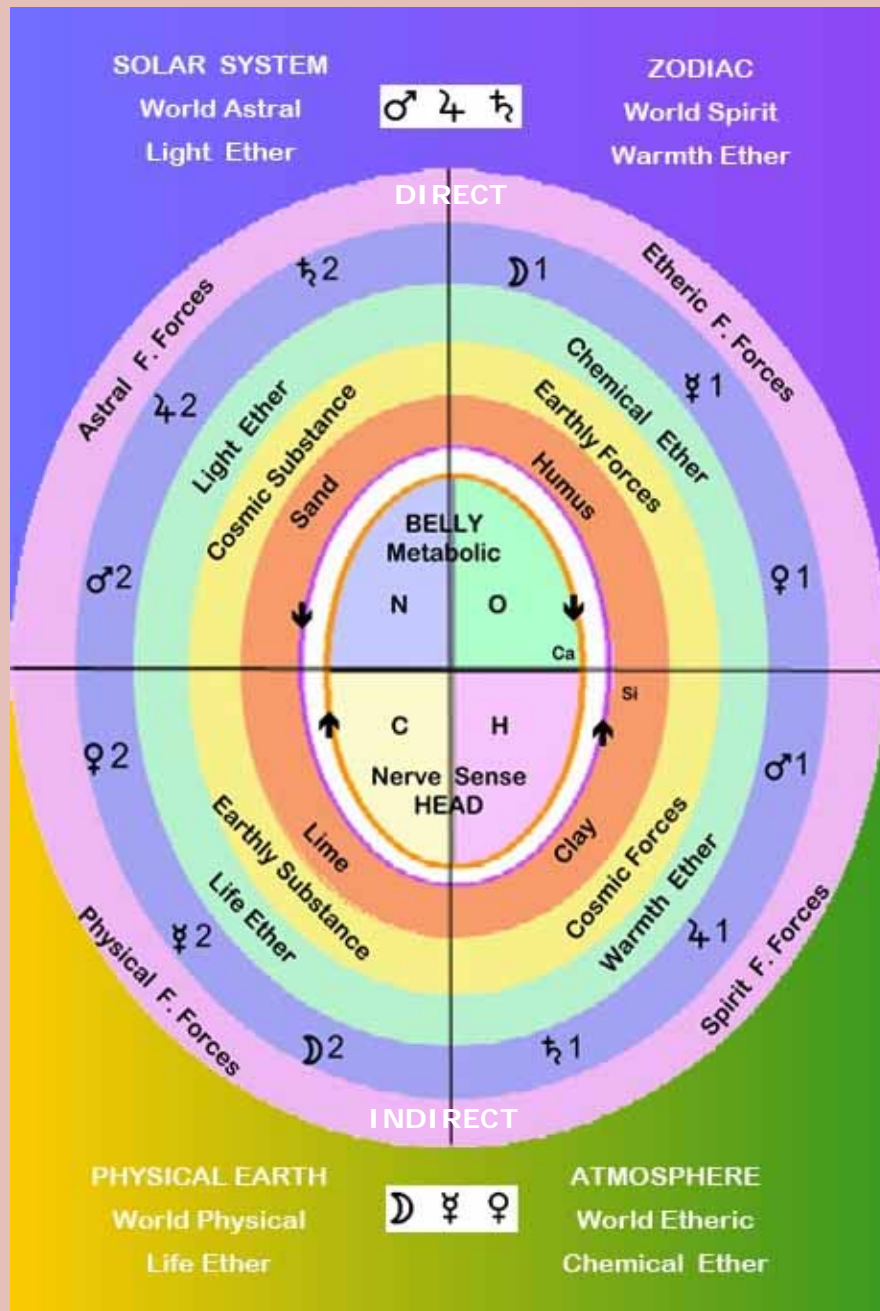


The Planets in Dr Steiner's Agriculture Course



Glen Atkinson

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An Answer to the Question

This edition is the 'bones' of the story for the pdf version available through Mark Moodie.

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The Problem

The impetus for providing this answer to this topic, comes from the circular letter No 119, from the Agricultural Section of the Anthroposophical Society of Switzerland , which details their efforts to produce the 9th edition of Rudolf Steiner's *Agriculture Course* in time for the 100th anniversary of the original lecture cycle. In their notes about their changes there is this passage:

Direct and indirect working of the Planets

There is a contradiction between lecture 2 and lecture 6, which the editors of the new edition draw attention to, without being able to finally resolve the problems involved. In lecture 2 it is said the moon and the inner planets, Mercury and Venus, work together with the sun directly on the plants above ground, the outer planets, Mars, Jupiter and Saturn, on the other hand, work with the sun in a roundabout way via the earth. In lecture 6 it is exactly the other way around: the outer planets work directly on the plant above ground and the moon works with the inner planets, Mercury and Venus, indirectly in a roundabout way via the soil. Important statements about the effect of the moon and the planets on the plants are not impaired by this contradiction!

After 100 years this contradiction is still unresolved by them.

I however, first put forward a solution to this problem in the 1980s. I revisited this topic in 2019 while investigating Rudolf Steiner's comments about Plant Growth. Since 2000, I have been to the annual Biodynamic conference in Dornach 3 times - traveling to the other side of the Earth - and given 5 hours of presentation in which I provided this solution. My efforts appear to have fallen upon deaf ears. I have had no communication with anyone from 'the centre' about my suggestions, even though my answer is completely consistent with the Anthroposophical medical worldview. This possibly is because I am not a member of 'the club', as outlined by RS in the Lesson on the Eighth April 1924. Which is a very sad indictment for true seekers of truth. What I am suggesting is placed within a larger context than European BD appears to be allowing themselves. This larger context - the medical worldview - allows for more complex perspectives to be brought to bear upon this subject.

From what I can tell, the Euro BD story is based predominately upon a 2-fold polar image of a push from above downwards, meeting a push from below upwards. Calcium and Silica mediate these processes, but which is Calcium and which is Silica?

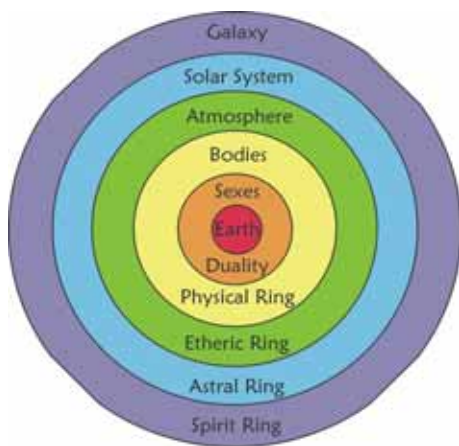
This basic polarity is further enhanced as manifesting through the primary formative influences called the four Ethers. These also work as a polarity of Warmth and Light against Water/Chemical and Earth/Life. This Etheric activity is seen as the dominant Formative Force upon Lifeforms. This Physical Etheric organism is then organised further by the Astral, as a outside imprinting force. The Spirit is not often present as an active player, other than via the Human. This worldview was very ably conveyed by Richard Thornton Smith in his 2009 book 'Cosmos Earth and Nutrition'. When I asked him why he presented this worldview, he told me he attempted to capture the 'accepted' biodynamic story of the time in Europe.

This worldview does not allow for a fourfold polarised planetary reference, as given in the Agriculture Course, and enlarged by Lievegoed, to make sense.

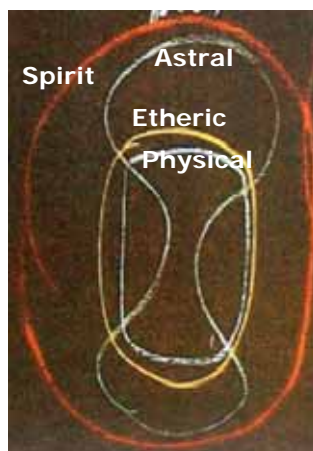
The problem with the Ethers

A significant problem with Dornach's story, being based around the Ethers, is that **the Agriculture Course does not predominately tell the story of the Ethers.**

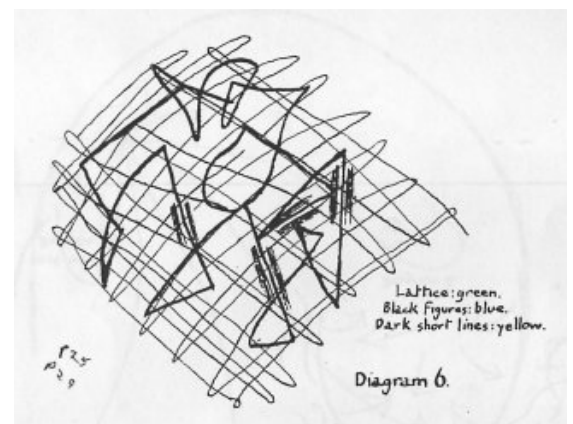
The course mostly tells two different stories of how nature's energies organise. Most importantly Dr Steiner talks of the four primary Astronomical Spheres, - Galaxy, Planets, Atmosphere and Earth - directing their energetic activities under the names of Spirit Astral Etheric and Physical, into Substance. We meet them firstly in Lecture 3, which tells us how the main energetic activities move into Chemistry, while Lectures 4 and 5 gives us preparations to control them and lecture 7 tells us how they work in the landscape.



1



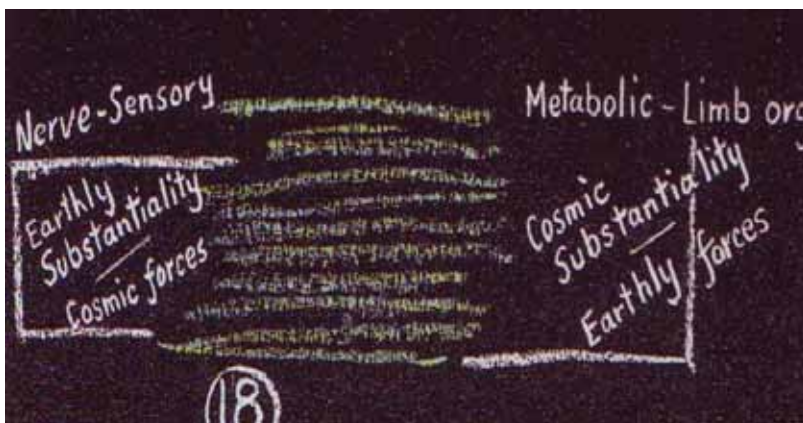
2 RS 1924 Pastoral Medicine



3 Lecture 3

1 is our external environment 2 is how RS drew the bodies inside a Human. 3 is how RS describes the bodies activity in Lecture 3.

The second story is told firstly in Lecture 2, where we are told of how these primary activities manifest within the Physical sphere, as Physical Formative Forces, (PFF) called the Cosmic Forces and Cosmic Substance, and the Earthly Forces and Earthly Substance activities. These work through the 3 fold Physical Organism, using the substances Clay, Sand, Humus, Lime. The best picture for this is from lecture 8.



4 RS lec 8 Ag C 1924

This is our first introduction to the second theme of the Cosmic and Earthly Activities, which is enlarged upon further in the 4th 6th and 8th lectures. Each lecture tells us of a fourfold story in a different sphere of activity.

The micro polaric relationships of the Cosmic and Earthly activities are different to the way the macro polarity upon which the Ethers organise. So there is no easy fit for the Ethers story, into the stories told in the Agriculture Course.

Adding to the confusion is that the Ethers are not THE primary formative influences. They are the players you might see, but they are just following orders from higher up. If we use a building site analogy. The Ethers, which are found in the Earth Atmosphere, (12) are the on site builders. They take their direction from the Master Builder who are the Planets, who in turn takes their direction from the architect, who is the Stars. If we want to know and change the plan we need to talk with the architect.

Dr Lievegoed's introduction gives us the energetic context we have to work with.

" In every living organism
Physical, Ethereal, Astral and Spiritual forces are active.
In the plant, the *threefold* Physical and
the *fourfold* Ethereal forces, work from within outwards,
the Astral forces work around it,
and the Spiritual forces from the starry distance,
where the archetypes of the plants are formed"

"The effects of the Etheric Formative Forces are always general ones.
Never does an organism come into existence merely through the Ethereal processes,
but only when an Astral principle presses its seal upon the Ethereal"

" The working of the Astral principle is carried into this Physical-Ethereal,
as a streaming, moving activity. Manifesting archetypally in a sevenfoldness"

"The Spiritually working principles gather together the form
into a specific species and are archetypally arranged
according to the 12 principles, revealing themselves cosmically
in the Zodiac. It is only through this spiritual element that
'the plant' becomes a rose or a sage,
'the animal', a lion, and 'man a definite individuality."

"In the plant the seed is the carrier, or point of attachment,
of the Spiritual forces *which* form the species.
But the seed only unfolds when surrounded by
Physical, Ethereal and Astral elements in such a way
that these forces can stream freely together."

Here the Ethers are put in their rightful place. The general BD thinking has to move from the Ethers focus , in both directions. Outwardly, by seeing the Etheric in its place amongst all the Bodies, and Inwardly by seeing the Cosmic and Earthly activities (PFF)

as a different story, occurring within the Physical Body of things. This is a move inwards into the Physical. The Etheric Forces and the Physical Forces are both fourfold, however the way they work internally are different. The PFF polarise as micro polarities. While the Ethers are generally talked of within the macro polarities (pg 16) of the Cosmic Ethers of Warmth and Light polarised against the Earthly Ethers of Chemical/Water and Life / Physical. The Physical Formative activities, use the micro polarities and have the Warmth related Cosmic Forces polarised against the Physical Life Ether related Earthly Substance, while the Light related Cosmic Substance is polarised with the Chemical / Water ether related Earthly Forces. They are two different stories, and why Dr Steiner uses different words to tell their stories.

The Ethers story is told in Man as Symphony of the Creative Word - Lecture 7, 2nd November, 1923 <http://wn.rsarchive.org/Lectures/Dates/19231102p01.html>

How the Ethers story has become the dominant reference for Biodynamics is a separate mystery to solve. (13) A key understand though is that the Cosmic Ether, these folks are talking about, is a conglomerate of ALL that is above, which includes the World and Cosmic Etheric, Astral and Spirit spheres. That is six further divisions of the Cosmic Ether.

Once we appreciate the inner structures of the Course, we can understand some of the deeper offerings of the course.

But first lets look at the planets problem.

In Lecture 2 we have this

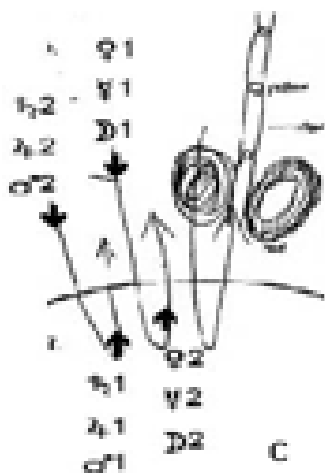
"The forces at work above the earth are immediately dependent upon what we will regard for the time being localised on the planets Moon, Mercury and Venus. These planets in strengthening and modifying the effects of the Sun, exercise their influence on all that is above the earth surface, while the more distant planets lying outside the earth's path round the Sun strengthen and modify the effects of the solar influences which penetrate upwards through the earth. Thus the growth of plants is affected by distant heavens in so far as it takes place underground, and by the nearer heavens in so far as it takes place above ground; and the influences upon vegetable growth coming from the expanses of the Cosmos do not shine directly down upon the earth but are first absorbed by the earth which then causes them to radiate upwards. What come from beneath as good or bad vegetable growth are really the cosmic influences which are reflected from below; whereas in the air and water above the earth the Cosmos exercises its power directly. The direct cosmic in-streaming is stored up beneath the earths surface, and from there it works back. The inherent qualities of the soil affecting the growth of plants are dependent upon these stored up influences. (Later we shall consider the case of the animals). The soil still retains in it the effects of influences dependent upon the most remote parts of the Cosmos, which need to be considered in connection with the Earth. These effects are found in what we know generally as sand and rock; the substances which do not absorb water, which are ordinarily supposed to contain no nutritive elements whatsoever and which nevertheless play a every important part in the promotion of growth. These minerals are entirely dependent upon the activities of forces coming from the remotest parts of the Cosmos..... ..Now the

effects which have been brought about in the root through silicon (cosmic outer planets) must be borne upwards through the plant. It must stream upwards and there must be a constant interaction between the cosmic forces that have entered into the plant through silicon and those that are active above - forgive me in the "belly" and that supply the "head" below with what it required. True the " head" must be provided for out of the Cosmos but this process must interact with that which takes place above ground in the "belly". The forces coming in from the cosmos and being caught up underground must be able to flow upwards again, and the substance which brings this about is clay. Clay is the mediator through which the cosmic activity in the soil is enabled to work from below upwards. In actual practice this will give us the key to the handling of both clay soil and sandy soil according to the particular way we may wish to cultivate. But we must first know what is actually happening. How clay is to be described and treated in order to make it fertile are important but secondary considerations. The first and foremost thing to know about clay is that it promotes the cosmic upward flow. "

In Lecture 6 we have this

"It was pointed out that we must learn to distinguish those forces which arise in the cosmos but are absorbed by the earth and work upon plant-growth from within the earth. These forces coming from Mercury, Venus and Moon and act not directly, but through the mediation of the earth. They must be taken into account if we wish to follow up how the mother-plant gives rise to a daughter-plant, and so on. On the other hand, we have to consider the forces taken by the plant from the outer-earthly, and brought to it by way of the atmosphere from the outer planets."

