 'cos I took a photo of it and when it came out, I had it blown up. Then the police came 'cos someone complained about the noise from the explosion. So I then had the photo enlarged and when I did that, I could clearly see some writing on the wing of the craft. It said, USAIRFO RCE and then "Secret plane. Please don't take photos". So that proves it was a UFO 'cos if you look at the first caption, there's a U and an F and O in there so that makes it a UFO 'cos it says so on the wing. Mind you, there's also an S and an A and an I and an R and a C and an E as well but they don't fit so we'll ignore them.

### **Women attack Men**

Strange tales are reaching us from a hamlet in Montana called Cousinville of the women folk of the village apparently being overcome by some strange and mystical influence that seems to excite them into attacking the men there. What is really bizarre is that this phenomenon appears to occur at the same time on the same day each week. It took the men in Cousinville four weeks to notice the pattern 'cos they ain't that bright and they then started to take evasive measures. This involved them all grouping together in one building and locking themselves in. The women gathered outside circling the building, trying to get in and many were seen to be foaming at the mouth while others were seen to be drinking copious amounts of water from the horse trough in the village.

A doctor writes; The symptoms described strike me as rabid and it may be that the women have come down with a variant of the disease. But if it was rabies, they should be bonkers all the time and yet this seems to happen on just one day of the week and at the same time.

A spokesman for ABC television said, "We show the programme "Desperate Housewives" in the Montana area at 10:00pm on a Wednesday evening and are well aware of the type of reaction the programme can produce. I wouldn't worry. The season ends in three weeks."

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**A Hubble pix – but it sure is pretty**



## Phoenix Lights documentary

This documentary has been put together by Dr. Lynne Kitei who took the most prominent film footage of the lights and who also wrote the book of the same name, as well as being one of the first people we interviewed when UFO Review started.

It is one thing reading about what happened and perhaps seeing some video footage but it's quite another to see and hear people who witnessed the event talking about it, and I found the overall effect of the DVD very powerful.

It naturally starts at the very beginning, before the mass sighting of March 13<sup>th</sup> 1997, with Lynne's own first sighting in 1995 and progresses chronologically forward. I still can't watch the Governor's news conference where he drags out this man dressed as an alien without getting intensely angry. In fact Phoenix City council's behaviour was so strange that you can only really come to one of two conclusions; that they were in the know about what happened or, that Phoenix had the biggest bunch of retarded numbskulls ever amassed together running its civic affairs. Their depth of stupidity is unbelievable.

And on that point of stupidity, if there is anyone left, after watching this, who still thinks that the lights were flares, then perhaps they not only ought to exit the subject of Ufology but they might consider exiting life as well, because I for one am utterly tired of folk who will come up with absolutely any excuse to defend their chronic reality. I'm tired of frightened people.

The route the lights took demonstrated it was a parade which only begs the obvious question of why? The natural assumption that most people have made is that what was seen was an extraterrestrial craft of some sort, an idea that I certainly concur with, but I am also reminded of Jim Keith's suggestion that it may have been the Illuminati just showing off. It's an extreme position and depends firstly whether you believe there is an unelected elite that affectively controls the world and then secondly, whether you believe they are malevolent towards the rest of us or just a bunch super egotistical assholes with piles of money who want to socially engineer the way we lead our lives etc. etc..

If the craft was of terrestrial origin then again, you have to ask yourself, why expose it like that? I acknowledge that I recognise there may well be reasons for this that I just can't imagine or work out and can only speculate. I won't bother with that speculation here.

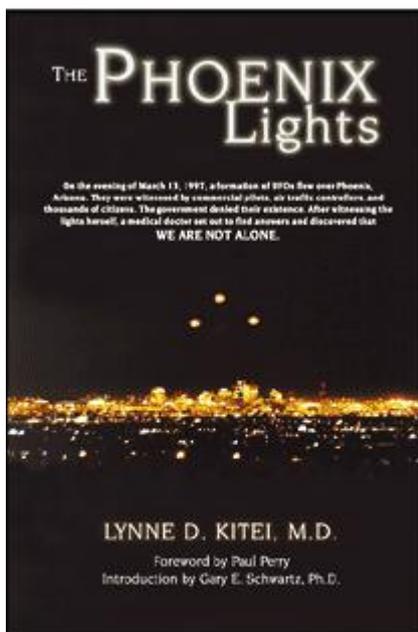
Alternatively, if it was of extraterrestrial origin, then again why? Most people assume it was a "Hello, we're here and we've come to save you" message aimed at the world population. It could have been, or a variation of that. Or it could have been aimed at governments for some reason. And there you go. Its always guess work.

I am not someone who has ever particularly followed the Space Brothers theory about ET, I guess as much out of embarrassment as anything else, but there was something about this episode that reached out and touched people in a deeply spiritual way. As much, it was the serene and silent and completely unmennacing manner in which the craft glided through the night sky. It seemed to reach into those areas of the Human soul that touched a very raw but very welcoming nerve. The will to believe? Maybe. So be it.

Unquestionably, the Phoenix Lights is one of the most important cases within Ufology ever and this documentary does it justice. Very well made and produced by Dr. Lynne, if you can afford it, you should get it.

Details can be found at the URL below.

<http://www.thephoenixlights.net/dvdform.php>



# The Strange Case of the Fallen Fragments

By: Nick Redfern



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<http://spiritquestezine.com/054/alienufo.htm>

What is without doubt one of the strangest (but, notably, documented) alleged crashed UFO incidents occurred in the New Mexico desert in early 1952. The case is a puzzling one in the sense that there are but two possibilities: the first being that the event occurred precisely as the witness claimed, or that it was merely the product of a deluded mind. Interestingly, official records chronicle the event in its entirety but leave open to interpretation the truth of the affair.

In a 13 November 1952 document titled *Unconventional Flying Objects Sighted; And Portions Recovered By [First Name Deleted] McLean, Friona Texas*, and prepared by the Air Force Office of Special Investigations at Tinker Air Force Base, Oklahoma City, Oklahoma, and marked for the attention of the Director of Investigations at Washington, D.C., the following was disclosed:

1. SYNOPSIS: *Special Agent in Charge, Dallas, Texas, Texas Field Division, FBI, advised this district that [First Name Deleted] McLean of Friona, Texas, had reported seeing flying saucers at an unnamed point in New Mexico; had recovered three fragments which landed close to him; and had notified the Pentagon but hearing nothing had sold a portion of one object to a Russian scientist from the USSR Embassy.*

2.

3. DETAILS:

a. *FBI received information to the effect that McLean had written a letter to an unnamed friend in Amarillo, Texas, and it read in part as follows:*

b. *"but [sic] to get back to flying saucers that are real, recently I was camped on a mountain in New Mexico and saw a dim light at first circling around up high. It circled in a mile across circle but kept descending. First the light was white but as it got lower it turned green and exploded showering light objects in all directions. Several*

*of those fiery objects landed close to me, most of them were buried in the ground, but I gathered up three that were only partly buried and brought them home with me.*

c. *"I notified the Pentagon in Washington what I had saw fall. I heard nothing from them but a Russian scientist from the U.S.S.R. Embassy did come and buy one half of one of those objects. It was so hard we had to use a sledge hammer to break into. In the centre was a round hole or vacuum filled with fine powder. This scientist scraped every bit of the dust up and put it in a bottle. He claims the object was uranium and other unknown minerals."*

The document continues:

*"Mr. And Mrs. McLean, Friona, Texas, were interviewed and Mr. McLean advised that he was a retired farmer. He stated that he had always been interested in meteors ever since he took a correspondence course concerning meteors some 50 years ago.*

*"McLean stated that in the spring of 1952 he was travelling in the eastern part of San Miguel County, New Mexico, with his wife, when he found a large deposit of a metal unknown to him. He stated that he picked up a piece of this metal and brought it back to Friona, Texas, with him. Mrs. McLean verified this statement inasmuch as she stated that she was with him at the time he picked up the metal.*

*"McLean was questioned concerning his statement in the above letter that he saw the material fall but stated that he did not remember writing any such information in the letter and emphatically stated that he did not see the material fall to earth.*

*"McLean stated that after he found this material and returned to Friona, Texas, he wrote letters to Senator LYNDON B. JOHNSON of Texas and Senator CLINTON ANDERSON of New Mexico concerning the material. He stated that both senators replied requesting that he ship samples of this material to a Government Laboratory in Tucson, Arizona. McLean stated that he sent samples of this material to the Government Laboratory in Tucson, Arizona, and stated that they replied advising him that the material was part of a meteor. McLean was asked if he were still in possession of all this correspondence but stated that he had destroyed it all.*

*"McLean advised that shortly after he wrote to the two senators about this material he was visited by an unknown individual who, according to McLean, displayed the credentials of the Soviet Embassy. McLean was asked to describe the credentials of this person and stated that they were very similar to the credentials of the writer but that the writing was in Russian. McLean was then asked if he could*

*read the writer's credentials, and he stated that he could not read very well but he felt sure that they were in English. McLean could not place the time of this visit and could furnish no other information concerning this alleged individual with the exception of the fact that he stated that he thought this individual came from the Russian Consulate in Amarillo, Texas.*

*"McLean stated he was no longer in possession of any of the unknown material inasmuch as he had recently given the remainder of the material to his wife's nephew, Mr. [Deleted] of Lawrenceville, Illinois.*

*"It was also pointed out that in the letter set out above McLean advised that he sold half of the material to the representative of the Russian Embassy. At the time of the interview he emphatically denied selling any of the material to the representative of the Russian Embassy and stated that he could not remember having made such a statement in the letter to the individual in Amarillo, Texas.*

*"Deputy Sheriff C.M. JONES, Friona, advised that he had known the subject for many years and advised that the subject is an elderly man approximately 71 years of age. JONES advised that the subject has nothing whatsoever to do and is somewhat of a dreamer. JONES explained that McLean dreams of various things and then thinks about them to the extent that he actually believes what he dreamed. JONES stated that the subject will then come to the downtown section of the little town of Friona and attempt to convince people that his dreams are actually the truth. JONES stated that the people of Friona, Texas, very seldom believe or put any faith in any matters discussed by the subject due to his mental condition.*

*"JONES stated that the subject is entirely loyal to the United States but has merely reached that age in life where his mind has begun to deteriorate."*

An examination of the relevant documentation and the case at issue would suggest at first glance that the entire controversy was purely the creation of an elderly, confused and fading mind. And perhaps it was. It should not be forgotten, however, that the discovery of the "large deposit" of a "metal unknown" at San Miguel County, New Mexico, was confirmed to the Air Force by McLean's wife - who was apparently of sound mind. Therefore, that *something* was indeed recovered by McLean does seem likely.

In addition, the reference to the alleged and slightly mysterious "Russian scientist from the USSR Embassy" that purportedly visited McLean and subsequently departed with some of the recovered material is intriguing, too. Indeed, it even has somewhat of a *Man-in-Black* air to it.

More than half a century on and with the key player in this case long departed, this event remains intriguingly unresolved. A detailed investigation and re-evaluation of the affair might provide surprising and notable results, perhaps.

**Sources:**

*Unconventional Flying Objects Sighted; And Portions Recovered By [First Name Deleted] McLean, Friona Texas, Air Force Office of Special Investigations at Tinker Air Force Base, Oklahoma City, Oklahoma, for the attention of the Director of Investigations at Washington, D.C., 13 November 1952.*

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**UK OVERUN BY BIG CAT SIGHTINGS!**

Great Britain now pussy capital of the world



**Come and watch George  
See how it's done.**

**I see Alf has got dinner sorted**



**Can I have the wishbone?**



**Can't make my mind up  
about which sauce to serve  
you with. Any suggestions?**



## Ed Gehrman Interview



Ed Gehrman, along with Dave Vetterick and Neil Morris, has been profoundly interested in the validity of the alien autopsy footage since it was released in 1995.

Part of the background information that the camera man who took the footage gave were directions and a map of the crash site where the UFO that the aliens depicted in the footage film were travelling in allegedly crashed. Ed has managed to trace what he believes is that crash site and has put this idea forward to the Ufological community. He has been met by a wall of resistance that only now is beginning to crack, just a little. Why? Well, the crash site and the autopsy footage are intertwined. And most people have very firm opinions about that footage and the majority believe that it's all a fake, a money making scheme dreamed up by the promoter of the film, Ray Santilli. The debates about this subject have been long and bitter. If this is all new to you or you just want to refresh your memory a bit about the whole shebang, then this web site –

<http://www.parascope.com/nb/abraindx.htm> is as good as any for an overall review. Or here for a more critical assessment

[http://www.outtahear.com/beyond\\_updates/autopsy.html](http://www.outtahear.com/beyond_updates/autopsy.html)

For a further overall summary, this is Ed, Neil and Dave's site.

<http://www.v-j-enterprises.com/jroswell.html>

Info also at <http://www.thewhyfiles.net/gehrman.htm>

Ed has been a columnist for the Sonoma County Free Press and this link contains a sample of his work.

<http://www.sonomacountyfreepress.com/reaction/reactindx.html>

There is another reference to Ed's site, with a different URL at the end of the interview.

Ed Gehrman is a retired teacher, social activist, and investigative environmental reporter. He's married and has two daughters and two grandchildren.

This interview was recorded on the 29<sup>th</sup> April 2005

SM: You've been incredibly persistent with this since you got your teeth into it, in the face of some really stiff criticism and certainly I would say an element of cynical doubt on the part of many people. There is one aspect of it I would like to clear up first of all

before we proceed and it's this; the crash site you refer to, is this meant to be the Roswell crash site or an alternative crash site, or a secondary site?

EG: No, it's not the same crash site. It happened a month and I think three days earlier than the Roswell crash. This occurred on May 31<sup>st</sup> 1947 and I think the Roswell crash occurred July 2<sup>nd</sup>. 1947.

SM: So as far as you're concerned, this is an entirely separate event.

EG: Yes, it's an entirely separate event but the film footage may be from the autopsy from the Roswell crash. I think the camera man might be confused about what he was filming. The Roswell creatures and the creatures from this crash, I think, are essentially the same creatures. The camera man may have thought that he was filming the creatures from the May 31<sup>st</sup> crash when in actuality he may have been filming the Roswell creatures. I think it's something to think about.

He said he filmed the second one on the 3rd of July 1947 and I think the recovery happened on the 3rd and they could have had the creatures by the then. I don't know whether the camera man really knew which creature he was filming. I think he may have assumed he was filming the creature he saw at his crash but she may have really come from the Roswell crash.

SM: What makes you think that?

ED: Several things. When you watched the dissection, the creatures seem really fresh. The blood runs quite readily and there doesn't seem to be a lot of rigor mortis that has set in. I think he was just told to film. I don't think he was given any details. He wasn't on the "in" and wasn't part of any decision making.

I have another witness who contacted me about three years ago. He was an MP at Roswell. He's a witness I have checked out and I think he's legitimate, I know his name, rank, when he got out of the service. I don't know whether he is still alive because he cut off communications with me about two years ago but he said that the creatures at the Roswell crash site were exactly the same as he saw in the alien autopsy film. That's the reason he contacted me because he was watching TV and all of a sudden saw the autopsy film and it really shook him up because it was exactly the same creatures that he saw at the recovery at Roswell.



He waited several months before he contacted me. He waded through the web to see who was researching it and he got on UFO Updates. I was in a particularly heavy argument with one of the members of Updates and he wrote me privately and said, you have to stay on this because you're absolutely right, these are the creatures. We developed a relationship over several months and then he himself went on Updates and told his story. It's called The MPs story and he was given such a terrible reception there that he said, "Fuck it" and quit his involvement. But before that, he did give me his name and his name checked out. He was an MP at the base at the time.

SM: The camera man made a very interesting observation about when he turned up to photograph the crash site that you're interested in, he said that the recovery team seemed to be going through a procedure that they had done before. Now, if your crash occurred, now hold on.....

EG: The MP said that it happened on the 2<sup>nd</sup>. (Roswell), he was notified on the evening of the 3<sup>rd</sup>. He went out to the crash site and guarded it while they recovered the vehicle and all of the debris. That was the night of the 3<sup>rd</sup> and by the morning of the 4<sup>th</sup> of July, they had it all cleaned up. Then Brazel came in on the 5<sup>th</sup> or the 6<sup>th</sup> and that really messed things up because that indicated there was another crash site and what I think is that the vehicle exploded in the air and the main part landed north east of Corona and the debris that Mac Brazel found was the debris from the dome that blew off from the original craft. In other words, there was one craft that exploded and was recovered, but there were two actual crash sites.

SM: But the implication of the camera man's remarks was that there had been previous crashes?

ED: It was something said in relation to Roswell, that the clean up procedure looked as if it had been done before.

SM: Do you have an opinion as to why two unidentified flying objects may have crashed so closely together?



EG: No, I don't know why. It seems so strange to me.

SM: Do you go for this radar testing theory?

EG: I don't know enough about the technicalities of radar to comment about that. If you've read what I've written about this, you will know that I don't think these are star ships of extraterrestrial origin. If you take the alien autopsy footage as being genuine, especially the

debris, you see an advanced state of technology but not something that we can't envisage. It's not something that's out of this world. It just doesn't seem to be good enough or strong enough to have come from a star ship or even an explorer ship coming from a mother ship. It's not put together like that.

SM: You don't think it's a scout ship?

EG: No, I don't. I think these are creatures that are evolved mammals, a monotreme. They were the first mammals. They are an advanced civilisation that has lived here for billions of years and the extraterrestrial hypothesis is a red herring fostered by the government to throw us all way off track.

SM: So you're convinced they are of terrestrial origin.

EG: Yes. I think they live here on earth and maybe on Mars and the moon. They probably have stations out there. I think they can probably travel out into the solar system; they just can't travel to another star.

SM: The obvious question that somebody would ask when they hear you say that is, where do they live on this planet?

EG: The monotremes, if you look at their evolutionary path - around Antarctica is where they would have evolved and so I think they live around there or under the ice there. I think they live under ground, which is why they have eye shades when they come into the world. They're like sunglasses. By taking the autopsy film seriously, we can look at ways of working it out but just by treating it as a hoax, then there's no way to look at it and say, "Well, we can look at this part of the anatomy and that means

this." There's a lot there to look at. It's not that there's anything blurry or hidden. You can see all the organs they take out, you can see the brain, the eye, the eye coverings; you see how their muscles are put together, their feet, their toes. The detail is quite remarkable if you look at it closely. You can even see their toe nails and finger nails.

SM: Why do you think the autopsy film has attracted such criticism? In many ways that's a very open question because a lot of people would then simply reel off what they perceive is a list of inconsistencies. Something that comes to mind is the tent footage with the company in England claiming they did it on Santilli's request.

EG: They were lying about that. I've had long email conversations with Ray about this and in the first place, the tent footage is not even relevant to the alien autopsy because it's not important. It's just a blurry kind of mess of several people in a room, over a table, pulling strange things out of a dummy. It doesn't even look like the original film or anything. I have a copy of that and I know exactly what it looks like. I don't think very many have seen it.

When Ray showed it to camera man, he told Ray, "I didn't take that film". And as soon he told Ray that, he told Fox not to show the film, but Fox wanted to show it and showed a couple of segments of it and it was over Ray's protests.

What had happened was that Ray had given the guys that produced the tent footage a roll of film that was in fragments and he wanted them to see if they could get anything off of it. They couldn't do anything with it but they decided to spoof him and make this little tent sequence. They didn't tell him they were joking with him but as soon as he showed it to the camera man, he said, "No, that's not my footage." That has confused the issue but if you look at it carefully, it shouldn't confuse because the explanation is totally straight forward and it makes sense to me. You see, I believe Ray. I've been communicating with him since 1995 and he's never lied to me as far as I know. If he doesn't want to answer a question, he tells me, "I can't answer that." On issues of substance, he's never declined to answer.

The only problem is the only thing he won't explain is what happened when U.S. government agents contacted him. He won't answer that. It was immediately after they contacted him that he became pretty stand offish and non co-operative with a lot of people. He didn't with me. We have maintained the same relationship. He just says, "Well, you'll have to put that on the back burner. Maybe I'll answer that some other time but I just can't answer it right now." With the implication that if I persisted with it, it was going to affect our relationship.

SM: When people have looked at Santilli, they see a non ufologist who has made money out of a piece of film that he claims is genuine. When asked to substantiate much of the background, he's unable to name the camera man, the one person who could probably really cross a lot of "T"s and dot a lot of "I"s for a lot of people. I understand the reasons he's given but nevertheless, Santilli presents a slightly unsympathetic picture.

EG: Yes, he does. I agree with that. And he's a little bristly sometimes but Neil Morris and Dave Vetterick and I decided to try to sell the alien autopsy CDs and put it all together. We were all communicating with him and although it got a little confusing, he was very co-operative and went overboard to let us produce this CD. He didn't have to. It was totally within his power to stop us doing it. He said, "I don't want any money from this. You just take my share and donate it all to a children's charity in Houston."

That isn't the actions of a hoaxer. A hoaxer is going to try to keep pulling the wool over your eyes for as long as possible, and not be open about it. And he's been totally open about these issues. Especially around the film, he's been very co-operative. He's

allowed us to sell a thousand CDs if we can do it. We're not making any money out of it either. We're just trying to get it out there so people can use it and for people to see the uncut version of the alien autopsy.

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**Ray Santilli**

SM: You at last seem to be gaining the interest of other ufologists in your claims about the legitimacy of the crash site itself. You've had Wendy Connors take a look at it but I also believe Dr. David Rudiak has come down

as well. I believe they were impressed.

EG: I think David was impressed, I wasn't there. I talked to Wendy afterwards and she said he got out of the car and started looking at it, at the burn pattern, this is quite a large area – about 4 or 5 football fields – and he just became lost in deep thought trying to figure out how these burns could have happened. He took a bunch of samples and measured everything, and took notes, but I haven't heard a word from him since. I know how impressed he was but I think anybody that went to the site, within about 15 seconds would be saying, "Oh my god, Oh my god." That's what I did. Wendy was the most sceptical person and she was insulting too in a way, and I had to write a couple of nasty letters to her to get her back on track so that she wasn't just thinking I was some kind of nutcase.

I talked to her on the phone and once she calmed down, once I met her and we went along to the site, we got along famously. I showed her the camera man's directions and showed her exactly where he went and how he described it and when we got to the site, within a few seconds she was just enthralled. She just couldn't believe it. She brought along a friend of hers who is the official photographer for the Albuquerque fire department and he was blown away too. He had never seen anything like it. All the burn patterns, and we're talking about hundreds of yards of burned walnut trees, grease wood and all of it is burnt from the top down. You don't see this pattern anywhere else. You have about 200 yards of rocks that are burned only on one side and it just goes on and on. Then you have this strange material, cristobalite, that covers the site. It's just splashed on there and there's no way it could happen just through normal geological activity. Combine all that together and it's a really impressive place.

SM: Am I right in thinking here Ed that you are alleging that the cristobalite was not formed from the intense heat of the crash but was actually sucked into the craft as sand and expelled as cristobalite?

EG: Yes, it's like that. The craft, I think, has an electro magnetic vortex around it and the craft rides in the centre of the vortex, like in the eye of the storm. When the craft got in trouble and started to heat up, it brought in the desert sand that it was travelling across and brought it into its vortex and heated it up. And then when it hit, it dispersed it again. In other words, it wasn't in the craft, it was swirling around the craft, this hot, molten sand.



**Rock covered cristobalite sample**

There were two impacts. It hit the face of a cliff first and that is just totally covered with this cristobalite, and then it bounced or flew another 150 yards to another spot and that's where it actually landed. And that's where some of the cristobalite is between a quarter of an inch to half an inch thick. It splattered all over the rocks. You're talking about an area of about two or three thousand square yards and it's just totally covered with this stuff. And the cristobalite is only warmed at extremely high temperatures. If you've ever seen black obsidian, sometimes inside of it you can see these little white specks and that's the way cristobalite is normally found. It's an indicator of extreme heat.

SM: Am I right in thinking it actually can form naturally but the places on earth where it does are very, very rare?

EG: Yes, it forms naturally. It's a fairly common material because volcanic action is so common but it never forms in large quantities. In other words, it's only in little tiny specs inside of things like obsidian. Obsidian is that black stuff they use for arrowheads and things like that.

SM: Has anybody been able so far to offer a natural explanation for why such a large area should be covered with cristobalite?

EG: No, no one has. Most people don't understand geology and the person who I want to come out to the site, who is MD at the Mexico School of Mines, hasn't visited it yet. And he would be the one, once we get him out there. I think who would say, "I've never seen anything like this before."

I did take the material to a geologist before it was identified as cristobalite, a well know geologist in Albuquerque, a friend of my brothers, and he was just blown away. He said, "I don't know what this is." When I tried to explain where we found it and what my theory was, he kind of backed away, like I was crazy.

So I think any geologist that went out there would have a very difficult time explaining it. The reason it would be difficult is because you have this material that forms under extremely hot conditions covering pieces of sand, vegetation, things like that. Ray Sanford measured the age of the sand there and it's around 28 million year sold. That's when the volcanic activity formed the area.

SM: Is there at the site any indentation in the rock or in the ground that something happened there?

EG: No, there isn't. The craft is very, very light. Two men could pick it up. That's what the MP said. He said that when he was guarding the site at Roswell, they came in with a crane to load the ship on to the back of a flatbed, and in the process of lifting it up, the craft split in two. But by that time, they realised how light it was and two men picked it up and put it on the back of the flatbed.

And when you look at the debris and watch them handling it, you can see it just has no mass at all. It's real light. I think that's how these ships travel. They're very light and they have this electro magnetic vortex that moves them around. They are very similar in description to the crafts described in the ancient Indian texts.



**First impact area showing cottonwood tree and cristobalite covered cliff face.**

SM: I've never seen the debris footage. Where does that fit in?

EG: There are nine reels of autopsy footage in the original film and then there is one that's called the debris and that's the last. It's about a minute and thirty seconds. It's inside of a tent. A lot of people confuse the tent footage with the debris footage which is actually inside the tent. You can see the walls of it bellowing and moving. And that's where you find the segment with the writing on it. It looks like Roman numerals. You get to see the hand panels and some soldiers handling it. They turn it over so it can be filmed. You see the way the panels were split and cracked.

SM: Coming back to the footage itself, would it be reasonable to say that all the objections that have been thrown up about the validity of the actual film itself, not the contents of the film, in terms of its age and so on, have been satisfactorily explained away?

EG: Yes, I think that everyone of them has. We haven't actually tested a piece of the film with the image on it. Volker Spielberg, who actually owns the film, has refused to allow Kodak to test because they wanted fifteen feet, although eventually it got up to twenty five feet of the film and he's not going to let it go. He thinks it's the most valuable film in the world and he's not even going to let a segment of it go.

But I think most of the objections were nullified when Phillip Mantle was finally able to talk to the person who transferred the images from the original 16mm film to the TV tape. He has been contacted and interviewed extensively. He said it was really old film, it had the images on it, I'm the one who transferred it, and it was really old and in bad shape.

SM: Kodak has examined a bit of white leader of the film, have they not?

EG They have, but the caveat was that there was no creature on the film that they examined. But they've actually looked at film that Ray says came from the film that he bought from the camera man and they have said it was manufactured either in 1927, '47, or '67. And actually, the piece they looked at was of the autopsy room and the table.

SM: If we then assume that the film was current to the period and that the images on the film were shot around then, we're left with then still two options; either it's genuine or it's a hoax. If it's a hoax, the only people inclined to, and to be in a financial position to perpetuate that hoax would have been the U.S. government back then. One theory is that they did it to frighten the Russians. I think you yourself have said, "Well, why would they do that? They could just send a bomber." But Stalin was very interested in the Roswell incident, very interested, and if footage appeared, it could have had an affect on him. Would you consider the possibility that the film was produced for him?

EG: It's a problem when you start looking at the autopsy itself. I think, "I don't care how much money the government had, how did they do it?" How do they create a dummy like that that bleeds and that has internal organs? Why would they give it six fingers and toes? Why would they be so specific about the anatomy plus, when you look at the film, there are little anomalies in the film that indicate it had to be shot all in one setting. The special affects people say you would have to stop and change the dummies, you would have to have several of them, and it's really complicated making a special affects footage like that. Within the first 20 or 30 frames, you get to see a clock



**Possible photo of the camera man**

on the wall and it says that it's five minutes after ten. And then in almost the very last frames, you see the same clock reflected in the glass partition and you see that it's quarter to twelve. So, approximately an hour and forty minutes has passed as far as the clock is concerned.

But the clock is an electric clock and has a chord coming down from it. The chord has a kind of skewed angle to it, a really strange kind of angle, and you can see this angle in the first frames and again in the very last frames when it's reflected in the glass. Neil Morris has measured this and it's exactly the same at the beginning and the end of the film.

