ORMUS and Paramagnetic Soils
by Barry Carter

In 1995 I learned about some materials which are difficult to identify using conventional methods but which appear to be essential to many biological systems. We call these materials ORMUS or m-state elements at the suggestion of a couple of their modern discoverers. One of these modern discoverers, a gentleman named David Hudson, has patented some of the ORMUS elements and one process for obtaining them. Transcripts of several of Hudson's lectures on this subject are available on the web at:

http://www.subtleenergies.com/ormus/presentations/present.htm

When he discovered these elements, Hudson was a cotton farmer using conventional agricultural methods but his discovery promises to revolutionize agriculture and biological sciences in general.

Recently, I learned about Dr. Philip S. Callahan and his discoveries regarding paramagnetic soils. I will briefly recapitulate some of the high spots of his discoveries.
About thirty years ago Dr. Callahan discovered that the best soils for growing things were paramagnetic. He developed an inexpensive instrument for measuring paramagnetism in soil and tested soils extensively for this property. He postulates that paramagnetic soils facilitate the flow of electromagnetic forces from the atmosphere to plants. He has done many scientific demonstrations of this phenomenon. According to Dr. Callahan, certain geometric structures can also enhance this energy flow.(1)

The biggest problem with Dr. Callahan's theory is that he has been unable to positively identify all of the elements in the soil which are paramagnetic. I believe that the ORMUS elements are the key to understanding paramagnetic soils. Like the paramagnetic elements in soil the ORMUS elements are difficult to identify using conventional spectroscopic or chemical analysis.

In order to explain more of the correlations between paramagnetic soil and the ORMUS elements, it would be helpful for me to explain more about these elements. This explanation is a bit technical but I will try to keep it simple.

Certain metallic elements have a non-metallic state with the following theoretical characteristics. We postulate that some or all of their electrons are paired up into what are called "Cooper pairs". These Cooper paired electrons are not available as valence electrons and therefore do not form molecular bonds. An atom must be able to bond to other atoms of the same element in order to be metallic.

Cooper pairing is one of the prerequisites of superconductivity and the ORMUS form of these elements appears to be generally superconductive. Though physicists have been searching in vain for high temperature superconductors, i.e. materials which are superconductive at room temperature and above, biologists have known for a long time that superconductive effects can be observed in living organisms.

Cooper pairing and superconductivity are generally considered to be properties associated with Bose-Einstein Condensates or (BECs). BECs are substances which are constituted of many atoms but which behave as if they were a single atom. The common current belief among physicists is that BECs are not stable much above absolute zero or in a superconductive matrix structure. We think that our observations disprove this belief.
The Cooper-pairing of the electrons in these atoms or diatoms appears to create a Meissner effect around each atom/diatom unit. This Meissner effect provides a non-local quantum connection between other nearby ORMUS units so that together they exhibit behavior which follows the rules of quantum mechanics. If you have great piles of these monatom/diatom units you can observe quantum physical behavior at classical physics scales.

This postulated behavior would account for the observed properties of superconductivity, tunneling, superfluidity and difficulty of spectroscopic identification. Superconductors can exhibit paramagnetic or diamagnetic properties depending on how much energy they are storing.

The Meissner effect and another phenomenon connected with superconductivity, called Josephson tunnelling, have been observed in biological systems by various scientists over the years. Hudson cites the following papers in his lectures:

Evidence from Activation Energies for Superconductive Tunneling in Biological Systems at Physiological Temperatures
Physiological Chemistry and Physics 3 1971
Bio-chemistry laboratory
U.S. Naval Air Development Center, Pennsylvania.
Reference: pp. 403-410

"For several biological systems involving nerve or growth processes the square of the activation energy is a linear function of temperature over a moderate range of physiological temperatures. This behavior may be predicted from the hypothesis that the rate of biological process is controlled by single electron tunneling between micro-regions of superconductivity.

Superconductivity has been observed. It's responsible for nerve and growth processes."

Magnetic Flux Quantization and Josephson Behavior in Living Systems
Physica Scripta
Vol. 40, 1989
E. Del Giudice, S. Doglia, M. Milani, C. W. Smith, G. Vitiello
Reference: pp. 786-791

"Abstract: The proposal of coherent electromagnetic processes as the engine of biological dynamics suggests that Josephson effects could be present in living cells. Positive experimental evidence is reported and discussed."

Biological Sensitivity to Weak Magnetic Fields Due to Biological Superconductive Josephson Junctions
Physiological Chemistry and Physics 5, 1973
Reference: pp. 173-176
"Summary: Various species of organisms can detect weak magnetic fields from .1 to 5 gauss. Indirect evidence suggests that electron tunneling may occur across junctions between superconducting micro regions in living systems. Man made superconducting Josephson junctions have been fabricated with magnetic sensitivity as high as 10-11 gauss. It is suggested that superconducting Josephson junctions in living systems may provide a physical mechanism with more than enough sensitivity to explain the observed responses of organisms to weak magnetic fields."

There is evidence that the ORMUS elements are present in living cells. Hudson has assayed brain tissue for these elements and found that the ORMUS iridium and rhodium are both present at about 2.5% each (by dry matter weight). The ORMUS elements have been found in most of the plant and animal tissues which have been examined.(2)

We hypothesize that the ORMUS elements determine some of the properties of the water inside the microtubules in every cell. Hameroff and Penrose have proposed that microtubules are the site of a "quantum collapse" in which information from multiple universes is "collapsed" into a "conscious selection" or decision.(3) Sequences of these decisions makes up the consciousness of the cell and interactions between many cells makes up the consciousness of an organism. In this way problems which would require as many decisions as there are atoms in the known universe can be solved using "calculations" performed in an infinite number of other universes.(4)

We also hypothesize that the ORMUS elements in the tubulin inside microtubules create quantum resonance connections between the cells of all living organisms.