"Now I want you to imagine that Diagram C represents the earth level, where the influences of Venus, Mercury and Moon I **enter into the earth and stream again from below upwards**. These are the forces which cause the plant to grow during the

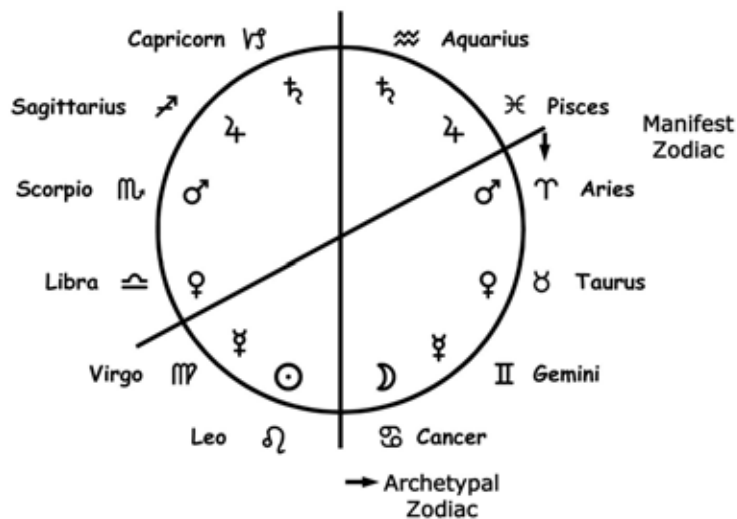


season, later produce the seed, and by means of this seed a new plant', a second plant, then yet a third and so on. (I indicate this schematically). All this goes into the power of reproduction and streams on into the succeeding generations. The forces, however, which take the other path, remaining above the earth level, come from the distant planets. I can draw this schematically in this way. These forces cause the plant either to spread into its surroundings or to become fat and juicy, to build matter into itself such as we can use for food because it is produced again and again in a continuous stream." "From this we are able to see how we must proceed if we are to influence plant-growth in one way or another. We have to take account of these two sets of forces."

☾ Moon	♅ Uranus
☿ Mercury	♆ Neptune
♀ Venus	♇ Pluto
♂ Mars	♁ Persephone
♃ Jupiter	♂ Vulcan
♄ Saturn	☼ Sun

Diagram C, with my additions, seems to answer the problem adequately.

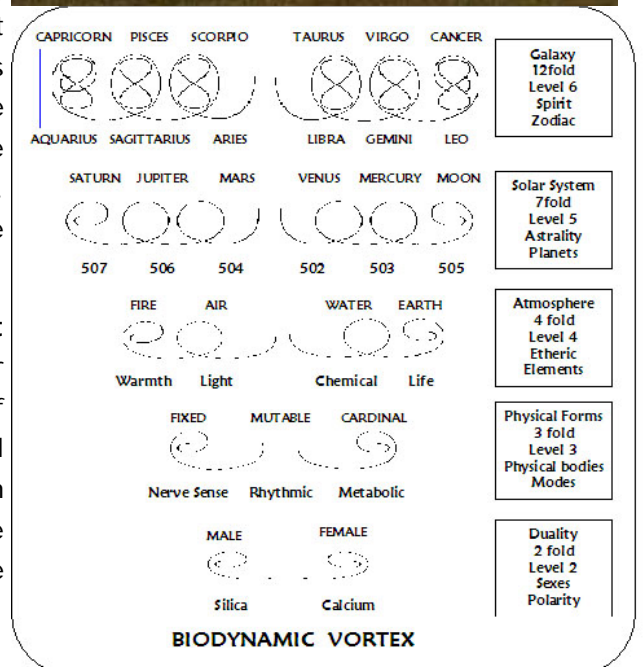
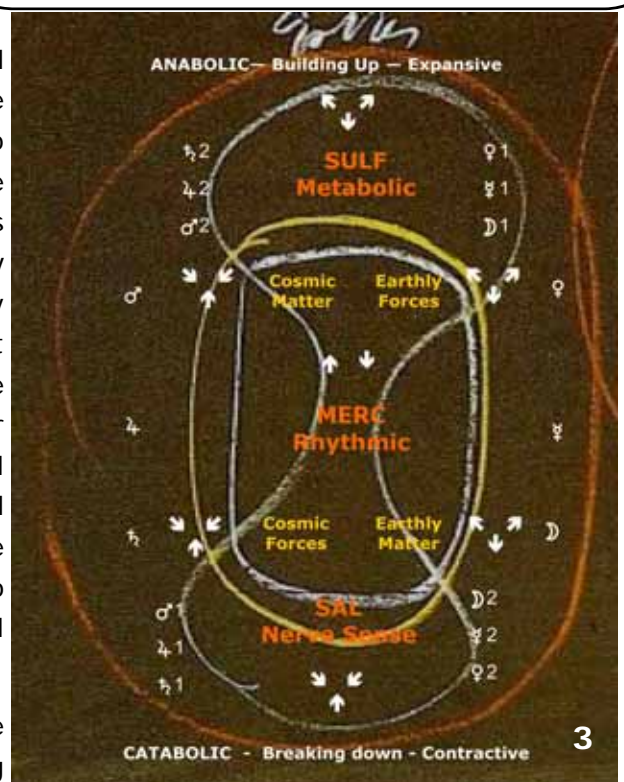
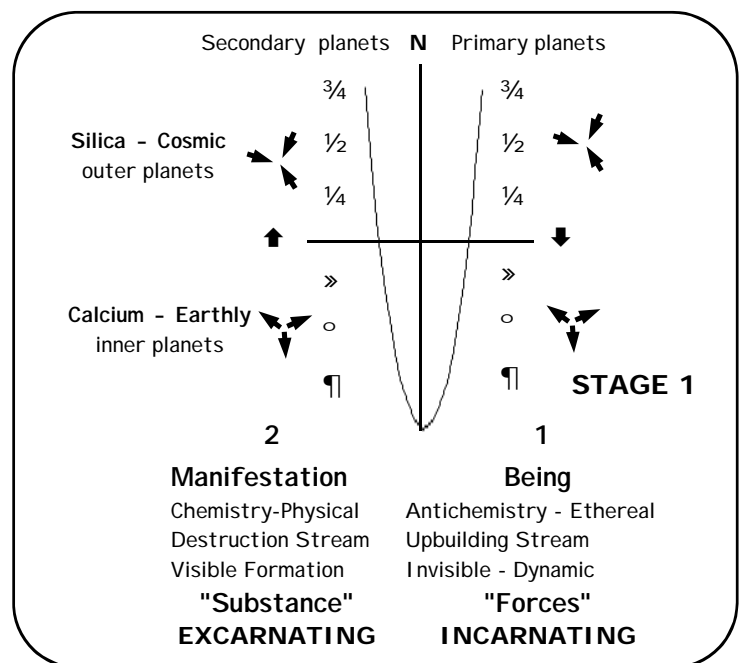
To address this planetary contradiction ,we need a further step to be added to the single '7 Planets' story, most of Biodynamics works with. Dr Lievegoed in his 1951 lectures (4) provides us with the entrance point. He tells us that all the



6 planets have two actions, one as they come towards the Earth, he calls Incarnating and another as they leave the Earth called Excarinating. This planetary order is present in the Zodiac. He is bringing Steiner medical insights to our aid. The medical picture is somewhat more complex than a simple polarity image, and asks us to look for the four primary activities at every level of the 3 fold physical manifestation. Initially though it is enough to look for two dominant players in each physical system. (pic 3) One drives the expansive processes and the other drives the contractive processes, in each physical system. This is also the story of the Cosmic and Earthly processes in the Agriculture Course. The trick though is how we get from Dr Lievegoed to the Agriculture Course, and onto the Seasonal pictures.

We can not escape that Dr Steiners stories are complex, and multi layered with many moving parts. He often uses completely different languages to tell the same story. The planets however are often the only common reference between the stories. So the Planets story are the key players to follow through the various stages. They keep their name throughout this interactive phenomena.

We are playing a **6 layered game of chess, that moves through three different stages.** Dr Steiner describes the three stages in his story of the Galactic Spirit World, Planetary Soul World and Earthly Physical World, spoken of in 'Theosophy'. He speaks of the 6 layers all the time. He describes what he sees, from where he



is, often without giving us the exact xyz coordinates, although he names everything so we can find our way.

All the Layers are energetically linked, and work simultaneously in the same space and time. While all the individual parts can exert their own force, to influence the larger energy vortex. Creation is a very dynamic Being, and keeping track of it all is a trick. It is so complex I have needed to exteriorize the stories into Pictures. Dr Steiner's stories are based upon Astronomical realities, of various kinds. Simply put he has observed the basic universal order of 1 unity, the 2 polarity ,3 Physical Modes ,4 Elements ,7 Planets, and the 12 Constellations. So any Pictures derived from following these Universal Laws can provide us with potentially truthful information, as it is based upon real astronomical truths. I rarely know what my pictures mean when they are first created, as I have just followed the 'rules', but by looking at them further many potential truths have arisen.

Dr Steiner gives us signposts along the way. He provides a jigsaw puzzle of ideas, images and applications. We have to be able to fill in the gaps between the signposts, and organise the parts into a coherent story that does exist amongst it all. This is a very Neptunian activity. As we would expect from RS birthchart , (14) where we see a lot of Neptune's influence. He forces us to merge an array of diverse imaginations together. 95% of the leading BD people, whose birthcharts I have seen, have a strong Neptune active. Interestingly several have a Sun square Neptune, which suggests they can be a tad eschew with their imaginations.

We are lucky to have 1000s of medical doctors working on this same worldview. They have refined Dr Steiner's story into a credible real world modality. All we have to do is find the connecting points to the Agriculture Course, and all their science is available to us. Then we can ask what are we going to do with this insight. How do the Agriculture Course passages read now.

Dr Steiner's story of how nature works is bigger than the Ag Course. This is only one part of the overall story. We have to include Dr Bernard Lievegoed's 1951 book on the Planets, along with at least two 1923 lectures, where the Ethers are mentioned, to get an fair overview of RS suggestions, towards Nature. We have to understand where RS comes from (Lievegoed) and where he goes to in these 1923 lectures. This is where we find three distinct stages of development, and three different planetary patterns. Nothing is 'wrong' , we just have to see where everything is 'right'.

I am the Periphery. I am not German, I am not an Anthroposophist, I live at one of the farthest Eastern places on Earth. The first sunshine of each new day, hits the hill behind my house. This is the farthest point away from Europe. I am one person, with a garden, a keyboard, and a successful BD business that has funded my interest in Dr Steiner's suggestions, for 30 years. I am also an avid Astrologer and this brings many useful understandings of this whole story, to the conversation. I have done my own study of Dr Steiner with very little outside input, and I have come to my own conclusions of what he is saying. I am so glad that at the end of the rabbit hole, the story is the same story told in the medical lectures. Whew, its not MY story. How I make sense of it all is my story, but what we are making sense of has many friends, who tell a good tale. All this has allowed me to look at the information through clear eyes, free of the existing Anthroposophical and Biodynamic beliefs, which are acknowledged as inadequate.

This is what I see.

My Process

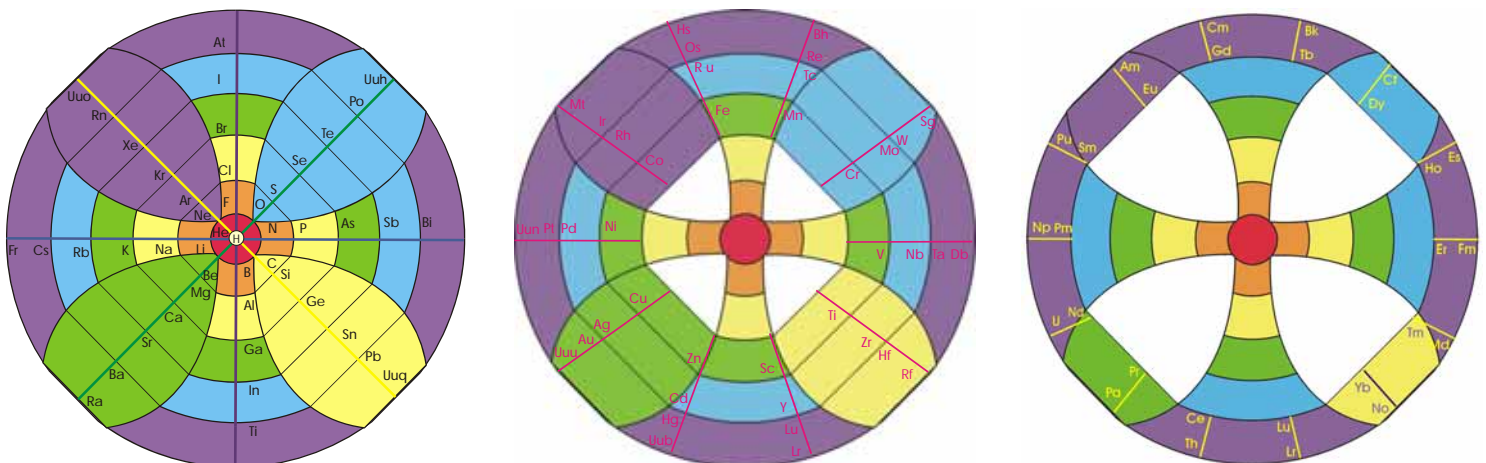
Through his Goethean Science Dr Steiner has given us a way to generate new information. With his use of 'universal laws' based upon the astronomical reality of the Universe, we can use the observable order we find when looking at the universe, as the 'universal' reference for our observations of Manifestation.

"... when we want to understand the plant, we must bring into question not only plant animal and human life, but the whole universe. For life comes from the whole universe not only the Earth. Nature is a unity and her forces are at work from all sides. He who can keep his mind open to the manifest workings of these forces will understand her. " R.S. Pg 70 1938 Agriculture.

The external organisation in Galaxy, Solar Systems and Planets and their Atmospheres, are fundamental organised realities, real energetic dimensions within the Creative Vortex. Physics and the Golden Mean maths that describes their form are the flesh upon these bones. Dr Steiner describes these patterns resonating into the forms of Life, as boldly as in the four Kingdoms of Nature. (21 page 18.) Where each kingdom embodies a further astronomical sphere. The mineral kingdom is just physical Earth. The Plant kingdom embodies the life giving Oxygen filled Atmospheric activities, while the Animal Kingdom adds the sensitive movement we find in the planets of the Solar System , while the Human Kingdom embodies the individualising forces of the Stars.

Dr Steiner used these resonating patterns in many of his natural science lectures. We can see a structure long used by Astrology, and RS talked of as the 12-fold, 7-fold 4-fold 3-fold 2-fold and unity, order. My 'Bernie and Glen' piece adds to this conversation. (22) We can also remember RS suggestion at the end of lecture 5 in Cosmic Workings in Earth and Man — *"And one must also know astrology, the science of the stars, if one wishes to understand the formation of cambium"*.

My observation method, (as I can not really says it is identical to RS's) asks us to collect all the available scientific information on a topic, then look at this information. Look for patterns in the scientific information in front of you, identifying any of these numbers. Once the Number Dimension is established for your cluster of information, we can look for further organisation, within it. In my chemistry investigation I observe three groups of elements, each with a different number. There are 8 groups of Major elements, 10 groups of Transition elements and 14 groups of Lanthanide elements. This



suggests the numbers 4,5,and 7 can be organising principles for these elements, and that there may be a inner polarity between the one group of 7 elements and the other group of 7 elements, within the 14 Lanthanides and so on. I then used melting points, valances, atomic weight and the elements uses, to further define an order that can be further related to any other information I already have related to the number 7, within a circle. (1)

In this way we can build up reference points for establishing possible truths that can be further researched. We can ask how does the inner order enliven the information and what insights have been generated through that exploration?

This process has led to a large Astrological Equation, that moves according to the context it finds itself in. The context always has some relationship to an Astronomical basis, so has a basis connected to truth. However the Universe is a big place and there are many context changes. Keeping an eye on the astronomical reality is the shining star in the night. The Astrological rules provide some boundaries to form our findings into things worth investigating. Astrology is based upon the Physics of Creation.

This new information should be considered speculative, however the speculation is based on a proven theorem. So it has a very high potential of being right, and is thus worth pursuing further. We must look for ways to prove this speculation, or not. Keep doing this.

I see this activity as Dr Steiner's first stage of Perception. He then describes a second stage as what happens when our intense study and observations reach a peak, which in my case is usually accompanied by some frustration. At this point I release or give up on the thought form, and into this space flows new possible ways of approaching the subject. An answer to the question that was unable to answered before, often appears.