If you have a special affects outfit shooting a film like this, somehow they would have to account for the fact that it only took an hour and forty minutes and was uninterrupted. If it had been interrupted, to maintain continuity you would have to pull the chord from the wall to stop the clock. In doing that you would disrupt the angle of the chord and it wouldn't be at the same angle. So we know that the whole footage took an hour and forty minutes from beginning to end. We only have seventeen minutes of it but we know that's the type of time that elapsed. And that is about the time it would take to perform this kind of dissection.

SM: I know that the pathologist has been identified as a surgeon, as opposed to being a pathologist.

EG: Williams and Bronk are supposedly the two that are there. There are four people that are actually filmed. There are two surgeons and there's a nurse. You can tell it's a nurse, you can see her breasts, and you can tell by the way she's working with the

doctors that she's a surgical nurse, and then behind the glass partition that I was talking about there's a guy with a face mask on. He doesn't have the anti biological gear, the chemical suits. He's not wearing one of those. He's just wearing regular scrubs and he has a face mask on. He's taking dictation, using one of those little stenographic machines they used back then. There's a microphone hanging down and it's obvious the surgeons are talking into it because every once in a while they will point to something and he'll nod. We know there's communication going back and forth between them, and he's taking notes.

SM: I take it that although the names of the people involved are known, it's been impossible to positively identify them because of the clothing they're wearing?

EG: You can't identify anything. It was the camera man who said he thought it was Williams. Other people have supplied the name Bronk. You can tell they're actually doctors. There's no doubt about that, they are not actors. They do a dissection just like you would do one. The brain removal is the most telling because it's done exactly by the numbers.

One of the major objections has been that if this is an autopsy film and they sawed the top of the skull off, how come they didn't roll the creature over so they could see the back part of the skull? Well, the standard operation procedure for removing the brain is, you saw through the skull three quarters of the way round and then you saw at an angle straight across. When you do a normal autopsy, the theory is that the person is probably going to be in an open casket or something like that so that when you sew everything back together; you don't want the skull cap slipping down by gravity and causing the skull to look deformed. So you cut this little notch in the top of the skull so the skull cap actually sits in this little notch and doesn't slide off afterwards. That's exactly what they do here. I worked as an orderly from the age of seventeen until I was twenty one on and off and I'm very, very familiar with all of these surgical procedures and the way surgical nurse's act and the way doctors hold their instruments. And especially the way they touch the bodies. I can guarantee you these are actual surgeons.

SM: Other than the fact that certain internal organs are located differently inside the autopsy bodies as compared to a human body and that some organs don't appear to exist, again in comparison to the human body, are there any other medical conclusions that you're aware of about those bodies?

EG: Yes. In the appendices to *Beyond Roswell* there are several pathologists that report on the body and they say they don't look like human organs but they don't look like faked organs either. They could be functioning organs. That's what I'm trying to do now; get somebody who really understands comparative zoology and who can tell me what they resemble if they don't resemble human organs. I think there's one place in there that looks like an egg pouch and I'd really like to get a zoologist to take a look at that.

SM: Do you think in part, the reason why the footage has been held up to ridicule is simply because people can't accept that they are looking at an alien? Aliens don't exist therefore the footage can't be real.

EG: Yes. I don't know why Ufologists haven't at least looked at it more carefully. It was Ufologists who said it was a fake. It wasn't the average person. People like Kent Jeffrey's, Stan Friedman. Kent is a real character. He's the one who started the Roswell initiative where they got all these signatures to have the government re-open the case and take another look at it. He was a MUFON representative somewhere and as soon as he saw it, he said it was a fake. Santilli did a showing just for Ufologists and it was

at that showing that Kent Jeffrey announced it was a fake, it was terrible, and I think pretty well everyone picked up on that and really didn't give it much of a chance.

And then Stan Friedman said it was a fake and that Santilli had lied to him. Friedman offered Santilli \$100,000 for the footage. He said he was representing someone else. And Ray said no, he couldn't sell it; that was what he paid for it. After that, Stan wouldn't have anything to do with it.

SM: Has he given firm reasons as to why he doesn't go along with it?

EG: It doesn't go along with the Roswell time line. As far as he's concerned, the Roswell creatures had four fingers, as per the MJ12 version and it doesn't fit together. Plus, Ray told him he had footage of Truman actually looking at bodies. When the footage came out on Fox and Truman wasn't on it, then Friedman said that obviously Santilli was lying. I think Stan's reasoning on it is pretty convoluted. I don't quite understand it except that it throws away all these theories that he's had for years about the nature of Roswell.

SM: Do you think you'll ever make any further progress with this within Ufology?

EG: I have been invited to present at the UFO Crash Retrieval Conference in November in Las Vegas. That's a big breakthrough. I've been totally ignored by all these guys. I've never asked to do any of those shows but there are indications that they are beginning to think about it in a serious way. I think the biggest problem with how it's presented is that it really does go against all the ideas of the ETH. It's a problem for folks.

SM: How does it go against the ETH?

EG: Because when you look at it, you can't imagine these beings are from a different star system.

SM: You mean the actual aliens aren't convincing enough?

EG: Yes, they are more human like. They are so similar to us that it's not convincing that they'd be from another star system.

SM: Well that's ridiculous.

EG: I know it is.

SM: But the autopsy proves that physiologically they are different to us.

EG: Yes, they are different. They look very similar but when you open them up, their anatomy is not the same as our anatomy inside. It could only happen through convergent evolution. Functionally, the creatures look the same but inside and genetically they are not the same.

SM: Although I would say the external differences are greater than "slight", they look different enough for me to be convincing as aliens, or certainly as non terrestrial beings. But that leads me back to your theory as to what exactly these beings may be. You've said they live on earth, probably underground, and you think they may have the capability to visit Mars and the Moon and so on. But where do you think is their point of origin?

EG: I think that they are monotremes. When reptiles slowly evolved into mammals, the first form that they took was monotremes, like the duck billed platypus. They lay

eggs, they have no secondary sexual features, they retain a lot of their reptilian qualities but they are actually mammals. They split from reptiles about 180 million years ago and this was when there was just one landmass, called Guanaland. At that point when they started to evolve, they have had almost 180 million years of temperate climate in which to develop in and that's more than enough time, if it were necessary, to become human-like. From the tarsus point, when they are just little rat like things, it only took 65 million years to evolve into us. So it's perfectly possible the monotremes evolved into humanoid like creatures and gained some type of technical skills that led them to create a civilisation that we're just not familiar with. The creatures have no teeth and monotremes have no teeth, the creature has only one hole, that's what monotreme means – one hole, they have no secondary sexual features and no belly button because they are born from eggs.

SM: Are you saying that the creatures depicted in the alien autopsy footage hatched?

EG: Yes.

SM: But even male reptiles have penises.

EG: The one depicted in the footage is a female.

SM: Even if these beings have lived in the most remote parts of the earth, you would think over this period of time they would have left some trace that modern man would have noticed or discovered before.

EG: No, I think they evolved in Antarctica and that has been covered with ice and snow for about 65 million years so for as long as we've been evolving, there's been nothing to see. I think over that period of time, you would lose all trace of civilisation especially if they were trying to keep themselves hidden.

I know it seems kind of far fetched but I think it makes sense when you consider how long humans have been seeing these creatures. When you look at their writing, their writing is definitely similar to human writing so it's not far fetched to think we got our writing from them and that they've influenced us. I have a picture from the Smithsonian and there are 9,000 year old ceramic statues that they found in little tiny pieces. It took them ten years to put them all together but when they did, they looked just like the alien in the alien autopsy footage. (continued further down next page)



Lent by the Department of Antiquities of Jordan. Photo Courtesy, Arthur M. Sackler Gallery (John Tsantes/SI)

### Close encounters with an ancient world

With their enigmatic faces and staring, bitumen-accented eyes, they look like aliens from some other world, and in a way, they are, for they have come to us from across nine millennia. The figures, two full-length statues and a double-headed bust, each about 3 1/2 feet tall, are from a cache discovered in 1985 after a bulldozer cutting a road in Jordan exposed an ancient archaeological site. Broken into thousands of fragments, the figures were far too delicate to be excavated on the site, and so the entire block of earth in which they were entombed was dug up and shipped to the Smithsonian's Conservation Analytical Laboratory. There, in a process spanning a decade, conservators painstakingly reassembled them. They are now on display at the Arthur M. Sackler Gallery.

Of the artists who made them, we know that they lived by farming, as well as hunting and gathering. They employed advanced Stone Age tools and were technically adept at

making and working with the lime plaster from which the statues are fashioned. And the figures themselves? Perhaps they represented ancestors, or heroes, or gods or goddesses from some spirit world. We only know that after 9,000 years, their haunting faces, like archetypal figures from our collective past, have the power to speak to us still.

<http://www.smithsonianmag.si.edu/smithsonian/issues96/oct96/jordan.html>

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SM: You seem to be suggesting then that there has been interaction between them and us.

EG: Yes, I think they have interacted with us. I think they have had a strong influence on us. I don't know why but I think they have tried to influence us. I don't think they communicate with us very well and I think now they are very frightened of us and that's the main reason we don't see them.

I used to buy into the whole idea of star travel and ships and things like that but lately, I don't see how it could happen, especially how we've been seeing UFOs lately. I can't imagine how they are travelling back and forth and why they would want to do it. It seems to me that it's more something that's here, in our solar system, that's trying to influence us subtly, not openly. Think about it, it's really difficult just to try to communicate with your dog so think about trying to communicate on any kind of intelligent level with a duck billed platypus. I think it would be very difficult. I think they have a very hard time trying to figure out what we are all about and I think that we would have a very difficult time understanding them.

SM: Yet they weren't afraid of early man?

EG: Well we don't know for sure. They may have just had very peripheral contact, just like they do with us now. Ivan Sanderson, in his book *Invisible Residents* goes into it in some detail as to how it could happen, in amazing detail, and I draw on him a lot for my thinking about how it works. If I hadn't found the crash site, I wouldn't be theorising like this but having found the site really gives me a tremendous amount of evidence that something actually happened. So then I can look at the footage and try to extrapolate from it information that I think is relevant. That's why I go out on a limb like this.

SM: In relation to your invitation to the Crash Retrieval Conference in Vegas, it might be that your hard work is beginning to pay off. Maybe the ufological community is ready to cast another eye over this subject again. Is there anything that you think Ray Santilli could do now that would just help push it along a bit more?

EG: He could give Kodak one square of film with the creature on it. I think they could spare one. But they aren't interested in cooperating like that. I'm sure they've been told by our government we're going to make your life hell if you do anything to promote this. If you release anything else etc. I'm sure our government are very concerned should this get out there.

SM: Is that what you think was the nature of the meeting between Santilli and the U.S. government?

EG: Yes, I do. I think they said we're really just going to hassle you guys in ways you can't believe if you persist with this, and you can't co-operate with anyone any longer and that's the end of it. Santilli has done whatever he could because he's told me that pretty soon someone is going to figure out that he and the camera man are telling the truth. This is exactly the way it happened. This is the way I got the film. This is the camera man's story that he told me. I've seen all of his photo albums, I know he is

who he says he is and this is the truth and one of these days you guys are going to figure it out and what are you going to do about it?

SM: Am I right in thinking that the camera man has now since died?

EG: No. he's not dead as far as I know.

SM: Will he be in his nineties now?

EG: Yeah, probably in his nineties. I think that he probably thought he was going to die when he thought, but he happened to live on. I know he was definitely alive when the MP contacted me because I had a series of conversations with the camera man over the MP. The camera man wanted to find out if they were talking about the same crash site.

SM: Can I just stop you there. You have had direct contact with the camera man?

EG: Only through email with Ray Santilli. What happened is Ray read my article about the MP and then he contacted me and he said that the camera man was interested in finding out if these two were the same sites. And so Ray asked me to ask the MP a series of questions that the camera man had formulated. And I asked the MP those questions and with the answers that he gave, the camera man concluded that the two crash sites were different. One question was, and I think it's very interesting, who was the cook? What was the name of the cook at the site? And the MP wrote back and said, "Well, we called our cook Shorty". And the camera man wrote back and said, "No, that's not the right answer. The cook was known by a nickname. Obviously if you were at the site, you would know who the cook was." I thought that was pretty darned interesting. I know Ray Santilli would not have invented a question like that, so it had to have come directly from the camera man. So at least three years ago he was alive. And I think Ray would have told me if the camera man had died.

SM: And I guess there's still no chance of him, while he's still alive, of stepping forward?

EG: No. I just don't know. Maybe on his death bed. I think he's pretty shook up. I think he's scared, scared of being found out.

SM: Well the authorities would surely know who he was.

EG: I don't think they do. A lot of those records are all destroyed. There was a huge fire in St. Louis in the sixties and it destroyed almost all the Roswell records.

SM: Ah, so that's genuine.

EG: Yes, that's genuine. It was at the record centre in Missouri. It was a huge fire. They only have partial records of a lot of people and I don't think they could trace back who he was if they wanted to, especially since he was working on special assignment most of the time.

SM: Do you think we'll ever find out the truth?

EG: About the alien autopsy or about UFOs?

SM: Both, but obviously one will follow on from the other.

EG: I think that more and more people will accept the idea that the alien autopsy is a possibility. But I don't think it's going to lead to a general admission by the

government that they've been messing with us all this time. I do think the government are keeping a secret but I don't think they are doing it for nasty reasons. Like Vannevar Bush, there have been several discussions about him, he was essentially a pretty good guy and I don't think he would have done something harmful to the American people. I think that he was trying to help. I think all of this has been done in a way to keep some information from the American people that would have harmed them if they had found out about it. At least these people felt it would have been harmful. I think they're doing it for the best of reasons. I don't think they're doing it just because they want to keep a secret and they are being assholes about it.

SM: Does that reason amount to the belief that the Human Race couldn't deal with the truth?

EG: Yes, I think that's part of it and I think that also part of it is that they couldn't deal with the fact that we share this planet with someone else. I feel it would be easier for them to think there are people from other worlds than to think we actually share this solar system with other intelligent beings. It would really mess things up if we found that out. I think they think that.

SM: Share the solar system or share the planet?

EG: I think we share the planet and I think these creatures have technical skills that allow them to travel in the solar system, in a more advanced way than we are able to do right now. We can pretty well travel in the solar system and it's not even inconceivable that within a hundred years we should be able to fly within the solar system quite handily once we develop the materials and skills to do it. But I don't think we're ever going to get to another star. I think we're pretty well trapped here in our solar system and I think all stars are pretty well trapped in their solar systems and I don't think that we can reach a level of technology that will allow us to travel faster than the speed of light.

SM: You really don't think that's been cracked anywhere?

EG: No, I don't. I don't think anybody can do it. Neither do I think there are dimensions out there. I'm a bit more nuts and bolts and I think the explanation is lot more simple than we've been thinking about. It's not as complicated as we think it is. And we may share the solar system with more than one race, maybe several different groups of creatures. But I can't explain the fleets of UFOs over Mexico now, for example.

SM: I must say that I would prefer that "our" aliens came from another planet. It's more romantic!

EG: I know, but I think it's much more exciting to think that they're here with us. They could have harmed us if they had wanted to, a long time ago. I think there may be limited numbers and I don't think they're very strong physically. They couldn't fight us face to face. Like the camera man said, the creatures were holding on to their boxes, the hand panels, and making these strange noises, and they wouldn't give them up so a guy just came up and hit one on the head with his rifle butt and took the panel away from him.

SM: That made me feel very uncomfortable when I read that.

EG: Me too. You can tell they are vulnerable you know. They are very light and I don't think they have the same density that we have. The way the creature lies on the autopsy table, it just doesn't feel like there's any sag or mass there.

SM: If they are here and under the Antarctic, then you've got to presume they are monitoring us very carefully.

EG: Yes they are. That's why I think they're so concerned about the nuclear weapons facilities and things like that. Because we share the same planet and they don't want us blowing the place up. That's their concern.

SM: They obviously don't trust us.

EG: I don't think they quite understand us. No, they don't trust us either. I think they've caused power failures before but I don't think they do it intentionally. I think they do a lot of things that aren't intentional and there are unintentional consequences from behaviour that they're not really thinking about.

SM: Do you think they are the people responsible for abductions?

EG: Yes, I do think that they are. I think they're all the same people. Betty Hill told me, she had contacted me - in fact she was really excited when I first published the alien autopsy seven or eight years ago, and she said, "You have to stay with this. Those are exactly the same people who abducted me. I didn't count their fingers or toes, but their faces, those are the same people." I'm convinced she was telling the truth.

SM: I can't get out of my mind the comment you made a little bit earlier about how possibly one of the reasons why the alien autopsy footage is rejected by people is because the aliens aren't alien enough. I find that a very interesting concept. What is it people want?

EG: They want something out of *Star Trek*. They want something strange.

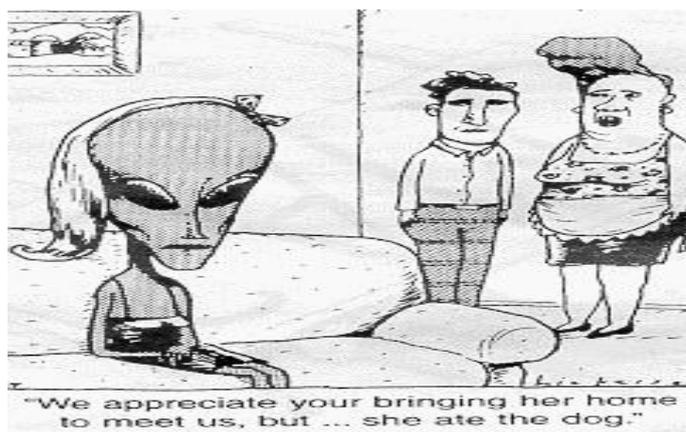
SM: I have read that one theory about the aliens in the footage is that they are humans suffering from some sort of disease. Have you come across that?

EG: Several doctors have looked at that and said, "Absolutely not".

SM: Ed, excellent. Thank you.

For an overall summary of the autopsy film debate  
<http://www.v-j-enterprises.com/jroswell.html>

**For details about ordering the CD**  
<http://www.v-j-enterprises.com/aafilm/aaindex.html>



## There's Life On Mars

A song to warm the cockles of your thingy. Sung to the tune of *The Hokey Cokey*

There's life on Mars, Life on Mars  
There's life up there but no one cares,  
Do the NASA tango and change your mind  
And then change it back again  
Ooooooh the Mars fiasco  
Ooooooh the Mars fiasco  
Ooooooh the Mars fiasco  
NASA are a bunch of pricks

You're a learned scientist sat up on a perch  
You write a story, you're left in the lurch  
Your colleagues ignore you, tenure is removed  
Your career goes backwards, down the tubes  
Oooooooh the Mars fiasco  
Oooooooh the Mars fiasco  
Oooooooh the Mars fiasco  
NASA are a bunch of pricks.



## Searching for the Truth

(Always Telling the Truth Means Never Having to Remember Anything)



# Alien Commercialization of Roswell

By Dennis G. Balthaser

05-06-05

Talking to the local Roswell residents that lived here in 1947 will not produce much information in reference to what took place northwest of Roswell in July 1947. The incident pretty well faded away 3 or 4 days after it happened, thanks to General Ramey's announcement that it was nothing more than a weather balloon. Consequently not many locals know anything about it and there is very little information available from the locals about a crashed UFO or alien bodies. Many locals that were here in '47 are no longer with us, but the commercialization of the incident by local businesses keeps it in the forefront at least here in Roswell.

Today, 58 years after the incident occurred, one cannot walk around downtown and some outlying areas of Roswell without confronting aliens. Not real ones, but those that have begun showing up on the storefront windows and advertisements for different businesses. They're everywhere.

For those of you that have never been to Roswell, New Mexico, I'll share some of those with you in this editorial.

Roswell is well known for its dairy industries, cheese factory, farming of chili peppers, pecans, cotton etc., but mention the town of Roswell to most people, and the alien connection with a crashed UFO comes to mind. Consequently many downtown businesses have picked up on the alien theme.



The UFO Museum was incorporated in 1991, and is currently in its third location downtown, containing a gift shop of alien paraphernalia that rings up dollars for the museum in astonishing amounts. You hardly ever see anyone leave the museum without a bag containing items purchased in the gift shop. Commercialization of

the 1947 Incident is big business for the museum and some local merchants.

Not long after the museum moved to its present location in 1997, many of the businesses on Main Street near the museum picked up on the alien theme and have decorated their storefronts and signs with that logo. It's rather interesting to walk on Main Street and view the originality of many of the store windows.

The aliens not only show up at T-shirt stores as you'd expect,



but one of our furniture stores downtown has aliens depicted in the front windows. A music store also.



On the south end of town toward what was the old Roswell Army Airfield base, a self-storage building complex has adopted the alien theme.



A restaurant or two have an alien theme, and on the menu at one restaurant you can even order a "UFO burger" (whatever that is!!!)



Most local Roswell residents don't pay much attention to all the alien commercialization by businesses in town, and pretty well accept it, since it has for several years produced large sums of income for the community and has become synonymous with the town of Roswell. The tourists find it rather amusing and interesting when they arrive here for the first time, and many have commented to me about the alien theme presence everywhere.



Our Wal-Mart located at the north edge of Roswell on US 285 is unique in its large artistic display on the front of the building. Surely there is not another Wal-Mart anywhere with aliens on the storefront as ours is.



Recently McDonalds restaurant took the idea of Roswell being known for a UFO crash and constructed a "flying saucer McDonalds" adjacent to the location of the original McDonalds. I suppose one could say a McDonalds crashed in Roswell. The design is unique and is a great visualization of a flying saucer including the hatch open in the front portion of the craft, as a play area for children.

A few years ago the city of Roswell even joined the theme when all the streetlights in downtown had what appear to be eyes painted on the glass light globes atop the street lamp poles. Many people probably don't notice them, but when looking at them it's obvious what they are representing.

If you haven't been to Roswell and are planning to come in the future, be sure to look around downtown and get to know all the aliens who have invaded our town recently.



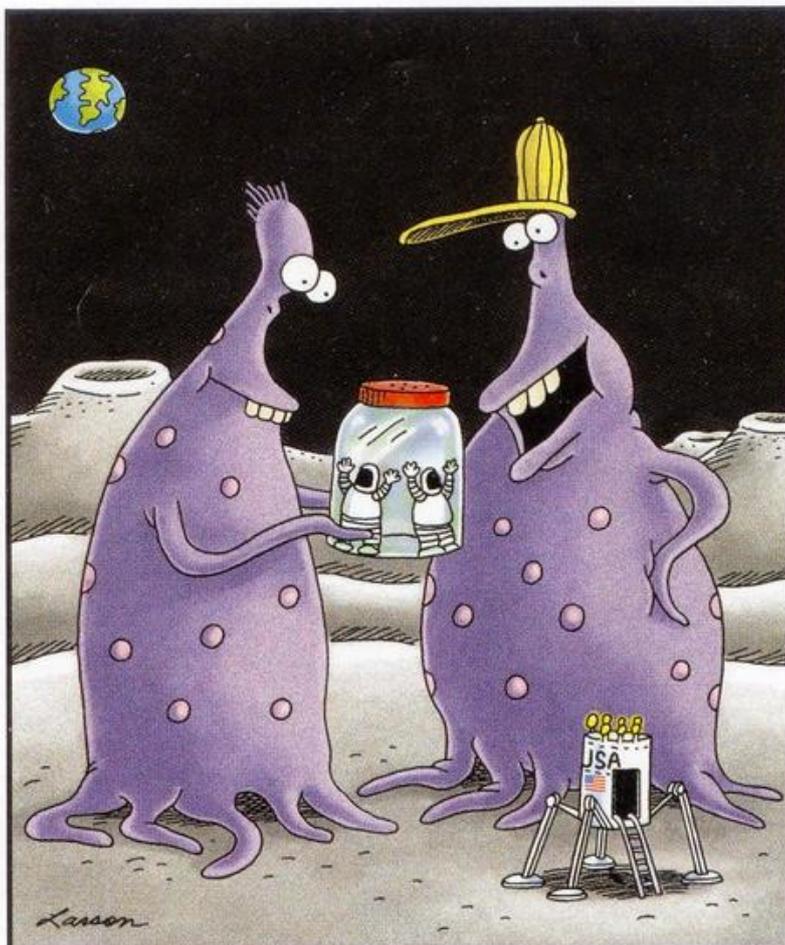
Their presence sure sets us aside from any other location that may have had a crashed UFO in their past, and it's not surprising that when the town of Roswell is mentioned anywhere, aliens and a UFO crash come to mind, because they are here, especially on Main Street.

Dennis G. Balthaser

Web site; [www.truthseekeratroswell.com](http://www.truthseekeratroswell.com)

Email: [truthskr@roswell.net](mailto:truthskr@roswell.net)

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"Pretty cool, Dewey. Hey!  
Shake the jar and see if they'll fight!"



## UFO RECOGNITION PART 3 – UFO FEATURES

By William F. Hamilton

- **SHAPES**

Aircraft are usually recognized in daylight skies as having a tubular fuselage and projecting wings. If the aircraft is flying at high altitudes, it is sometimes difficult to determine the aircraft's shape as it subtends such a small viewing angle and may reflect light off various surfaces.

The recognition of aircraft, balloons, blimps, and helicopters must be studied to distinguish them from unidentified flying and aerial objects.

Reported UFO shapes vary across a much larger spectrum of geometry than conventional aircraft shapes, and many do not have aerodynamic shapes.

### **Boomerangs:**

These started appearing in the 1980s. Sometimes asymmetrical in shape. They seem to move low and slowly. Some reported as the size of three football fields.

### **Cigars:**

In the 1940-1960 era large cigar-shaped UFOs were sighted, sometimes disgorging disk-shaped objects. I remember than one sighting in 1949 from two separate points estimated one cigar to be approximately 1 mile in length! The large cigars are not seen often in this current era. (Note: Roy Neary in the film "Close Encounters" described UFOs in terms of food. Here the UFO looked like a giant cigar)

### **Cones:**

Many varieties of cone-shaped UFOs have been spotted. Some appear to be inverted cones. In 1959 I saw what appeared to be a double cone joined at the base.

### **Cylinders:**

These are usually small compared to the cigars.

### **Disks and Domed Disks:**

Commonly called a "flying saucer" and seen more frequently in the early era, but still spotted from time to time in the current era. These may be sighted with certain structural features: windows, landing gear, rings, ports, etc.

### **Dumbbells:**

Looks like two spheres with a connecting rod.

### **Mushrooms:**

Combination of dome and stem.

### **Pyramids:**

A flying pyramid like you see in the StarGate TV series!

### **Rectangles:**

Believe it or not some UFOs appear to be completely rectangular in shape.

**Saturns:**

Large spheres with engirdling ring.

**Triangles:**

These have shown up with greater frequency in the current era and outnumber the number of disk sightings reported.

**Miscellaneous:**

Orbs, octagons, and other miscellaneous shapes have been reported.

- **SOUNDS**

For the most part UFOs seem to pass through the air soundlessly. Witnesses have strained to hear sounds from low-flying UFOs and report they could not, and yet various sounds have been heard coming from UFOs. In the early era witnesses having a close encounter of the second or third kind would sometimes report hearing a "humming" noise emanating from a disk or domed disk. This humming has been variously described as sounding like a swarm of bees, a generator, or a vacuum cleaner.

Occasionally other sounds have been reported such as a thunderous roar.

- **STRUCTURES**

Structures are varied, but a few common features have appeared on some of the close encounter reports. The reports of seamless outer hull structures suggest an advanced materials technology. Windows and doors have been seen in disks both open and closing, and when closed, the closing appears seamless.

Domed disks with three or four spheres on the underside have been seen and photographed. These spheres have been seen to rotate. Ring-like structures have been seen. What seem like antennas sprout from the domes on the disks.

Triangles with rectangular panels on the under body have been observed.

Lights, ports, windows, panels, and various raised surfaces have been seen on all shapes of UFOs. Sightings involving structures convince witnesses that they are looking at a craft or vehicle from some other world.

- **SURROUNDS**

UFOs have been seen both in daylight and nightlight with atmospheric effects. These effects include glowing opaque body, glowing translucent body, coronas, sparks, smoke,

And trails of smoke or sparks. The surrounding glow or UFO aura changes color as the UFO moves and some have reported it goes through spectral changes with increasing velocity. Since our known aircraft do not normal produce surrounds of this type, this is a good indicator of an unknown. These surrounds have been conjectured to be byproducts of UFO propulsion. This, of course, implies the UFO seen is a vehicle.