The following elements have been positively identified as having an ORMUS or m-state:

<table>
<thead>
<tr>
<th>Iron</th>
<th>Ruthenium</th>
<th>Rhenium</th>
<th>Gold</th>
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<tr>
<td>Cobalt</td>
<td>Rhodium</td>
<td>Osmium</td>
<td>Mercury</td>
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<tr>
<td>Nickel</td>
<td>Palladium</td>
<td>Iridium</td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>Silver</td>
<td>Platinum</td>
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Many of these elements are precious metals because in their metallic state they are quite rare. Early research on these elements indicates that they are at least 7000 times more common in the m-state than in the metallic state.
So, how well do these properties match up with Dr. Callahan's paramagnetic soils? Dr. Callahan claims that the paramagnetic soils are best built from volcanic or limestone materials. The m-state elements are most common in volcanic and limestone rock.

Paramagnetic soils exhibit paramagnetic properties. The ORMUS elements also exhibit paramagnetic properties. Dr. Callahan claims that the paramagnetic soils help to couple plants to atmospheric electromagnetic energy. The ORMUS elements also appear to provide a superconductive resonance coupling effect inside biological systems.

The paramagnetic substances in soil have not been definitely identified. The ORMUS elements cannot be identified using conventional spectroscopic and chemical assay methods.

Mining companies have determined that paramagnetic properties are associated with the precious metals. They are also familiar with the ORMUS elements and ORMUS theory. They are using this knowledge to find and extract precious metals from unassayable desert dirt.

There are several other properties that the paramagnetic soils have in common with the m-state elements. As we explore these correlations we will be able to make more definitive statements about a unified understanding of the relationship between these two classes of materials.

It is possible to isolate the m-state elements from rock, air and water using some very simple techniques. I believe that as we integrate the knowledge that has been gained by people who are testing Dr. Callahan's ideas with the knowledge that we are gaining from our study of the ORMUS elements, we will see a revolution in our understanding of plants and biological systems in general.

I have spoken with Dr. Callahan and he is generally quite supportive of the idea that paramagnetic soils get many of their properties from the presence of the ORMUS elements.

One of the mechanical methods of extracting the ORMUS elements from water depends on superconductive magnetic levitation. Modern quantum physicists claim that superconductivity is a result of the pairing of electrons in the atom (Cooper pairing). When most, or all, of the electrons are paired up, they seem to form a sort of circuit which is capable of storing a lot of energy. We suspect that these atoms become "quantum coherent" and behave as a single atom. If this quantum coherence is associated with a coherent spin horizontal a magnetic field, they sometimes will levitate on that magnetic field.
We have found these ORMUS elements in the earth, air and water. They were collected from air using a magnetic trap at the time of the full moon. They are also present in the water which condenses as dew at the time of the full moon but not in dew collected at other times of the month.

The moon appears to generate a tide in the ORMUS elements in ground water which stimulates them to escape into the air at the time of the full moon. I suspect that this same pumping action might assist capillary action in trees and other plants. If this is true then they would be pumped upward in the trees with the water.

Wood ash was traditionally used to make lye. One researcher has determined that wood ash is a particularly good source for the ORMUS elements.

Dr. Philip Callahan claims that an abundance of paramagnetic elements in soil is the best predictor of plant health. (The ORMUS elements are paramagnetic in rock sources.)

Dr. Callahan also claims that plant material is generally diamagnetic. (The ORMUS elements become diamagnetic when they are dissolved in water.) He says that wood ash is a particularly good source for paramagnetic elements to build soil.

So, it looks like the fact that wood cut at the time of the full moon is more resistant to rot and fire might be explained using alchemy, quantum physics, biology and astrology.

If the ORMUS elements are pumped into trees in greater abundance by the tidal/magnetic/gravitational action of the full moon then the increased presence of these elements in wood which is cut at the time of the full moon might make that wood more resistant to fire and rot.

The presence of these elements in all of the biological forces involved in soil formation and in soil nutrient availability would promote soil health, tree health and forest health. We have also found that the ORMUS elements modify the properties of water. In personal communications Dr. Callahan claims that paramagnetic soil is capable of storing about 50 percent more water than non-paramagnetic soil. The ORMUS elements are noted for changing the viscosity of water in response to light and electrical stimulation. An increase in viscosity, in particular, might have a profound effect on the ability of soil to store water.

It appears that fire and the resulting wood ash are crucial factors for re-paramagnetizing soil. If the paramagnetic ORMUS elements are the crucial meta-nutrients that we suspect that they are, then every manipulation of forest ecology must be examined for its effect on the availability and sequestration of these elements.
1) Paramagnetism: Rediscovering nature's secret force of growth -
http://members.tripod.com/~poetpiet/guest_appearances/paramagnetism.htm

2) Natural Sources of ORMUS Materials -
http://www.subtleenergies.com/ormus/Health/sources.htm

3) Orchestrated Objective Reduction of Quantum Coherence in Brain Microtubules: The "Orch OR" Model for Consciousness -
http://www.quantumconsciousness.org/penrose-hameroff/orchOR.html

4) Brain Tennis -
http://www.hotwired.com/synapse/braintennis/97/41/index0a.html

5) http://www.geocities.com/SiliconValley/Heights/8889/research.html

6) Profit Technologies - http://profit-technologies.zq.com/

7) SW Desert Gold Rush, Platinum Desert Dirts -
http://www.sentex.net/~resource/swdesert.html

8) ORMUS Production Methods -
http://subtleenergies.com/ormus/ORMUS/ormus2.htm


10) Magnetic Levitation "Movie" -
http://www.subtleenergies.com/ormus/research/levitate.avi

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