We can imagine this process as our Internal Spirit , through focused thought , enlarging in size and pushing out into the surrounding environment. Our 'environment' is initially created by the real energy coming from ALL the billions of Stars. This energetic holographic field is called the World Spirit sphere. It is within this energetic field that the planetary Astral and atmospheric Etheric influences can do their further organisation. When we actively think and imagine thought forms we are pushing out into the World Spirit sphere. We are consciously looking for inspiration for our questions, pushing in the Collective Unconscious, held within the field, with our meditations on our subject. Most people can receive some direct help from this activity. However when we release our focus and the push outwards, the World Spirit and Collective Unconscious push back and flood into the empty space in our consciousness, left by our thought form. The answer is supplied out of the Universal reasonance responding to our thought development. Thought is indeed a formative force and the universe responds. Everything is in movement and in response to everything else.

The third stage of RS perceptive process is when we can meet the energetic individuals in the surrounding field, who are focusing these Cosmic Thoughts back to us. Here personal conversations with these energetic individuals can be had. These Beings can be of all manner of nature, from dead people through to Elemental, Planetary and Star entities. Whoever you wish to communicate with is usually available. Just ask.

Receiving what they have to say is often my difficulty.

This is the process of 'knowing all things'. Every thought and feeling ever had by anything on Earth, leaves an impression within the energetic field of the Earth. If we can become conscious of how we are embedded within this field, we can access Inspirations, Imaginations and Intuitions. Ask and the field replies.

When this process become fully conscious one is 'Enlightened', and is one step beyond Pluto and at the sphere of Persephone, which Dr Steiner calls 'Solid Land' in lecture 3 of Occult Science. Creative visualisation or directed intentions leading to manifestation, becomes almost instantaneous, in this sphere.

During all these stages we are generating really good new information.

Dr Steiner suggested that his followers join together and listen to each others insights as 'spaciously' as possible. His path is about discovering new truths which work with the Universe, to produce more ordered and sustainable Life.

This is a new frontier and we have the tools to explore it consciously and safely.

The 7 Planets

Dr Steiner's references to the planets within the Agriculture Course are scant, quite confusing and thus easily neglected. There are two ways of approaching them. One is quite simple, while the other is somewhat more complex. We best start with the simple approach.

In the first lecture we are given the external 'World' big picture, of our planet. Dr Steiner is describing the primary polarity between the contractive processes, we suspect are coming from above as Cosmic influences, working through the outer planets, and through Silica into the Earth. These activities are polarised against the expansive Earthly processes, working through Calcium and the Inner Planets. This image reflects the creation myths of most cultures, where the Sky Father meets with the Earth Mother and the children or Life are created in between the two.

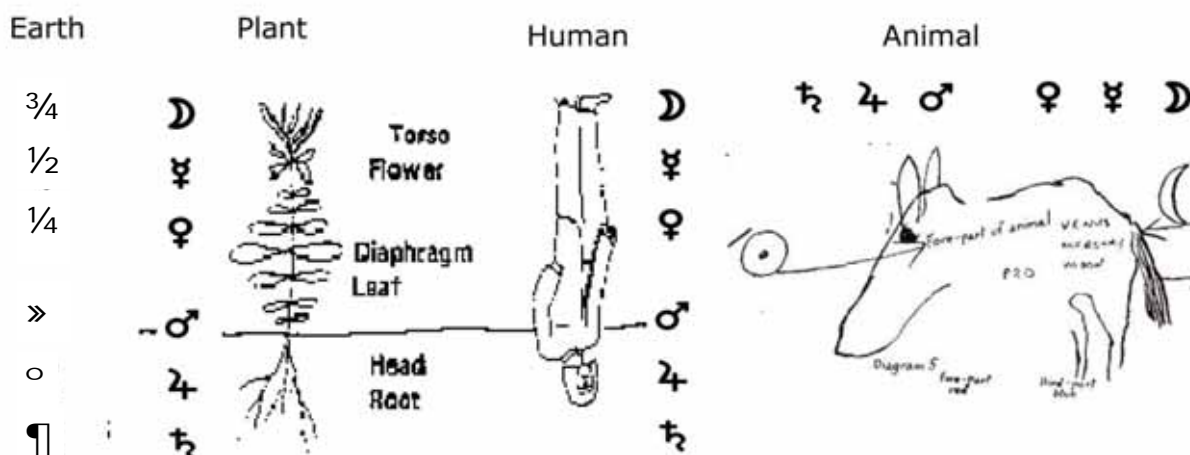
So while, Dr Steiner does not say clearly, which set of planets are coming from which direction, it is fair for these relationships to be established, for his comments. The planetary references here suggest the 'Earthly' inner planets come from below, supported by the Earth Mother, while the Outer Planets come from above, supporting the Sky Father. I suspect most people leave the first lecture with this image.

Elsewhere RS talks of the Human having a similar organisation. The outer planets work in their head, while the inner planets work below in the metabolic system.

But then in the second lecture we have something different, where we are given the internal organisation of the plant based farm organism. In this story the Inner planets are coming from above, and the Outer planets are coming from the Earth. The plant is to be seen as the opposite of the Human. The contractive 'head' of the plant is the roots, while the reproductive parts of the plant are above the soil. So in their physical organisation it is fair to outline the planets in this manner for plants.

For animals we find in the latter section of lecture 2, RS shows how the animals, while orientated on the horizontal plane, has a similar organisation, that the head is ruled by the Sun and the outer planets, while the back of the animal is ruled by the Moon and the inner planets.

This planetary order is interesting. It is based upon the **lengths of the various planets cycles around the Sun**, and in the case of the **Moon around the Earth**. So



these are **real rhythms within the electro magnetic body of our environment**. This same order found in the planets relationship to the Zodiac. (pg 28) This is an interesting mix of Heliocentric and Geocentric realities, as we experience them on Earth. The inner planets are not our Geocentric experience. The Sun is seen from the Earth, yet it is still given its Heliocentric Star status, and is seen as the Spirit providing a central balancing and directing influence of the other planets.

With RS's use of this order we are presented with an image of the 'earthly' inner planets - those closer to us than the Sun, including the moon - and the 'cosmic' outer planets, those more distant than the Sun, and as far as Saturn.

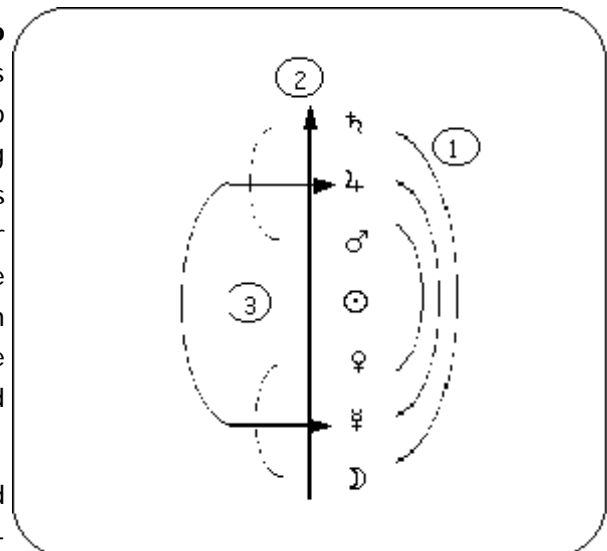
To observe Reality we need to keep both Heliocentric and Geocentric 'realities' in mind. Reality says the planets are within concentric

spheres of magnetic rings around the Sun. However, seen from the Earth they start at the ionosphere, and extend to the edge of our solar system. At present this pattern extends out to the orbit of the most recently discovered planet, Pluto. However, when dealing with manifest life it is common to use only the 'traditional' heavenly bodies that we can see with our eyes: Sun, Moon, Mercury, Venus, Mars, Jupiter and Saturn. The three further planets - Uranus, Neptune and Pluto - were consciously discovered in more recent history and are associated with areas of extra-sensory perception and the collective unconsciousness. The 'original' seven planets, are connected to the physical manifesting streams of the universe. Saturn is seen as the limit or boundary-giver.

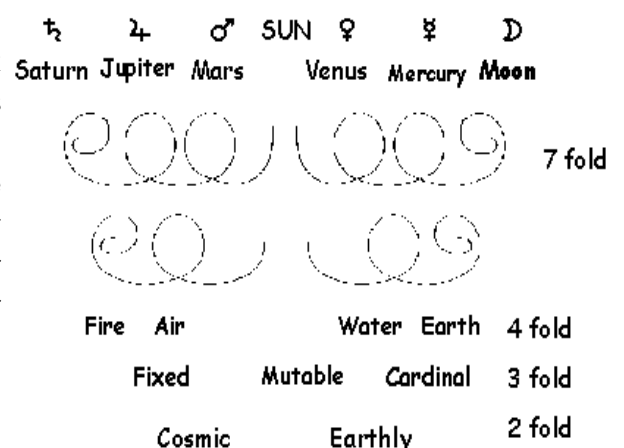
We experience the planets from Earth, so we have to also consider their apparent retrograde movements as a geocentric phenomena, even though this does not occur heliocentrically. Given our central position in the planetary order, it so happens that we have three planets on each side of us. This is just as it is. Within Astrology the planets can be organised into several patterns of relationships, however Dr Steiner uses this primal order for nature.

Polarities

If we follow the natural expansion of the vortex spiral, talked of earlier, we see the middle elements of Air and Water from level four, continue to divide forming a third polarity. We can identify the same divisions we found at the 4-fold level: While Dr Steiner describes the Macro polarity of the Outer planets as a Cosmic group, polarising to the Inner



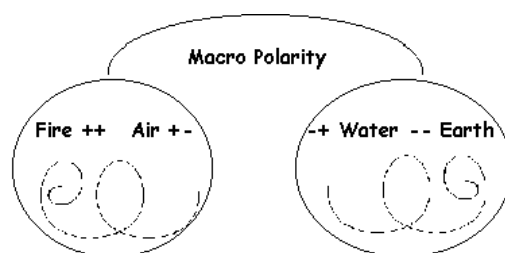
☾ Moon	♅ Uranus
☿ Mercury	♆ Neptune
♀ Venus	♇ Pluto
♂ Mars	♁ Persephone
♃ Jupiter	♄ Vulcan
♄ Saturn	☼ Sun



planets, Earthly group. We can also identify the Micro polarities between the individual planets of each group.

Macro-polarities

Because we are concerned with life on planet Earth, we observe the solar system as if we and the Earth are at its centre. From this position, as we look out we see there are three planets closer to the Sun than us, and three further away. These inner planets are the Moon, Mercury and Venus, while the outer planets are Mars, Jupiter and Saturn. The macro-polarity of the solar system is immediately obvious from this image. {See pg 14}



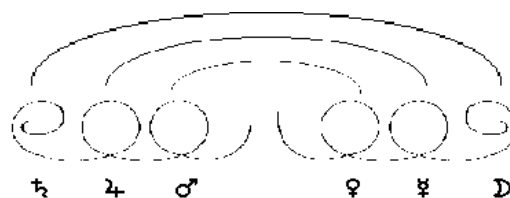
The outer planets are considered assertive and 'worldly'. Traditionally these three planets have been associated with the following attributes: Mars being actions taken in the world, Jupiter with the cultural and philosophic condition of any group, while Saturn governs the rules and bureaucracy of any social grouping. In Nature we see Saturn as carrying the Spirit impulse from the Stars, into manifest forms. Jupiter adapts this hard set of plans to the situation at hand, while Mars finds the appropriate physical avenues for these plans to be executed.

The inner planets are more personal and retiring in nature: Venus governs the receptive side of relating and what makes you feel good, Mercury generally covers communication, while the Moon covers the personal emotional response, instincts and nurturing needs. In Nature the Moon governs germination and the primary growth force, while Mercury plays the adaptive role of making the growth forces active in the plant through leaf formation, while Venus meets the outer planets from above and presents them with flowers to fertilise.

The outer planets are concerned with that which endures beyond the first cycle of any impulse, while the inner planets are associated with more transient phenomena. Each planet has its own individual quality, but also functions as an 'organ' in the body of the solar system. Indeed, medical astrology ascribes each planet the rulership of specific organs in the human body.

Micro-polarities

The micro-polarities found at the early layers of the Vortex continue as a development between an outer planet and an inner planet. These individual polarities form creative harmonies which can be identified in many different areas of life.



The Moon and Saturn.

The moon is the closest object to the earth, and is classed in Astrology as one of the planets. It is associated with the primary nurturing of and uncontrolled development of life. If left to itself, the moon forces would create life as an amorphous mass existing

only to multiply as in primary cell division, hence creating the concept of 'The Blob'. It is emotional and 'watery' in quality and associated with a primary stage of intuition, through unconscious reaction to sensation. The first few years of a baby's life are very much moon years.

The Moon has the shortest cycle and is associated with quick growing plants, and those that retain a large content of water. On the one hand, this governs Cacti and succulents, and on the other it governs most of our vegetables.

Saturn is the wise old man, with an authoritative image, who brings structure and form to the Moon's growth. It brings form, manifesting as the human skeleton and skin, responsible action and social systems, or bureaucracies. Left to itself it would continue until we and its other forms, become sclerotic stalactites. It is only through the balanced interplay of the Moon and Saturn (the child and the adult) that life finds form and maturity, at their allotted optimum time.

Saturn rules the evergreen trees and especially the conifer varieties. Their rhythms are usually of long duration and their lifespans are in multiples of 30 years. The restrictive quality of Saturn is noted in their pyramidal shape. Their sap is slow and often resinous. This polarity is - the will to manifest.

Jupiter and Mercury

Traditionally, both Jupiter and Mercury are considered to govern intelligence. Mercury is quicker in nature, and scurries about collecting all the facts. Jupiter is the philosopher who examines, balances and gleans wisdom from Mercury's information.

The image of Jupiter is of the well-rounded mature entity, governing the cultural life of a community and the middle years of life from 30 till 50 years. This is the period when one has accumulated experience and wisdom and still has the health to act consciously. It shows in plants as well as humans. It governs the deciduous trees that often form well rounded spheres, for instance the English Oak, and fruit trees of all kinds.

Jupiter trees are deciduous and form spherical canopies, with their sap being more fluid and their lifespan usually of moderate duration. Fruit trees and the Oak family are good examples of Jupiter. The abundance of Jupiter is evident in the fruit we gain from her charges.

Mercury on the other hand governs climbing and creeping plants that need a supporting tree to hold them upright. The adolescent with their endless stream of unfocused energy personifies Mercury. The key thought here is that both planets expand whatever they touch.

Mercury runs and weaves following the path of least resistance. The plants it governs are the vines and the runners. Mercury's mark is seen in any climber that does not support itself.

These two can be seen as - the thinking planetary polarity.

Mars and Venus

This is the polarity of the feelings.

Venus epitomises all that is beautiful and harmonious in the environment. It can be said that its sole aim is pleasure, and being an inner planet, it gains pleasure through attraction i.e. by its beauty it attracts. It is concerned with an easy interchange between any two objects and aims to achieve harmony. It creates the milieu for social interaction to occur. Romance and foreplay are both Venus' activities.

Venus rules plants in which flowering predominates and has been associated with Alpine and desert plants. These plants lie dormant for long periods, and when the conditions are right, flowering occurs. Their flowering can be extremely short, but is the highlight of their life.

Mars, on the other hand, takes action to get what it wants, and is prepared to achieve its aims at any cost. With Mars there is always some loss in the process of gaining the prize. It is gross compared to Venus but in their intermingling a harmony is reached and Mars happily gets for Venus anything she wants.

Mars' cycle is 2 years and governs both biennial plants and the shrubs, especially the shrubs that have an element of die-back in their growth. After flowering and fruiting the new shoots come from the growth below.

In so doing these are the planets of relationship and feeling.

The Sun

The Sun is symbolically the central spiritual individual, the "I AM" presence, who mediates and harmonizes the creative tension set into play through the planets. As such it is a balance of all the above energies. The Sun is the mediator of all the planetary forces and its plants show a balance of all the parts. The clovers and grasses are Sun ruled. The roots, leaves and flowers all have equal predominance in the life cycle.

The "far-out" Planets

Uranus, Neptune and Pluto, being collective influences generally work in areas beyond the individual, in group phenomena. Uranus governs Group Ideologies, Neptune -Group Faiths while Pluto governs Group Movements. If an individual has personal planets closely related to these outer planets it gives them the opportunity to connect with collective impulses more closely. Telepathy and psychic perception arises from this situation. Uranus creates the Occultist, Neptune the Mystic and Pluto the Shaman.

They do indeed create 'far-out' individuals, some might even say "beyond the fringe".

These associations are archetypal in nature and while the varieties mentioned, carry the mark of the planet most prominently, there are many plants, that carry a mixture of influences.

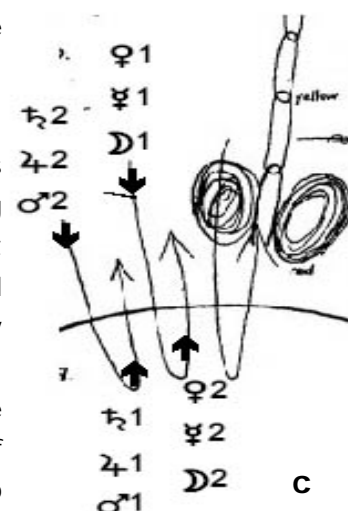
This planetary order is useful as an overall image of Biodynamics, however in the Agriculture Course we have to take another step to really understand what RS is offering, with his other planetary hints.