If the UFO-vehicle is propelled by electrogravitic or magnetogravitic technology as some think, then these by-products of the technology are explicable. Evidently, the UFO can charge or ionise the surrounding atmosphere, producing a glow. These layers

of ionisation become a plasma with certain distinct colours depending on the field and the composition of the air.

This three-part exposition is brief and an entire book going into much further detail could be written on this subject.

For further study I recommend:

- TITLE: Observing UFOs  
 By: Richard F. Haines, Ph.D  
 Published by: Nelson-Hall, Chicago  
 Year: 1980  
 Library of Congress in Publication Data  
 Haines, Richard F 1937- Observing UFOs.  
 1. Unidentified Flying Objects. I. Title.  
 TL789.H34 001.9'42 79-13418
- TITLE: Ufology  
 By: McCampbell, James M.  
 Published by: Celestial Arts, CA  
 Year: 1976  
 Library of Congress Catalog Card Number: 73-93488
- TITLE: The UFO Handbook  
 A Guide To Investigating, Evaluating And Reporting UFO Sightings  
 By: Allan Hendry  
 Foreword By: Dr. J. Allen Hynek  
 Published By: Doubleday & Company, Inc. Garden City, NY  
 Year: 1979  
 Library Of Congress Catalog Card Number: 78-8211
- TITLE: The UFO Experience-A Scientific Inquiry  
 By: Dr. J. Allen Hynek  
 Published by: Henry Regnery, IL,  
 Year: 1972  
 Library of Congress Catalog Card Number: 76-183827
- TITLE: Physical Traces Associated With UFO Sightings.  
 Compiled By: Ted Phillips  
 Edited By: Mimi Hynek  
 Foreword By: Dr J. Allen Hynek  
 Published By: The Center for UFO Studies (CUFOS)  
 Year: 1975  
 Reprinted: April, 1982 by Arcturus Books Service with permission of the Center For UFO Studies  
 (CUFOS)
- TITLE: UFO Reports Involving Vehicle Interference.  
 A Catalogue and Data Analysis  
 By: Mark Rodeghier  
 Edited By: Mimi Hynek and Sanna Hans Longden  
 Published By: Center for UFO Studies (CUFOS)  
 P.O. Box 1402 Evanston, IL 60204  
 Year: 1981  
 Available: Center for UFO Studies (CUFOS)  
 2457 W. Peterson Ave.  
 Chicago, IL 60659
- TITLE: Project Identification: The First Scientific Field  
 Study of UFO Phenomena  
 By: Harley D. Rutledge, Ph.D  
 Published By: Prentice-Hall, Inc., Englewood Cliffs, New Jersey  
 07632  
 Year: 1981  
 Library of Congress Cataloging in Publication Data  
 Rutledge, Harley D. Project Identification  
 Includes index. 1. Unidentified flying objects.  
 I. Title.  
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## Frank and Ernest



# THIS IS THE LAKE DISTRICT



Our Motto; "Don't stop; just drive straight through"

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## Coniston Old Git to host artist who wants to fake a UFO

[Lakes Guide](#)

### Entertainment

By T. Werpimous

### Competitions

An artist who, because he doesn't have a proper job and therefore has more time on his hands than he knows what to do with, will do something fakey tomorrow (Saturday) with the Old Man of Coniston involving a UFO and an unnatural act

### Lifestyle

### Food & Drink

But first he needs to ask the Old Man whether it's OK to go clambering all over him as he's been known to get a bit grumpy about it from time to time

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"One bloke came looking for a UFO a while back and spent hours crawling all over me. Eventually he stuck a huge stake in my dick with a little note on it saying, "Watch this take off" and I can tell you it hurt like hell"

### Family

### Announcements

London-based Hilary Rioux will head up the river valley footpath to Little Arrow Moor to recreate what is held to be the first UFO photograph ever taken in Britain. To cries of "Get a life", he will use a fishing rod, a wooden frame, sticky tape and some other Blue Peter cast offs, and will attempt to recreate a picture taken on the fell in February 1954 by Torver teenager Stephen Darbishire.

### Find a car

The event is part of the FRED art project, run by Kirkby Stephen artists' group Fold, which has seen a tree dressed' in a dinner suit in Kendal and

### In-Gear

125 fence posts in Kirkby Lonsdale decorated with shoes, so that if they decide to go walkabout, they won't get the pointy thing at the end all

### Photo Gallery

sojourners thoughtful. Taxpayers money well spent in the pursuit of something or other. Oh yes, artistic beauty.

### Business & Transport

Mr Rioux said, "What I'm trying to do is adapt various methods that have been suggested to me by people ranging from UFO experts to local people as to how Stephen Darbishire might have made these photographs in the first place."

### Holidays

### Weather

Although Mr Rioux believed some people had seen paranormal sights, he said the photograph was probably faked and the effect was achieved by painting on to the glass of the lens.

### Farm & Country

### Education



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**Location:**

**Job Title:**

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**Location:**

**Price Range:**

Min

Max

**Type:**

Sale

**No. of Beds:**

No Pref'ence

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**Jobs** **Homes** **Cars**

**Location:**

**Price Range:**

Min

Max

### History

So in affect he's calling the guy quoted below, Mr. Darbshire, a liar.

### Artists In Residence

Speaking to The Westmorland Gazette, well-known artist Mr Darbshire, now 63 and living in Whinfell, wished the artist luck but said the communication with the flying saucer had definitely not been faked.

### Get in Touch

I went up the fell and took the photograph of it. I was with my cousin at the time. This thing, whatever it was, appeared, we took a photograph of it. I fell over the camera at one point. When we took it down, everybody laughed at us. I've no idea what it was."

### Archive

### Other Newsquest Sites

He said the publication of the photograph, encouraged by his father, generated years of unwelcome attention. "For two years, every weekend was taken up with people coming and sitting on the lawn. Most of the newsletters that came were sort of on some religious trip, that's the best way to put it. Or on some other kind of trip. Who knows? To a 14-year-old, it was a bit of a joke."

Mr Darbshire said the attention was so intense, he changed his story to say the photograph was faked: "I said it was a hoax to get people away but they said you've been got at'. They wanted to believe. I should have dropped it like a stone."

For believers and sceptics alike, if you see a mysterious silvery object floating over Coniston on Saturday, then for god's sake run and take cover because it will be for real and it means the Martians are really invading.

8:39am Friday 8th October 2004

Printer unfriendly format. No, we definitely don't like printers.

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## **UNMASKING THE DISRUPTORS IN UFO/CONSPIRACY RESEARCH (Part 1)**

**By James Bartley © 2002**



To be forewarned is to be forearmed. The thesis of this treatise is that certain individuals within the UFO, paranormal and conspiracy research fields are often used, wittingly or unwittingly, to control and manipulate others.

We hope the information in this treatise can spare others the grief and misery that comes from interacting with controlling and manipulative people. Sometimes this sort of disruption can last for an extended period of time. If the person doesn't learn from these experiences, he or she may be disrupted again and again by different people throughout their lives.

An understanding of how the disruptors and controllers work in the paranormal research community can save people literally years of suffering. This is no exaggeration.

It is incumbent upon you, the truth seeker, to be able to instantly identify the types of individuals you encounter either at a UFO Conference or more problematically, online.

If you were to ask all of the people involved in UFO, paranormal or conspiracy related investigations what their motivation for doing this kind of work is, very often their response will be something along the lines of wanting to "to help others" better understand these critical issues. Unfortunately, experience has shown that many of these "do gooders" in the UFO, paranormal and research community are expert at sowing acrimony and suspicion WITHIN the research community. The disruptors may also spread disinformation and pro-alien propaganda. Some are outright perpetrators hiding behind the facade of a spiritual guru or an "anti-new world order" persona. There are other types of disruptors and manipulators. It is absolutely essential to recognize ALL of them for what they are and not get taken in by their never-ending deceptions and manipulations.

These disruptors and disinformation artists will use real or contrived "academic" or "spooky" backgrounds to establish their "bona fides" within the research field they want to ingratiate themselves into. There are many gullible and naive people who attend UFO, paranormal and conspiracy conferences that take at face value anything told to them by someone with an Intelligence or academic background.

Now take a close look at the UFO Research community and notice how many investigators have either a personal or family connection to the Military/Intelligence community or the aerospace/defense industry. The list is endless. Some of the ones who like to play "big shot researcher" make much of their past Military or Intelligence background, as if it serves as a pedigree for UFO Wisdom.

One such researcher built up his "bona fides" by investigating a well-known crash retrieval case and now years later, he has transmogrified into a debunker of alien abductions. (And with a Ph. D. no less!) I remember when this guy wrote novels. My how the worm has turned.

My colleagues and I take a dim view of his understanding of the alien abduction syndrome. I've always suspected he was "on a leash" anyway since he had somehow managed to find so many first and second hand witnesses to this major event over such a short period of time. I'm satisfied that he had help finding these witnesses. Once he'd established himself as a "serious UFO investigator" with a major crash retrieval investigation under his belt, his case officer decided to move him into the field of alien abductions as a debunker. He was ex Air Force but all the other branches of the service, including the CIA are represented within the UFO research community. This particular individual doesn't have any psychic or astral capabilities that others in the UFO/paranormal field are known to have. He merely represents a type of disinformation artist who used his credentials as ex Air Force Intelligence to get his foot in the door. His was an example of a long-term penetration. It may not have started that way but it sure as heck turned out that way.

But this guy is probably just a disinformation artist and opportunist. The real disruptors seem to target certain individuals who often as not, tend to shy away from any publicity. Their targets seem to be people who have certain identifiable attributes and characteristics, which may or may not be apparent to the disruptor.

In the Vietnam War the media often spoke of "Search and Destroy" missions carried out by U.S. infantry units. For the purposes of this paper, "Search and Disrupt" would probably be a more apt description because disruption is the least you will experience if you allow some of these people into your life. We have developed profiles on the various types of disruptors one is likely to encounter in the paranormal research field. (See Part 2-The Essence of Control) Once the readers familiarize themselves with the warning signs, breaking off contact with the potential disrupter is child's play.

What we are doing is conducting a form of cosmic spy catching. This is Cosmic Counterespionage 101. The "Tradecraft" of intelligence and counterintelligence, as well as special operations has been taken to another level due to the inherent capabilities that some MILABs and MK ultra related project people have, as well as the known or suspected technological capabilities of the deep black intelligence agencies. This information should not be "new" to any investigator of alien abductions, MILABs, mind control or the paranormal.

Today abductees, MILABs and MK ULTRA related project people have a whole plethora of challenges and disadvantages that most people, even within the so-called "research community"--could never dream of. But I believe in turning disadvantages into advantages. The learning curve comes at a price and not many people are willing to pay that price. Again, our motives are to spare the honorable, truth seekers years of betrayals, suffering and grief caused by not being "forearmed".

### **UNMASKING THE DISRUPTORS**

The method used by the disruptors is a modern extension of what "surface level" intelligence and security services have indulged in for years through their control of

human assets. The deep black intelligence and security services as well as non-human beings have utilized the propensity and innate need of certain humans TO CONTROL others as an operational asset or tool. In effect these human assets act as surrogate controllers on behalf of the beings or agencies that control them. If you have spent any amount of time in the UFO or Paranormal/Conspiracy research community, you have already met some of these people.

Alien Abductees, Military Abductees (also known as MILABS, a term coined by Dr. Helmut Lammer) and people involved in deep black projects are subjected to various methods of control and manipulation. Before describing in detail the various categories of "disruptors", we will first describe some of the methods utilized by "surface" intelligence agencies to first isolate an individual, and then, depending on the intelligence agencies' agenda, proceed to destabilize, disrupt, indoctrinate and ultimately control a targeted person. There are two basic ways to do this.

Colonel Oleg Maximovich Nechiporenko, author of "*Passport To Assassination: The Never-Before-Told Story of Lee Harvey Oswald by the KGB Colonel Who Knew Him*" reveals that the *family unit* has always been used as an "anchor" to keep human intelligence assets under control.

The family unit is the most basic control mechanism in the intelligence and black ops world. There are countless variations on this theme of using ones own close family members, relatives and friends of the family, to keep someone under surveillance and or control. The layperson must understand that some people are literally born into the spook world. We'll just use the intelligence community as an example.

It's common knowledge that CIA members tend to socialize only amongst their own kind and date and marry one another. This keeps everything "in the family." Children born from these unions are often raised in a society of clannishness, secret keeping behavior and elitism. This is just a "surface" type espionage and black ops. We're not even talking about Mind Control and high technology programs.

Some family members will be kept under surveillance for most of their adult lives depending on what their parent's and parent's friends had been involved in and what they themselves know from their own observations. Through no fault of their own many people have to live in that kind of culture.

A childhood growing up in an aerospace, defense industry, NASA, CIA or Military/Intel family is fundamentally different from someone who wasn't born into that lifestyle. Children in the former category, especially military dependants, may live nomadic lifestyles, traveling with their family to each new posting or assignment given to one or both of the parents. The adults the child is exposed to are often part of the intelligence/defense industry milieu. The children are often treated by military doctors or government appointed ones. Sometimes they are left in state or government run daycare centers and pre-schools. Keep all this in mind as we develop more of our concepts.

Within the intelligence community, "Sheep-dipping" is the process in which an active duty military person is transferred from his parent military command into a paramilitary unit, bureaucratic division or front organization of the CIA. It's not quite Temporarily Attached Duty (TAD) or Secondment as the British call it. But it's similar. The military person provides a particular expertise or capability that is sought after by the CIA. The military doesn't want to be seen providing the expertise nor does the CIA want it known that they have hired a military person, so the individual is oftentimes put to work by his new employers in civilian clothes, OR...he or she could still wear a military uniform, but do so in a covert and deniable role with absolutely no overt connection to the country or government of his origin.

Even if a sheep dipped military operative's earthly remains are found by a hostile nation there will be no dog tags, personal effects or tattoos that would provide any clues as to who sent him or her on the mission.

In a sense we see the same type of scenario involving multigenerational cult bloodline families. The latter provides a ready-made source of programmable individuals who can disassociate and be made to forget particular memories. (See *Fundamentals of Trauma Based Mind* control <http://www.alienlovebite.com> ) This satisfies the requirement for covert deniability. Some of them have usefulness as operational assets either physically, astral or both. The rituals some of them have been subjected to can establish demonic strongholds within the individual which further prevents reintegration and healing.

Individuals coming from this kind of family background can then be "sheep-dipped" into deep black CIA and or Military Intelligence ops with or without the connivance of the person's family. Whilst in a mind controlled or a frequency modulated astral state, people from bloodline families can be utilized to carry out a whole gamut of black ops and enterprises, and do so under a bewildering variety of operational covers or alter personalities. They have latent parapsychical capabilities and in many cases have already been psychologically fragmented into a number of programmable compartments by the controllers and programmers within their own families.

### **THE PENETRATION AGENT**

The other basic type of control manifests itself in the form of the "Penetration Agent." For comparative purpose we will now discuss how "the perfect stranger" can come into one's life and thoroughly disrupt and manipulate an unsuspecting person. We became interested in this subject after we had observed time and again how manipulated people (under either human or non-human control) targeted specific individuals (often of the opposite sex) or groups of people for purposes of control and manipulation.

At the very least these controllers can sow a tremendous amount of confusion and chaos into the life of the targeted person in an attempt to completely dis-empower them and make them lose faith in themselves.

The following is a "surface level" example drawn from the annals of espionage history. It is an example of how an "outsider" could come into the life of a targeted individual and attempt to control or "suborn" that person to advance a particular agenda.

### **Romeo Agents**

The term "Romeo Agents" came into use during the Cold War. East German Spymaster Marcus Wolf came up with the idea to send handsome spies into West Germany to seduce single female secretaries who happened to work in sensitive West German Government Agencies.

Wolf and his spy service the HVA enjoyed considerable success in what was later known as the "secretaries offensive." The plan was devastatingly simple: Send in handsome spies to befriend and ultimately develop a romantic relationship with a single older lonely woman. Ideally this woman would work in a sensitive West German Government agency.

During the initial part of the sexual relationship the Romeo agent and his control determine the best psychological approach to use on the woman when the subject of her active espionage comes up. At first the Romeo agent asked the secretary to bring

something innocuous and unclassified home from work such as a trade journal or an economics study.

During this entire process a psychological profile is built up about the secretary. Vulnerabilities and weaknesses are identified and subsequently exploited. Some women that have been compromised in this fashion have passed classified secrets to her East German boyfriend because they were IN LOVE and wanted to do anything to please them. So the woman's own emotions are used against her.

Or conversely, let's say the woman becomes outraged upon learning that the romance was a set up and categorically refuses to commit espionage. In these cases, a little more "persuasion" may be applied in the form of photos and movie films of the woman having sex with her erstwhile lover. She may also be shown photos of herself handing over "documents" (the innocuous stuff she brought home from work) to her "boyfriend" either indoors, on a park bench or wherever else the exchange had taken place. The women are often frightened into believing that they will be denounced to the security services of their own country as traitors and spies if they do not cooperate and commit espionage.

There are myriad ways to suborn these secretaries once they've engaged in a relationship with the Romeo agent. To be sure, the latter is an extreme example of a "perfect stranger" or "Romeo agent" coming into a woman's life and turning it upside down.

But the confusion and disempowerment that some women suffer as a result of interacting with male controllers is just as real and painful as what those West German women endured. Rather than force a female abductee, milab or project person to commit espionage, all the male controller has to do is keep the woman in a perpetual state of confusion and misery and he has served his purpose. He has prevented the woman, at least temporarily, from beginning the recovery process. What outsiders might mistake as simple dysfunctionality and co-dependency on the part of the woman and a lack of interpersonal skills and control issues on the part of the male can be a facade for something else entirely. The seeming banality of it makes it all the more insidious.

### **THE ENCOURAGING MESSAGE PART**

An esprit de corps or 'élan which motivated the various national resistance movements against Nazi occupation needs to take root amongst spiritual warriors today. In his classic work "Resistance: European Resistance to Nazism 1940-1945" M.R.D. Foot pointed out how Europeans found myriad ways to resist the Nazi occupiers. Resistance didn't necessarily entail guerrilla warfare or intelligence gathering. It included diverting critically needed German supplies to the wrong destination. French railroad employees did this kind of thing quite often.

When the rail cars arrived in the eastern front, instead of finding cold weather clothing, the German quartermaster personnel would find hot weather clothing that should have been sent to North Africa or elsewhere in the Mediterranean. Anything that disrupted the Nazis plans and timetable for conquest was a form of resistance. The key was not to be seen as an anti- Nazi.

Too many people today are afflicted with the "chicken little" syndrome. These people (well meaning or otherwise) are spreading defeatism and victimization throughout the Internet and the lecture circuits. This defeatism attracts others who are similarly inclined and pretty soon you have the proverbial bullfrogs chorus of people spreading the gospel of hopelessness and victimization. Identifying the individuals who make up

such "interest" (read dissident) groups is compulsory for the security services of this formerly great republic.

This is spiritual warfare we are engaged in. Much of the efforts of the Draconians, reptilians and minions of the Lower Archons (*See "Hypostasis of the Archons" in the Nag Hammadi Library -James Robinson edition*) will be dedicated towards preventing you, the truth seeker, from fully integrating your own experiences and learning from them. Whether you realize it or not, many of you reading this are spiritual warriors in your own right. And the forces of evil, including manipulated researchers and "do-gooders" in the paranormal field, will be arrayed against you.

~James Bartley

## **Unmasking The Disruptors in UFO/Conspiracy Research (Part 2)**

**By Eve Lorgen**



### **The Essence of Control**

The underlying themes of disruptors and neutralizers is the compulsion to dominate and control a specific person or group. Controllers can expertly target and diminish their victim's greatest gifts (or exploit them for their own gain), because those gifts, like their deepest feelings, are usually expressive of their authenticity. Patricia Evans, founder of the Evans Interpersonal Communications Institute in Alamo, CA and author of *"Controlling People: How to Recognize, Understand, and Deal with People who Try to Control You"*, offers groundbreaking insights into the psychological underpinnings of controlling personalities.

After interviewing hundreds of "Spellbreakers" (survivors who regained independence from a controller) Ms. Evans states, "I saw their greatest gifts, eloquence, talent, intellectual genius, common sense-were the very gifts most disparaged by the Controller." This is an important insight, which vindicates much of what we've found in

our observations of targeted "alien abductees", and aware truth seekers in the UFO/Paranormal/Conspiracy community.

The disruptors and neutralizers were generally controlling persons who zeroed in the most talented and aware truth seekers who exhibited remarkable intellect, creative and psychic abilities. The targets were either, MK ultra "secret project" persons, alien contactees and abductees, potentially exploitable psychic people and spiritual intuitives.

In fact, one neutralizer even had a name for a specific subset of females he was compelled to control ---Trinity Women! This male ardently believed-- *He that controls the Trinity Women, controls the world!* For those readers who have not seen the movie *The Matrix*, Trinity is the female character-- an archetype of power whose love for the "redeemer hero" was key in the liberation of our ultimate capabilities, and freedom from the Matrix oppressors. In real life, however, we observed that these targeted Trinity Women were those who had a potential for or demonstrated powerful feminine energies, intellect and psychic abilities. Some of these women were alien abductees, MILABs in secret projects whose capabilities were exploited, or those who were simply adept, independent and highly intuitive.

Whether the controller is under orders from secret societies, "aliens" or government intelligence agencies, makes no difference in their fundamental personality type. The Controller is by nature a spellbound-- a mind controlled person, driven by fear of their own disconnectedness. Controllers are basically "beside themselves" and their core experience, seeking self-knowledge outside of themselves. They fear their own experience because it comes by way of the functions they were taught or trained to disregard--feelings, sensations and intuitions. According to Patricia Evans, a controlling person has their identity built backwards, forging control connections with people whom they have defined, as if that person were of one mind and an extension of themselves.

**The following are examples of controlling behavior:**

- **The need to be right is greater than their need to be honest**
- **Defines you by telling you who you are, and what you think (even if its not true)**
- **Implies you're wrong or inadequate if you don't agree**
- **Is threatened by people who are different**
- **Feels attacked when questioned**
- **Doesn't seem to really hear or see you**
- **Minimizes and trivializes your feelings**
- **Is oblivious to how their behavior affects others-lacks true empathy**
- **Maintains a one up superior position**

The Controllers real fear is about being disconnected from their inner self. The Pretend person that they define and control protects them from feeling disconnected. In fact, they usually control or repress their own emotions very well via addictions, and

multiple distractions. Often when their feelings do emerge, they go into uncontrollable rages. The Controller will sense the slightest signs of individuality, resistance, even questioning, as a personal attack. As is often seen with stalkers, no one can prove themselves to a Controller. These efforts alone do not break the spell. This is because control is not really about getting another to do something, i.e., a slave. It's ultimately about the Spellbound fighting to avoid feeling disconnected in everyday life.

In order to effectively offset the disruptor, neutralizer or controller in your path, it is highly useful to understand their basic psychology. Appropriate and healthy responses to a controller who tries to anchor in their 'spell' is to feel uneasy, speak-up, run, plan escapes and resist! If in the presence of a controller for a long period of time, the victim starts to question himself or herself, and distrust their feelings. Please understand that these are warning signs! When confusion sets in, it becomes more difficult to disengage from the Controllers imposition of a false reality.

## **The Prototypes**

In our own work with abductees, fellow researchers, truth seekers, survivors of mind control and cults, there are a number of Controller/Neutralizer prototypes observed in the UFO/Paranormal community. Let me briefly define these red flag personalities.

### **1. The New Age Channeler or Cult Leader**

This type will draw out the metaphysically oriented truth seekers who are beginning to awaken. They may channel ET's, spirit guides, and be outwardly spiritually positive conducting healings, environmentalist activities publishing channeled info, etc. These types are often hosted by non-human entities such as reptilians and may exhibit psychic energy vampirism. The psychic vampirism (often via love relationship set ups) usually blows their cover when persons start observing closely, or breaks away from the cult. Demonic reprisals and possessions have occurred when a member questions the authority, escapes or plans to expose the leader.

### **2. The Religiosity Control Freak**

This person draws out naïve, fundamentalist Christians. They attract those who are spiritual, want answers, deliverance, or prayer. They have a tendency to proselytize, and minimize their incongruent and controlling behaviors as minor character flaws. The black and white dogmatism tends to keep the spellbound victim psychologically stuck, under control, and actually prevents an integrated recovery or spiritual growth process.

### **3. The Christian Patriot/Militia Activist Patsy**

This personality is an effective patsy for disruptions, creating enmity and rumor mongering of various opposing factions in political, conspiracy and mind control research. They are big on name calling, documenting hard data of conspiracies, and cater to those of a more academic and political mindset. The person may in actuality be a multiple personality (MPD/DID) under mind control with a Christian Fundamentalist front alter. They lack spiritual discernment. They are easily spotted.

### **4. The UFO Investigator or Alien Abductions Expert**

This person draws abductees, some MK ultra survivors, or MILABs who want to discover their own hidden memories of abductions, alien encounters, etc. The newly aware abductee seeks an expert and validation that their experience was physically real, perhaps offering evidence and may be hoping to find support. This expert may be moderately educated, have a military or intelligence background. Their religious

background can vary, and they are not prone to be honest, truth seeking authentic individuals. You may get the sense that they are "hiding something" or are more interested in maintaining a high degree of respect. Reputation and book sales are very important to them. Their main job is to keep the research data diluted or spin controlled, so that little useful or sensitive information is released. Oftentimes they have loyal followers who appear docile and mind controlled -could they be controlled?

### **5. The Doctoral Level Expert with Scientific, Military or Intelligence Experience**

This prototype may be an intellectual genius, an expert in Psyops, weaponry, or have an educated interest in occultism and parapsychology. They tend to have greater financial means, positions of authority and media spin control. These types are the most dangerous in their ability to deceive and hurt their victims. They are most likely to be hosted by non-human negative entities (or legion!). They have a cool calculating nature and may have paranormal abilities. They could possibly be members of a secret cult or practice the Black Magic Arts. They tend to harbor disdain for abductees and victims of mind control-often ridiculing and humiliating them publicly. This is a variation of the OMAG, for the exception that they are more educated and public people.

### **6. The OMAG-(Obnoxious Military or Government Scoundrel)**

This term was created by Leah Haley, an abductee, who encountered such agents even before she went public with her MILAB experiences. The OMAG is often used as a love bite set up-a Romeo Agent sent to specifically neutralize a target. They may not be in public view and are on a specific mission under control of some agency or perhaps non-human entities. Oftentimes they provide a female abductee or MILAB the best sex she's ever had. Domestically, OMAGS tend to operate in a clandestine manner and can fabricate an entire "legend" or cover story about their life or their current occupation in order to fool the woman they are trying to manipulate. It's possible that some of these OMAGS are under, at least part of the time, non-human control. They could be mind controlled MPD/DID's. These agents may have exceptional sexual prowess such as tantric sexual seductions and use of neuro-linguistic programming in mesmerizing their victim. Their education and career cover may vary. Because they are controlling in nature they are often drawn to be in law enforcement related fields. They may be hosted as well.

### **The Muppet**

The Muppet is really in a category all its own. They are not necessarily disruptors or controllers. Muppet or *manipulated muppet* is a slang term used to describe relatively benign, yet potentially dangerous people, who for one reason or another lack the spiritual resiliency or awareness to deflect alien, MK or HIVE manipulation. We have all been muppets at one time or another in our lives when the hands of "Murphy's Law" or personal weakness caught us unaware, so that something unfortunate or HIVE manipulated happens. For the most part, muppets are not dangerous controllers, but can be positioned in certain situations as to be completely undependable in times of need. (You do not want to be in the same foxhole with a muppet when the defecation hits the oscillation) For example, you do not want a muppet to make your travel plans to a conference or be a head of UFO group, radio station, or conference promoter. If they are allowed into these sensitive positions, the group will be easily manipulated by the party line spin control, multiple distractions, the HIVE, you name it. It's best not to place MUPPETS in positions of responsibility or authority because they are too easily manipulated.

Of all the prototypes listed above the most dangerous and likely to be "hosted" by non-human entities such as reptilians are # 1, and 5 and 6. The greater their tendency to control and manipulate, the more likely they are hosted. They are agenda oriented and may promote impressive "mission statements". These hosts can create a whole slew of paranormal synchronistic events that serve to destabilize and victimize the individuals (usually women) they are attempting to suborn.

Yet another category of disruptive and manipulative beings are the "Hostile Negative Energy Agents" as described in Montalk's excellent expose, "Hostile Characters" of the Matrix. ( <http://www.montalk.net/hostile.html> )

Most of the disruptors and controllers above mentioned were male, but there were also female agents. The female agents are more likely to utilize positions as cult leaders, channelers, or authors/lecturers promoting a specific agenda. Male abductees have also encountered female disruptors and controllers especially within the love bite context.

Some disruptors are compelled to leave "calling cards" for intimidation purposes. For example, one MILAB author, when presenting at a conference on their book, found their car broken into, where large muddy footprints were left in the vehicle, even though the car was left locked. This MILAB also found their hotel room broken into and their bag of books desecrated with a feces-like substance. The perpetrator needed to "punish" them because he/she warned a truth seeking abductee friend about his abusive and deceitful behaviors.

### **Reptilian Hosts**

For those who are new to the term "reptilian hosts" please view the article "*The Birth of a Host*" by Cassie on (<http://www.alienlovebite.com/cassie.htm>)

We know an abductee who was a witness to a curious genetics program at a private clinic that was run by a "reptilian host." This woman received reprisals after mentioning this anomaly on a talk radio show that James Bartley was a guest on. Within a couple of days, this woman was fired from her job. One of the radio show hosts, (no pundit intended) who "took over the station" sent the eyewitness nasty private e-mails admitting his own status as a reptilian in human form. He threatened, and belittled her--and mocked the "stupid human race". He flaunted his reptilian identity and bragged about how easy it was to take over the radio program. In this case, the radio "Host" was exploiting his central position within this radio station to conduct spin control and spread disinformation about UFO's, aliens and related topics. This woman had the ability to clairvoyantly see hosted individuals and reptilian shape shifters.

For those who do not know, the parasitic entity within--say a reptilian--is almost always aware when the clairvoyant can "see them" overshadowing a particular individual. If the seer is good, they can play poker face and the entity within may not be able to see their being "unmasked". If the witness and host interact, the hosted person may have an instinctual hatred or antagonistic attitude towards the seer, regardless of what they do or say. The individual who is hosted may not necessarily know that they harbor an attached entity. Some do. Once the reptilians are "on to those who can see them", that person or family is assailed with a barrage of misfortunes and reprisals. This may include the proverbial raping reptoid sexual assaults in the dreamscape, sudden job loss, or outright abductions with injuries.

As another example, a woman not only saw a shape shifter at her place of employment-- but smelled him strongly--a rather pissy, dank, sulfuric odor. The momentary sight of the shape shifting reptile, and the strong odor caused her to recoil

in shock-and the shape shifter was aware of her "seeing his true nature". In this case, the woman was later mind scanned by this Host, who had such dark brown eyes they looked black. Needless to say, this "Host" was a wealthy, high-powered individual in a career of high authority. Not long after this woman's "glimpse" of the shape shifter, she was treated poorly at work, and fired without cause by her boss, who was suddenly acting "all mean and manipulated". (She did not vocalize this at all to her fellow employees either.) Sound familiar? She and her family suffered financial setbacks within weeks of this "revelation" of Reptilian Host being unmasked!

One case history worth reading is that of Colleen Johnstone, an abductee who was caught up into a channeling ET cult for 8 years. (See her soon to be published book *Surviving the Fall*) The female cult leader and channeler was hosted by demons (in the guise of benevolent ETs). It is important to note here that in the channeling arena, some unclean spirits will use similar deceptive intelligence tactics in establishing their bonafides with healings, accurate information, etc. When Colleen started questioning the validity and benevolence of the cult leader's tactics, Colleen and another cult escapee received heavy-duty demonic attacks, which necessitated exorcism by a priest. Her life threatening experience reads like a classic horror story exorcism! Again, some cult leaders and channelers are very dangerous!

Love bite set-ups ( alien manipulated relationships) with reptilian-hosted individuals have been reported to be the most energetically draining. As more love bite experiencers come forward with their histories, the more we learn about the dynamics of how the aliens-and especially reptilians, work through humans. It is not a simplistic, black and white theory of mind control carried out by purely human MK ultra control meisters. There is something very real about the ability of reptilians and reptilian-hosted humans to siphon off chi or sexual kundalini energy after their Chakra energy centers have been activated (via a powerful love bite).

In another (unpublished to date) case, the abductee was set up with another abductee-who claimed to be a "hybrid reptilian". It is unclear whether the self-proclaimed hybrids are really "alien" hosted abductees. The important point here is to recognize behaviors exhibited-not single out any particular race, group or gender. For all we know, the entire human race may be hybridized with several alien bloodlines. It's not the racial, genetic, or religious orientation being exposed here, but the specific behaviors, which are detrimental to the spiritual growth and freedom of the human race.

### **The Compelling Force Behind Controllers**

I've often wondered if the compelling force behind human Controllers is a kind of HIVE mind that also permeates the more malevolent aliens. Whatever it is, its nature appears to be anti-life, a backwards destructive force that necessitates a vampiristic life cycle. If the person is not resilient, spiritually connected or aware enough, the HIVE force moves through them like candles in the wind temporarily turning them into spellbound muppets. This is manifested in varying degrees, the ultimate spellbound person being the Hosted Controller. One could say that someone becoming hosted by a non-human malevolent entity is the worst-case scenario.

Perhaps the HIVE mind is a mild form of the Anti-Christ spirit or the [Ahrimanic](#) faction of the collective consciousness. For the most part it is represented in varying shades of grey, from people temporarily "beside themselves in unawareness" to entire oppressive regimes like the 3rd Reich. I think this force has been described in many cultures and religions, such as the warning by Christ Jesus to be on the alert, as the Devil is like a prowling Lion seeking to devour its prey. Growing self-awareness and mindfulness, is the first step in overcoming the oppressive forces of evil itself.

### **Resistance, Spell Breaking and Disengagement from the Controllers**

It would be remiss if this article didn't address ideas for solutions to the problems we face. Since Controllers and Hosts are the primary manifestation of the oppressive force in daily life, let us start with some basics on how to resist Controllers.

The first step in the Controllers attempt to anchor in a target, is the act of defining that person with assumed ideas about their being. These ideas will attempt to create a Pretend person, (or group), a Teddy Bear of one mind with that Controller. The Teddy serves as an extension of the Controller, a counterfeit connection fulfilling the dependency needs of the "sick" Controller. One important note here is that not all Controllers are this way with everyone they meet. They may have a primary victim, who meets their dependency needs of control, and appear as the nice guy socially or at work, yet be a monster at home.

As much as we are compelled to defend ourselves against the illusion makers, arguing and explaining ourselves are wasted efforts. They are futile efforts because the spellbound Controllers cannot HEAR authentic people. (It's like they are programmed against this) Stop explaining yourself. Instead ask, "WHAT?" Or "Who is making something up, playing let's pretend?" This is important because the Spellbreaker -you- doesn't want to give the Controller the impression that their "let's pretend" world is real. Just keep saying, "WHAT?"

Essentially you "can't hear" nonsense so you don't take it in. Here the Controller cannot accuse you of interrupting (as they often accuse you of doing when you explain yourself). Each time the Controller tries to label you, they will find it impossible to do. This gives them an opportunity to remember what they said and wake up from their own spell.

The Controllers anchor in the person or group by defining a false identity. Once they have hooked in, the experience can proceed into energy drainage and even abuse. To offset these anchors the awakened person must change the station, switch channels. If enough people do so, the Controllers have little or no audience and the spell weakens. This notion can also be extended to guarding one's emotional expressions and sexual energies, to guard against energy vampirism.

One may ask, "But what if the Controller is abusive, violent?" What if the Controller takes the form of something like the 3rd Reich? More realistically, what if the Spellbreaker awakens to the reality of already being in the occupied territory of the enemy? What do they do then?

### **Disengagement from the False Reality MATRIX**

In our modern world, the tradecraft of oppressive regimes and their technologies have taken a quantum leap. Just ask any victim of non-lethal weapons harassment. One needs to ask questions such as, "What kinds of capabilities do we need to disengage from the Matrix?" Do we need more documentation of covert government black projects, UFO sightings, physical evidence of alien abductions, implants and ET contacts? Should we create more web sites and lobbying activists complaining about harassment, MK ultra projects, or satanic cult activity? Perhaps if we get religion and become more dogmatic it will all go away? Should we continue to react loudly with relentless anger and contempt about the evil perpetrators? Ultimately, you need to ask, "Is my time and my mind my most prized asset?"

There are no easy answers, but there are simple solutions. Connection with the creative life force of the Universe, call it God, the Holy Spirit or Divine Love is the beginning of liberation. This is our inner essence, our real spiritual core that all human beings have. Connection with our own spirit is a gradual process of awareness, healing and recovery. Incorporating holistic mindfulness and spiritual practice, this integrated

awareness expands into a discerning wisdom. With wisdom comes much grief, and with grief sprouts a budding heart of compassion. Compassion for the suffering of others. As our hearts of compassion grow, so does our inner power. As we connect to greater degrees of our own divine essence, we regain an innate knowingness and all the capabilities necessary to disengage from the oppression of false reality. No one religion has the only answer, although it can lead you to the door of realization and eventual enlightenment.

Disengagement from the Matrix is a process of refinement and subtlety --much like the acquired taste of a good French wine. *Vive Le Resistance!* ~Eve Lorgen

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**Footnote: Ahriman** (Also known as Ariman, Aharman, Dahak, Angro Mainyus) an aspect of the Persian prince of evil and the prototype or aspect of the Christian Satan. According to 'The Encyclopedia of Religions', Ahriman brought death to the world by slaying the prototype of mankind and beasts ( excerpted from A Dictionary of Angels by Gustav Davidson)

### **Bio of James Bartley**

James Bartley is an alien abductee who has been exposed to high levels of spiritual warfare. He has written a number of papers that have been published on the internet and is a member of the Universal Seduction series of books and has contributed chapters to Volumes One, Two and Three. His writings have been featured on a number of popular websites including the David Icke website. He has been a co-host for the Night Search Paranormal Network (NSPN) and had his own one hour radio broadcast/internet audio cast show on NSPN called "The Bureau of Alien Human Affairs – Directorate V – Reptilian Section" or "BAHA, D5, RS" for short.

He was also a co-host along with veteran researcher Eve Lorgen on the "ET INSIDER" which was a 2 hour show on the NSPN network. James was a frequent guest on the Dave Allen radio show based out of Northern California. He has lectured at the UFO Friendship Campout at the Lil A'Le Inn in Rachel Nevada and has given a public memorial for the late Dr. Karla "Kandy" Turner in Philadelphia Pennsylvania. James has appeared on public access cable in Tucson Arizona, San Diego California and on the Adelphi Public Access Cable Network. James Bartley is a protégé of Barbara Bartholic who is the foremost expert on Alien Abductions.

James has researched alien abductions as well as milabs (the kidnapping, temporary detainment, experimentation, and training of alien abductees by apparent military or medical personnel) and networks with abductees and milabs around the U.S. He is one of the foremost experts on the Reptilian Overlordship and has been instrumental in providing key information about this controversial and relatively obscure subject.

James Bartley is a former business owner and has worked in the telecommunications industry, the insurance industry, county government and the Department of the Navy in an intelligence related capacity. He is a student of military history with an emphasis on Intelligence, Counterintelligence, and Special Operations.

### **Eve Lorgen's Bio**

My name is Eve Lorgen, and I'd like to introduce myself as a potential guest for lectures, radio or TV talk show interviews regarding the subject of Alien/ET Abductions.

Within this controversial topic alone, opens up a Pandora's box of important issues such as, mind control and manipulation, spiritual warfare, military abductions, MK Ultra

black ops, milabs (military abductions) superhuman warriors/operatives and conspiratorial Secret Government activities relating to the extraterrestrial presence here on Earth. And lastly, what we can learn to overcome these influences, focusing on enhanced self-awareness, compassion, liberation and enlightenment.

I became interested in the UFO/Paranormal field early in life as a result of UFO sightings, paranormal phenomena, alien encounters and an expanded awareness of spiritual realms and interdimensional beings. I am an educated, sensible, intelligent and exceptionally aware individual with multiple college degrees, (B.S Biochemistry, M.A Counseling Psychology) and studies including alternative medicine, Tibetan Buddhism, Gnostic Christianity, Lucid Dreamwork, Qi gong, Yoga, Poetry, Martial Arts and a former gymnast and dancer. My greatest interest now is lucid dreaming and Tibetan Dream Yoga.

My published works include : ***The Love Bite: Alien Interference in Human Love Relationships***, (Elogos & HHC Press 2000)

Numerous articles published internationally related to the subject of Alien Abductions include:

*Fluorescence Findings of Various Body Sites of Abductees*

*The Afterglow of the UFO Abduction Experience*

*Alien Implant Removals: Five Abductees Discuss Before and After Effects*

*Get Lucid For Total Recall*

*Lucid Dreaming: A Psychophysiological Approach to an Ancient Spiritual Practice*

*Spiritual Warfare and the Alien Love Bite*

*The Love Bite: Deeper Insights into the Alien Abduction Phenomena*

*Love at First Site Could Be The Alien Love Bite*

*Alien Orchestrated Human Bonding Dramas*

*Secret Project Super Warrior Gone Rogue*

*Project Superman: The Saga of Andy Pero*

*Mars Records Interview with Michael Relfe, (a milab black op agent)*

*Interview with a Love Bite Experiencer Couple*

*The Fundamentals of Trauma Based Mind Control*

*Unmasking the Disruptors in the UFO/Paranormal Research Community , Part 1 & 2 by James Bartley and Eve Lorgen*

More articles can be found at <http://www.alienlovebite.com>

I am a contributing author to all three volumes of The Universal Seduction series by Angelico Tapestra.

I have years of experience as a radio show guest and host with Night Search Paranormal Network, NSPN, an internet and broadcast radio talk show from 1996-2002. A former guest on Jeff Rense, The X Zone, Dave Allens' Nighthawk, "Feet to the Fire", with James Jancik and numerous other radio talk show segments, TV and video interviews with Cable Access TV shows and some international news segments. I've consulted with many well known researchers in this field, such as Barbara Bartholic, the late Dr. Karla Turner, Derrel Sims, Dr. Roger Leir, Dr. Helmut Lammer, James Bartley and many MUFON members, alien abductees, and experiencers of anomalous trauma. I started an abductee support group out of San Diego California in the 90's and consult with many experiencers today.

My best asset is that I am still alive, sane and healthy, after being a UFO/Paranormal and Abductions researcher for over 20 years. It is well known amongst researchers that harassment is part and parcel of being seriously involved in the UFO research field. This harassment goes well beyond surface level human involvement and merges with hardcore spiritual warfare and anomalous "alien" manipulations. I am one of the

very few abduction researchers who will speak openly about this aspect of the phenomena, and will explain why "deeper insights" of the extraterrestrial/alien presence never hits the light of day within "mainstream media".

To date, I've had to adopt a new way of perceiving and reacting to the world, and am now a practicing Tibetan Buddhist! It is truly a miracle to emerge from this research and alien abduction experience with a balanced and spiritually uplifted perspective. Some days are great, and others are downright confusing. I don't have all the answers BUT:

I believe time is short. Life is precious. Love is the greatest mystery of all. With knowledge comes much grief. With grief comes a heart of compassion. We are all in this together. We stumble, fall and get back on our feet again until we have refined a graceful dance through the mystery of life.

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My web site is <http://www.alienlovebite.com>



## Kithra

Kithra has been a regular columnist at Review since we started. But other than the fact that she won a Christmas hamper last year which she didn't share with anyone and that she doesn't go out much, we know very little else. So, here's a bit more.



SM: A brief, potted personal history please! Age, where brought up, marriages, children etc.

K: I shall be 56 this October and I've been in Cornwall for almost 20 years. But I was brought up in Berkshire, where I spent my formative years, apart from being sent away to boarding schools in Worcestershire and Avon. I've been married twice, both times to the same man, and we spent a little while living on the Continent, mostly in Andorra and a little time in Spain. However, I was widowed 20 years ago and I value my independence far too much to consider marrying again! But I do have one lovely daughter, and four beautiful grandchildren.

SM: In what area of the paranormal/spiritual did your interest first develop?

K: When I was 2 years old I had my first OOB while undergoing an anaesthetic for an operation – an experience still so vivid it probably accounts for my phobia about hospitals. Then when I was 11 my adoptive mother died, (my adoptive father having died when I was 6), and I had two more OOBs; both of which are still very vivid in my mind. And I've always been somewhat psychic; for example on the day my mother died I'd said to somebody at school that I didn't have a mother. What I'd meant to say was that she was in hospital, but at the time I said it she was already dead. Oddly enough a similar thing happened when my husband died. I'm not sure that it ever consciously occurred to me that I was psychic because it's something I've always been aware of. I don't want to give the impression that I'm a genuine psychic, but I do seem to have this ability to predict disasters. It's not that I can tell you what, where, or when, just that I get these strong feelings and within a week there's usually been some dreadful catastrophe. I did it with the Shuttle disaster, I did it with the Asian earthquake last December and, very unusually for me, I did it with 9/11 via a dream the night before. And those are just the most recent ones that I remember. So the paranormal is a subject I've always been interested in.

On spirituality, that's a more recent interest of mine. When I say recent I mean about 10 years. I've long believed in reincarnation, and it's never made any sense to me that one lifetime is long enough to learn all the things we need for our spiritual evolution.

But it was only when I read a book about metaphysics, in the early 1990's, that things seemed to crystallise for me. At that point I was working on personal growth and self-improvement, and when I read Gill Edwards "Living Magically" everything just seemed to fall into place for me. There's a very old saying that goes something like "when the pupil is ready the teacher appears" – and that's how it was for me.

SM: In relation to Ufology, where do your thoughts and beliefs lie? What do you think is going on?

K: I've been interested in Ufology for about 45 years. I think it must have started with a very odd experience I had at school one night. One of my friends had run away late one evening and I was watching her walk down the drive and out onto the highway. It was dark and I wasn't supposed to be out of bed, but I stayed at that window for a very long time, even when she'd disappeared from view. At one point I saw what I can only describe as a Michelin Man walking down the road. The 'apparition' must have been very tall as he would have been as far away as two or three hockey pitch lengths from where I was watching. I had 'it' in view for about 3 or 4 minutes, and during all of that time I didn't see or hear a single car, or person, passing along the road. Perhaps I was suffering from the Oz Factor. I knew I was awake because I was feeling cold kneeling up at that window rather than being warm in bed. However, the next thing I remember is waking up in bed in the morning, and I've no idea how I got there. Again, this memory is as clear as though it happened yesterday.

When I first seriously started to learn about Ufology I used to keep a world map on the wall, and put little map pins into it for each case I heard about. I suppose I was really looking for patterns – although I don't remember finding any! Back in those days I tended towards the idea that all UFOs were nuts and bolts machines, either with or without occupants. And on a drive with my husband one day, back in the early 1970's, we saw what we both believed to be a UFO. It was just like the proverbial silver cigar! Living near Greenham Common Air Base we were used to seeing a lot of different types of aircraft, but this thing had no wings, no tail, and no windows. Up until then my husband was a confirmed sceptic, but he changed his mind when we saw that.

Now, after all these years, I no longer really know what to believe. I'm sure that some sightings are of real, tangible, machines and/or aliens. But I'm also very much inclined towards the belief that many are of a more ethereal nature. And, personally, it isn't so much about which is which. For me it's all about trying to put different parts of a puzzle together without first having seen the finished picture. By different parts I mean not just UFOs because I would include many other related, and unrelated, subjects. For example, I'm interested in all types of strange phenomena, from ghosts to astrology, and I'd also include Alternative History, and what are known as out-of-place objects.

SM: Is there a universal connection running through the paranormal?

K: Yes, definitely. I try to see things from a spiritual viewpoint, and for me it's about opening my mind to other realities. So each weird happening – the things that make you go Hmm!!! – is an opportunity to do that. To see things from a different angle; I believe I'm a spiritual being having a human existence rather than vice versa. I don't 'buy into' the current matrix, and I refuse to have my life ruled by the things that concern most people, e.g. money, the cult of celebrity, the politics of fear, etc: It's the deeper level of life that I'm concerned with, the age-old questions such as 'why are we here?' And 'where did we come from?' And 'where do we go from here?'

And before you ask, no, I don't classify myself as being part of the New Age Movement either. That's not to say I'm not interested in some of their ideas, but some of it is just too 'off-the-wall' for my taste. For example, take Channelling – I've studied some of the material and I can't say I'm convinced that it comes from either Heavenly Beings or

Aliens. I think it's far more likely to come from the channeller's subconscious – or perhaps they're tapping in to Universal Consciousness.

SM: You seem convinced that some form of non-elected authority rules over us with its own aims and goals. Who do you think they are, what are they trying to do? What do they want to achieve?

K: I'm of the view that humanity was probably seeded on Earth in some very distant past, and quite possibly by an alien civilization. The Missing Link has never been found and I have no problem with idea that somewhere along the line the DNA of an ape, or ape-like species, was altered to produce human beings. I can also believe that we're an experiment, with the aliens watching us in the same way a scientist would watch an animal in the zoo. However, the reasons behind it are, in my opinion, to help us evolve into higher beings, spiritual beings, and to one day become civilized enough to join the galactic community. It just doesn't make sense that any 'evil' aliens want to take over the Earth and use us as either slaves, or even food. They are so far in advance of us that if that had been their intention they could have, and would have, invaded and conquered us decades, or centuries, ago.

SM: Actually what I meant was, and I know this from our private correspondence, that you believe in TPTB and or the Illuminati.

K: Yes, I believe in both the PTB and the Illuminati of the NOW (New World Order). I've long been convinced that there's a secret, hidden, power ruling the world and, like many others, I also believe that many of the secret, global, power-elite are members of the Bilderberg Group. That's where the real deals are done, and the future agendas are set. These shadowy figures have control over all the important events in world history, for example it's 'they' who decide who'll go to war with whom, who'll be elected to positions of political power, what the Money Markets will do - and all of it is often decided years, even decades, in advance. I know the Bilderberg Group only came into public consciousness fairly recently, and in fact Group itself was only established in the last century. But I think that many of its members come from families whose history can be traced back to powerful families from centuries ago. And those who have that sort of power will, in most cases, do anything to keep it.

As for the PTB, they're the 'enforcement arm' of the Illuminati. So even though we may know them as MI5, MI6, the CIA, etc: their orders often come from the chiefs of the Illuminati. And when someone gets too close to the truth behind it all these agencies are the ones tasked with eliminating them; and that usually means killing them off in some way that, for the uninitiated, appears to be nothing more than a freak accident, or senseless crime, or even some sudden illness.

It's not that I believe in every conspiracy going. Some are pure rubbish although, of course, you have to do your own research and then decide which you judge to be real, and which are nothing but a hoax. However, one of the problems I have is that it would make sense to 'enslave' us in a materialistic world, for example encouraging a money-oriented, throwaway, society. That would certainly increase their profits, but when it comes to some theories, like those who maintain that some democratic governments are secretly trying to kill of their populations, what would that achieve? Make them ill

and increase the drug company's profits I can understand, but a decrease in the populace just cuts down those who are able to work, and those who are able to spend.

SM: How would you react to being labeled paranoid in relation to your opinions above?

K: You know the old saying 'just because I'm paranoid doesn't mean someone *isn't* trying to get at me!' But to give you a serious answer I hope that I'm not paranoid, as I've no reasons to be. I know that recently there's been a list of 'dead Ufologists' and 'dead Microbiologists' doing the rounds of the Internet – and yes, some of those deaths are extremely strange. I can also well believe that the PTB (Powers That Be) would not only want to eliminate certain people, but that they have done so. However, I don't know enough about anything to be in danger – at least I'm assuming that's the case. But if they do 'get' me as well ..... then remember you read it here first!

SM: You've had a fairly traumatic life with a lot of ups and downs. Do you turn to a higher spirit in times of need? Do you believe in a god?

K: What some people call God I'd call the Universal All, or the Great Spirit. I think there's an intelligent design behind the Universe. It's not by pure chance that the environment to support life, and I include human life, is exactly right. Just a few 'millimetres' either way and we couldn't exist. I believe we're all sparks of that one Universal All, and that we can exist in many dimensions at the same time. It's just that we're so constrained being in a dense human body that we can't see any other levels. We each of us come to experience a different aspect of life, (regardless of whether that's on this Earthly planet or one somewhere else), with each of us being a different facet of that one Universal All. And the ultimate aim is to complete the cycle and return to The Source. That's the way in which the Universal All gathers a physical experience of everything in creation.

We've long been hearing that the Universe began with a Big Bang. Well, even when I was a child at school I used to ask what there was before the creation of the Universe, and I was always told there was nothing at all. But I couldn't then, and I can't now, accept that answer. If you trace everything backwards you reach the state where we're told it was just a small ball of gas that exploded into being a Universe, and prior to that was a void. My question has always been 'who created that gas?' I don't find it credible that it just sprang into existence - from a void!!!

However far back you care to go you still come up against this question, and I've never heard any satisfactory answer. As for having had a fairly traumatic life, and turning to a higher spirit in times of need, well, I suppose the first part of your question is very subjective. Looking back, yes, my life has been full of traumatic events. And at the last count, a couple of years ago, those close to me who have died - from natural causes to illness, suicide, and murder - totalled about 25. But these deaths began so early in my life that at the time I wasn't old enough to recognise them as being traumatic; and then it became such a repeating pattern that my response really became one of "here we go again!"

However, in more recent years I've come to understand that we choose everything that happens to us before we come, in each separate lifetime; and that each event is a learning opportunity. So I don't see myself as a victim because I now realise that I

chose all of these things. I certainly seem to have set myself a hard path in this particular lifetime, but it's all for the good of my own personal spiritual evolution. And I don't believe that I would have set myself anything that I wasn't able to cope with. So each time I encounter a traumatic event, whether it be personal or some major disaster somewhere in the world, I try to look at it from a higher perspective. At that level it can make sense, and it can teach us all a great deal.

S.M: Some might interpret that answer as you saying that in a previous experience, you chose to endure the distress that you have experienced in this life time. To many, that wouldn't make sense. How do you rationalise that?

K: Oh no. If I'd already endured that type of distress in a previous lifetime I wouldn't need to undergo the same thing again – unless I didn't learn the lessons from it previously :) What I believe is that we make a 'life plan' before we reincarnate each time, and in that plan we include the lessons that we need to experience in order to learn. Some people call it Karma, the 'what goes around comes around' scenario, but I think it's subtler than that. I believe that between each lifetime we not only assess the life just past but also our previous lives. It's then that we decide which areas we want to concentrate on in the next life. We're not compelled to immediately 'repay debts' from the life just gone, but have a choice as to which situations we want to try and learn from in our next life. I can understand how this might not make sense to people, especially those without a belief in reincarnation or, indeed, any knowledge of how it works. Of course I'm not saying that I know how it works, I doubt that any of us really do, just that the idea makes complete sense to me.

It's really about a personal belief system; and some may even call it a coping mechanism. But it's the one that works for me, the one that helps me to make sense of the world, and all the dreadful things that happen in it. That may not be a rational explanation for many people, but I wonder how they might rationalize their own beliefs. If I asked somebody to justify his or her belief in God, for example, what answers do you think I'd get? In many ways it's akin to the 'science or faith' debate. And before your readers start sending you angry emails, yes, I know those two disparate subjects are now becoming much closer! However, I've long been on the side of metaphysics as opposed to pure science.

S.M: Run through what an average day is like for you.

K: I'm afraid my answer to this will be very boring. Being an agoraphobic, with some physical disabilities, I'm currently totally housebound. So I tend to wake somewhere between 6:00 and 7:00 am, and then it takes me a while to get going. I have to sit down to recover from the shock of getting up. Most days I'm at the computer by around 9:00 – unless I feel compelled to do some household chores – and then I have a list of favourite websites that I like to visit every day. I'm a newsaholic, and I like to keep track of what's going on in the world, which, naturally, includes news from the fringes, such as Ufology, Earth Changes, the Paranormal, and related subjects. I'm also fascinated by the whole Planet X topic – although it's such a huge subject that I wouldn't choose to write about it! Depending on what I find I like to share it with friends, after which I take time to answer my emails.