So if we keep things simple and disregard several annoying comments there is 'no problem', RS is simply describing how the planets relate to the physical bodies of the 4

SPIRIT Indirect Outer Pl. 1 Warmth Cosmic Forces Clay	Cambium	Saturn	P	Valerian	Strengthens the Spirit
	Salamanders ↓				
ASTRAL Direct Outer Pl. 2 Light Cosmic Substance Sand	Sylphs	Jupiter	S	Dandelion	Merge Spirit and Astral towards the Physical
		Mars	Cl	Nettle	Harmonise the Astrality
	Life Sap	Sun	Ar	Equisetum	Astral stimulates the Etheric within the metabolism
ETHERIC Direct Inner Pl. 1 Chemical Earthly Forces Humus	Undines ↓	Venus	Na	Yarrow	Opens the Etheric to the Astral
	Gnomes Wood Sap	Mercury	Mg	Chamomile	Stimulates the Etheric
PHYSICAL Indirect Inner Pl. 2 Life Earthly Substance Cations	↑	Moon	Al	Oak Bark	Etheric binds to the Physical
	500	Earth	Si	Quartz	Spirit binds to the Physical

kingdoms.....until we look deeper and especially when we come to lecture 6, and diagram C.

In the 6th lecture, where we are dealing with **manifest** problems and the planets are reversed, the Outer planets are coming from above, and the Inner planets are coming from below. Along the way RS speaks of Direct and Indirect planets, in three different contexts. Given this confusion and small amount of text devoted to the planets, people easily dismiss these planetary indications as interesting curiosities, and choose one or other of the directions. Commonly lecture 2 wins, as this conforms to the basic Biodynamic image of plant growth, even though that order does not conform to the basic logic we found in Lecture 1.



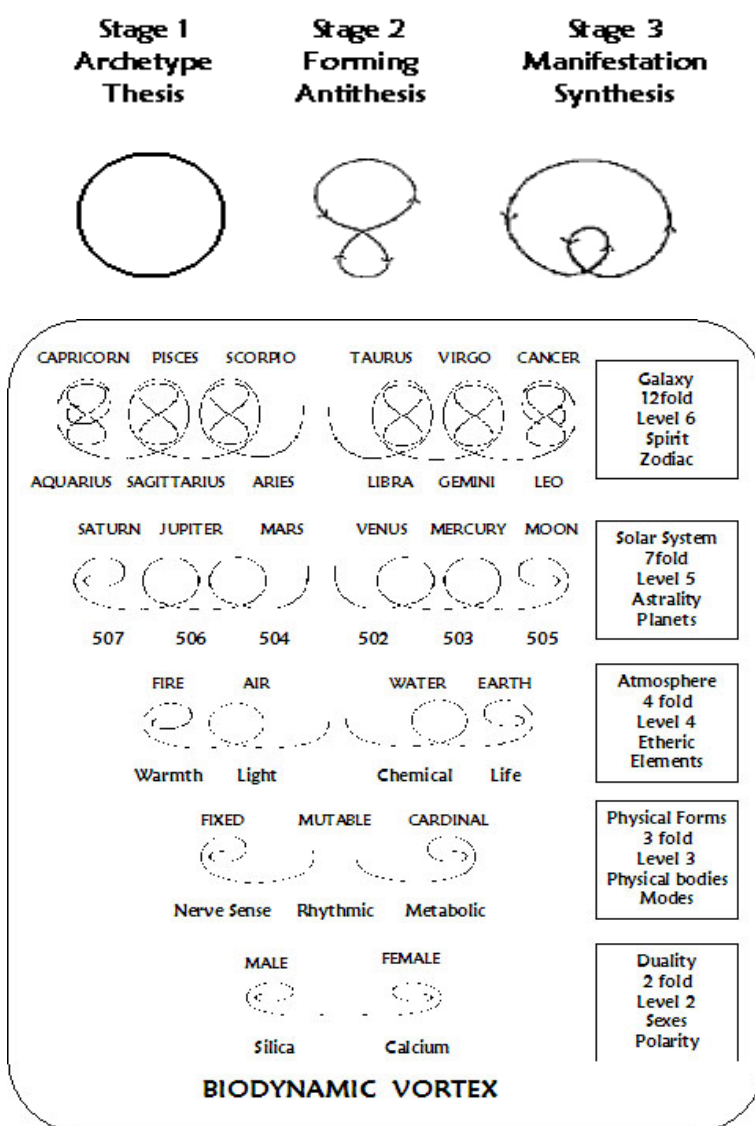
Being an Astrologer, all this means a lot to me, so losing the planets is not an option. Even to a reasonably astute and experienced Astrologer, Dr Steiner's use of the planets are challenging. He plays a few 'games' with them that are not commonly found in most Astrologers bags of tricks. He uses the planets more as part of a formula of forces, that can move into different arrangements according to their contexts, rather than as set of characters sitting around a table chatting – an imagination that helps in animating a birthchart. As unusual as this is, it is important we find our way through his games, as the planets are the golden thread through his story, that allows all the various layers and their parts, to be followed through this very winding road, we call Biodynamic understanding. I have been exploring these byways since 1976, with my Astrologers eye, so while my story may seem complex, it is coherent and the only way I have found, that all the pieces of the puzzle fit together, without the trickery of religious references.

3 Stages of Manifestation

Along the way I have created a map of sorts, that provides the contextual framework to what is best imagined as a 3-stage development of a 6 layered game of chess. Dr Steiner is outlining a process of manifestation, that does not take place all at once, and certainly can not be told in one sitting. Dr Steiner and Dr Lievegoed have clarified this 6 layered game clearly enough. While the 3 stages that this 'Creation's Vortex' moves through, is told in the 'World' stories. It seems very few people have been able to follow 'the path' very deeply. While the 'dots' are throughout his literature, the pathway through those dots, is not easily spotted.

This pathway shows there are three stages for the process of the Universal Intention or Archetypal Thought to become Manifestation. This three stage process is relates to the Galactic Spirit World, the Planetary Soul World and the Earthly Physical World processes. It can be seen in the most fundamental of life processes, Cell Division. We begin with an existing sustainable cell (1), which then begins to pulsate for a time (2), before it then divides (3).

Similarly, I have come to see in many things there is an Archetypal Impulse, coming from the Stars; there is a stage 'behind manifestation'; and then there is manifestation. This may seem all very academic, however when we explore Dr Steiner's stories , we can find these three stages being outlined. If we do not know which stage is being discussed at which time, considerable confusion arises, and why 99% of readers believe the Agriculture Course can not be understood.



I believe it can be understood. The wrong tools have been used for the job at hand.

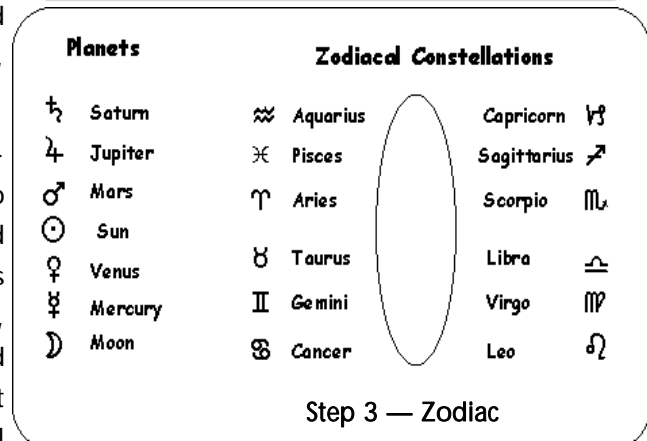
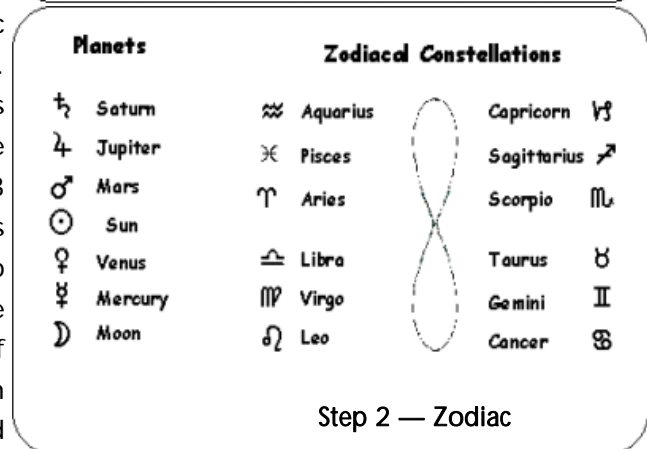
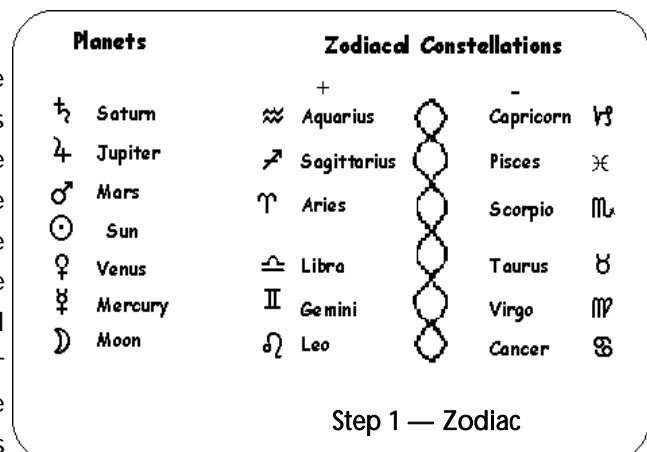
I first saw a hint of these three stages in my journey through 'Biodynamics Decoded' which I made available in the 1980s. I had realised that the perspectives used in astrology - the Zodiac , The Planets, The Elements, The Modes, Duality and Unity - were all different levels of the one Vortex. Each level describes the same thing - reality - but within the pattern and laws of its parts. Unity polarises to complementary

opposites, male & female, positive & negative, etc. At the next level these polar aspects interact to form a middle space and together these are known in astrology as *the modes*: cardinal, fixed and mutable. In turn this middle divides into two to give a four-fold division, manifesting as the classical elements: *Fire, Air, Water* and *Earth*. From here the middle condenses and divides again and we have 6 pieces - the planets. At the wide mouth of the vortex the 6 planets each reveal two aspects, a positive and a negative side, to reveal the Zodiac.

All of this 'pattern forming' is reflected in our astronomical reality, and has been substantiated through 5000 years of astrological observations. This suggests we are observing a universal truth about reality. Rudolf Steiner's stories throughout his latter lectures, often talked of one or other of these layers of organisation. He provides the manifest flesh to these archetypal bones.

A question arose though. By following the progression through the vortex layers outlined above we come to an order of the planets Dr Steiner uses, based upon the length of their cycle, as we experience them. When we move to the Zodiac we order them according to their traditional planetary ruler and by their positive or negative grouping. The pattern of the Zodiac that arises from this process does not conform to the pattern of the Zodiac as the constellations appear in the sky. The vortex story told in 'Biodynamics Decoded' has the pattern revealed in the Step 1 picture. To get to the Step 3 picture, which is how the Zodiac is ordered in the sky, we first have to 'unwind' the mutable or changeable constellations, which provides an image of the constellations as a lemniscate, - which RS uses in his 12 Senses study — and then this lemniscate has to unwind another step to reveal the familiar zodiac, with its inherent complex of polarities.

While we can see the 'normal' Aries > Pisces zodiac in this image, we can also see a zodiac that starts at Cancer - ruled by the Moon - and runs backwards through the planets till it reaches Leo, ruled by the Sun. This is the zodiac used with the precession of the equinoxes, that describes Human historical societal



development. Dr Steiner and Eugen Kolisko also use this zodiac to describe the archetypal order of the evolution of the animal kingdom, and I have found this zodiac useful in understanding chemistry.

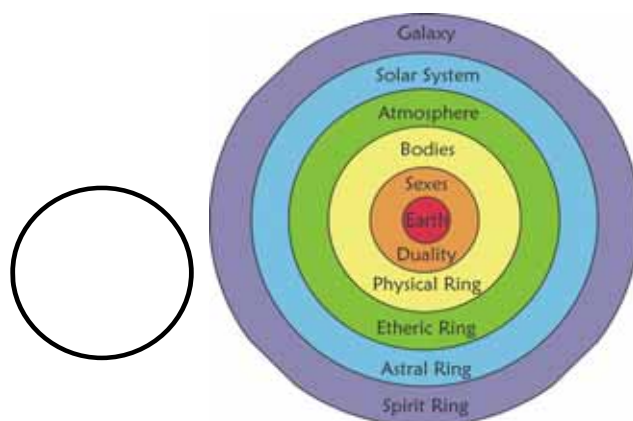
When I came across this pattern and the threefold unwinding process, I supposed that it was important, but I did not know why or how. So I 'noted it' and put it on the shelf. Subsequently, I came across similar things through the years.

Once I thought I saw RS describe this whole process, but I have been unable to find it again. I have asked various students of Dr Steiner if they have seen this pattern described but none have. I suspect I must have seen this in a dream or the like. In 2022 I came across RS talking about the 3 Worlds and I saw this is that story.

The next place I came across this 3-stage process within phenomena was when I began to study Chemistry. (1)

Stage 1 — Galactic Spirit World

One of the first observations one can make about the chemical elements is that they are organised into 7 layers as revealed in the periodic table. When we look at the organisation of our creation, we can note that we have 6 layers of immediate organisation. The Earth, the duality of matter, the physical organisms that have a 3-fold organisation, into the nerve sense, rhythmic and metabolic system of a physical body, the atmosphere of the Earth—where the 4 elements exist, the 7 planets we can see with our eyes, and then the galaxy of stars. This is our immediate environment. The 7th layer is either the rest of the Universe, or we can look at the Zodiac layer as having two layers within it. I choose this latter option. In the layers of electron shells of chemistry, we have an organisation that is a reflection of what is real in our environment. As above, so below.



This organisation provides a clear image of the Cosmic activities. Dr Steiner states in various places, that these cosmic spheres are the actual source of the activities we call Spirit, Astral, Etheric and Physical. The stars are the spirit forces, the planetary spheres are the astral activities, while the atmosphere of the earth is the world etheric, while the Earth provides us with the physical substance that these activities use to become manifest as organisms.

Stage 2 — Planetary Soul World

The universe is not stationary however. It is moving and spinning very fast. When something moves there is polarisation of its matter into positive and negatively charged elements. This is due to the formation of a magnetic field and its subsequent electrical field. This polarisation leads to life and to the specific ways the world bodies outside us and internal bodies inside us organise within life. So far in the astronomical story we have four players, Galaxy, Solar System, Atmosphere and the Earth. But once things being to move two more layers are created - polarity and the 3-fold physical bodies that manifest from this polarity. This physical body exists within the four external spheres.

In chemistry, polarity shows as the cationic and anionic 'families of elements', of which

there are 8 families of the major elements. Through studies of the nature of the families, much helped by Dr Hauschka's book, (2) I was able to organise the major families into the 8 arms of the octagonal gyroscope. This is a form used by most cultures of humanity in the building of their temples and cathedrals. The final clarification of this double cross image was my consideration, based upon Rudolf Steiner's 1922 medical lectures. (3) This image as a structure for the chemical elements, provides a lot of insight into how they interact with each other and their correlations with the energetic activities.

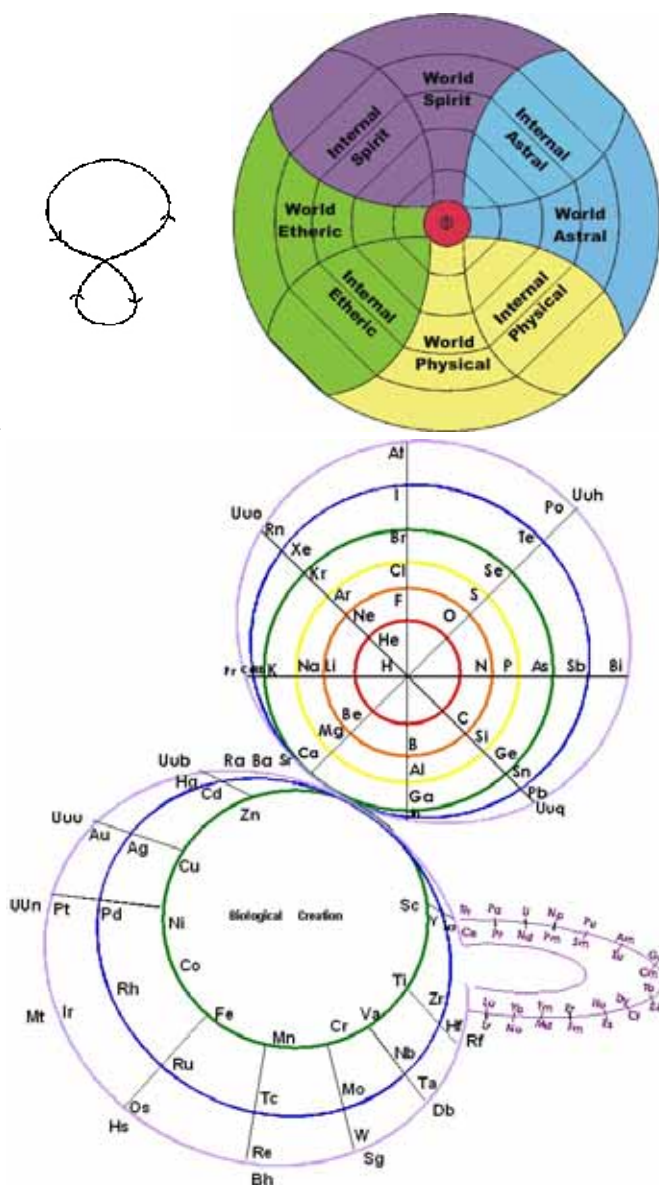
Dr Hauschka provides a 'proof' of **the lemniscate as a feature of Life activity** in his chapter on the 'Brothers of Iron', where he tells the story of the transition elements in chemistry. The transition elements find their usefulness as catalysts of the biochemical life processes. While the major elements provide the raw material of lifeforms, the transition elements are essential for the inner processes of life to function.