I also have my own website, <http://kithraskrystalkave.org.uk/> so I often update some of the pages with links to the interesting articles I've read during the day. Of course I

don't spend all day on the computer. I take a couple of hour's break for lunch and another hour around teatime. Between those two breaks I often try to do some research for whatever article I might be thinking about writing for *Review*. Then, after a final check on my Inbox, I log off about 6:30 or 7:00 pm to spend the rest of the evening watching TV. Bedtime comes after the news headlines at 10:00 pm and I read a book for at least an hour. I couldn't sleep if I didn't read; it's my way of relaxing at the end of the day. You see, I told you that it would be a very boring answer :)

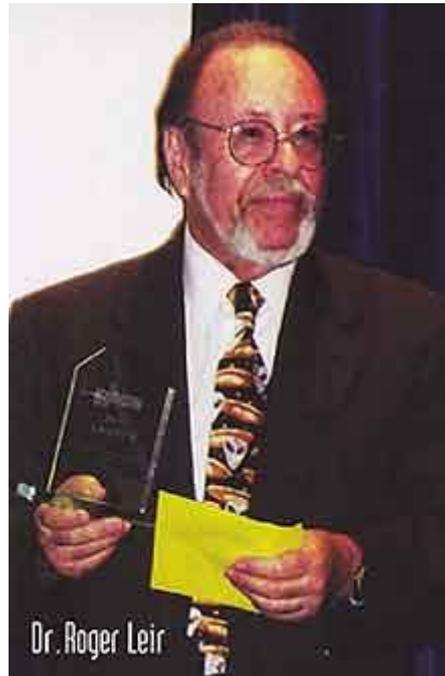
S.M.: Do you have any other interests away from all this madness?

K: Yes and no. As you've just read, most of my day is spent on the computer following my main interests. But away from that I'm very interested in politics, and history, especially British History up until about the middle of the 1700's. And I'm also interested in Alternative History; what a fascinating subject that is. Apart from that I read quite a lot about what many term New Age topics, for example Astrology, Auras, Chakras, Crystals, Tarot Cards, the meaning and use of Colours. Only, as I said in one of my previous answers, I don't consider myself to be part of the New Age Movement. I just have a very enquiring mind, and I believe that the brain needs to be used all the time; otherwise it falls into a state of atrophy in old age. However, my greatest problem is that I read so much information that I have trouble remembering most of it – too many senior moments these days!

S.M: Kithra, thank you.



## Dr Roger Leir interview – The Story of Varginha



The Varginha case from Brazil in 1996 is a funny old thing. Actually it's not; it's quite sinister really, not for the issues brought up in the case, but as a reflection, quite frankly, of how racist Ufology can be.

The case is sensational and yet it has never grabbed the attention of Ufologists in North America and Europe because it's too wild for its own good and relies on the testimony of Brazilians. Brazilians of course can't be trusted because they are uneducated peasants who wouldn't know the truth if it was staring them in the face. In other words, their testimony can't be taken at face value. And Brazil is too far away for a "proper" Ufologist to go and visit because they're all broke and not bright enough anyway to be earning any decent money.

One Yank though has got off his backside and gone down there and had a look but of course, what he gets for his trouble when he gets back is a stone wall slugging off from the experts. A space craft crashes and two aliens are later seen walking around the town? Did they call in to Wal Mart while they were there?

Controversy seems to dog Dr. Roger Leir who came to prominence with his work on the removal of alien implants from abductees. He is the man who went to Brazil and did some digging, and has come back with a pot of gold. Will he be believed?

This interview was recorded on April 18<sup>th</sup> 2005

SM: I'm fascinated by the Varginha case because it seems to be caught between two stools. It's a sensational case, possibly too sensational, and I strongly suspect that because it comes from South America, there is an element of doubt about its veracity in Europe and in North America. How would you answer that point?

RL: Well I think the measuring stick here is Roswell. It's known worldwide, it's known when it took place, lots of newspaper headlines and lots of research which is ongoing. And if you compare the two, that's the place to start. Roswell today is a dying case simply because the witnesses are old and they are dying off at a very rapid rate. There have been numerous amounts of civilian and military testimony in the case as to the crash of some unknown vehicle, possibly two or three crashes around the same time, and the recovery of bodies of which there is some testimony that said that one of them might still have been living.

So the case is on the wane as compared to the Varginha case which is from 1996 and is not that many years ago. There are more witnesses coming forward continually, once again civilian and military. We have most of the emphasis in the Roswell case on a crashed flying saucer and in the Varginha case it wasn't a saucer but a cylindrical craft and there is more emphasis really placed on the beings seen around town and the activities of the military, both the military fire department and the army portion of the military. The fire department in Brazil is a branch of the military government, not like it is here (U.S.). They have civilian jobs that they do; if there's a wild animal they'll catch it or if there's a fire, naturally, or if there's a flood and so on. But they act in a number of different ways. It's against the law for a civilian person to be in a fire department station in Brazil.

So now we have military testimony, civilian testimony, and as I've pointed out in my book, now we have medical testimony as to the treatment of one of these beings at one of the local hospitals in Varginhia. That coupled with the mysterious death of a military police officer and a doctor who recently came forth and told about his death and the circumstances that led up to it.

SM: I read that. Was that because he touched the alien?

RL: Evidently, that's the case. He didn't have his gloves on. Two military police officers saw this being trying to cross the street and stopped and one of them got out and he offered no resistance. He took him into the vehicle and put him on his lap and took him first to a First Aid facility where they could do nothing for him – he was injured – and then finally to the Hospital Regionale which is a fairly decent sized hospital that I visited in Varginha and there he underwent treatment for a fractured leg. The doctor was questioned by me and I asked what condition the being was in when he left with the military escort and he said he was in a satisfactory medical condition. When you say that, that's a very specific thing here in US medical language, whether you're critical or whatever, those are all diagnostic factions specifically designating medical condition.

So when you say he left the hospital in a satisfactory medical condition, it means that he was ambulatory, able to move, had all vital signs present and normal as far as they could tell. Then immediately, from there he was taken to another hospital, Hospital Humanitas and there, as the witnesses said, he went on to somewhere else, died in other words, and was seen being removed in a casket the following morning.

So how many beings were there? There are rumours, 7, 11 beings but in actuality I can only delineate two. One of those beings may have been seen twice, one of the beings that was seen by three girls on the way home from work kneeling by a wall was probably the same being who was captured by the two military police officers because in the distance from where the girls saw the being to where the corner was where this happened was only a couple of blocks away. So some of this may be multiple sightings by individuals seeing the same being in different places.

SM: Do we know what happened to the second alien?

RL: Yes. Everything was taken to a military place called Sergeants Camp. There I believe was a kind of staging point for the bulk of materials and the beings, or what was left of them, and one or two of them were taken from there to the University of St. Paul in Campinas and there, the very famous pathologist Dr. Palaris, he was the one who described the bones of Mengele some years ago, and he was seen there by him and a kind of autopsy was performed. And then the record shows, again by eye witness testimony that everything was taken to St. Paulo and a US military plane picked everything up and took it Lord knows where.

SM: I was going to ask if there was any U.S. interest in this case?

RL: Yes, there was evidently U.S. interest at the start because it was NORAD who had notified the Brazilians that this object was coming down and pin pointed exactly as to where it was going to land. The military was almost already waiting for it to be there and it was a farmer who saw the thing come down, and it actually travelled around for a couple of hours with either smoke or vapour coming out of the backend. There was evidently some damage to it, according to the testimony. Shortly after it impacted the military were there, telling this farmer to get out. But he didn't, he didn't respond as he should have and just went around the corner and watched what was going on.

SM: So both known aliens died?

RL: Yes.

SM: Was the second one killed by the authorities or through his injuries?

RL: That's not really clear either. The second one was captured in a wooded area where shots were heard. Several individuals saw the military going into this wooded area with sacks and carrying two sacks out after the shots were fired. One sack however had movement in it. So we really don't know whether there were two beings, one in each sack that was being carried out by the military or whether it was just one. It's possible that one was injured also being shot.

SM: Do we know what happened to the craft?

RL: Yes. The military brought in a crane. The craft was very heavy, the largest piece was about the size of a Volkswagen bus and the crane loaded it on the back of a flat bed state truck. It was covered in canvas and taken off again to Sergeant's Camp.

SM: Do we know why the UFO came down?

RL: No, no one knows that but from the appearance of it, it certainly looked like something had happened to it. There are those who think that it could have been shot down

SM: Oh really? Oh, I wasn't aware that the US had a policy anymore of attempting to shoot down UFOs.

RL: Well actually it does. Again in the historical record, following Roswell there were a number of cases involving military aircraft who disappeared like the famous Mantell case where there was wreckage all over the ground although they never found him. There are tales of goings on in Europe in the late 1950s about both the Russians and the US shooting at these craft and a policy was then supposedly laid down where they were to follow them and track them but not to shoot at them.

SM: Yes.

RL: But then we had the very famous 1976 Iran case in which there were two chase planes that followed a UFO and the second chase plane chased it and he was ordered by Teheran to shoot it down. There have been lots of cases. Also, what's the Star Wars thing all about? What's all the military stuff that we've got in space? Is it to prevent the Russians or somebody else shooting at us or are they aimed outward?

SM: Well yes, I agree with you. These days you wouldn't think there was much need for an SDI deterrent. What's the U.S. looking at? A possible launch of a nuclear missile from North Korea? Unlikely and I'm sure they could deal with it in plenty of time.

RL: I'm sure they could but all that stuff is still up there and there were certainly many launches when the Shuttle fleet was flying and I understand that about 75% of all those launches were all military.

SM: Do you know if there was any communication possible with the aliens when they were taken into custody? If so, do you know what was said?

RL: The only communication that I know of was when I interviewed this orthopaedic surgeon from Hospital Regionale. He told us that there was an interlude in the operating room when this being downloaded information into his head in what he called knowledge dreams and he said it was like somebody taking a hammer and hitting him over the head with it. It left him with a headache akin to a migraine that lasted for over two weeks.

Naturally I asked him what kind of knowledge did he get? What did he tell you? He said, "Well, the only thing I'm going to tell you is what it told me about Human beings." I said, "Go ahead." And he said, "Well, they feel sorry for Human beings because Humans could do everything they can do, but don't know how to do it. For example", he said, "for its injuries that it had, it would not be necessary to be confined in a facility to repair the injury. Either singularly or joining together, they can repair anything to their bodies. And we could do the same." The other reason they felt sorry for Human beings was quite profound. It was that Humans were totally detached from their spiritual self.

SM: So this doctor is in possession of more information?

RL: Yes. We left with an agreement and good relations. His name will never be divulged and certainly the knowledge that he gave wasn't released in Brazil right away, it took some time. He was terrified. He'd not spoken to anybody since 1996. He was not only terrified of losing his licence or his job but terrified for himself and his family.

SM: Is that why he said no more or was it because he was under specific instructions?

RL: I think that he said no more because the interview took a while, there was a translation that had to occur and he was, at the end of the interview, an emotional wreck. The man sat there in a chair with his head hanging low, tears running down his face and his hands shaking.

SM: So there's not doubt in your mind that he was telling the truth?

RL: None whatsoever. He started the interview with a total disclaimer, saying that everything he was about to tell us was nothing but rumour, he had no specific knowledge etc. etc. and then when we got into the interview, he became more and more and more involved and you could see what he said at the beginning was not true.

SM: Did he describe them physically?

RL: Yes he did. They've been described by the witnesses, and the doctor corroborated the testimony regarding what they looked like. The being was less than four feet tall, had a larger head compared to the size of the rest of the anatomy – certainly larger than the human head, the skin was brownish in colour and it was certainly very oily.

It had an external set of blood vessels which coursed up the shoulders into the neck area but did not go up the neck. These he said looked like varicose veins. He said he didn't know what their purpose was. The eyes were large, slightly oriental in feature and turned up at the ends, red in colour and looking like two pools of liquid. On top of the head there were three bony prominences that went from the front to the back, one on each side and one down the middle. It had no specific ears, the nose was very tiny, only a slight mouth, a tongue. They evidently took an instrument and could pull out the tongue and it was quite elongated and bifurcated.

There were no teeth that were seen and the mouth and the neck were quite thin. The thorax was small, childlike, the arms were very emaciated. There were four fingers no thumb. The four fingers were long and each finger had the ability to articulate with any of the other fingers and therefore it was a perfect mechanical organ, without being able to use the thumb. They didn't know whether it was multi jointed or whether it was composed of cartilaginous material which would have allowed it to do that.

There was no external genitalia seen. The legs were much more muscular, much more enlarged than the other parts of the body. The hands came down to about the lower one third of the thighs. The legs were short and ended in feet. The feet had three toes which were fleshy. No nails and no hair on the toes, or anywhere else on the body for that matter. And there was what he called a prehistoric or vestigial digit which went out, when the foot was in a relaxed state, to about 90 degrees and then when the being was locked he would pull the digit up so it was parallel with the long axis of the foot. On the end of this digit was something that looked like a claw and they had no idea what that was used for.

SM: They breathed oxygen?

RL: They breathed our atmosphere. That was one of the concerns – they didn't know what it was breathing. They didn't do any internal examination. Some of the things on the body he could not recognise. He said sometimes they thought they heard a heartbeat and got a pulse, and at other times they didn't. It had a thorax and seemed to respire. He told me that the bone was similar to our bone and was pink in colour and that it contained large lacuni which were cavities and he compared it to an osteoporotic bone in a human but he said that the bone had a tensile strength that was much, much stronger than human bone.

I asked him about the blood, was it blue, green, yellow, whatever and he said no, it was the same colour as ours. He said the cell structure was very similar to ours with the exception that the platelet count was many, many times higher than ours and that the blood would clot immediately when it came out of the blood vessels. He didn't know if that was due to the increase platelets or whether there was a difference in the atmosphere.

SM: Was any opinion formed as to whether they were derivatives of human beings or that human beings were derivatives of them? In other words, is there any physical connection?

RL: No, actually. All we know is that they were bi-pedal and intelligent beings, evidently in a situation they had not anticipated being, with great control over their physical and mental structure. The same description was given by the three girls, in

less detail, who saw the being kneeling at the wall and by the military also, so now we have a number of witnesses who describe the same thing.

SM: Do we know where they came from?

RL: The doctor might, but he didn't tell us. Certainly the military might but they're not telling us anything.

There were numerous excuses given about what was going on by the military in Varginha and one anecdotal story was about the military officers on this base. They were five days a week officers and usually went home on weekends. By doing this, they had social plans with their wives and families for the weekend.

Well, after this event occurred, a number of wives were out on the town getting their hair done and nails and so on and they were complaini9ng to the beauty operators that, "My husband didn't come home and we were supposed to do this, we were supposed to do that, he didn't show up, the son of a gun, What was he doing? He was out chasing aliens around the countryside!" That's typically Brazilian, the way they look at things. Also, their government, for many years was a kind of jack boot sort of thug government and they were kind of used to it so it would be much harder to intimidate Brazilians than say the witnesses at Roswell.

SM: You said at the very beginning that there were a number of witnesses still coming forward. Why are they taking time to come forward or is it simply because no one's been round to ask them?

RL: Probably all of the above. There's only so many people doing research. Oobajar Rodriguez, who is an attorney in Varginha, was the lead investigator in this case. He's a busy labour attorney and he can't devote all his time to UFOs, although he's been doing it for a number of years. That and the fact that many of the military people are retiring and they retire at a much earlier age in Brazil than they do here (US) and after they retire, I guess they feel they can come forward.

Now to give you an example, I went to the fire department and we were asked to come in with open arms which was an absolute shock because it is a violation of Federal Brazilian law even to take photos of the outside of the fire department. So in we come, we're invited in by the crew and we take photos of them and we took photos of the fire truck that was used in the capture of these beings. Interestingly enough, these guys that were there now were still in contact with the six original individuals that were there in 1996 who, within a few weeks after this incident, were given promotions and taken out of the area. But they are still in contact so there's another six witnesses, who, since I've been down there, I don't know whether they've been interviewed or not.

SM: Have you, in your book, brought anything new to the case or is it more a case of pulling all the facts together and presenting it in North America and Europe?

RL: Well, I did that certainly, and I delineated what were rumours. Now the facts were facts to me and my purpose for going there was not to reiterate the story or to interview witnesses. I mean, I did want to interview the witnesses but I was looking for one elusive piece of physical evidence, something left over from the crash or an X ray or something, which I didn't come back with.

But then people started coming forwards wanting to talk to me, like this doctor who considered me a colleague and not necessarily a UFO researcher, and the wife of the deceased military police officer, who had never come forward before and decided she wanted to talk to me and told me absolutely nothing. Very strange set of

circumstances, so yes, I do also have material in the book that's new because as I said, this physician, Doctor Fortaro, decided he would talk about the treatment of the poor 23 year old military police officer who died within three weeks of being exposed to the being. Marco Eli Cheserez is his name.

SM: Did you get a chance to visit the actual crash site?

RL: Yes, I visited the crash site. I visited all the other sites that were involved with the episode, including the two hospitals.

SM: Is there any evidence at the crash site of something big and large landing there?

RL: No. It's overgrown with the foliage so thick, you couldn't even see the ground. It's an area where you really wouldn't want to go prodding around because there's a few snakes there. Even at the wall where the girls saw the being kneeling, somebody, we don't know who, has constructed a wall on the sidewalk side that had a steel door in it and was locked and you couldn't get in to see where the original wall was. Fortunately, the neighbour next door came out with a giant ring of keys and he had one that fitted the lock and he let us in. So we were able to go back there and actually film where this had happened.

SM: Is it s surprise to you that Varginha hasn't received more attention in North America than it has?

RL: Yes and no. By all means it should have received a lot more attention in ufological circles than it has but it's not surprising that the news media, like everything else, has kept it well subdued. There's been a lot more attention given to Roswell in the last few years because of the Sci Fi Channel but absolutely nothing on Varginhia. The only thing we have in the US is the article that was written in the Wall Street Journal. It says something like, "Sticky Aliens land in Brazil".

SM: What I meant more so was that it doesn't seem to be topical within UFO circles.

RL: That's true. It is now and it's going to be because with my book circulating, AJ Gervard, the editor of UFO magazine in Brazil which incidentally now has been termed the best in the world, we have done one joint presentation already at the UFO Congress. We're going to be doing another one at the Bay Area UFO Expo and soon I'll be doing some radio shows and I also have some television interest in actually going down there and A.J. and I doing an investigation for the cameras.

SM: Did anybody that wasn't in the military manage to take a photo of the two aliens?

RL: Surprisingly no, not that we know of. There was supposed to have been a video tape that somebody had smuggled out of Sergeant's Camp that was in the hands of some teenagers who got caught watching it. They didn't know what it was, their parents were out and they were looking through a porno collection to get a kids kick and have a beer, and they came across the tape and it was a tape of the aliens taken by the military. At one time that tape was offered for sale for \$10,000 and when they showed up with the money, the guy didn't show up with the tape. Yeah, there's probably something, there may even be medical records and X rays that somebody copied or got out of a waste bag or something. It just takes a matter of time to find these things.

SM: Is the impression you've got, if indeed you've formed one on this point, that these aliens were disposed towards human beings in a positive way?

RL: Certainly not in an aggressive way. If they felt sorry for us, they certainly, I don't think, would have any plans to do anything bad. When you just stop back and look at the whole case, it looks like they were in the wrong place at the wrong time.

SM: Dr. Leir, thank you.

Equidistant of the main southeastern State Capitals, Varginha is regional headquarters of the majority of the State and Federal agencies, TV and radio companies and sectors of industry and commerce, mainly related to coffee besides being an important medical and university center. With an active cultural life, it preserves the tranquility of a typical rural city.



Main square, Varginha, Minas Gerais, Brasil

The milk production, reaching four million liters per year, is the main component of the city's economy. The city, considered one of the main cities of the South of Minas Gerais, was one of the first ones to have electric illumination. The primitive nucleus of origin of the city started in 1795, around a chapel built on the road of the Vila de Campanha da Princesa da Beira - today, the city of Campanha. In 1816, the town was named Espirito Santo de Varginha and in 1881, the city of Varginha was created and turned into a municipality in 1882. Varginha was one of the first cities in Minas Gerais to have public illumination, in 1902, and electric

illumination, in 1914. In June, during the Corpus Christi day, the city hosts a Christian Music Festival with participants from all over the Country. It's population is approximately 110,000.

UFO Crash In Brazil will eventually be available in any book store but can be special ordered now through any major book store. The Publisher is Booktree Publishing in San Diego, Ca. The price is \$14.95. Signed copies can be obtained at Dr Leir's web site: [Alienscalpel.com](http://Alienscalpel.com) or they may call him directly at: 805-495-2613 There will be a \$3.50 S&H charge for each order.

## DOCTOR FUN



Unable to secure a grip on the hostile alien's neck, Mister Spock resorts to the effective, but lesser-known Vulcan Nut Kick.

UFO Review is pleased to be publishing a paper that most of you will be completely unable to read. You're in good company. But Roger Anderton is very excited about this and for those for whom it makes sense, **Roger would appreciate as much feedback as possible.** His contact address is below as well as a short introduction by him.

In simple layman's terms, this paper demonstrates that NASA as well as other agencies knew full well as far back as the sixties that Life exists elsewhere other than on Earth. They knew this the best way they possibly could; through science.

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I am trying to publicise some very important scientific work concerning the *Origins of life*.

The basic theory of the Paper is that during the early stages of the Earth-- radiation from the Sun initiated the biochemical life processes of life, and after time this radiation was blocked by various filters that formed around the earth (such as ozone layer, Van Allen belt etc.).

There are numerous consequences such as:

1. This radiation can cause cancer; the radiation initiated life processes; but if creatures are subjected to this radiation it can kill.
2. Life throughout the universe is ubiquitous. i.e. life exists not just on the earth.

I am acting on behalf of Dr James Watson - who has found that a Professor Leo Baranski wrote a paper called "The Quantum Mechanisms of Pyrophosphate (ATP) and their postulated role in rise of life". Baranski (now deceased) wrote this paper during his employment as Senior Scientist with North American Aviation, Inc., Los Angeles, California from 1962 to 1964, in cooperation with N.A.S.A. the U.S.A.F and U.S. Naval Research Laboratory in his Bio-Physics R. & D. for the "Man in Space Program".

The Paper was not allowed to be widely circulated at the time of its publication.

Baranski was working from Einstein's Unified Field Theory. Baranski actually performed the experiments to determine what were the relevant frequencies of this radiation, and this information must have been used to protect the Apollo astronauts.

Roger Anderton

[R.J.Anderton@btinternet.com](mailto:R.J.Anderton@btinternet.com)

# "The Quantum Mechanisms of Pyrophosphate (ATP) and Their Postulated Role in the Rise of Life".

Leo J. Baranski, Ph.D.

## FOREWORD:

An unclassified, personal document written on his own time, culminating his life's work, and dedicated to his research and development using the Unified Field Theory, outlined by his mentor Dr. Albert Einstein while at Princeton University and the work of his close friend Dr. Lancelot Law Whyte who had also worked with Einstein at the Planck Institute.

This "White Paper", was written during his employment as Senior Scientist with North American Aviation, Inc., Los Angeles, California from 1962 to 1964, in cooperation with N.A.S.A. the U.S.A.F and U.S. Naval Research Laboratory in his Bio-Physics R. & D. for the "Man in Space Program".

This great work was Validated and Documented by C. Susskins (ED.) "Proceedings of the 3<sup>rd</sup> Annual Tri-Service Conference on Biological effects of Microwave Radiating Equipment", New York, Rome Development Center, Griffis Air Force Base, RADC-TR-58-14, August 1959, by Bach, S., Baldwin, M. and Lewis, S., "Some effects of Ultra-High Frequency Energy on Primate Activity". (see ref. #33).

Dr. James Watson  
Los Angeles, CA., USA  
01/06/2003

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## The Quantum Mechanisms of Pyrophosphate (ATP) and Their Postulated Role in the Rise of Life

Leo J. Baranski

North American Aviation, Inc., Los Angeles Division

### A. Introduction

In 1938, A. I. Oparin published, and subsequently revised in a second and third edition (1953 and 1957, respectively), his now classic book Origin of Life, which forms the basis for currently held views concerning the rise of life on earth (1,2,3). In these

works, Oparin, relating data and theory from astrophysics, geochemistry, geophysics, paleontology, biochemistry, and physical and colloidal chemistry, puts forth the hypothesis that the appearance of life of this planet was preceded by a gradual and long evolution of carbon and nitrogen ionic, atomic, molecular and colloidal complexity which can be traced to its inception on the hottest and, hence, the youngest stars of our galaxy. This view points out that the evolving complexity of carbon and nitrogen led to complex mixtures of amino acids and other organic compounds (which are now accepted as having been present in the primary hydro-sphere). Out of these pools of complex mixtures gradually emerged proteins, which evolved into colloids (possessing living properties) with thermal and/or chemical energy as the organizing mechanism.

In 1951, H.F. Blum in his Time's Arrow and Evolution (4) fixed attention on the adenylic acid pyrophosphate system as playing a major role in the rise of life by pointing out that a means of free energy transport (such as mediated exclusively in living systems by ATP) underlay the property of reproduction. Blum also pointed out that the nucleic acid structure (of DNA) stemmed originally from that of adenylic acid so that nucleoproteins may have been the first types of protein to be synthesized. Blum would therefore add nucleotides to the amino acids postulated by Oparin as the basic constituents of life present in the primordial hydrosphere.

The major remaining problems in the elucidation of the mechanisms underlying the rise of life concern the general mechanisms of catabolism and catalysis, and especially those utilized by the first life. That the pyrophosphate system was basically involved in the first catabolism appears to be established beyond doubt. But what else is involved as basic essentials of catabolistic and catalytic systems? Moreover, how did catabolism and catalysis begin and how was the primordial catabolic source continuously maintained?

After a thorough study of the catabolistic system and photosynthesis, this writer has come to the conclusion that only two chemical species are basically involved in catabolism: atomic hydrogen and phosphate. Further, contrary to the almost universal assumption that the first viable entity utilized chemical and/or thermal means to convey free energy to the pyro-phosphate system, this writer maintains that the implications of the catabolic and photosynthesis processes, and especially the quantum characteristics of atomic hydrogen and phosphate, make it a more likely possibility that life used electromagnetic energy in its catabolism from the very beginning and long before photosynthesis as we know it today was developed. It is the purpose of this paper to support these views.

## B. **Micro-Evolution in the Primary Atmosphere and Hydrosphere** (3,5,6)

Utilizing the Harvard classification of stars, Oparin pointed out that in the hottest stars of the ultraviolet type, with surface temperatures of approximately 50,000° C., the elements carbon,

hydrogen and nitrogen are present largely in the ionized state. In the bluish-white or B-type stars, with temperatures from 20,000° to 15,000° C., atomic carbon, atomic hydrogen and atomic nitrogen appear. In the A-type or white stars, with surface temperatures of 8,000° C., di-carbon molecules (C<sub>2</sub>), hydrocarbons and cyanogen (CN) are found. In still cooler stars, M and N types, with surface temperatures of 4,000° and 2,000° C., more complex carbon and nitrogen molecules and molecular hydrogen are found. Note the increasing structural complexity—ionic, atomic, and molecular—of carbon, nitrogen and hydrogen with the descending magnitude of thermal energy.

By extrapolating the above structural evolution and meshing it with the widely-held hypothesis that the earth was, in its primordial state, molten throughout and expelling much of its volatile material to form a dense primitive atmosphere, one arrives at the likely hypothesis that the process of structural evolution of carbon, nitrogen and hydrogen continued in the primary atmosphere of the nascent earth—the mechanism again being the progressively descending magnitude of thermal energy. A plausible explanation of the origin of the primary atmosphere then may be that, as the molten earth began to cool, carbon dissolved in the molten interior of the earth (3,000-4,000° C.) and formed metallic carbides such as iron carbides. As the earth cooled further, the tremendous heat, pressures, and convection currents engendered by the compression and radioactive processes in the earth's interior caused almost constant eruptions of this magma to the earth's surface, bringing the metal carbides into contact with the superheated gaseous water of the atmosphere. Hydrocarbons would thus be formed in quantity. At temperatures around 1450° C., Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub> and SiO<sub>2</sub> (erupting to the surface of the earth) formed P<sub>2</sub>O<sub>5</sub>. The P<sub>2</sub>O<sub>5</sub> and the hydrocarbons and the halogen chlorine reacted in the atmosphere to produce PH<sub>3</sub>, PCl<sub>3</sub> and a large variety of organophosphorus compounds. (PCl<sub>3</sub> is regarded as the parent compound of all organophosphorous compounds such as found in adenine mononucleotide, AMP, which is the precursor of ADP and ATP.) At lower temperatures, around 1,000° C., the hydrocarbons would exist as free radicals—e.g., methene (CH) and methylene (CH<sub>2</sub>)—from which unsaturated hydrocarbons such as acetylene (C ≡ C) are formed.

The earth's molten interior likewise contained compounds of nitrogen with iron and other metals, the nitrides. When these nitrides erupted to the surface as part of the magma, they reacted with the gaseous water to form NH<sub>3</sub>, which even now (along with methane) is an important constituent of the atmospheres of planets far distant from the sun: Jupiter, Saturn, Uranus, and Neptune<sup>1</sup>. Then the unsaturated hydrocarbons, such as acetylene, reacted with this ammonia to form compounds such as aldehydeammonia, cyanogen (C≡N)<sub>2</sub>, hydrocyanic acid (HC≡N), and adenine (C<sub>5</sub>N<sub>5</sub>H<sub>5</sub> or 5HCN), the adenine reacting with the organophosphates to form traces of AMP, ADP, ATP, etc.<sup>2</sup>

With sufficient cooling of the earth's surface, the critical temperature of water (374° K.) was subsequently reached. Above this temperature no amount of pressure could form water vapor

from the gaseous  $\text{H}_2\text{O}$ . At this temperature, however, the tremendous pressures then existent in the earth and in the primary atmosphere (which was firmly held by gravitational attraction) could finally cause the formation of water vapor. This condensation began far out in space and subsequently, with further cooling of the earth's surface, the condensed vapor reached the surface of the earth, deluging it for prolonged periods and leading to the formation of deep primary pools over the earth's volcanic surface. In the primary atmosphere the unsaturated hydrocarbons took on water and formed saturated hydrocarbons. Any residual  $\text{P}_2\text{O}_5$  in the atmosphere reacted violently with the water vapor to form  $\text{H}_3\text{PO}_4$ . There was now present in the water-saturated atmosphere, in the rain, and hence, subsequently in primary volcanic pools, a complex solution of free hydrogen, halogens,  $\text{H}_2\text{S}$  and other sulfur compounds, hydrocarbon radicals, unsaturated hydrocarbons, saturated hydrocarbons, organophosphates and  $\text{H}_3\text{PO}_4$ , ammonia, cyanogen,  $\text{HCN}$  and other nitrogen-containing compounds, etc. From these were formed in the primary atmosphere and in the primary volcanic pools—due to electric discharge, solar radiation between 300 and 30,000 Å, and cosmic radiation—alcohols, organic acids, aldehydes, amines, amino acids, and other species of carbon, nitrogen, phosphorous, sulfur, and halogen compounds.<sup>3</sup> (That amino acids are produced from a primary atmosphere of  $\text{H}_2\text{O}$ ,  $\text{CH}_4$ ,  $\text{NH}_3$ , and  $\text{H}_2$  by these three separate methods—electric discharge, solar radiation, cosmic radiation—has been experimentally demonstrated.)

Subsequently (primarily due to the catalytic presence of water vapor),  $\text{NH}_3$ ,  $\text{CH}_4$  and  $\text{H}_2\text{O}$  were photodissociated to  $\text{N}_2$ ,  $\text{CO}_2$ , more  $\text{H}_2$ , and small quantities of  $\text{O}_2$ —some of which was further dissociated to  $\text{O}_3$ —which combined with residual  $\text{H}_2\text{S}$  and halogens from the primary atmosphere to yield part of the secondary atmosphere. (The  $\text{H}_2$  and  $\text{H}$  in the present atmosphere are due to the continual dissociation of  $\text{H}_2\text{O}$ ; the  $\text{H}_2$  and  $\text{H}$  of the primary atmosphere were lost due to their escape from the earth's gravitational field; the  $\text{O}_2$  now present in the atmosphere is mainly a by-product of photosynthesis; the  $\text{CH}_4$  now present is due to the decay to organic matter.)

The organic solution mentioned is postulated to have been present in the primary volcanic pools, in addition to traces of many metals. Most of the  $\text{H}_2\text{O}$  that was to form the secondary oceans of the present was to come from the gradual degassing of the earth's interior during the course of geologic time, which process also contributed materially to the formation of the secondary atmosphere.<sup>4</sup> On this hypothesis the primary pools of approximately 4.8 billion years ago would have possessed a pH of between 4 and 5, with the acidity decreasing as bases came into solution during the course of geologic erosion (6). The water resulting from the degassing of the earth's interior decomposed rock silicates ( $\text{CaSiO}_3$ ) and quartz ( $\text{SiO}_2$ ), which would mean 1) that the concentration of  $\text{CO}_2$  in the atmosphere must have remained very low at all times and 2) that deep below in the Mg-Fe igneous crust of the once nascent earth there remains to be discovered a thin layer consisting primarily of organophosphate deposits, the "fossil remains" of primordial life.

## **The Quantum Mechanisms Underlying the Source of Phosphate's Energy and the Origin of Pyrophosphate's Enzyme Catalyst**

The two major problems remaining in accounting for the rise of life on earth are 1) to account for a continuous source of phosphate energy possible under the conditions of a primitive earth and 2) to delineate a plausible mechanism underlying the synthesis of the first polypeptide (enzyme) with catalytic activity. In solutions to the problem of a continuous energy source, the assumption is universally made that the aboriginal living entity was heterotrophic and thus utilized chemical and/or thermal energy. Solutions to the origin of the first polypeptide with catalytic activity, on the other hand, have involved autocatalytic hypotheses, following N. H. Horowitz (9). For Blum (4), the autocatalytic process was due to spontaneous polymerization of amino acids into long polypeptide chains in dried-up pools which once contained amino acids. Bernal (10) had previously offered essentially the same hypothesis but placed the process on the surface of hydrated clay particles. Pringle (11) has suggested branching chain reactions that produced long chains of peptide-linked amino acids much like the processes that are observed in ordinary inorganic and organic laboratory synthesis. Calvin and others (12) have suggested versions of Langmuir's divergence-convergence crystallization hypothesis to explain the origin of the first enzyme.

The postulate of the present paper is that both the aboriginal energy source and the catalyst of phosphate and pyrophosphate were electromagnetic in nature. In order to set the basic problems under consideration in the perspective of the present postulate, consideration must be given to mechanisms of photosynthesis and catabolism, with emphasis on their bioenergetics.

### **1. Photosynthesis and Catabolism: General Characteristics**

In Photosynthesis, energy is stored in carbohydrate in the form of activated hydrogen; in catabolism, it is this activated hydrogen of carbohydrate that is progressively divested of its energy to form pyrophosphate ( $\sim\text{PO}_4$ ).

In photosynthesis, chlorophyll a absorbs electromagnetic energy between 4000 and 6800 Å; other photons absorbed by various pigments are transferred to chlorophyll a. When an orbital electron of chlorophyll a absorbs a photon, the acquired energy and momentum of the electron results in its expulsion into, and its attraction by, cytochrome f (13). From the cytochrome system, the energy passes---very likely in the form of electromagnetic energy---to an intermediate carrier system

which is likely the pyrophosphate system, acetyl~PO<sub>4</sub> possibly serving as the initial pyrophosphate carrier. Since photosynthesis and catabolism are highly similar but reverse in their operations, the next step might be the entrance of acetyl~PO<sub>4</sub>, H<sub>2</sub>) and CO<sub>2</sub> into a "hydrogen activation" cycle (analogous but reverse to the "hydrogen deactivation" principle of the Krebs cycle). The functions of this cycle would be to split H<sub>2</sub>O, to form activated H (designated by H\*), and to hydrogenate CO<sub>2</sub> with H\*. The end product would be O<sub>2</sub>, inorganic phosphate and ATP (the latter also being a by-product of the catalytic activity of the cytochrome system).

The next major step might be the reduction of TPN by H\* forming TPNH\*<sub>2</sub>. TPNH\*<sub>2</sub> then might enter reactions with 1,3-diphosphoglyceric acid, both taking part in the synthesis of triose into carbohydrate in a manner analogous to, but the reverse of, glycogen catabolism.

In catabolism, H\* is first made available by the enzymatic breakdown of glycogen or glucose into triose. In the ~PO<sub>4</sub> producing steps of glycolysis, a triose molecule is first phosphorylated with ortho ("inorganic") phosphate. Triose is then dehydrogenated by DPN. The dehydrogenation process produces quantum potential drops in the H\* that are being removed, the electromagnetic energy being transferred to orthophosphate (on the triose molecule) which is transformed into pyrophosphate. The triose is then dephosphorylated, the pyrophosphate being transferred to ADP to form ATP. ATP in turn is either directly attached to, or situated in the very near vicinity of, the various biochemical transformers in the living organism. After glycolysis, the Krebs tri-carboxylic acid cycle comes into play and produces the greatest proportion of ~PO<sub>4</sub> for ADP. After the Krebs cycle, the respiratory cytochrome system comes into play which produces more ~PO<sub>4</sub> and which in the process passes spent electrons to H ions; these then combine with inactive O<sub>2</sub> to form water.

In photosynthesis, the basic bioenergetic steps are the splitting of H<sub>2</sub>O into and the transfer of high energy quanta from pyrophosphate to H<sub>2</sub> of H<sub>2</sub>O to form H\*. In catabolism, the basic bioenergetic steps are the transfer of high-energied quanta from H\* to orthophosphate to form pyrophosphate and the synthesis of water. In both cases, the pyrophosphate system is the carrier of energy to or away from hydrogen.

Thus, the phosphate system is a universal means for transporting quanta to H<sub>2</sub> of H<sub>2</sub>O to form carbohydrates and for transporting quanta from H\* to form ~PO<sub>4</sub> (14). From this, it would follow that the phosphate system and hydrogen most probably were linked together as the basis of catabolism from the earliest beginnings of life on the

earth. This link between the phosphate system and H, plus the maintenance of this link and its elaboration throughout the incredibly long span encompassing the rise of life and the evolution of the species, suggests that H and PO<sub>4</sub> must have some primary property in common. This primary common property, if uncovered, might yield a major insight as to how life began in the primary pools of nascent earth. The close relationship between hydrogen and the phosphate system in photosynthesis and catabolism suggests that the property held in common by these two species is a common quantum (photon) wavelength which permitted the two species to exchange photons. If this is the case, then pyrophosphate must deliver photons of specific wavelength to H<sub>2</sub> to form H\* in photosynthesis and H\* must deliver photons of the same specific wavelength to ortho-phosphate to form ~PO<sub>4</sub> in catabolism.

## 2. Principles of Quantum Theory Relevant to Physio- and Bio-chemical Processes (15, 16, 17)

The failure of classical electro-dynamics to account for the spectral distribution of black body radiation on the basis of a "continuous emission of radiation" concept led Max Planck in 1901 to discard this concept and forward instead the hypothesis that black bodies radiate energy not continuously but discontinuously in energy packets, called quanta, given by the relation:

$$E = hv^{-1}, \quad (1)$$

where E is the energy in ergs of the quantum absorbed or emitted (by a resonator electron of an atom or molecule of the black body radiator),  $hv^{-1}$  is the frequency of the resonator electron and of the resonant quantum absorbed or emitted, and h (Planck's constant, empirically determined), is equal to  $6.62517 \times 10^{-27}$  erg-sec. Equation (1) is the fundamental relation of the quantum theory of radiation. Planck further postulated that the resonator electron of an atom or a molecule could either absorb or emit energy in the unit quantum:

$$E_1 = hv_1^{-1} \quad (2)$$

or in whole number multiples, n, thereof:

$$E_n = nhv_1^{-1}. \quad (3)$$

Planck's success with the quantization of black body radiation led Albert Einstein to generalize the quantum theory on the basis of evidence existing in the newly discovered photoelectric effect. In the photoelectric effect, Einstein pointed out, one quantum of ultraviolet light brings about the ejection of one electron from a radiated

surface (due to the phenomenon of resonance absorption by an electron), the exchange of energy taking place in terms of Planck's  $h\nu$ . Einstein then generalized Planck's quantum theory by asserting that all electromagnetic energy of the whole electromagnetic spectrum is quantized, and not only that of black body (infrared) radiation. Thus, electromagnetic energy of all bands of the electromagnetic spectrum is absorbed, emitted, or exchanged by atoms and molecules in terms of Planck's discrete quanta (5).

Another extension of Planck's quantum theory, developed by Bohr and others, was that an atom or molecule has a set of discrete energy states in which an electron possesses a definite and invariable energy content independent of thermal energy. The set of permitted energy states of an electron is usually referred to as "energy levels". The energy levels in turn are designated by "n", which may take on any series of value 1, 2, 3, . . ., known as principal quantum numbers. There are three sub-energy levels (which are designated by quantum numbers l, m and s), due to the fact that the energy of an electron may be spread over a major orbital, sub-orbital, sub-sub-orbital and taken up in the spin of the electron. The principal quantum number, n, therefore, represents the major energy level to which an electron of an atom or molecule belongs. An electron thus can be at one or another major energy level within an atom or a molecule, but it may not acquire energy values intermediate to those of the major energy levels.

The means by which an atom or molecule acquires or loses (electronic) energy is by an electron absorbing or emitting a photon. The absorption of a photon forces the electron (and hence the atom or molecule) into one of its higher major energy levels; thus the atom or molecule gains energy. If the electron emits a photon by "relaxing" to one of its lower major energy levels, the atom or molecule loses energy. The energy lost or gained by an atom or molecule thus results from a loss or gain of a photon, which has an energy value represented by the energy difference of the two major energy levels the electron has spanned. Thus, if  $\Delta E$  represents the gain of energy by an atom or a molecule due to the absorption of a photon which forces one of their electrons from energy level  $n = 2$  to energy level  $n = 1$ , the gain in energy may be expressed as follows:

$$\Delta E = n_1 - n_2 = h\nu^{-1}. \quad (4)$$

The spacing of the major electronic energy levels is equal to  $1/n^2$ , which means that the energy content of an atom's or molecule's major energy levels is proportional to  $1/n^2$  and that the energy content of the various major levels will decrease according to the inverse of the square of the principal quantum numbers. Thus, if the energy content is known for the highest major electronic energy level of an atom or molecule,

this would be  $n = 1$ . The energy content of the next lower major energy level ( $n = 2$ ) would be  $\frac{1}{4}$  the energy content of the highest level; the next lower,  $\frac{1}{9}$  of the energy content at  $n = 1$ ; etc.

It follows from Pauli's exclusion principle, which states that no two electrons in an atom or molecule may have all four quantum numbers the same, that an atom or molecule will possess one electron that has a higher energy level than any other electron in the particular atom or molecule. When this electron absorbs an additional photon, certain dissociation phenomena must occur. This fact and equations (2) and (3) imply that an atom's or molecule's major energy levels are circumscribed by an upper and lower limiting energy level. Using ATP as an example, the upper limiting energy level would be that of the delabilization (dissociation) energy of ATP and the lower limiting energy level would be that energy involved with ATP at its unit frequency. This permits the determination (by calculation) of the energy content of the highest major energy level of an atom or molecule from the observed spectrographic dissociation frequency and, hence, from the dissociation energy ( $D_s$ ) of an atom or molecule. The dissociation energy,  $D_s$ , in ergs per molecule or atom may be calculated from the dissociation wavelength or frequency by the application of equation (1), where  $\nu^{-1}$  is now the dissociation frequency and  $E$  the dissociation energy in ergs per molecule or atom. If  $D_s$  is desired in  $\text{cal mol}^{-1}$  of the substance, the formula for an einstein may be employed:

$$\epsilon = \frac{h \times N \times c}{(\nu \times 10^{-8}) (4.186 \times 10^7)} \quad , \quad (5)$$

where  $D_s$  in  $\text{cal mol}^{-1}$  of the substance is:

$$D_s \text{ cal mol}^{-1} = \epsilon = \frac{h \times N \times c}{(\nu \times 10^{-8}) (4.186 \times 10^7)} \quad , \quad (6)$$

where  $h$  is Planck's constant,  $N$  is Avogadro's number,  $c$  is the velocity of light in  $\text{cms sec}^{-1}$ ,  $\nu$  is the wavelength of the absorbed light in  $\text{cms}$  (and  $\nu \times 10^{-8}$  the same expressed in Angstroms),  $4.186 \times 10^7$  is the number of ergs in one calorie,  $\epsilon$  is the quantum energy absorbed in  $\text{cal mol}^{-1}$  of the substance, and  $D_s \text{ cal mol}^{-1}$  is the dissociation energy of the substance in calories per gram molecular weight of the dissociated substance.<sup>5</sup>

### 3. Quantum Energy Levels and Photon Energies of Atomic Hydrogen and Phosphate.

The calculated major energy levels in atomic hydrogen and in phosphate and their related photon energies are as follows. For phosphate, the dissociation energy is the

delabilization energy of phosphate. In 1950, the delabilization wavelength of the pyrophosphate of ATP was determined as 2600 Å (18). Pyrophosphate's dissociation frequency ( $\nu^{-1}$ ) and dissociation energy ( $D_s$ ) in  $\text{ca1 mol}^{-1}$  follow:

$$\begin{aligned} \nu \text{ of } D_s \text{ } \overset{6}{\sim} \text{PO}_4 &= 2600 \text{ \AA} , \\ &= 2.6 \times 10^{-5} \text{ cm} , \quad (7) \end{aligned}$$

$$\nu^{-1} \text{ of } D_s = \frac{c}{\nu} \text{ } \overset{6}{\sim} \text{PO}_4 \quad (8)$$

$$\begin{aligned} &= \frac{2.99793 \times 10^{10}}{2.6 \times 10^{-5}} \\ &= 1.15305 \times 10^{15} \text{ cps.} \quad (9) \end{aligned}$$

Applying equations (5), (6) and (7):

$$\begin{aligned} D_s \text{ of } \text{PO}_4 = E &= \frac{(6.62517 \times 10^{-27}) (6.02486 \times 10^{23}) (2.99793 \times 10^{10})}{(2.6 \times 10^{-5} \times 10^{-8}) (4.186 \times 10^7)} \\ &= 109,949 \text{ ca1 mol}^{-1} . \quad (10) \end{aligned}$$

The delabilization of pyrophosphate (and hence of phosphate) as given by equation (10) is  $D_s = 109,949 \text{ ca1 mol}^{-1}$ . Thus, for pyrophosphate, at  $n = 1$ , the energy content is  $109,949 \text{ ca1 mol}^{-1}$ . The energy contents and photon energies for some of the major energy levels of pyrophosphate and phosphate are given in Table I.

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Insert Table I here  
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The dissociation energy for atomic H would be equivalent to its ionization potential. The ionization potential for atomic H is 13,60 eV (20) which is equal to  $313,189 \text{ ca1 mol}^{-1}$ . The energy contents and photon energies for some of the major energy levels of atomic H are given in Table II.

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Insert Table II here  
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Table I. Energy Contents and Photon Energies of Major Energy Levels of Pyrophosphate and Phosphate

| Molecule         | Energy Level | Energy Content (ca1 mo1 <sup>-1</sup> ) | Energy of Photon Emitted in "Relaxing"      |                                       |   |                          |
|------------------|--------------|---|---|---------------------------------------|---|--------------------------|
|                  |              |   | Level of Photon                             | Levels Spanned                        | Energy of Photon (ca1 mo1 <sup>-1</sup> ) |                          |
| ~PO <sub>4</sub> | n = 1        | 109,949                                 | (no higher)                                 | level from which to                   | "relax"                                   |                          |
| ~PO <sub>4</sub> | n = 2        | 27,487<br>(1/4 of n = 1)                | hv <sub>1</sub> <sup>-1</sup><br>(energy of | 109,949 - 27,487<br>photon "relaxing" | 82,462<br>from n=1 to<br>n=2)             |                          |
| ~PO <sub>4</sub> | n = 3        | 12,217                                  | 7   | hv <sub>2</sub> <sup>-1</sup>         | 27,487 - 12,217                           | 15,270                   |
| PO <sub>4</sub>  | n = 4        | 6,872                                   | 8   | hv <sub>3</sub> <sup>-1</sup>         | 12,217 - 6,872                            | 5,345                    |
| PO <sub>4</sub>  | n = 5        | 4,398                                   |   | hv <sub>4</sub> <sup>-1</sup>         | 6,872 - 4,398                             | 2,474                    |
| PO <sub>4</sub>  | n = 6        | 3,054                                   |   | hv <sub>5</sub> <sup>-1</sup>         | 4,398 - 3,054                             | 1,344                    |
| PO <sub>4</sub>  | n = 7        | 2,444                                   |   | hv <sub>6</sub> <sup>-1</sup>         | 3,054 - 2,244                             | 810                      |
| PO <sub>4</sub>  | n = 8        | 1,718                                   |   | hv <sub>7</sub> <sup>-1</sup>         | 2,244 - 1,718                             | 526                      |
| PO <sub>4</sub>  | n = 9        | 1,357                                   |   | hv <sub>8</sub> <sup>-1</sup>         | 1,718 - 1,357                             | 361                      |
| PO <sub>4</sub>  | n = 10       | 1,100                                   |   | hv <sub>9</sub> <sup>-1</sup>         | 1,357 - 1,100                             | 257                      |
| PO <sub>4</sub>  | n = 11       | 909                                     |   | hv <sub>10</sub> <sup>-1</sup>        | 1,100 - 909                               | 191                      |
| PO <sub>4</sub>  | n = 12       | 764                                     |   | hv <sub>11</sub> <sup>-1</sup>        | 909 - 764                                 | 145                      |
| PO <sub>4</sub>  | n = 13       | 651                                     |   | hv <sub>12</sub> <sup>-1</sup>        | 764 - 651                                 | 113                      |
| PO <sub>4</sub>  | n = 14       | 561                                     |   | hv <sub>13</sub> <sup>-1</sup>        | 651 - 561                                 | 90                       |
| PO <sub>4</sub>  | n = 15       | 489                                     |   | hv <sub>14</sub> <sup>-1</sup>        | 561 - 489                                 | 72                       |
| PO <sub>4</sub>  | n = 16       | 430                                     |   | hv <sub>15</sub> <sup>-1</sup>        | 489 - 430                                 | 59                       |
| PO <sub>4</sub>  | n = 17       | 381                                     |   | hv <sub>16</sub> <sup>-1</sup>        | 430 - 381                                 | 49                       |
| PO <sub>4</sub>  | n = 18       | 339                                     |   | hv <sub>17</sub> <sup>-1</sup>        | 381 - 339                                 | 42                       |
| PO <sub>4</sub>  | ---          | -----                                   | -----                                       | -----                                 | -----                                     | -----                    |
| PO <sub>4</sub>  | n = 50       | 44                                      |   | hv <sub>49</sub> <sup>-1</sup>        | 46 - 44                                   | 2                        |
| PO <sub>4</sub>  | ---          | -----                                   | -----                                       | -----                                 | -----                                     | -----                    |
| PO <sub>4</sub>  | n = 1733     | 3.667 x 10 <sup>-2</sup>                |   | hv <sub>1732</sub> <sup>-1</sup>      | -----                                     | 3.667 x 10 <sup>-2</sup> |

Table II. Energy Contents and Photon Energies of Major Energy Levels of Atomic Hydrogen

| Molecule | Energy Level | Energy Content (ca1 mo1 <sup>-1</sup> ) | Energy of Photon Emitted in "Relaxing" |                               |   |        |
|----------|--------------|---|--|-------------------------------|---|--------|
|          |              |   | Level of Photon                        | Levels Spanned                | Energy of Photon (ca1 mo1 <sup>-1</sup> ) |        |
| H        | n = 1        | 313,189                                 | (no higher)                            | level from which to           | "relax"                                   |        |
| H        | n = 2        | 78,297                                  | hv <sub>1</sub> <sup>-1</sup>          | 313,189 - 78,297              | 234,892                                   |        |
| H        | n = 3        | 34,799                                  | 7                                      | hv <sub>2</sub> <sup>-1</sup> | 78,297 - 34,799                           | 43,498 |
| H        | n = 4        | 19,574                                  | 8                                      | hv <sub>3</sub> <sup>-1</sup> | 34,799 - 19,574                           | 15,225 |
| H        | n = 5        | 12,528                                  |  | hv <sub>4</sub> <sup>-1</sup> | 19,574 - 12,528                           | 7,046  |
| H        | n = 6        | 8,700                                   |  | hv <sub>5</sub> <sup>-1</sup> | 12,528 - 8,700                            | 3,828  |
| H        | n = 7        | 6,392                                   |  | hv <sub>6</sub> <sup>-1</sup> | 8,700 - 6,392                             | 2,308  |
| H        | n = 8        | 4,894                                   |  | hv <sub>7</sub> <sup>-1</sup> | 6,392 - 4,894                             | 1,498  |
| H        | n = 9        | 3,867                                   |  | hv <sub>8</sub> <sup>-1</sup> | 4,894 - 3,867                             | 1,027  |
| H        | n = 10       | 3,132                                   |  | hv <sub>9</sub> <sup>-1</sup> | 3,867 - 3,132                             | 735    |

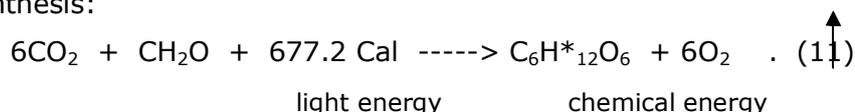
|   |        |        |                    |               |        |
|---|--------|--------|--------------------|---------------|--------|
| H | n = 11 | 2,588  | $h\nu_{10}^{-1}$   | 3,132 - 2,588 | 544    |
| H | n = 12 | 2,175  | $h\nu_{11}^{-1}$   | 2,588 - 2,175 | 413    |
| H | n = 13 | 1,853  | $h\nu_{12}^{-1}$   | 2,175 - 1,853 | 322    |
| H | n = 14 | 1,598  | $h\nu_{13}^{-1}$   | 1,853 - 1,598 | 255    |
| H | n = 15 | 1,392  | $h\nu_{14}^{-1}$   | 1,598 - 1,392 | 206    |
| H | n = 16 | 1,223  | $h\nu_{15}^{-1}$   | 1,392 - 1,223 | 169    |
| H | n = 17 | 1,084  | $h\nu_{16}^{-1}$   | 1,223 - 1,084 | 139    |
| H | ---    | ----   | -----              | -----         | -----  |
| H | n = 40 | 195    | $h\nu_{39}^{-1}$   | -----         | -----  |
| H | ---    | -----  | -----              | -----         | -----  |
| H | n = 50 | 125    | $h\nu_{49}^{-1}$   | -----         | -----  |
| H | ---    | -----  | -----              | -----         | -----  |
| H | n=1514 | 0.1361 | $h\nu_{1513}^{-1}$ | -----         | 0.1361 |

### 3. Photosynthesis and Catabolism: Bioenergetics

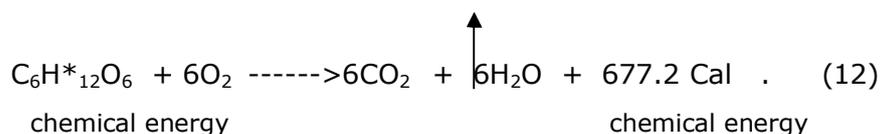
The quantum energy levels and photon energies of atomic hydrogen and phosphate permit clarification of the confused picture of photosynthesis and catabolism and indicate that the phosphate system and hydrogen were linked together as the basis of catabolism from the earliest beginning of life on earth.

The extensively quoted overall formulas and bioenergetics of photosynthesis and catabolism (which—by implication of the formulas—are reversible processes) appear as follows (21):

For photosynthesis:

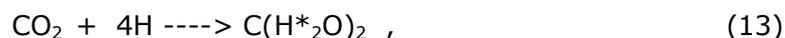


For respiration:



From (11) and (12) it is apparent that one mole of glucose has 12 H\* and that each H\* possesses 677,200/12 or 56,433 cal mol<sup>-1</sup>.

An eminent authority in photosynthesis states the primary reaction of photosynthesis as follows (22):



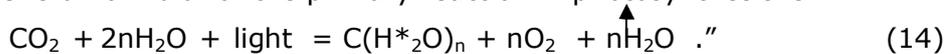
and puts forth the following energetics in relation to (13):

"To reduce (hydrogenate) a molecule of carbon dioxide to the 'reduction level' of sugar, four hydrogen atoms must be transferred to the molecule C(H\*<sub>2</sub>O)<sub>2</sub> . . . .To move these hydrogen atoms 'uphill' from water to carbon dioxide, each of the four atoms

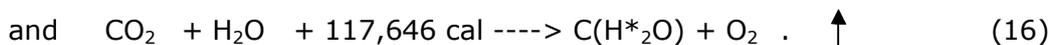
must receive a push equivalent to at least one fourth 112 [112.8] kilocalories, or 28 [28.2] kilocalories per gram of hydrogen .<sup>10</sup> These pushes must be supplied by light."