Dr Hauschka points out there is a very odd feature in Mendeleev's classical periodic table of elements: The hardness and melting points of the elements increase with increasing atomic weight until the transition elements in the 4th layer of the table. Instead of the hardness and melting increasing with the order of the elements calcium, scandium ... and so on through to zinc, these characteristics jump from calcium to zinc at the end of the transition group, then work backwards through to Scandium, and then revert to type with Gallium (see pg 43 of 1).

This dynamic suggests a better image for the Periodic table — which should be drawn as a circle and sphere rather than a rectangle given that atoms are spherical — shows a lemniscatory 'detour' within it incorporating the life-enabling transition elements.

Stage 3 — Earth's Physical World

While this arrangement offers insights into how all of chemistry interacts, there came a question (from Dave Robison) concerning its compatibility with RS's assertions in lecture 3 of the Agriculture Course that H, N, O, C are the carriers of the energetic activities into manifestation. These are the 4 base elements for all carbohydrates and



proteins. Again note we are dealing with **real-life substance** — protein.

The answer to this question came by looking at where the elements are placed on the circular periodic table. Each element sits at the bottom of one arm, whose positive and negative companions form one axis. So this provides four axes of a positive and negative dynamic, within manifestation. This suggests a third layer of organisation by which the Periodic Table could be observed.

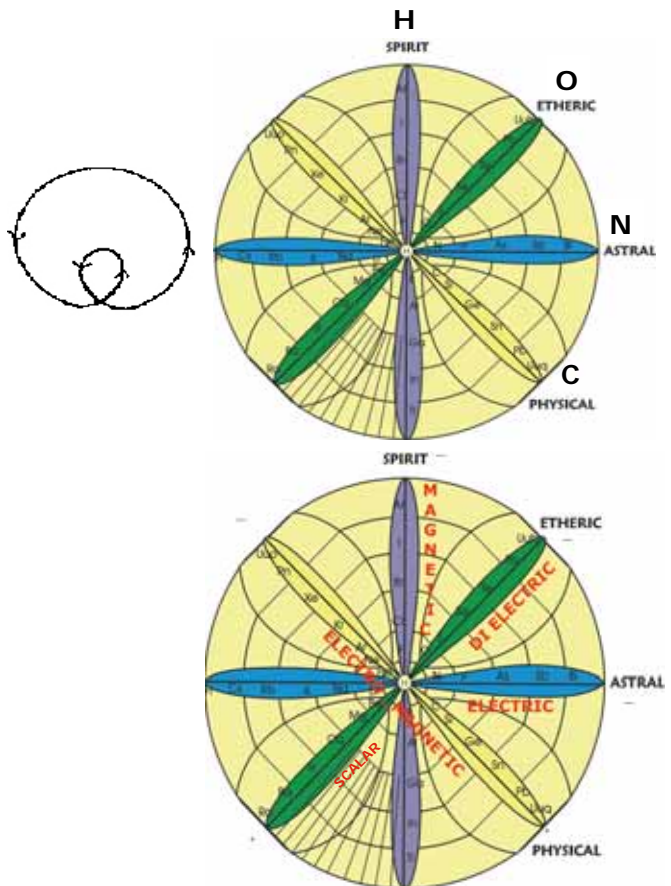
A further observation along this line came when considering the very physical realities of magnetism, electricity, electro-magnetism and di-electrics. Following the physical laws of their relationships, as described in their literature, these appear to follow the same pattern, as for the 4 base chemical elements.

Both of these references are of real manifest phenomena

So again I had a threefold process of the 'What Is', moving through a middle stage, into manifestation.

I then found a second Stage 3 'doorway' into Alchemical Chemistry (5). So I went hummmm, there is a pattern here. The Seasons investigations then showed me a third application of this organisation.

Given this 3 stage process is found in the very basis of life's processes, cell division, we can consider this as one of the universal models, we might be able to trust.



The Double Planets

Rudolf Steiner's planetary organisation as described in the Agriculture Course is a very sophisticated thing, astrologically. While most Astrologers will recognise the 7 planets pattern, not many astrologers consciously work with incarnating and exarnating planetary processes, neither do they consider polaric groups working together as direct and indirect complexes, nor do they use the Cancer-to-Leo zodiac. Indeed, very few astrologers consider 'nature' at all. It is a very person-centered science in our times. Nevertheless, basic astrological experience and an awareness of older astrological traditions are very useful



Rudolf Steiner only left a 'breadcrumb trail' for us to follow, and the best diagram to begin this treasure hunt was provided in the last lecture of the Agriculture Course (pic 18).

This lecture 6 order appears similar to what we can read from Lecture 1. However, Lecture 1 is the story of the outer World processes. In the lecture 1 context, the inner planets do work with the Earth and the Outer planets work with the Light and warmth in the Atmosphere. It is appropriate in this context to use the single line of the 7 planets as their cycles describe real energetic rhythms within our electronic environment.

Metabolic-Limb.org

Earthly Forces

Substantially

Cosmic Forces

Earthly Forces

Substantially

Cosmic Forces

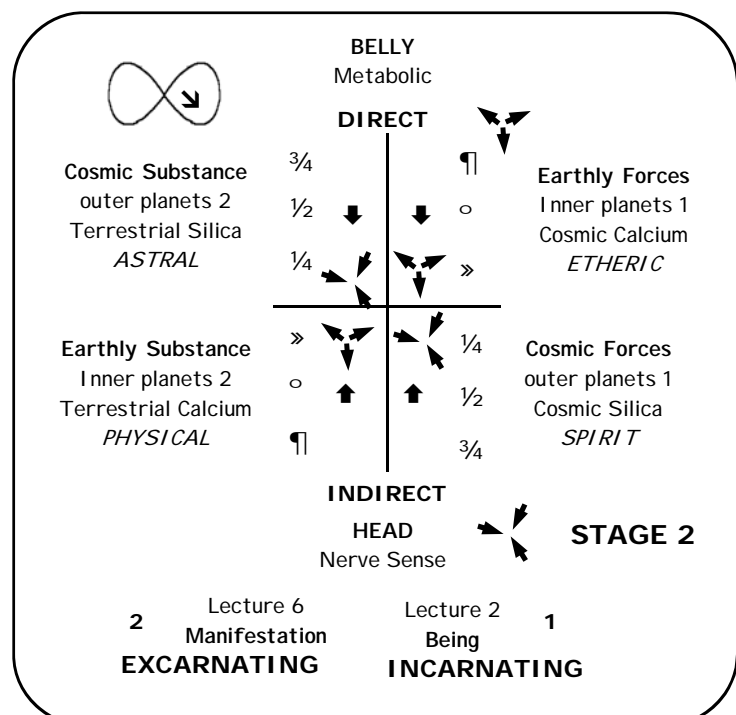
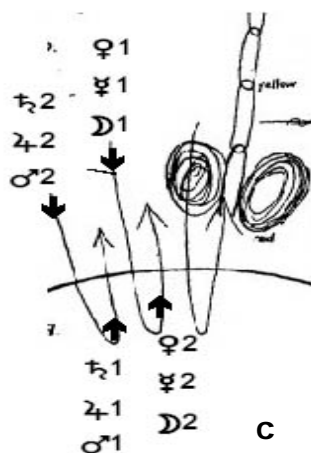
Nerve-Sensory

Earthly Forces

Substantially

Cosmic Forces

18

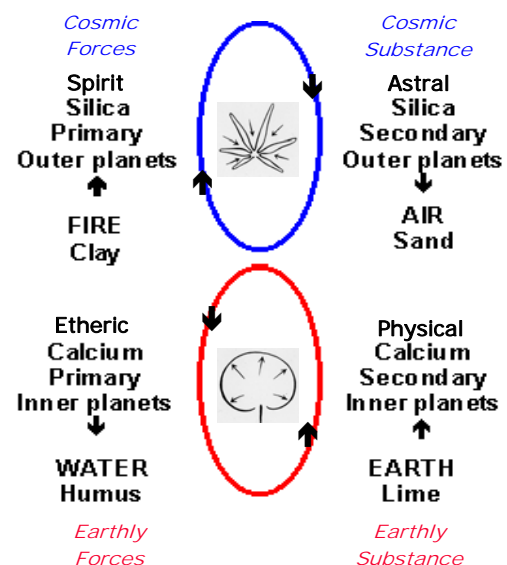


Cosmic Forces with Earthly Substance, (called Wood Sap). It is on the ninth page of the lecture that he tells us of the Earthly Substance and Force story, along with the physical substances that control these processes actions. Firstly we hear how Lime and the Earthly Substance draws the Etheric into the Earth and then how Humus holds and strengthens the Earthly Forces working into the soil and plant. We then have a few pages telling us how these four activities all work together. - **clay, sand, lime and humus, all working as 'the middle' between Calcium and Silica**. These are activities working within the physical body, and can be viewed as similar to the 'organisations' RS talks of in his human medical lectures. (24) We can thus talk of a plant's warmth organism, being associated with the workings of the Cosmic Forces, and a manifestation of the Spirit working into the physical body, just as we can do with humans.

Lecture 6 tells us of manifest problems such as pest and disease, and there Dr Steiner outlines the 'substance' side of the planetary story to highlight this.

If we combine the images from lectures 2, 6 and 8 we get the picture at the bottom right of the previous page. We can also note this is the Stage 2 diagram. There is a lot of polarisation here.

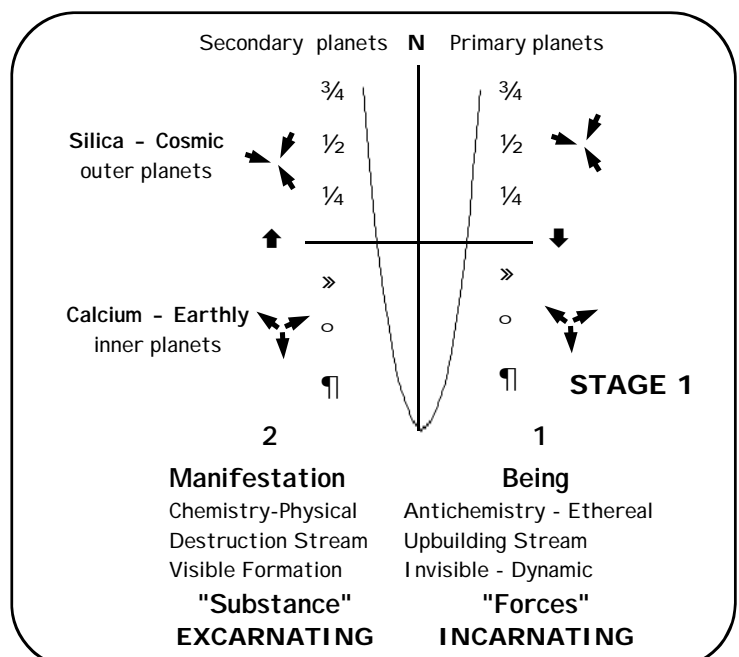
The trick is to use both lecture 2 and lecture 6 indications of the planets, as parts of two circling interacting streams of activity. The Cosmic Siliceous circling anti clockwise, and the Earthly Calcareous circling clockwise. We can note this ordering is the same Dr Steiner uses for understanding the energetic make up of Humans.



This is the answer to our central problem, but how we get here and how we can understand the comments about direct and indirect activities has its own story. So let's start at the beginning, as a preliminary step is required if we are to 'keep things tidy'.

Stage 1 - Lievegoed - Spirit World

RS's first premise is 'As Above, So Below'. Life on earth is an expression of the Forces coming to Earth from the Cosmos, which are then reflected back outwards, as Lifeforms. The planets in this order are as they sit



as rulers of the zodiac constellations. see page 9.

In 1951 Dr Lievegoed gave a series of lectures to the BD experimental circle (the Euro in crowd), which has been available as a booklet (4) ever since. It is not an easy book to understand, however it does offer further insights into RS use of the planets activities. This book is a gift from the Medical section to the Biodynamic section. This is how they understand the planets.

The planetary organisation Lievegoed uses is the 7 fold one we have discovered, but it is in movement. It is the 7 planet order coming inwards to the Earth and moving outwards from the Earth back to the Cosmos. It is the stage in between the simple order used in the course, ala Lecture 1, and the ordering used from lecture 2 onwards in the Agriculture Course. This is the same pattern RS uses for his 'evolutionary story', of how we take Birth, move through Life, then through Death and into Life again. This story tells of how, after Death we move through the planetary spheres, and undergo a process of reflecting upon our Lifetime. We do this, until we reach a point, just after Saturn, where we have a chance to decide if there is anything we would like to change. Upon this decision we then begin the incarnating journey through the planetary spheres, where we gather together the forces and activities we will need in our next life. We are born and then go through Life as a process of excarnation, living through the circumstances we have setup for ourselves. We are living out our life path, and towards our next death.

Plants have a similar journey. A species plan comes from some particular star, to the sphere of Saturn. Saturn picks up this 'idea' and gives it to the plant at Pollination. This plan is worked upon with Jupiter to adapt it to the circumstance and so on through all the planets, until the end of the incarnating Moon sphere stage., Here at Moon 2 germination takes place. Plant growth to seeding is then the excarnating phase of the run through the planets.

At this stage of the story we can talk of **Incarnating (1) and Excarnating (2)** planetary processes, however the Direct and Indirect processes are yet to come. See page 34.

In the second section of his book BL talks of planetary polarities, between these two streams and as opposites across his diagram . It is here where Lievegoed meets the Agriculture Course., however BL does not draw the pictures of these relationships in the same way RS does. BLs polarities are presented as oppositions, across the circle from each other. RS places them next to each other, and within the physical system that they predominately work. BL does not relate his planetary polarities to the physical systems of the Metabolic, Rhythmic and Nerve Sense as RS does in Agriculture.

Stage 2 - The Agriculture Course - Soul World

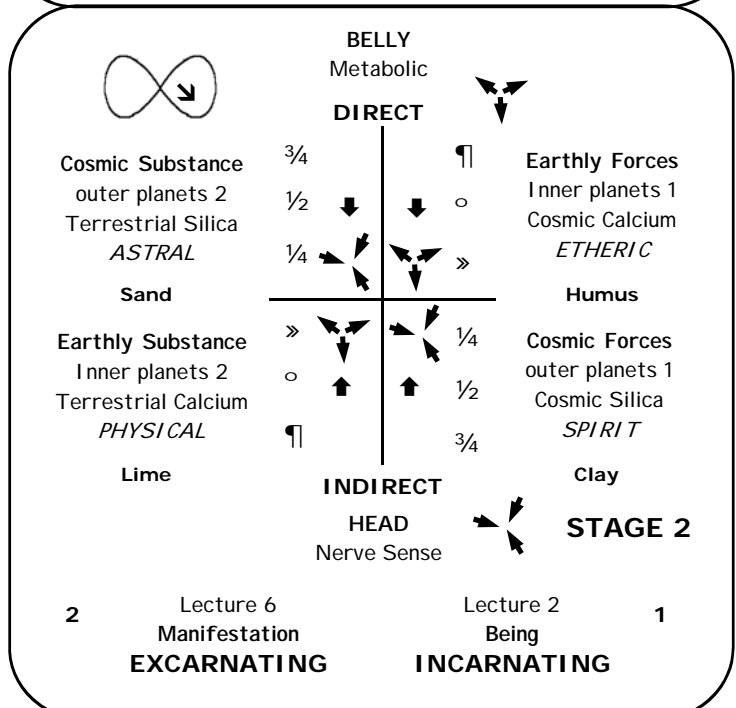
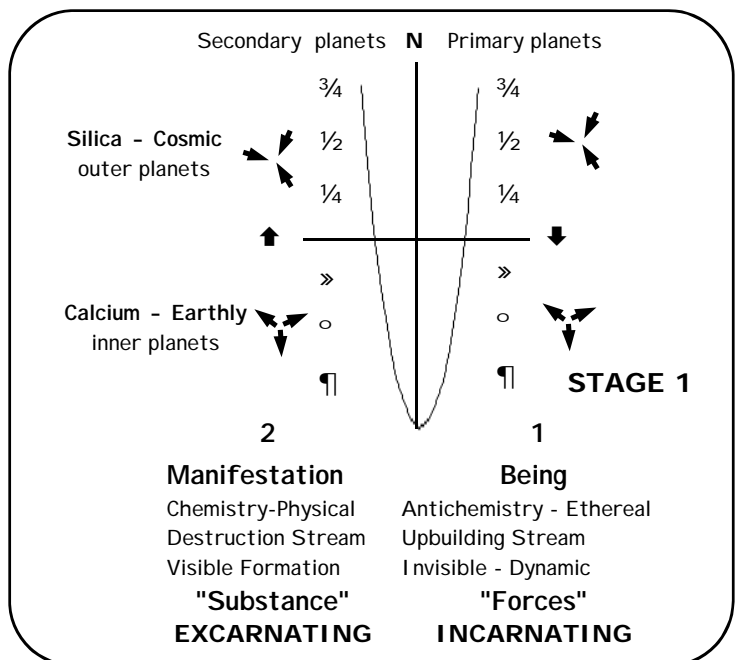
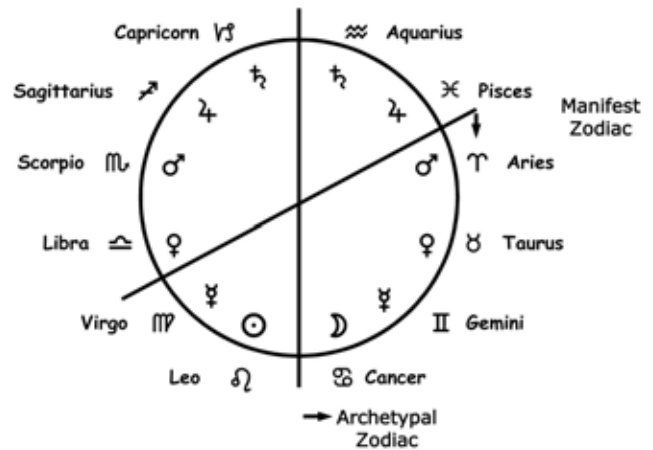
This is the stage where we look at the influence of movement, upon what is there. With Movement things polarise. In the second part of BL's book, he talks of how in living processes, these planetary activities polarise with each other, to form a unified outcomes eg, Saturn 1 and the Moon 2 work together to create the skeleton and skin, and so on. This is where the Agriculture Course takes over. RS gives us information about how the Soil, Plants and Animals organise and manifest according to the same

planetary polarities, however he describes them in a broader context. BL's polarities become RS 'pairs'. RS places the planetary activity within the physical systems. In lecture 2 we are told how the root of the plant are like the head of the Human, with the outer planets being active. While the leaf region is like the Human chest region, and flowering and fruiting parts of the plant are like the Human metabolic region, with the Inner planets being active. Within each of these physical zones we have to find each of the primary four activities of Spirit, Astral, Etheric and Physical working through their representatives at each layer.

RS story has 6 layers, but all the activities he mentioned are based on the four primary activities, running through all the layers. As the planetary activities work down into matter he gives them particular names. Once they work within the Physical organism, he calls the activity within the Metabolic system a combination of the Outers 2 Cosmic Substance and the Innern 1 -Earthly Forces. While in the Nerve Sense system or inside the Earth it is the activity of the Outers 1 -Cosmic Forces working with the Inner 1 - Earthly Substance as seen in the picture from lecture 8 , on page 25.

All these pieces have to be placed within the larger context, that includes the other inner layers of the story, as well as the external environment, to give us this image.

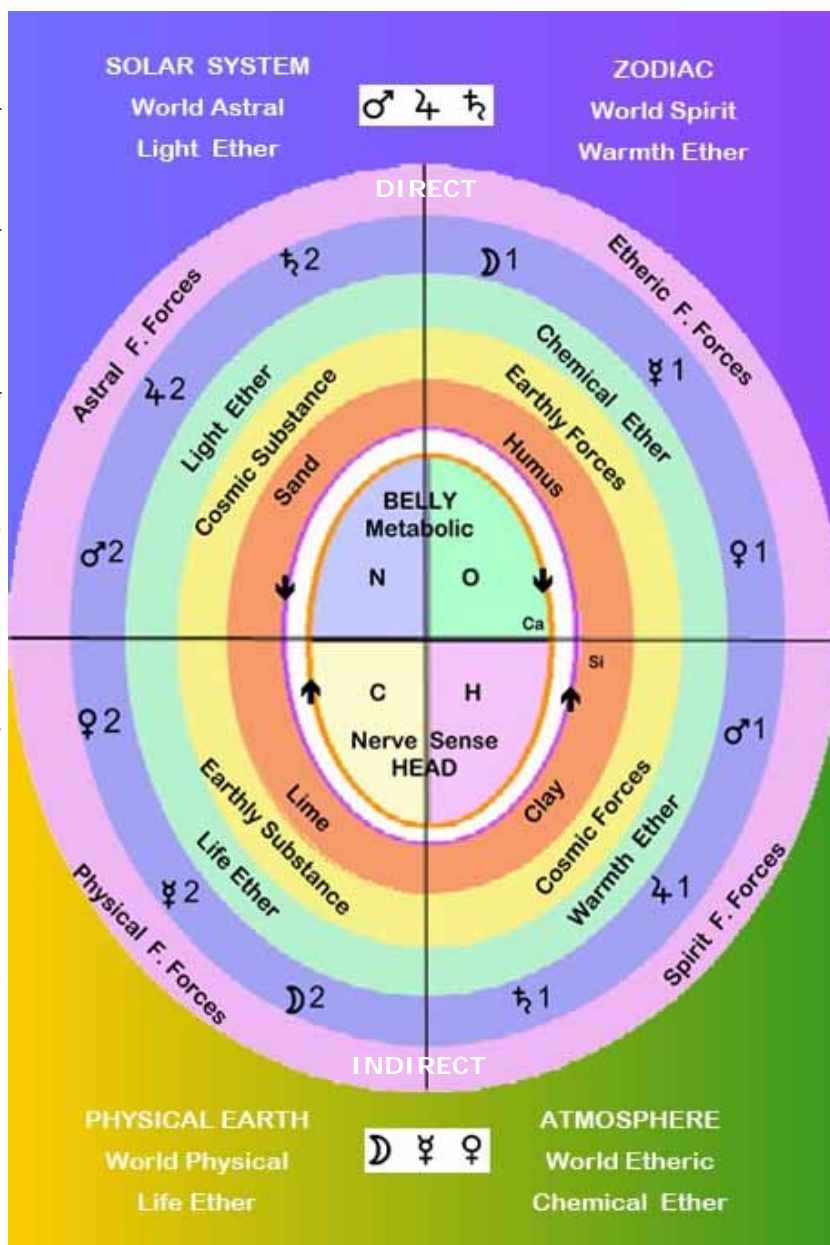
It is at this stage of our journey that BL and RS begin to talk about **Direct and Indirect Planets**. These are a Stage 2 phenomena.



The main difficulty of this topic, is that RS described three different versions of what constitutes Direct and Indirect planetary activities. I will go into the details of these three approaches in the next chapter. Each of these three organisations, appears to have their specific place of application. The one we are discussing here — where the Star and Planetary forces enter into the Earth as Direct Forces and are then reflected back outwards, as Indirect Forces, within the same basic geographical region — appears to be most related to the internal growth processes of living beings. These are firstly 'World' processes, occurring outside in nature, and secondly they work inside lifeforms, to influence the way internal activities occur.

With reference to this picture. The general Cosmic Silica and Earthly Calcium streams, are the circles in the middle. I

see them as two streams of activity that spin in opposite directions to each other, moving between the Above and Below of the Earth's surface. They are always interacting with each other. The individual energetic players of each part takes dominance depending on where the stream physically is. Eg **Below**, the Cosmic stream is dominated by the Spirit, and the Astral plays a secondary role, while **Above**, the Cosmic stream is dominated by the Astral and the Spirit is along for the ride. These two sides of the Cosmic Silica stream, have to interact with each other. The same occurs with the Earthly Calcium stream. When in the Earthly Substance quadrant, the Physical is dominant and the Etheric supports it, whereas when the Calcium process is above the soil in the Earthly Forces phase, the Etheric is the dominant activity with the Physical playing a secondary role. This is the Biodynamic Plant Dance. **How do we work with all these processes to enhance Nature. We can use the 4 Earthly substances, clay, sand, humus and cations, along with the BD preps.**

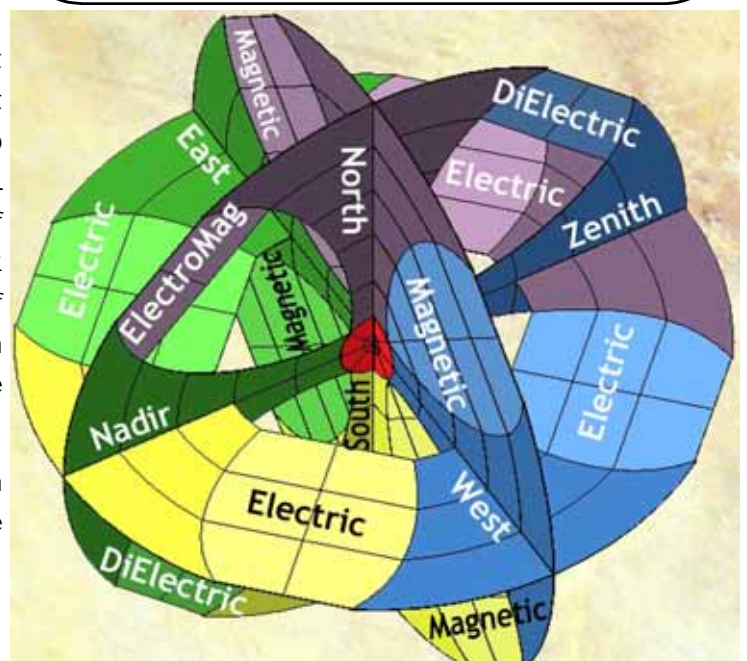
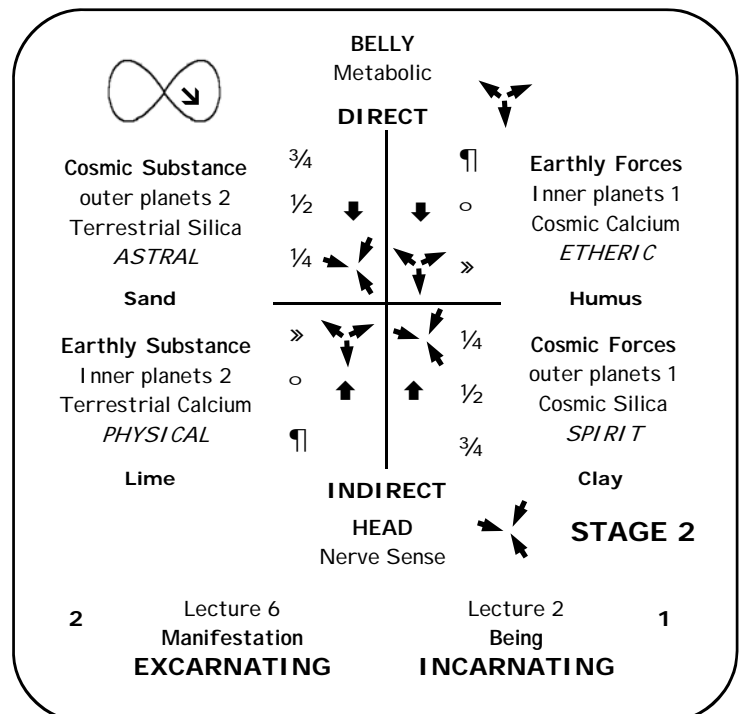


We can look at the Layers of the Quadrants, as different dimensional manifestations of the one energy. They are different shells within our the Internal Universe, that can each effect the whole quadrant. Strengthening any one part of this activity, and the whole quadrants activity is influenced. Biodynamics offers us the opportunity to know the parts of the game, and what will influence them. We are particularly interested in the Planetary ring in this discussion. If we use the Outer planets 1 quadrant as the example. The two main players driving this area, are the Spirit and his mate the Astral. When they are active within the planetary dimension, Saturn expresses the Spirit, while Mars expresses the Astral and Jupiter is how these two activities work together. Being of the primary phase, Saturn holds a Star's Species message for the plant. Jupiter adapts this primary impulse into something that can fit into the environment it finds itself in, while Mars gathers the enthusiasm for the task, assesses whether these goals are possible, based on Jupiter's primary research, and begins to move forward. This is the force that ,once it has grounded itself through its time in the Earth, wants to bolt to seed, in the spring, to further its kind. All the other forces have to hold on for the ride and try to soften its will enough, to build some leaves and fruit.

To get from Stage 1 to Stage 2 there is a twist needed in the diagram. On the Incarnating side, we flip the planets over. This provides RS 'pairs' within the physical systems. Once we enter into Life Processes everything is polarised. Cations align with Anions, Positive and Negative charges attract and so on. So , like the pulsating / polarising phase of cell division, this movement towards Life appears in the diagrams via a Lemniscate twist. This middle stage 2 stage provides, the laws that stand BEHIND creation.

The Incarnating and Excarinating Streams, are still in place, albeit lemniscated. The Direct and Indirect activities are only talked of in regards to the Stage 2 and 3 organisations. (See BL pg 19). While Stage 2 is a development of Stage 1 these 'Stages' work simultaneously, and independently of each other. Two distinct dimensions with different 'rules of the game', in the same space.

I imagine the 3 stages of Manifestation can be related to the three planes of the



Gyroscope. Stage 1 is the Vertical Magnetic plane, Stage 2 is the Electric Horizontal plane and Stage 3 is the Electro-magnetic / DiElectric, vertical plane. 3 planes of different activity in the same place. This says Stage 2 - the Agriculture Course is the story of the horizontal plane, upon which we find ourselves, along with the planets in the Solar system, and behind which we have the constellations. This is the plane and place where life exists. These are the processes that bring Life into Creation.

When we put lectures 2 and 6 together, we can see RS has the **Direct** Forces coming from above, and working into the Metabolic processes, which has two sides. These are forces coming from the Outer planets 2, (those beyond the Sun) which have a inward moving contractive Catabolic action called Cosmic Substance ,and the Inner planets 1, (those between the Sun and the Earth) referred to as Earthly Force activities, with their expansive Anabolic quality.

The **Indirect** Planets are coming back from the Earth, and are made up of the Inner 2 called Earthly Substance and Outer Planets 1 called the Cosmic Forces, working from Below. Thus we have a expansive and a contractive influence in both the Inward Direct and the Outward Indirect activities. We can also say there is one Incarnating and one Excarnating process in the Direct and Indirect streams of activity.

So while we can find a dominant Etheric expansive process in the Metabolism, we can also find a contractive Astral growth process, working with it. Similarly within the Nerve Sense system, it has a dominant contractive influence, supporting the contractive Spirit, based Cosmic forces, with a secondary expansive influence, coming from the Physical Earthly Substance processes. This expansive influence has 'migrated' from the metabolism, into the head, through evolution, and still works upwards to support the 'nourishment' of the brain substance. Too much of this and we have migraines.

Finding the details of this organisation occurred over several years, and came from a few lines of observation coming together. No doubt if I had some external education from a Apop doctor I would have come to it much quicker, but this has not been my path. Nevertheless here it is and this is what you will find Apop medicine uses as a basic reference frame of activity.

From stage 2 we have the **Direct Physical Formative Forces (PFF) Cosmic Substance (outers 2) and Earthly Forces (inners 1) in the Metabolism, and the Indirect Cosmic Forces (outers 1) and Earthly Substance (inners 2) in the Nerve Sense system.**

I was not firm on each of these groups 'needing' to sit in any particular order, in my early diagrams of this, however as things started to coalesce, it suggested where each of these sit in RS lecture 8 fourfold pattern, is indeed significant. Dr Steiner's diagram placements are to be taken seriously, for Stage 2 where the forces active behind manifestation are described. There is however a further step to take into stage 3 , Enfolded Manifestation. This is not found in the Agriculture Course, but can be found described in 2 other lectures (6) as well as in Chemistry and the Seasons.

Before we go there lets finish off the Direct and Indirect stories.

Direct and Indirect Processes

Apart from the previous story of how I see RS talking about the Direct and Indirect activities, there are two more ways RS tells us of Direct and Indirect planetary activities are possible.