That (13) is regarded as the formula for the primary reaction of photosynthesis can be seen from a second authoritative source (23):

"The general formula for the primary reaction in photosynthesis is:



According to formula (13) and the quoted discussion, the energy required to move one H atom uphill to CO<sub>2</sub> is 28,200 cal per gram of atomic hydrogen. For the 12 H\* in one mole of glucose, this would be a total of 338,400 ca1 mo1<sup>-1</sup> of glucose. But from formula (11), one mole of glucose had a total caloric content of 677,200 ca1 mo1<sup>-1</sup>. It thus appears that (13) accounts for only one-half of the calories actually involved. To move one gram atom of hydrogen uphill from H<sub>2</sub>O would require, rather, 1/12 of 677,200 or 56,422 cal per gram atom of H. Moreover, according to the relevant calculated quantum energy level value for atomic hydrogen (58,723 ca1 mo1<sup>-1</sup>), it seems that the 56,433 value is also too low, since at least 58,723 ca1 mo1<sup>-1</sup> are required to lift H\* from n = 4 to n = 2. (This would also mean that 58,723 cal are required to move one atom of H uphill from H of H<sub>2</sub>O to CO<sub>2</sub>.) It follows that the basic minimum energy requirements for photosynthesis would be 58,723 x 12 or 704,676 ca1 mo1<sup>-1</sup>. The basic minimum energy requirements to hydrogenate one mole of CO<sub>2</sub> to the reduction level of glucose by H\* would then be: 58,723 x 2 or 117,446 ca1 mo1<sup>-1</sup>. Therefore, it appears that the general formulas and energetics involved in the synthesis of one mole of glucose and in the hydrogenation of one mole of CO<sub>2</sub> in photosynthesis would be as follows:



4. In addition, research indicates that the cytochrome system uses at least 8 photons to move H<sub>2</sub> from H<sub>2</sub>O to CO<sub>2</sub>. Therefore, the cytochrome system must deliver at least 117,446/8 or 14,681 ca1 mo1<sup>-1</sup> quanta to some inter-mediary system which in turn supplies the energy to H<sub>2</sub> to H<sub>2</sub>O to form H\*.

This intermediary system is the pyrophosphate (~PO<sub>4</sub>) system. But in order for ~PO<sub>4</sub> to carry 14,681 cal to form H\*, the pyrophosphate must be given at least 15,720 ca1 mo1<sup>-1</sup>, for ~PO<sub>4</sub> requires that many calories to be pushed from n = 3 to n = 2. Thus, in order to move H<sub>2</sub> from H<sub>2</sub>O to CO<sub>2</sub>, the ~PO<sub>4</sub> requires 8 of the 15,720 ca1 mo1<sup>-1</sup>





Formula (22) is very similar to (21) with the exceptions that the H\* in "ATP-photosynthesis" comes from atomic H (and not from H<sub>2</sub>O ) and that H is "oxidized" to gaseous H<sub>2</sub>, a process not requiring the presence of O<sub>2</sub>. (In other words, when ATP is formed in catabolism, it yields a molecule of H<sub>2</sub>O.

When ATP was formed in the acid medium of the primary pools, it gave up H<sub>2</sub> .) Thus, if H\* and PO<sub>4</sub> both emitted quanta with a common wavelength, formula (22) could well represent the pyrophosphate's primordial "charging- reaction" which underlay the aboriginal rise of life on earth.

## 5. Phosphate's Aboriginal Catabolic System

By carefully inspecting the quantum level and quantum (photon) values for atomic hydrogen and pyrophosphate (Tables I and II), one finds that H\* and ~PO<sub>4</sub> emit photons at virtually identical wavelengths. The wavelength (v) and frequency (v<sup>-1</sup>) for H\* at 15,225 ca1 mo1<sup>-1</sup> are calculated as follows.

$$\text{Previously: } \frac{\text{€}}{(\text{v} \times 10^{-8})} = \frac{\text{h} \times \text{N} \times \text{c}}{(4.186 \times 10^7)} .$$

Another way of writing this same equation:

$$\frac{\text{v}}{(\text{€}) (10^{-8})} = \frac{\text{h} \times \text{N} \times \text{c}}{(4.186 \times 10^7)} .$$

At H\* = 15,225 ca1 mo1<sup>-1</sup> :

$$\begin{aligned} \text{v} &= \frac{(6.62517 \times 10^{-27}) (6.02486 \times 10^{23}) (2.99793 \times 10^{10})}{(15,225) (10^{-8}) (4.186 \times 10^7)} \\ &= \frac{119.66453 \times 10^4}{63.73185} \\ &= 18,776 \text{ \AA} \text{ or } 1.8776 \times 10^{-4} \text{ cm.} \end{aligned}$$

(23)

From equation (8), we have v<sup>-1</sup> = c/v. Therefore, for the atom under consideration:

$$\frac{1.8776 \times 10^{-4}}{\text{v}^{-1}} = 2.99793 \times 10^{10}$$

$$\text{v}^{-1} = 1.597 \times 10^{14} \text{ cps.}$$

(24)

Similarly, the wavelength and frequency for ~PO<sub>4</sub> at 15,270 ca1 mo1<sup>-1</sup> are:

$$\begin{aligned}
10^{10}) \quad \nu &= \frac{(6.62517 \times 10^{-27}) (6.02486 \times 10^{23}) (2.99793 \times 10^{10})}{(15,270) (10^{-8}) (4.186 \times 10^{-7})} \\
&= \frac{119.66453 \times 10^4}{63.92022} \\
&= 18,721 \text{ \AA} \text{ or } 1.8721 \times 10^{-4} \text{ cm.}
\end{aligned} \tag{25}$$

$$\begin{aligned}
\nu^{-1} &= \frac{2.99793 \times 10^{10}}{1.8721 \times 10^{-4}} \\
&= 1.601 \times 10^{14} \text{ cps.}
\end{aligned} \tag{26}$$

The difference in wavelength between the 15,225 and the 15,270  $\text{ca}1 \text{ mo}1^{-1}$  photons absorbed by H and  $\sim \text{PO}_4$ , respectively, is  $18,776 \text{ \AA} - 18,721 \text{ \AA} - 55 \text{ \AA}$ .

The wavelength of a photon at frequency  $1.60 \times 10^{14}$  cps is:

$$\begin{aligned}
\nu &= \frac{2.99793 \times 10^{10}}{1.60 \times 10^{14}} \\
&= 1.8737 \times 10^{-4} \text{ cm or } 18,737 \text{ \AA.}
\end{aligned} \tag{27}$$

The difference of  $55 \text{ \AA}$  between the wavelength of  $\text{H}^*_{18,776 \text{ \AA}}$  and that of  $\sim \text{PO}_4_{18,721 \text{ \AA}}$  falls well within a single photon vibrating at  $1.60 \times 10^{14}$  cps.

The quantum numbers for the  $18,721 \text{ \AA}$  photon within  $\sim \text{PO}_4$ 's second major energy level are  $n = 2, l = 1, m = 0, s = \frac{1}{2}$  and for the  $18,776 \text{ \AA}$  photon (emitted by  $\text{H}^*$ ) within the same major energy level of  $\sim \text{PO}_4$ , the quantum numbers are  $n = 2, l = 0, m = 0, s = \frac{1}{2}$ . Thus, as far as quantum mechanisms are concerned, the 15,225 and the 15,270  $\text{ca}1 \text{ mo}1^{-1}$  photons of  $\text{H}^*$  and  $\sim \text{PO}_4$  have resonant wavelengths, which means both species of chemicals could keep up a continuous exchange of energy. In other words, a 15,225  $\text{ca}1 \text{ mo}1^{-1}$  photon emitted by  $\text{H}^*$  could force  $\sim \text{PO}_4$  from  $n = 3$  to  $n = 2$ . Con-versely, a 15,270  $\text{ca}1 \text{ mo}1^{-1}$  photon emitted by  $\sim \text{PO}_4$  could force H from  $n = 4$  to  $n = 3$ . Thus, the phosphate system could store photons in atomic H or receive photons from atomic  $\text{H}^*$  for the pyrophosphate's subsequent or immediate use.

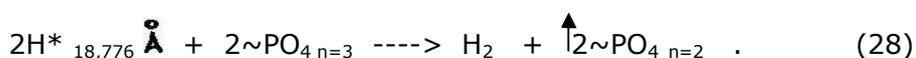
The significance of the fact of the resonance identity between  $\text{H}^*_{18,776 \text{ \AA}}$  and  $\sim \text{PO}_4_{18,721 \text{ \AA}}$  is that the former could reasonably have served as the aboriginal power carrier for the phosphate system as formula (22) suggests. A continuous supply of high free

energy for the pyrophosphates of ATP could have come from photons donated by  $H^*_{18,776 \text{ \AA}}$  which in turn absorbed these photons from the earth's own natural radiation. The following important facts point to the validity of this conclusion. First, atomic H is well known to be a powerful absorber in the near infrared (8). Second, the concept of "ATP-photosynthesis", to which reference has already been made, has recently been experimentally established, as the following quote indicates:

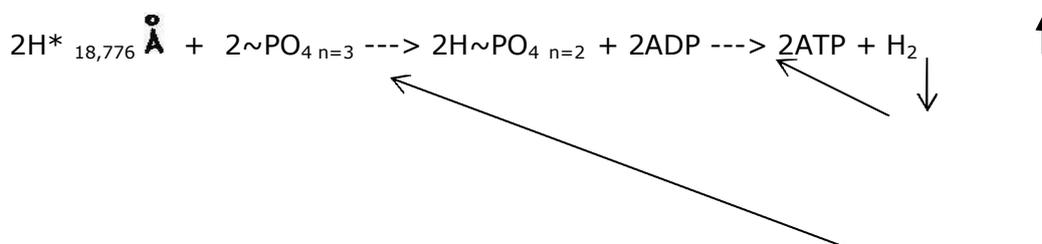
"Photosynthetic phosphorylation has provided direct experimental evidence for the view that the key event in photosynthesis, the conversion of light into chemical energy, is independent of the classical manifestation of this process in green plants—oxygen evolution and carbon dioxide reduction. In the light-dependent phosphorylation of cyclic type...CO<sub>2</sub> is not assimilated nor is O<sub>2</sub> evolved ...the only identifiable product of the absorbed light energy is ATP...

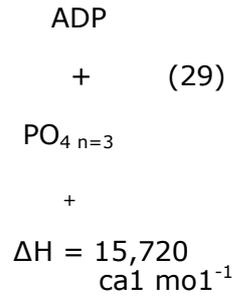
In the presence of hydrogen gas, the contribution of light...may be limited to formation of ATP (24)." Third, the earth, even today, is a strong emitter of quanta in the near infrared. The earth's total radiation is .06 watts/cm<sup>2</sup>, with most of this natural radiation coming from the near infrared (and longer) with its peak at  $1 \times 10^5 \text{ \AA}$  which is not at all far distant in the electromagnetic spectrum from  $18,776 \text{ \AA}$  (8,25). (One can readily assume that the earth was a heavy emitter over the entire infrared frequency band—as well as over the entire radar and radio frequency bands—in the past, especially when the earth was still a nascent planet.)<sup>11</sup> This factor would have assured the phosphate system, deep in the primary volcanic pools, a continuous supply of quantum energy for a long period. Fourth, the hydrogen quantum carriers appear to have been present in constant supply. When the earth's crust was less stabilized chemically than it is now, gaseous atomic hydrogen was available in great abundance (26). This source of supply was abetted by the hydrogen gas stemming from the degassing of the earth's interior and by the supply of H in the primary atmosphere, which was in equilibrium with that present in the primary hydrosphere.

It is postulated here that the following "charging-reaction" was pyrophosphate's aboriginal catabolic system:



And that formula (28), expressed in terms of the pyrophosphates likely involved:





This postulated schematic of the pyrophosphate's primordial catabolic system is presented in Figure 1.

-----  
 Insert Fig. 1 about here  
 -----

The pyrophosphate system would have been continuously driven by  $h\nu_{18,776\text{ \AA}}$  quanta emanating from the earth and carried to the pyrophosphate system by

$H^*_{18,776\text{ \AA}}$ . ATP would have been kept constantly present and at a high level of free energy in the pyrophosphate system due to the negative and positive feedback mechanisms of ADP and  $\text{PO}_{4\ n=3}$ , just as is the case of catabolism in modern organisms. Then, if a releasing catalyst having the effect of ATPase was also present, ATP's energy would have been continuously released; environmental fluctuations could have released ATP's potential energy to

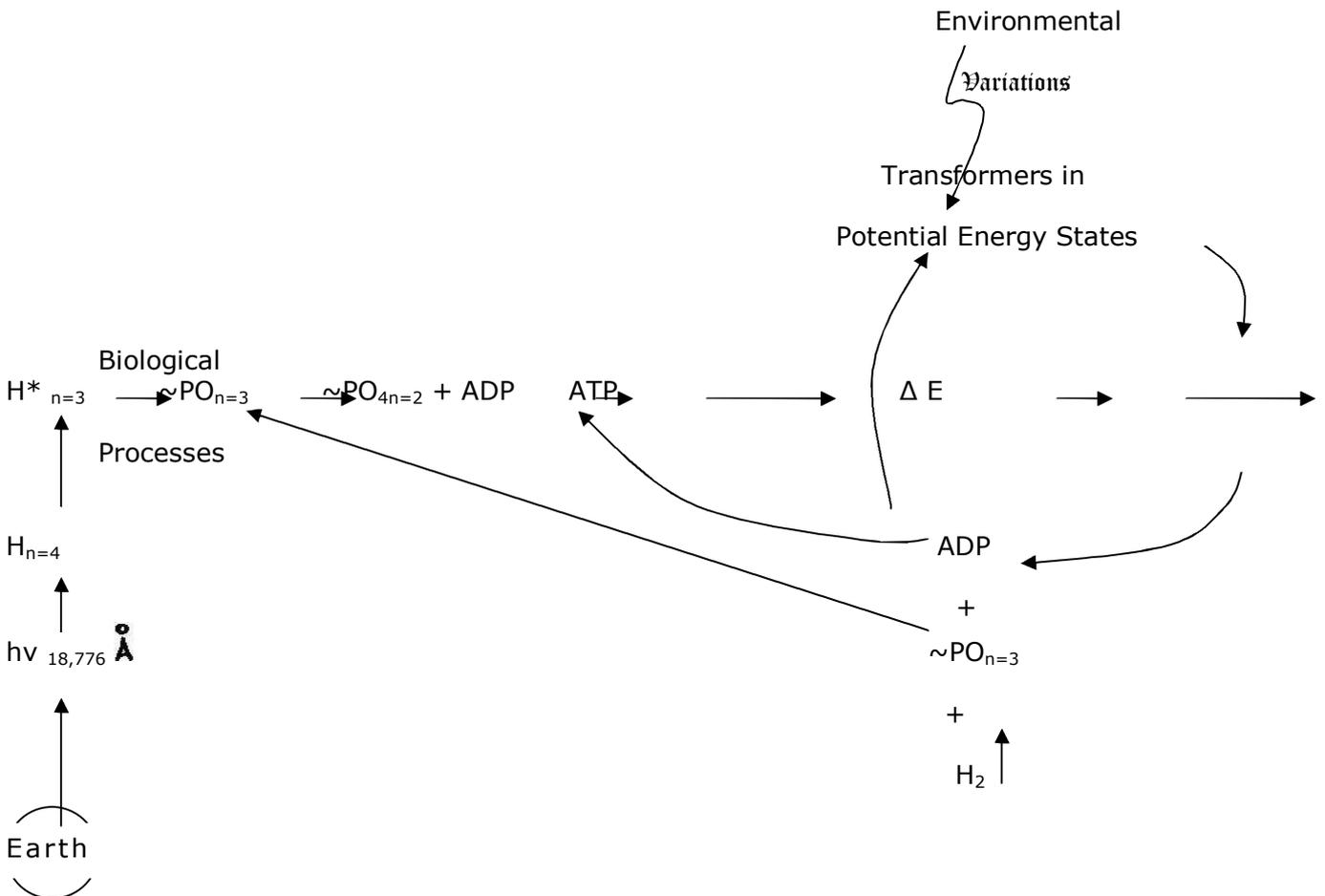


FIG. 1

various biochemical transformers (to which ATP had become attached).

## 6. The Aboriginal Catalyst of the Pyrophosphate System

If the aboriginal pyrophosphate system was continually supplied with a source of energy, the next major question would be: "How was the free energy of ATP released so that it could energize the biochemical transformers to which ATP became attached?" A transformer could be an amino acid, a nucleotide, a protein, a nucleic acid, etc. To posit an answer to this question, we must first understand the operation of what is called "The Biological Energy Cycle" (which is schematized in Figure 2) and then we must consider the apparent determination of ATP's unit frequency.

The "Biological Energy Cycle"—which the writer prefers to call the ATP-Pyrophosphate Cycle (or simply the pyrophosphate cycle)—is taken from Baldwin's 1953 edition of Dynamic Biochemistry (14) and has been modified to accord with the research of A. Szent-Györgyi (27).

In the first step [1] of the pyrophosphate cycle, let it be assumed that, to initiate the cycle, the catabolistic system provides the cycle with two molecules of ATP.

In this second step of the cycle, the free energy of one of the ATP molecules is released, passed through a transformer, and appears as the potential energy of the transformer. The second molecule of ATP is linked to the transformer which is in its resting state [2].

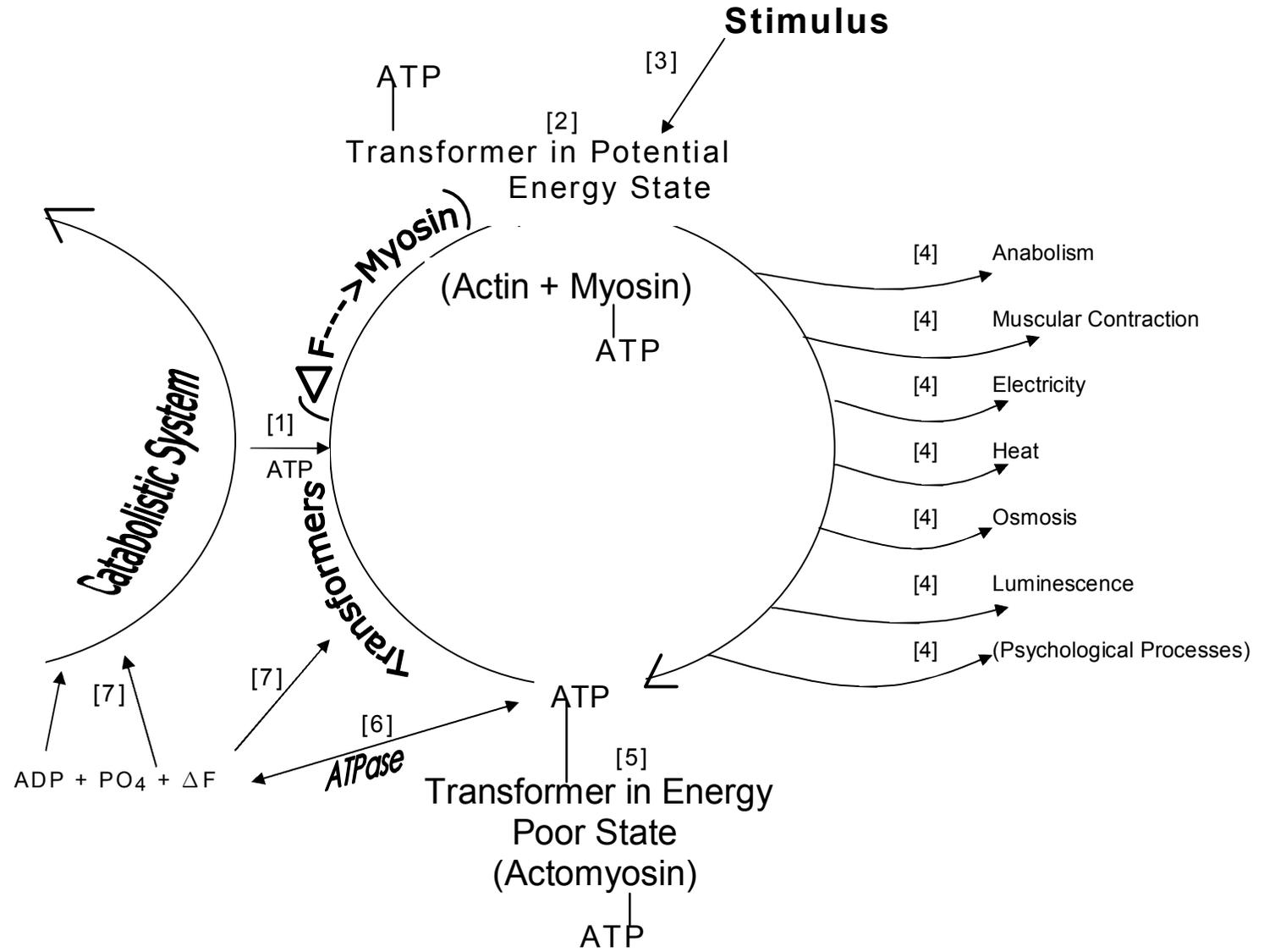


FIG. 2

The third step [3] of the pyrophosphate cycle is the action of the stimulus. The stimulus excites the resting transformer (from its potential energy state) into its kinetic state which causes the transformer to perform its intrinsic function.

The biological functions—step four [4]—known to operate in this manner are listed on the right of Fig. 2. The writer has added the psychological processes to the list of functions on the basis of his published work (5). Since accounting for the emergence and evolution of the psychological processes necessitates field theory concepts, this problem will be dealt with in a follow-up paper.

In step five [5], the transformer reaches its energy poor state. Note that the transformer in its resting state [2] had a molecule of ATP attached to it. Also note that the stimulus [3] and the performance of the transformer's intrinsic function [4] did not involve this ATP molecule. In this energy poor state [5], the transformer exposes its attached ATP molecule to ATPase.

When the transformer reaches its energy poor state [5], an enzyme—ATPase—breaks ATP down into ADP and  $PO_4$  and releases its free energy,  $\Delta F$ , step six [6].

In step seven, [7], ADP and  $PO_4$  are fed back into the catabolistic system and simultaneously, the released free energy,  $\Delta F$ , is driven through the transformer which, in turn, converts the free energy into the chemical, mechanical, or electrical potential energy of the transformer's resting state.

As the transformation process proceeds, the first step [1] of the pyrophosphate cycle again comes into operation; the catabolistic system provides the transformer with one molecule of ATP. The resting state of the transformer is thus now completely restored. Thus, all biological transformers in their resting (reactive) state have energy in two forms: one is the potential chemical, electrical or chemical energy of the transformer, the other is the free energy which is within the pyrophosphate of the ATP molecule attached to the resting transformer.

A concrete example of muscular contraction has been included in Fig. 2 in parentheses to facilitate the understanding of the pyrophosphate cycle. In its resting (reactive) state, a muscle fiber is composed of units of two separate molecules, actin and myosin.

The potential energy of the muscle fiber consists of the stretched condition of the muscle transformer which is myosin (a protein). Note that a molecule of ATP is attached to the myosin molecule. A stimulus (which is step three [3] of the pyrophosphate cycle) causes the mutually repelling, charged ionic groups along the length of myosin (the potential mechanical energy) to be neutralized which in turn forces the actin and myosin units to combine to form actomyosin.

Muscular contraction is the result with the energy of the potential state being mainly utilized in the contraction process with some given off as heat. Note that, in the energy poor state of actomyosin, the ATP molecule is still attached to the myosin part of actomyosin. To contract again, the muscle fiber must possess separate actin and myosin molecules and myosin must be restored to its potential energy state. When, and only when, myosin has run down and actomyosin has been formed, the ATP molecule is exposed, ATPase comes into operation, releasing the free energy from ATP and directing it so that it is driven through the myosin molecule. The electromagnetic (free) energy driving through the transformer, or myosin, forces the actomyosin to dissociate into actin and myosin and restores the potential mechanical energy state of myosin. During this transformation process, the catabolistic system attaches a fresh ATP molecule to myosin. Thus, the muscle fiber is now reactive and in a position to be self-restorative. An important point to note is that ATP is the mediate and not the immediate source of energy for muscular contraction.

These principles of the pyrophosphate cycle can now be generalized to point out an important feature. Note that the catabolistic system initiates the cycle, that it is responsible for the cycle's resting state of potential energy and that it keeps the cycle operating by supplying it with ATP molecules. Let us call the potential energy of the transformer in its resting state and the free energy in the ATP molecule attached to the transformer, "the norm". Since the catabolistic system has but one function—to synthesize ATP molecules which sustain the potential and free energy level or norm of the pyrophosphate cycle, the catabolistic system (whatever its origin or nature is) can be called the normalizing process (28). Thus, the normalizing process maintains biological transformers at a high level or energy or norm. Stimuli produce deviations from this norm and evoke functions of the pyrophosphate cycle which eliminate the deviation. The operation of the catabolistic system can be summarized by stating that the normalizing process facilitates, via the pyrophosphate cycle, the synthesis of structures or performance of functions that maintain its norm (5). The important point is that there exists an organizing process (catabolism) within living systems which supplies energy to transformers and, hence, to their processes and functions, and which operates to offset stimuli which cause deviation from the high energy norm of the process. (28, 5, 11, 29, 30, 31, 32)

The unit frequency of ATP-pyrophosphate may now be delineated. In 1959, in the course of exploratory hazard microwave research, ATP's unit frequency was discovered accidentally in investigations sponsored by the Naval Research Laboratory (33). In the course of an investigation on the effects of UHF quanta on the brains of monkeys, the experimenters projected 380 to 391 mc quanta (in steps of one mc) down the midline of the monkey's reticular formations.

In 30 sec. the megacycle quanta aroused the monkey from deep anesthesia; the quanta then produced a series of trauma-indicative symptoms which ended in death within two to ten minutes for the ten monkeys so radiated. Since the power levels used were very low (surface exposure 12.8 mw/cm<sup>2</sup>) and since no heat effects were found upon autopsy in the ten primates so radiated, the investigators attributed the UHF effects to resonance within the brain's neurological circuits.

When this discovery was brought to the attention of this writer, he predicted that the unit frequency of ATP had been accidentally determined and that one of the frequencies between 380 and 391 mcs would subsequently prove to be ATP's actual unit frequency. The rationale is as follows. In the July 1957 issue of The Scientific American, Phillip Siekevitz, in his article "Powerhouse of the Cell" had the following to say about mitochondria, ATP and transformers:

"It appears that the mitochondria supplies the cell with most of its usable energy: they have been called the power house of the cell... The oxidation of foodstuffs occurs largely in mitochondria at least those cells of liver, kidney, heart and brain cells... Concurrently with all these transfers and oxidations another process is going on. The energy released by oxidation is transferred into the energy rich ATP. Most of the energy required by the cell is provided in this way, and most of it is produced in the mitochondria. Some of the energy of ATP is used in the mitochondrion but most of the ATP is immediately shot out to power the other activities of the cell... This singular function of the mitochondria appears to be reflected by their location within various kinds of cells. In muscle cells the mitochondria form rings around that part of the muscle fiber which actually contracts. In nerve cells they cluster around the junction of one cell and another, where the energy of the nerve impulse is transferred. In sperm cells they accumulate in the 'neck' of the cell, where its head joins its whiplash tail..."

In other words, around every biological transformer there appears to be a concentration of ATP-producing mitochondria. By 1959, it was apparent that the mid-brain reticular formations was the transformer for all conscious psychological processes (34, 5). The writer then assumed that the mid-brain reticular formations had a concentration of ATP-producing mitochondria along its length and that the experimenters, by projecting the UHF quanta down the midline of the monkey's reticular formations, were bringing about the break-down of ATP at a very rapid rate.

According to solid state physics, if a molecule with a high energied "free electron" (such that ATP possesses) is subjected to a slight charge from a static electrical field, the energy of the "free electron" "acts as if gravity were directed upward instead of down", for the electronic energy comes streaming out of the molecule. The writer assumed that the UHF quanta acted in a manner similar to that of the slight static charge and that one of the quantum frequencies employed would prove to be the most critical. It is postulated that, when ATP absorbs a UHF quantum (in step 2 of Fig. 2), the released electronic energy first excites the resting transformer from its potential into its kinetic state so that the transformer is forced to perform its intrinsic function. Since (from Fig. 2) the transformer cannot go "up" until it has gone all the way "down", the transformer proceeds to its energy poor state. Then, and only then, can the free energy released from ATP by the UHF quanta restore the transformer to its potential energy state. The continued presence of the UHF quanta would result in the immediate excitation of the transformer again, with a repetition of the cycle of events. The normalizing process (catabolism), on the other hand, would continue to supply the speeded up cycle with fresh ATP molecules each time the transformer was driven upward.

That one of the frequencies employed by the above experimenters—385 mc—is the unit frequency of ATP will be seen from the following. The energy level (in ca1 mo1<sup>-1</sup>) of the unit

quantum will be compared with the energy level (in  $\text{ca}1 \text{ mo}^{-1}$ ) of the dissociation quantum for both atomic hydrogen and the phosphate system. If the unit and dissociation quantum in  $\text{ca}1 \text{ mo}^{-1}$  for the 385 mc and the 2600 Å quanta are equivalent, 385 mc is the unit frequency of ATP. These calculations also afford an independent check for the values calculated in Tables I and II.

According to Planck's development of quantum theory, an atom or molecule can absorb a photon in the unit quantum as expressed by:

$$E_1 = h \nu_1^{-1} \quad (2)$$

or in whole number multiples,  $n$ , thereof:

$$E_n = n h \nu_1^{-1} = h \nu_{D_s}^{-1} = D_s \quad (3)$$

Taking atomic hydrogen as an example, equation (3) states—in relation to the unit and dissociation energy of H—that the energy content of the photon which atomic H absorbs as its unit frequency ( $h\nu_1^{-1}$ ), multiplied by the integral number,  $n$ , which expresses the ratio of the dissociation frequency of H to the unit frequency of H, will yield the energy content of the dissociation quantum of H (in ergs per H) or  $E_n$ .

The unit and dissociation quanta in  $\text{ca}1 \text{ mo}^{-1}$  for atomic H will now be calculated and compared for equivalence, both to serve as an example of the procedure involved and because the dissociation and unit frequencies of atomic H are accurately known.

The unit wavelength, 21 cms, of atomic hydrogen has long been known.

$$\nu_1 \text{ of H} = 21 \text{ cms.} \quad (30)$$

Then:

$$\begin{aligned} \nu_1^{-1} \text{ of H} &= c/\nu_1 \\ &= \frac{2.99793 \times 10^{10}}{21} \\ &= 1.4276 \times 10^9 \text{ cps} \quad (31) \end{aligned}$$

The ionization potential for atomic H is 13.60 ev which, according to equation (6), yields 313,189  $\text{ca}1 \text{ mo}^{-1}$  as the dissociation energy for atomic H. The dissociation wavelength,  $\nu$ , of  $H_{D_s}$ , also calculated from equation (6), is  $9.127666 \times 10^{-6}$  cm. The dissociation frequency of H is given by:

$$\text{---} \nu^{-1} \text{ of } H_{D_s} \text{ ---} = \frac{2.99793 \times 10^{10}}{9.127666 \times 10^{-6}}$$

$$= 3.28444 \times 10^{15} \text{ cps} . \quad (32)$$

The integral multiple, n, that  $\nu^{-1}$  of  $H_{Ds}$  (32) is of  $\nu_1^{-1}$  of H (31) follows:

$$\frac{\nu^{-1} H_{Ds}}{\nu_1^{-1} H} \cdot n = \quad (33)$$

Substituting from (31) and (32) into (33):

$$n = \frac{3.28444 \times 10^{15}}{1.4276 \times 10^9} = 2,300,707 . \quad (34)$$

According to equation (3), the dissociation energy of H should be equal to  $n (h \nu_1^{-1}) \times N/4.186 \times 10^7$  where  $N/4.186 \times 10^7$  is brought in to obtain the results for a gram atomic weight of H in calories.

The experimentally determined association energy of H is:

$$D_s \text{ of H} = 313,189 \text{ cal mol}^{-1} . \quad (35)$$

Therefore, by equation (3):

$$D_s \text{ of H} = n (h \nu_1^{-1}) \times N/4.186 \times 10^7 . \quad (36)$$

Substituting (35) into (36):

$$\underline{313,189 \text{ cal mol}^{-1} = \frac{2,300,707 (6.62517 \times 10^{-27} \times 1.4276 \times 10^9) \times 6.02486 \times 10^{23}}{4.186 \times 10^7}}$$

$$313,189 \text{ cal mol}^{-1} = 313,190 \text{ cal mol}^{-1} . \quad (37)$$

As equation (3) demands, if  $1.4276 \times 10^9$  cps is the unit frequency of H, the dissociation energy of H in  $\text{cal mol}^{-1}$  would be  $nh \times 1.4276 \times 10^9 \text{ cps} \times N/4.186 \times 10^7$ . As indicated by (37), where  $313,189 \text{ cal mol}^{-1} = 313,190 \text{ cal mol}^{-1}$ , the 21 cm quantum is the unit frequency of atomic hydrogen, as was to be expected.

Let it be assumed that the 385 megacycle frequency is the unit frequency of ATP and let it be further assumed that the primate subjects met their fate because the unit frequency of an atom or molecule operates in the manner of an electromagnetic catalyst (and a stimulus releaser per the pyrophosphate cycle) which releases the electronic energy of an atom or molecule possessing a high energied "free electron" such as possessed by ATP. If 385 mc is the unit frequency of ATP, then:

$$\nu_1^{-1} \text{ of ATP} = 385 \text{ mc} = 3.85 \times 10^8 \text{ cps} . \quad (38)$$

The delabilization frequency of ATP is given by equation (9):

$$\nu^{-1} \text{ of } \sim\text{PO}_{4Ds} \text{ (or ATP)} = 1,15305 \times 10^{15} \text{ cps} . \quad (9)$$

Therefore,

$$n = \frac{\nu^{-1} \text{ of } \sim\text{PO}_{4Ds}}{\nu_1^{-1} \text{ of } \text{PO}_4} . \quad (39)$$

Substituting from (38) and (9) into (39):

$$\frac{n = 1.15305 \times 10^{15}}{3.85 \times 10^8} = 2,994,935 . \quad (40)$$

According to equation (3), the delabilization energy of  $\sim\text{PO}_4$  should be equal to  $n (h \nu_1^{-1}) \times N/4.186 \times 10^7$ . The delabilization energy of ATP, as given by equation (10):

$$D_s \text{ of } \text{PO}_4 = 109,949 \text{ ca1 mo1}^{-1} . \quad (10)$$

Therefore:

$$D_s \text{ of } \text{PO}_4 = n (h \nu_1^{-1}) \times N/4.186 \times 10^7 . \quad (41)$$

Substituting (10) into (41):

$$109,949 \text{ ca1 mo1}^{-1} = \frac{2,994,935 (6.62517 \times 10^{-27} \times 3.85 \times 10^8) \times 6.02486 \times 10^{23}}{4.186 \times 10^7}$$

$$109,949 \text{ ca1 mo1}^{-1} = 109,949 \text{ ca1 mo1}^{-1} \quad (42)$$

As equation (3) demands, only if the assumption—that 385 mc is the unit frequency of phosphate—is true, would the dissociation energy of ATP in  $\text{ca1 mo1}^{-1}$  be an exact integral multiple of a  $\text{mo1}^{-1}$  of 385 quanta (in calories). As indicated by (42), where  $109,949 \text{ ca1 mo1}^{-1} = 109,949 \text{ ca1 mo1}^{-1}$ , it may be concluded that 385 is the unit quantum frequency of phosphate.

The assumption was made that 385 mc quantum produced the profound effects observed in the primates due to the unit frequency of ATP (absorbed by reticular ATP) operating in a manner similar to an electromagnetic catalyst which released the free energy of the reticular ATP. Referring to Fig. 2, it is apparent that  $\text{PO}_4$ 's unit quantum (385 mc), when absorbed by  $\sim\text{PO}_4$ , takes the place of both the enzyme, ATPase, and the stimulus. In effect, the 385 mc acts as a stimulus forcing the cycle to perform its function, and then acts as ATPase, by driving the cycle upward to restore the transformer's potential energy state. (In actual fact, the 385 mc quantum acts as ATPase in step two of the pyrophosphate cycle. But since the cycle must go "down" before it can go "up", the electronic energy released by the 385 mc quantum is the actual stimulus that forces the cycle to perform its intrinsic function.) Thus, the only possible explanation of the not only drastic but lethal effects of 385 mc quanta on a powerfully buffered living system is that the 385 mc quantum displays properties of an enzyme, ATPase, and of a stimulus-releaser on ATP's two pyrophosphates. The transmission of a quantum of unit frequency by a catalyst or an enzyme to an atom or molecule or to a substrate may well be a general mechanism of enzymatic and catalytic action.

It is postulated that the 385 mc quantum was the primordial enzyme-catalyst which continuously released the energy of ATP pyrophosphate before organic enzymes appeared. Space research has recently established that the cooler regions of the sun's corona generate quanta of 385 mc which reach the earth's upper atmosphere, but which are now totally reflected due to the ionosphere (8). It is reasonable to assume that a cooling earth in its primordial state would emit the same critical quantum frequency as the cooler regions of the sun. Although the writer is not aware of any data indicating the emission of 385 mc quanta from the earth at the present time, it is predicted that such emission will be found to occur, perhaps at a very low intensity. If this should prove to be the case, it would seem likely that the earth was an intense radiator of 385 mc quanta in the remote geologic past. It is postulated here that the natural radiation of the earth furnished the

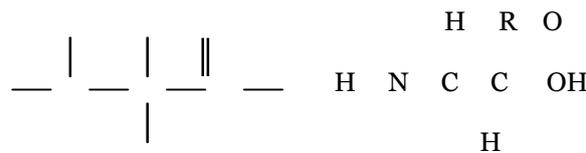
primordial pyrophosphate system with both its aboriginal catabolic quanta and its aboriginal stimulus-releaser catalyst.

7. Synthesis of the Aboriginal Protein and Nucleic Acid Transformers (35)

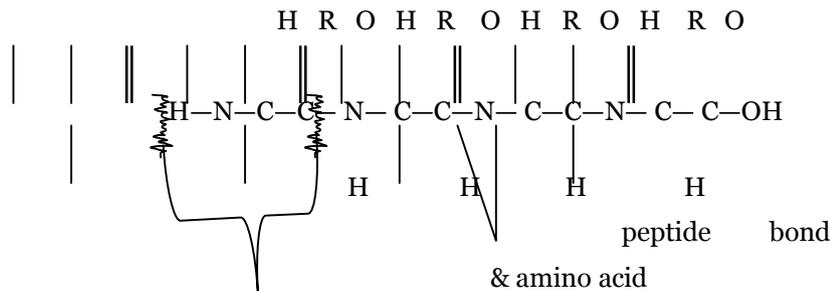
Assuming: that pyrophosphate systems were formed deep in primary volcanic pools approximately 4.8 billion years ago, and that the pyrophosphate systems were in complex reaction mixtures with—among other important chemical components—amino acids (Oparin) and nucleotides (Blum), and that the pyrophosphates were constantly supplied with  $H^*$ <sub>18,776</sub> quanta, and that ATP's free energy was constantly released by the 385 quanta, and that the pyrophosphate system's normalizing process was constantly operating so as to offset environmental variations (which aboriginally were the 385 mc quanta), a major problem remaining is to account for the aboriginal syntheses of protein and nucleic acid transformers to which ATP could become attached in order to form the system depicted in Figs. 1 and 2. It should be pointed out, in reference to Fig. 2, that the transformers of the pyrophosphate cycle, which are mainly proteins and nucleic acids, account for almost all the attributes of "life" with the exceptions of the psychological processes and an internal organizing process with its intrinsic properties.

The problem that remains is to delineate a plausible mechanism underlying the aboriginal synthesis both of amino acids into polypeptides (proteins) and of nucleotides into polynucleotides (nucleic acids).

The basic structural unit of proteins is the alpha-amino acid. The general formula for these acids is:



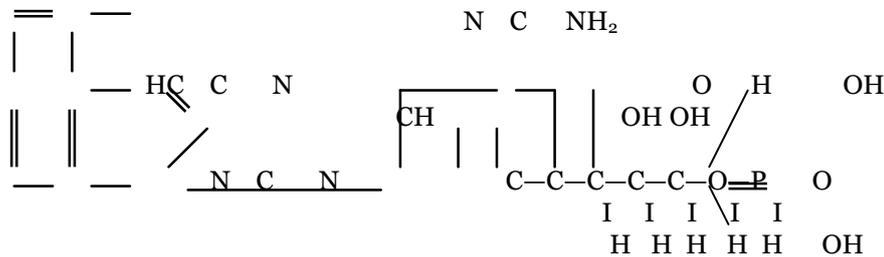
where R represents a great variety of structures which differentiate the alpha-amino acids from one another. Proteins are polymers which contain varying numbers of 23 types of alpha-amino acids. The basic structural linkage of proteins is an acid amide type of bond called a peptide linkage. An example of a tetrapeptide in which four amino acids are united by a peptide linkage is shown:



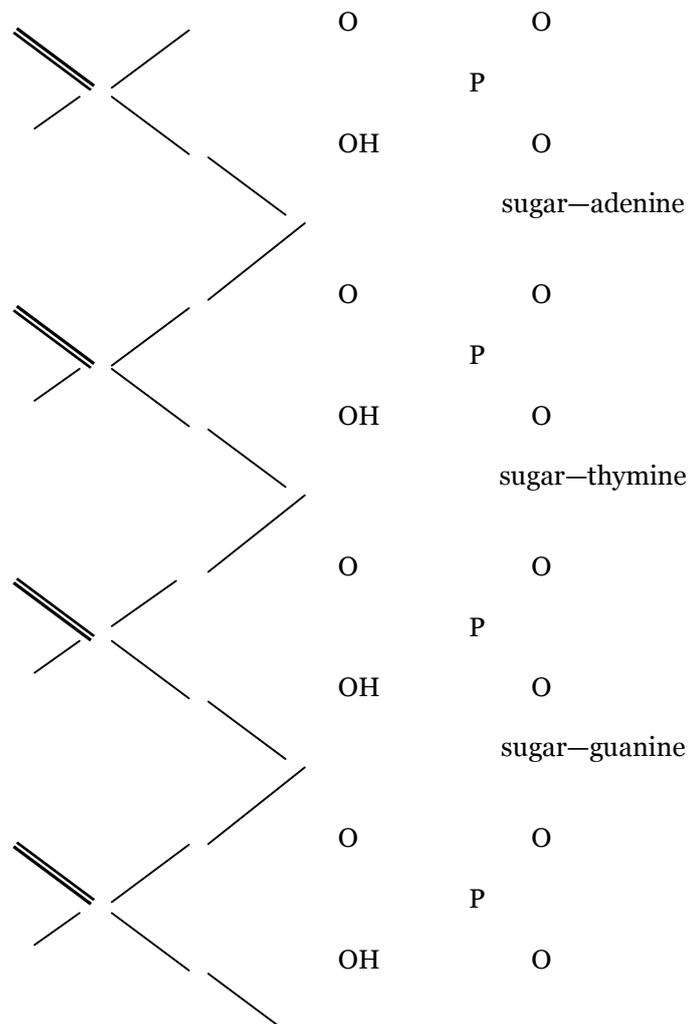
The atoms of the backbone of the chain, -N-C-C-, are repeated over and over again; one protein may contain hundreds or thousands of these alpha-amino acids in peptide linkage. The formation of the

peptide linkage between any two amino acids takes 3,000+ calories; the source of the energy is ATP (36).

The basic structural unit of DNA and RNA is the nucleotide. Adenine nucleotide (adenylic acid or AMP) is shown:



DNA and RNA are substituted sugar molecules which are polymerized through passage through phosphate linkages. In DNA the sugar is desoxyribose; in RNA it is ribose. Both have 5-carbon rings. The substituted groups on the sugar molecule are four bases which are: adenine, guanine, cytosine, and thymine (in DNA) or uracil (in RNA). The nucleic acids are linked through phosphate and sugar groups as follows:



sugar—cytosine

C

One phosphate-sugar linkage between nucleotides in a nucleic acid also takes 3,000+ calories, the energy also coming from ATP (36).

By again carefully inspecting the quantum level and quantum (photon) energy values for atomic hydrogen and pyrophosphate (Tables I and II), one finds that H and PO<sub>4</sub> have a second photon wavelength in common which is almost exactly that required for peptide and nucleotide synthesis. A close inspection of Table I shows that phosphate, when relaxing from n = 5 to n = 9, emits a photon of energy content (per mole): 4,894 – 1,853 = 3,041 calories. An inspection of Table II shows that atomic hydrogen, when relaxing from n = 8 to n = 13, emits a photon of energy content (per mole): 4,398 –

1,357 = 3,041 calories. Both H and PO<sub>4</sub> here emit identical photons (which they can also absorb and hence, exchange) whose energy level or content is

3,041 ca1 mo1<sup>-1</sup>. Applying equation (5), a photon, whose energy content is 3,041 ca1 mo1<sup>-1</sup>, has a

wavelength of  $9.427 \times 10^4 \text{ \AA}$ .

It is postulated that an energy content of 3,041 ca1 mo1<sup>-1</sup> is the actual energy requirement for the 3000+ ca1 mo1<sup>-1</sup> synthesis of amino acids and nucleotide linkages cited above. The human organism, by the way, radiates infrared quanta at wavelength  $9,440 \times 10^{-4} \text{ \AA}$  cms which, in Angstroms, is  $9.440 \times 10^4 \text{ \AA}$  (37). A radiation of  $9.440 \times 10^4 \text{ \AA}$  has a mole energy content of 3,029 calories. Human radiation is known to stem from catabolic breakdown of protein and nucleoproteins in the digestive process. The 3,041 and 3,029 ca1 mo1<sup>-1</sup> quanta are no doubt resonant photons.

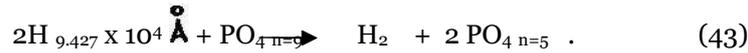
A radiation of  $9.427 \times 10^4 \text{ \AA}$  corresponds almost exactly with the present peak of the earth's natural radiation ( $1 \times 10^5 \text{ \AA}$ ) so it may readily be assumed that  $9.427 \times 10^4 \text{ \AA}$  quanta were more heavily radiated by the nascent earth. It is postulated that H<sub>9,427 x 10<sup>4</sup> \AA</sub> and PO<sub>4 9,427 x 10<sup>4</sup> \AA</sub> constituted a contemporary and concurrent power system (for the phosphate system) to that of the

H\*<sub>18,776 \AA</sub> and ~PO<sub>4 18,776 \AA</sub> system outlined in Fig. 1.

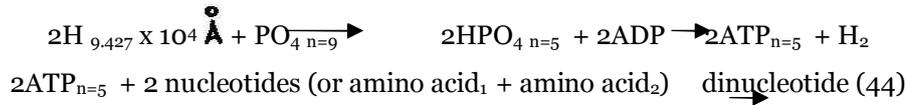
It is postulated that the H<sub>9,427 x 10<sup>4</sup> \AA</sub> and PO<sub>4 9,427 x 10<sup>4</sup> \AA</sub> quanta were the power system that underlay the synthesis of the aboriginal proteins and nucleic acids.

The primary reaction which underlay polypeptide and polynucleotide syntheses would be:

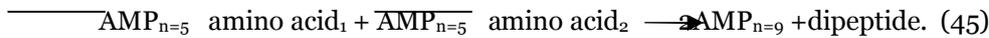




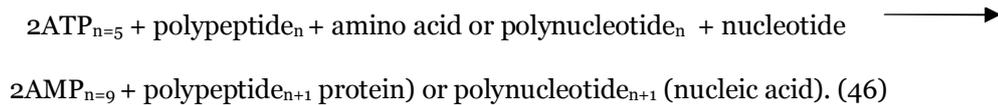
Formula (43) expressed in terms of the syntheses involved:



or,



Then:



The energy of  $PO_{4n=5}$ , released by the 385 mc quanta, polymerized amino acids and nucleotides into proteins and nucleic acids. The proteins marked the origin of the first organic enzymes and protein transformers. The polynucleotides marked the origin of the first nucleic acid transformers. The proteins and nucleic acids polymerized into nucleoproteins through simple condensation.

The proteins, nucleic acids, nucleoproteins and organic enzymes were synthesized independently of the pyrophosphate system. The next step the pyrophosphate system linked to these transformers through ATP.<sup>12</sup> The pyrophosphate system could then utilize the properties of these various transformers which furthered the evolutionary development of the entire system. In the course of evolutionary time, the 385 mc catalyst either disappeared or was rendered ineffective with the organic catalysts and environmental variations taking its place. The primordial catabolic system also was supplanted, in most cases by solar photosynthesis.

#### Conclusion:

Given the solution postulated to exist in the primary hydrosphere by Oparin and Blum and given the natural radiations of the nascent earth, it was inevitable that the pyrophosphate system appeared on the earth approximately 4.8 billion years ago. From its earliest beginnings in the vicinity of submarine volcanoes deep in the primary pools, it is concluded that the pyrophosphate was constantly channeled a supply of  $18,776 \overset{\circ}{\text{A}}$  quanta and was constantly subjected to the 385 mc quanta which continuously released the pyrophosphate cycle's energy. The pyrophosphate system and these natural radiations from the earth constituted the primordial system of catabolism and catalysis. Accompanying this primordial system of catabolism and catalysis were the concurrent and independent syntheses of protein, nucleic acids, nucleoproteins, transformers and organic enzymes which were synthesized by the  $9.427 \times 10^4 \overset{\circ}{\text{A}}$  natural radiation from the earth and by the

agency of the primordial 385 mc catalyst. The pyrophosphate system, the transformers, and the organic catalysts subsequently interlinked to provide the essentials for the rise of life upon the earth.

If the following radiations are constantly maintained: 385 mc,  $9.427 \times 10^4 \text{ \AA}$  and  $18,776 \text{ \AA}$ ; and if the following conditions are maintained: pH of 4 to 5, several atmospheres of pressure, a temperature of  $160^\circ$  to  $180^\circ \text{ C}$  (subsequently lowered to no higher than  $60^\circ \text{ C}$ ); if the pressure, temperature, pH, gravitation, chemical concentration and content, and other electro-magnetic radiations are systematically varied; if the following constituents are placed into sterile  $\text{H}_2\text{O}$ :  $\text{Ca}^{++}$ ,  $\text{Mg}^{++}$ ,  $\text{Cu}^{++}$ ,  $\text{Fe}^{+++}$ ,  $\text{H}$ ,  $\text{NH}_3$ , amino acids, nucleotides, organophosphate, halogens,  $\text{H}_2\text{S}$ ; then it is predicted primitive living entities would be synthesized in the laboratory.

#### Acknowledgment:

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#### Footnotes

1. Since the intensity of electromagnetic radiation varies inversely with the square of the distance from the sun, it is apparent that solar photo-dissociating ultraviolet rays reach these remote planets in only insignificant quantities, which permits them to retain their primary atmosphere of NH<sub>3</sub> and CH<sub>4</sub> to the present.
2. Adenine, AMP, ADP, and ATP were probably present in only trace amounts because they were likely photodissociated almost as rapidly as they were formed.
3. The Oparin view maintains that the primary source of energy for the synthesis of amino acids was solar ultraviolet radiation of 2000 Å. However, if a 2000 to 3000 Å solar radiation band continued to be present long after the primary volcanic pools were formed, ATP and DNA could not have been formed in significant quantities except deep in these pools. This is because solar radiation of 2537 Å dissociates adenine and adenosine into their primary components and at the same time depolymerizes DNA (7). Under current conditions, the atmosphere absorbs all solar radiation shorter than 2900 Å (8). It can be shown by quantum mechanics that this 2900 Å cutoff characteristic of the atmosphere is due largely to the absorption characteristics of O<sub>3</sub> and to the resonance absorption activation of N<sub>2</sub>. Without this secondary atmosphere, however, the earth would be intensely radiated with quanta between 2900 Å and 1700 Å, which would destroy all components of the adenylic acid system in the surface layers of the sea and on the surface of the earth. Accepting the hypothesis that the amino acids, subsequently incorporated into the first proteins, were formed by 2000 Å radiation, it must be assumed that ATP was formed either deep in the primary pools or after the secondary atmosphere was developed.
4. After the initial mass expulsion of volatiles to form the primary atmosphere while the earth was still in the molten state, the earth continued to expel these volatile substances at a steady rate, these accretions accounting for the major characteristics of the present secondary atmosphere and hydrosphere. This sequence of atmospheric and hydrosphere development appears not only to be in accord with geo-chemical and astro-physical considerations but also is in accord with the view that ATP early adopted hydrogen as its basic energy source. The latter signifies that free hydrogen was present in the primary volcanic pools and hence present in abundance in the primary atmosphere, which in turn signifies that the primary atmosphere must have contained predominantly CH<sub>4</sub>, NH<sub>3</sub>, H<sub>2</sub>, H and some H<sub>2</sub>S and halogens, rather than mainly CO<sub>2</sub> and N<sub>2</sub>.

5. The standard values of  $h$ ,  $N$  and  $c$  are:  $h = (6.62517 \pm 0.00023) \times 10^{-27}$  erg-sec;  $N = (6.02486 \pm 0.00016) \times 10^{23}$  molecules  $g\text{-mol}^{-1}$ ;  $c = 299,793 \pm 0.3$  km  $\text{sec}^{-1}$ .
6. To be read: wavelength of dissociation energy of pyrophosphate.
7. The 12,217 value is virtually identical to the value for ATP of  $\Delta F = -12,000$  cal  $\text{mol}^{-1}$  determined by O. Meyerhof (19) which is still extensively quoted. Other  $\Delta F$  values of  $\sim\text{PO}_4$  quoted in Baldwin (14) appear as follows:  $\Delta F$  of 1,3-diphosphoglyceric acid = -16,250;  $\Delta F$  of phospho-enol-pyruvic acid = -15,900;  $\Delta F$  of acetyl-phosphate = -14,500. From the viewpoint of quantum theory, the  $\Delta H$  values of all four foregoing molecules are 15,720 cal  $\text{mol}^{-1}$ .
8. A pyrophosphate ( $\sim\text{PO}_4$ ) has, by definition, 9000 + cal  $\text{mol}^{-1}$ . Therefore, at this point where  $\text{PO}_4$  has 6,872 cal, it is no longer a pyrophosphate.
9. Excited hydrogen atoms ( $\text{H}^*$ ) emit radiation at 1216 Å. The 1216 Å radiation in cal  $\text{mol}^{-1}$  is 235,092; the corresponding theoretical value is 234,892 cal  $\text{mol}^{-1}$ .
10. The quantities in brackets are those of the present writer.
11. The 21 cm unit wavelength of atomic hydrogen which is picked up by radio telescopes is believed to come from stars and planets in the early periods of their formation.
12. Based on current evidence that an RNA molecule is formed by condensation around the two-stranded DNA as a third party (38), it is possible that the first nucleotides to form (that were to have future biologic significance) were those of RNA. The RNA nucleotides may have linked to form, among other structures, triplet nucleotide linkages. Triplet RNA nucleotides are known to absorb specific amino acids. The RNA triplet nucleotide thus absorbed a specific amino acid and this, in turn, may have determined the next RNA triplet nucleotide to link into the chain. This polymerizing RNA triplet nucleotide-polyamino acid chain then absorbed specific DNA nucleotides onto the chain so that in time a double stranded DNA molecule had also been formed. Upon the subsequent splitting of this quadruplet chain, the resulting dual DNA chain also splits into two separate strands. One of the DNA strands then linked with the pyrophosphate system which hereafter utilized the properties of DNA as its transformer. In other words, this aboriginal DNA which linked to the pyrophosphate system may have been the first DNA molecule to reproduce and then to split, with one strand forming "messenger" and "acceptor" RNA, and the "acceptor" of RNA in turn absorbing specific amino acids and forming a peptide linkage. In this or a somewhat similar manner, the pyrophosphate system acquired a transformer which could be utilized as transformers and organic enzymes. The foregoing postulated sequence of primordial syntheses suggest that the -N-C-C- backbone chain of the alpha-amino acids aboriginally determined the triplet coding scheme of genetic DNA and not the reverse. The chain of DNA triplet nucleotides now control the string of amino acids which form protein through RNA but, aboriginally, it may be been the amino acid backbone chain that imposed its triplet feature on DNA.

The recently published works of Zubay et al and Ochoa et al (39, 40) have established a tentative triplet coding scheme of RNA for twenty amino acids of proteins. In the light of this

and accepting Blum's hypothesis that the structure of DNA originally stemmed from that of adenylic acid (AMP), it may be that the first RNA triplet nucleotides to form were UCA and UUA. RNA's UCA and UUA triplets correspond to ACT and ATT in DNA. Thus, the triplet coding scheme of DNA might begin with either ACT or ATT. In modern living systems, ACT and ATT of DNA code RNA's "messenger" and "acceptor" UCA and UUA which selectively absorb aspartic acid and glutamic acid (after Zubay et al). Aspartic and glutamic acids are two of the most widely occurring amino acids in proteins; S. Fox and others have suggested that these two amino acids are involved in the syntheses of perhaps all proteins (41). Glutamic or aspartic acid may have been the initial amino acid in the polypeptide that formed the first protein.

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