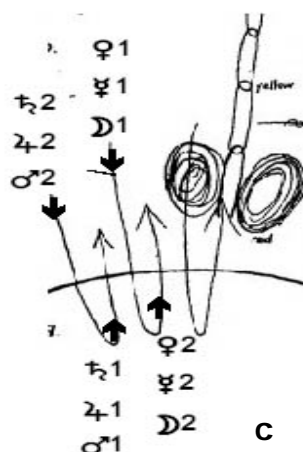
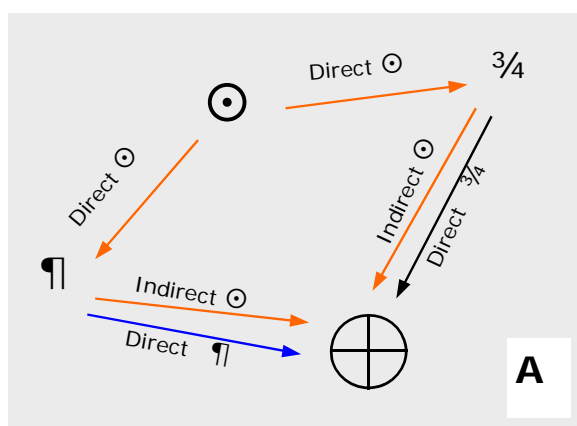
As part of the basic axiom 'As Above , So Below' RS starts with the polarity of the Cosmos beaming forces from Above, and the Earth receiving these, and then reflecting them back outwards. A simplistic Cosmic and Earthly designation does not allow for the required complexity we have later in the story, so he clarifies forces from Above as being Direct, and forces coming from the Earth as Indirect. But exactly when is this clarification applied?

With the Indirect activities there are three variants that he mentions. (A) is in Lecture 4 where the Direct Sun or other planetary forces are reflected off the Moon or other planets before reaching the Earth as Indirect forces. Thus we have the Direct Sun and planetary forces and then we have Indirect Sun and planetary forces via the Moon and other planets.

(B) Is where the planetary influence comes into the Earth from the opposite side of the planet to the plant or animal. So the Direct comes from Above and the Indirect comes through the Earth. We need to note that this will occur each day, as the Earth rotates. This is talked of in Lecture 1

Both A and B forms of Direct and Indirect are talked of in relation to animal formation.

(C) is when the planetary influences come directly from above, and are accumulated in the Earth, before being released back upwards. While this process is a continual process, it also has a seasonal component to it. As part of RS's 'Seasonal' story, some of which is told in the second lecture, we are told the Direct planetary influences, especially the Cosmic Outer Planet Silica processes are drawn in through the Autumn, 'crystallised' at mid winter, and then released back upwards, as Indirect forces in the Springtime. This is talked of in lectures 2 and 6, in regards to



plant growth. They are also talked of elsewhere.

(b1) Astronomy Course -lecture 7 -7th January 1921. <http://wn.rsarchive.org/Lectures/Dates/19210107p01.html>

(b 2)Human Questions Cosmic Answers lecture 4 2 July 1922 <https://wn.rsarchive.org/Lectures/Dates/19220702p01.html>

(b3) Agriculture Course lecture 1 — 7 June 1924 <http://wn.rsarchive.org/Lectures/Dates/19240607p02.html>

(c 1) Agriculture Course lecture 2— 10 June 1924 <http://rimu.geek.nz/garuda/Agriculture/Lec%202%20finish.pdf>

(c 2) Agriculture Course lecture 6 — 14 June 1924 <http://wn.rsarchive.org/Lectures/Dates/19240614p02.html>

Summary of texts

(b1) "Diagrammatically now let this be the animal form. If after going into an untold number of intervening links in the investigation, you put the question: 'What is the characteristic difference of the front and the back, the head and the tail end due to?', you will reach a very interesting conclusion. Namely you will connect the differentiation of the front end with the influences of the Sun. Here is the Earth (Fig. 3). You have an animal on the side of the Earth exposed to the Sun. Now take the side of the Earth that is turned away from the Sun. In one way or another it will come about that the animal is on this other side. Here too the Sun's rays will be influencing the animal, but the earth is now between. In the one case the rays of the Sun are working on the animal directly; in the other case indirectly, inasmuch as the Sun's rays first have to pass through the Earth (Fig. 3).

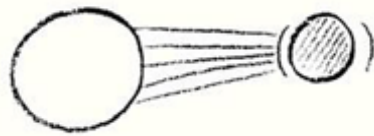


Fig. 3

Expose the animal form to the direct influence of the Sun and you get the head. Expose the animal to those rays of the Sun which have first gone through the Earth and you get the opposite pole to the head. Study the skull, so as to recognize in it the direct outcome of the influences of the Sun. Study the forms, the whole morphology of the opposite pole, so as to recognize the working of the Sun's rays before which the Earth is interposed — the indirect rays of the Sun. Thus the morphology of the animal itself draws our attention to a certain interrelation between Earth and Sun. For a true knowledge of the mutual relations of Earth and Sun we must create the requisite conditions, not by the mere visual appearance (even though the eye be armed with telescopes), but by perceiving also how the animal is formed — how the whole animal form comes into being."

(b2) Now super-sensible observation has revealed that everything that radiates from the light of the moon, everything that streams as reflected sunlight from the moon on to the earth, and also streams into our thought-life as formative force — all this works, too, in the shaping of the animal forms. Essentially, all that is indeterminate, formless

will-force in the animal is to be found within the sphere of the direct light from the sun. But all that gives the animal its independent form, which is not adapted to the earthly element, is, in the true sense of the word, woven out of the gleaming moonlight." Human Questions Cosmic Answers— 2 July 1922

We need to note here, the animal Head is influenced by the Direct forces, while the Metabolism is effected by the Indirect forces.— Either Sun forces through the Earth or reflected by the Moon. When this relates to the plant though as in scenario C, it would seem it is the other way round. The Roots / Head will be influenced by the Indirect forces, and the top of the plant by Direct forces.

(b) "Saturn goes slowly round, in thirty years. Let us draw it thus (Diagram b): here is the course of Saturn. Sometimes it shines directly on to a given spot of the Earth. But it can also work through the Earth upon this portion of the Earth's surface. In either case the intensity with which the Saturn-forces are able to approach the plant life of the Earth is dependent on the warmth-conditions of the air. When the air is cold, they cannot approach; when the air is warm, they can." Hugh Lovel refers to this in some of his writings, (and from memory) he does not differentiate between this and C.

Enzo Nastati also discusses this subject, however I do not agree with his view of Direct and Indirect. He believes the Incarnating and Direct activities are the same, while the Excarnating and Indirect are the same. He does not talk of them as I do.

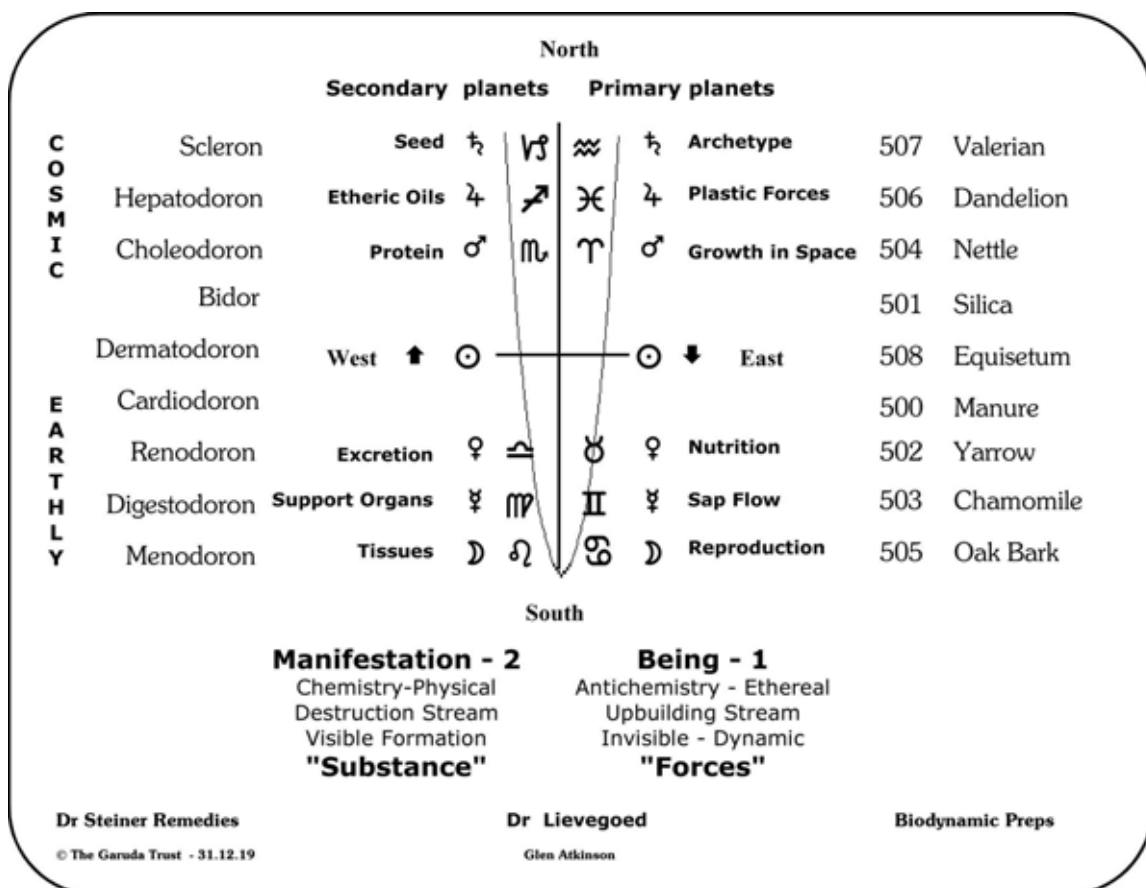
The Preparations and the Double Planets

Dr Lievegoed references the Biodynamic preparations to the double planetary processes, (4) however he did not make specific instructions for how we might use the preparations to control either the incarnating or exarnating side of any planet. Initially I looked at which constellation related to which planetary process, and only got so far with this practical investigation.

In my experience of the preparations, I work with them as Force influencers. I use them to control the way the energetic activities work upon Nature. See the diagram on page 19. I see problems as an expression of the energetic activities interplay, and the homeopathic preparations influence the activities around the object, and the problems go away. Dr Steiner outlines this approach in lecture 6 when he talks of nematode control. This is also the basis for Dr Steiner's medical approach for Humans. All this has me putting the **BD preps on the right hand side of the Double Planets diagram, on the Force side.**

So what of the Manifest side of the activities? A few years ago I came across the little book by Dr Otto Wolff MD, called 'Remedies for Typical Diseases' In this book he talks of a series of 9 remedies RS gave called the '**Odoron Remedies**'. These remedies are all made from plant and minerals, and have very little potentising in their manufacture. They are very physical remedies. Upon investigation it became clear, they follow a very similar pattern to the BD preparations in their application to organ systems and their diseases, however in a much **more 'material'** way.

This lead me to proffer the following diagram. I have yet to do any experimenting with these remedies on plants.



Stage 3 - Manifestation - Physical World

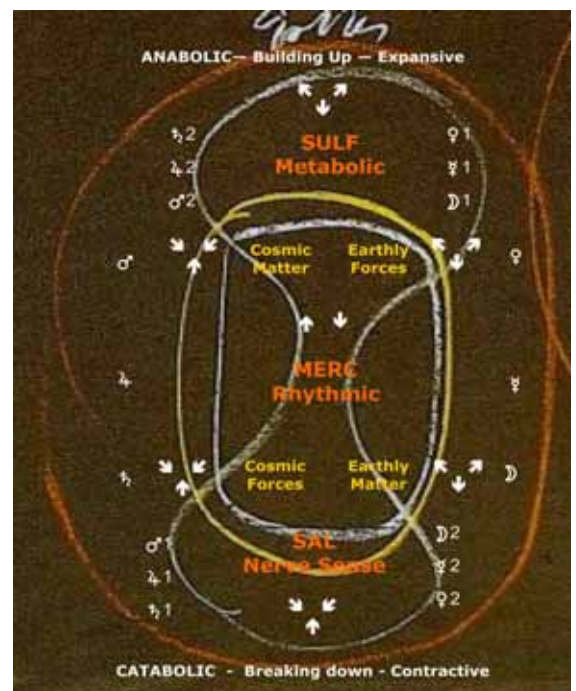
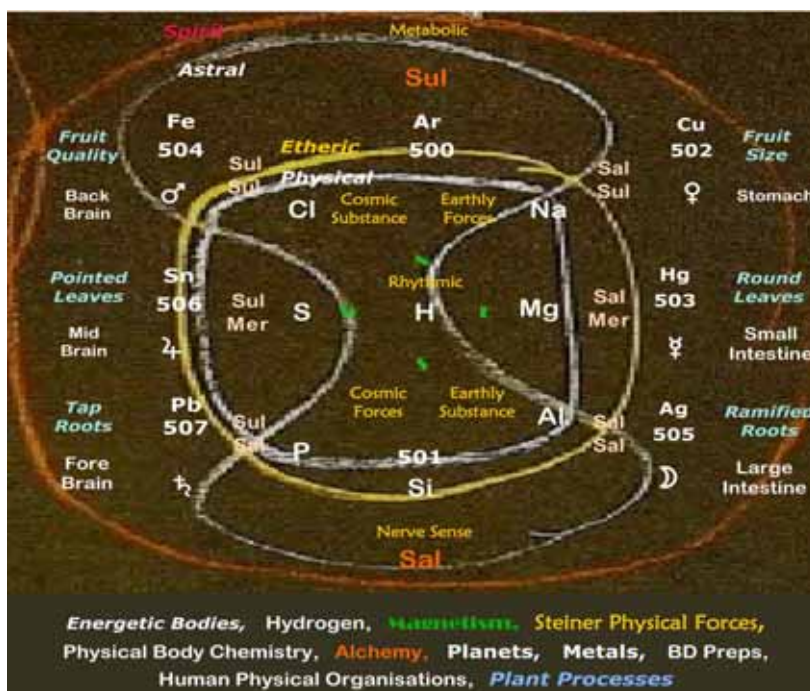
So far we have talked about the planets in the Agriculture Course, however this is not where RS story of plant growth ends. In other lectures he talks of the Earth and plants experience **through the seasons**, and how the Elemental beings help these processes along. This is where we move **from the Laws behind Manifestation to Manifestation itself**. We take a further step and the lemniscate enfolds upon itself to give us the **manifest physical plane**.

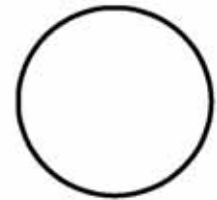
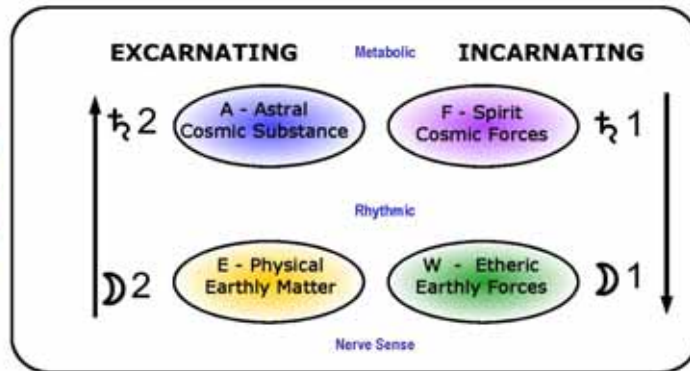
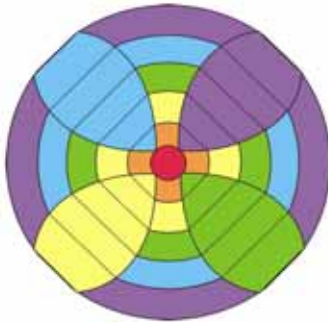
The overall story is told, in my essay RS Plant Growth story. 'Cosmic Workings in Earth and Man', lecture 5, is where the 'Sap Stories' are told, and 'Man as Symphony', lecture 7, is where the Ethers and Elementals story is told. RS talked of this yearly cycle a few times in 1923. In April 23 he gave 'The Cycle of the Year' (23) and in early Oct 23 he gave 'The 4 Seasons and the Archangels' (24). Then the Agriculture course came in June 1924.

Each of these has there own language, and we are challenged to merge all his different pictures together.

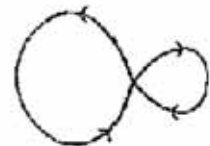
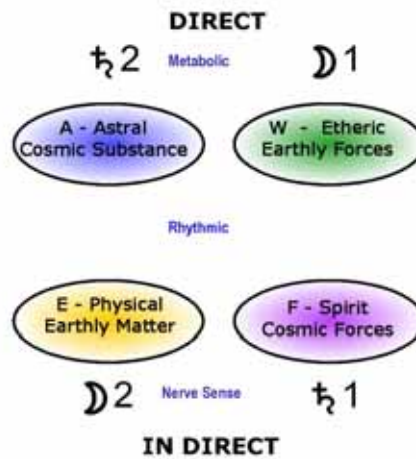
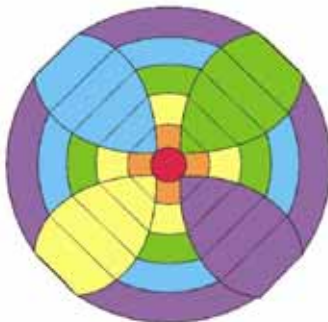
When I did this, and further combined what I found from the medical lectures and chemistry, I came up with an organisation of the Cosmic and Earthly activities and thus the planets, that does not conform with the patterns found in the Agriculture Course. In this situation we can say that my end picture is wrong, or it is something different. The hint is that we are dealing with **manifestation**, and using nature and its seasons as well as chemistry, as our reference. So this is a story of **formative processes IN manifestation**, and not formative processes BEHIND manifestation.

To come to my suggestion, that these other lectures are a Stage 3 step, I also referenced some other investigations. After several readings of most of RS medical lectures I came up with this image. I call this a 'Rosetta Stone' as this places around 10 different stories in relationship to each other. The one story that is altered from the Agriculture Course is where the Physical Formative Forces, and thus how the Double

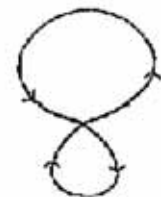
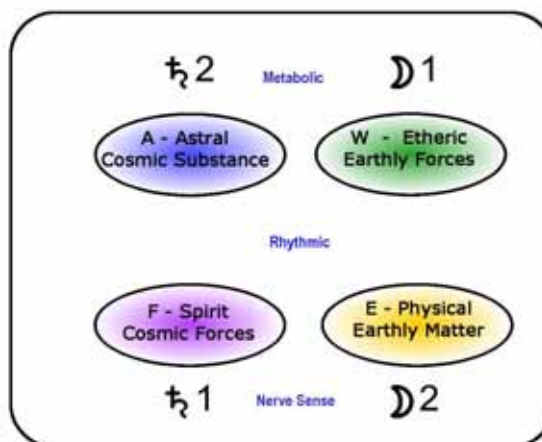
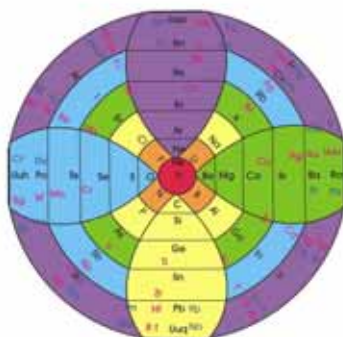




Lievegoed
Stage 1
ARCHETYPE



Lecture 8 Agric. Course
Stage 2
BEHIND MANIFEST



Seasonal Cycle
G. Rosetta Stone
Int. Phy PT
Stage 3
MANIFEST

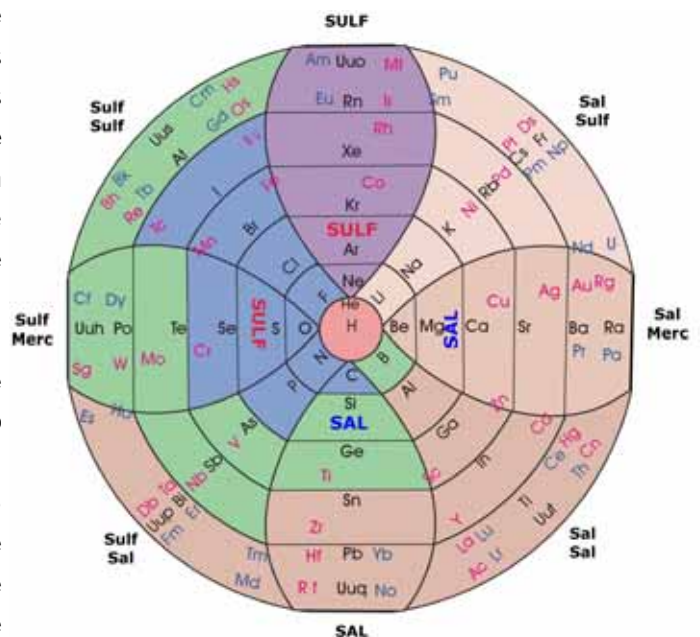
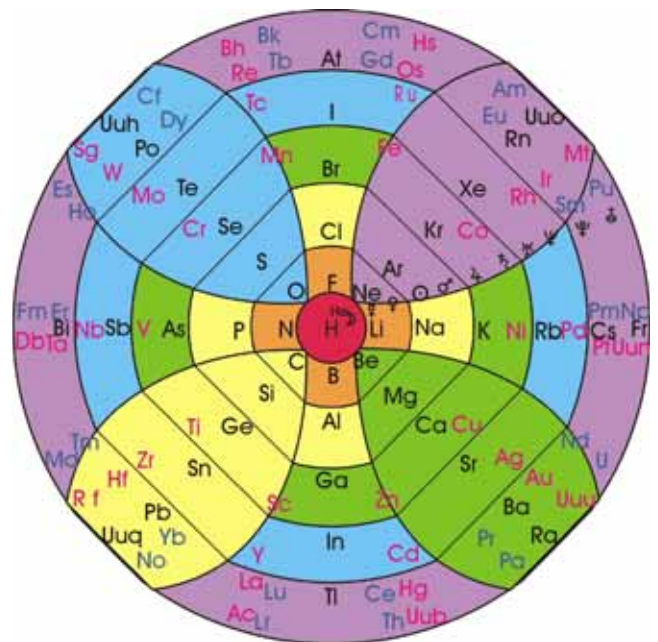


Planets sit, in relation to each other.

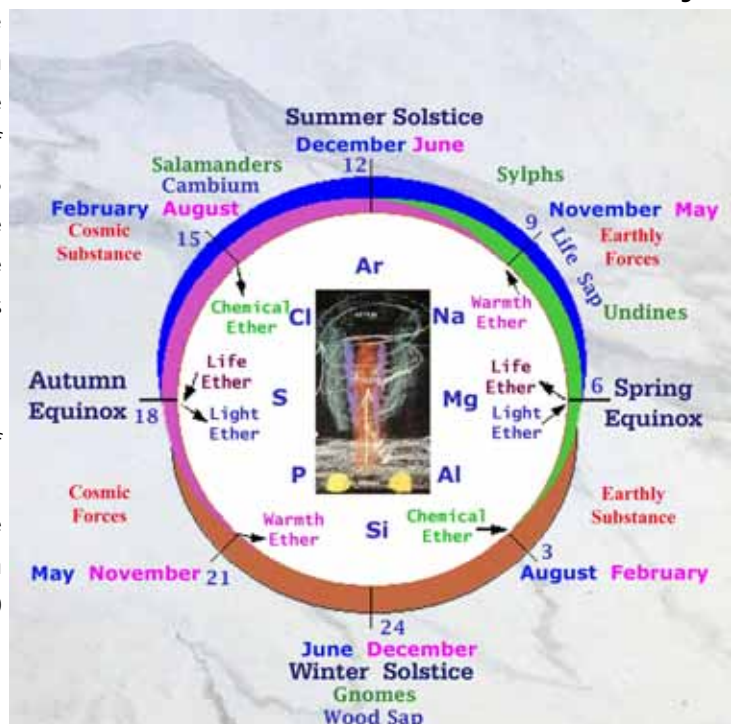
The Direct and Indirect planets stay the same, however a further flip of the Indirect group can be observed. The Cosmic Forces and Earthly Substance change places, providing us with an indication of the flow of the activities that dominate throughout the phases of the seasons.

Separate to this investigation I had earlier done an investigation into Chemistry. (1) My approach to Chemistry is a long story, and it took the better part of 20 years to move through all of the elements and their three groups into a Circular Periodic Table. This table describes the chemical elements as they appear in the External World. As we find them, and many already known associations and interactions, become obvious through this organisation. Which we can see is based upon the **World Physical Arm**. At a latter stage in this investigation I asked the question of **how could we see these elements work more deeply into Physical forms and even biochemistry**. The suggestion was to **spin the table 45 degrees** so that the table sat upon the **Internal Physical Arm**. What do we see when we do this? Essentially we find the chemical elements Steiner and Hauschka talk about in their medical lectures, are sitting in their appropriate place. The main elements they talk of are the 3rd ring or line of elements, which make up the basis of physical bodies. The elements of protein RS mentions in the Agriculture Course are one ring inside these elements. They are the basis upon which these next ring of elements work upon.

A further important finding was when I looked at the Metallic and Gaseous states of the elements, when placed on the Circle. This provides a very pictorial image of the polarisation of Metals and Gases, which conform with RS discussions in the 1920



The Metallic States & Alchemical Chemistry



medical lectures , where he uses the language of Alchemy to describe the chemical elements interactions. This is manifestation in it hardest most real form, the physical states of Chemistry. The Brown elements are the metals, Green are the 'non metals' , Blue are the Gases, Purple are the Noble Gases.

We can observe the alchemical 3 fold division from the bottom, Metals Salt polarising with the Noble Gases, Sulphur pole.

Similarly, there is a clear polarity across the middle horizontal plane as well. The Calcium Metals Sal, to the Sulphur Gases Sulf. This provides a framework to look at the 'alchemical' nature of the elements, within a 3x3 form, and much more besides.

The next stage in this process is to place the images of the Sap Stories, The Ethers and Elementals, along with the flow through the seasons. This provides the diagram at the bottom of the previous page.

This order is there to see, and I suspect Dr Rudolf Hauschka, of Wala fame, has seen it.

One of the wonders of this image is, if we go four rings in from the outside, we reach the **Cosmic Physical Ring**. This is where Physical Bodies manifest. If we look at those elements we can see the polarity pairings, we have in Dr Hauschkas (RH) story. In the Nerve Sense Head Sal region, there is Aluminium and Phosphate, the middle Rhythmic system has Magnesium and Sulphur. And the Sulf poled Metabolic system has Sodium Chloride. Silica anchors this whole group in the Earth. The four elements of Protein, and RH's elements of the Atmosphere, are one circle in, with the 'Cosmic Elements'. Only **Calcium** is the outlier. It is one circle out, to be at the spot **where the Cosmic Etheric, Internal Etheric Arm and Positive Manifest Etheric Axis, meet**. It becomes a tag team with Magnesium, helping the Etheric to incarnate into the Physical Body. Calcium is the anchor of Life. All calcium on the planet has passed through some living being, to become the mineral we see. It is a manifestation of the Etheric, and anchors and stimulates the Etheric and with Magnesium's help anchors it into the Physical Body. Stunning.

This ring of **Cosmic Physical** elements, work as an excellent model to place upon Dr Steiners medical lectures. We can also add a few of his 'Nature Stories', once we make the **flip of the Cosmic Forces and the Earthly Substance**. This is how they sit in the Circular Periodic Table, when based upon the Internal Physical Body Arm. This orientation provides very useful information about the internal processes of Life, as opposed to the information we gathered from the circle, orientated upon the World Physical Arm. Both orientations are effective simultaneously. This change of orientation, by spinning the circular PT 45 degrees mimicks the flip into manifestation in the earlier diagram for Stage 3. **A further step into matter** .

The 1920 medical lectures, talk of the Planets and the Metals along with examples of illnesses, and which of these 'Hauschka' chemical elements would solve them. Naturally the 7 fold Outer and Inner Planets make a good polaric framework to all this information.

The 1923 Sap and Elemental lectures tells of the growth processes through the seasons. Reading these I realised my previous PFF diagrams are all static. They tell of the processes and their interactions, but not of how and when Life is spinning. These two lectures do that. These are the stories of the PFF in motion, and how nature moves through the PFF activities, in the same order found in Chemistry and the Glenological Rosetta Stone.

Being at the manifest level, this is a good 'seasonal' diagram. Both planetary groups influences come directly from above, are accumulated in the Earth, before being released back upwards. While this process is a continual process, always taking place, there is also a seasonal component

B. Lievegoed

☾ Moon	♅ Uranus
☿ Mercury	♆ Neptune
♀ Venus	♇ Pluto
♂ Mars	♁ Persephone
♃ Jupiter	♂ Vulcan
♄ Saturn	☼ Sun

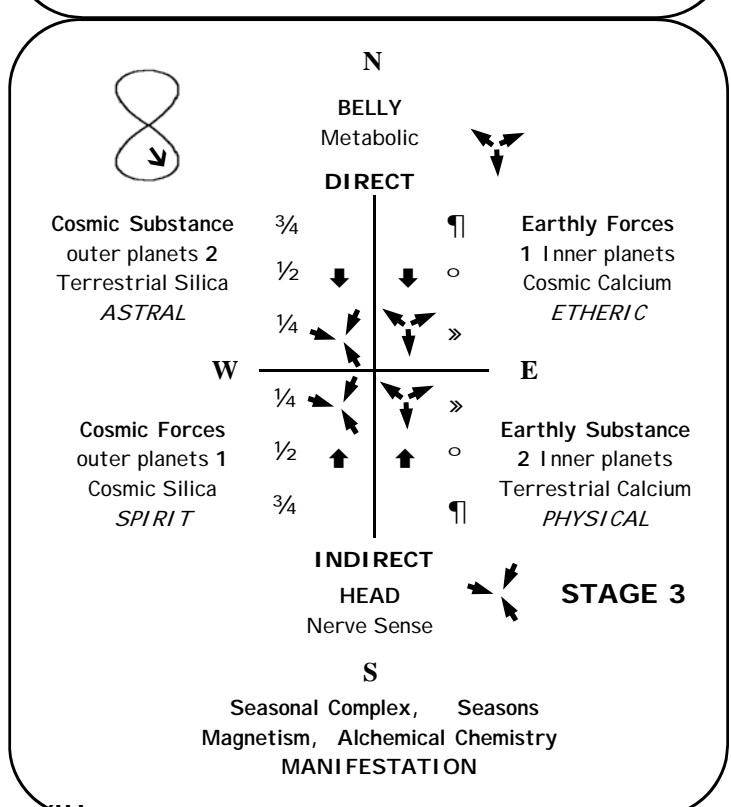
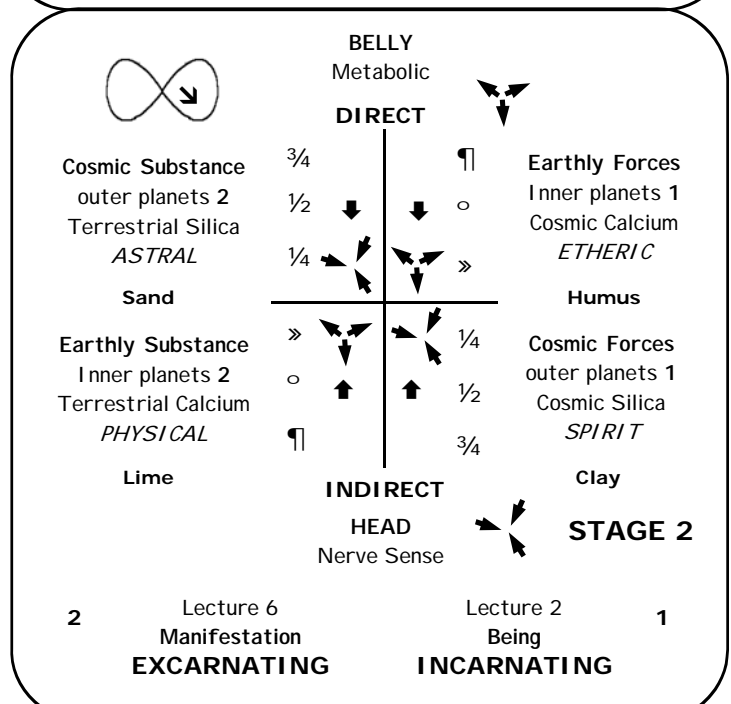
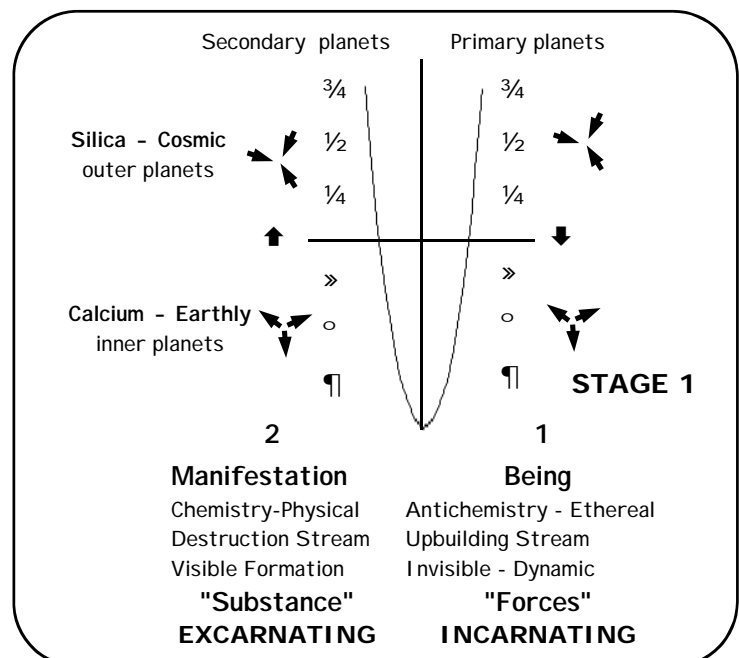
Steiners
Agriculture
Course



When we spin
through the Seasons
in the Saps and Ethers

The Planets in
R. Steiner's Stories

Glen Atkinson
9.1.21



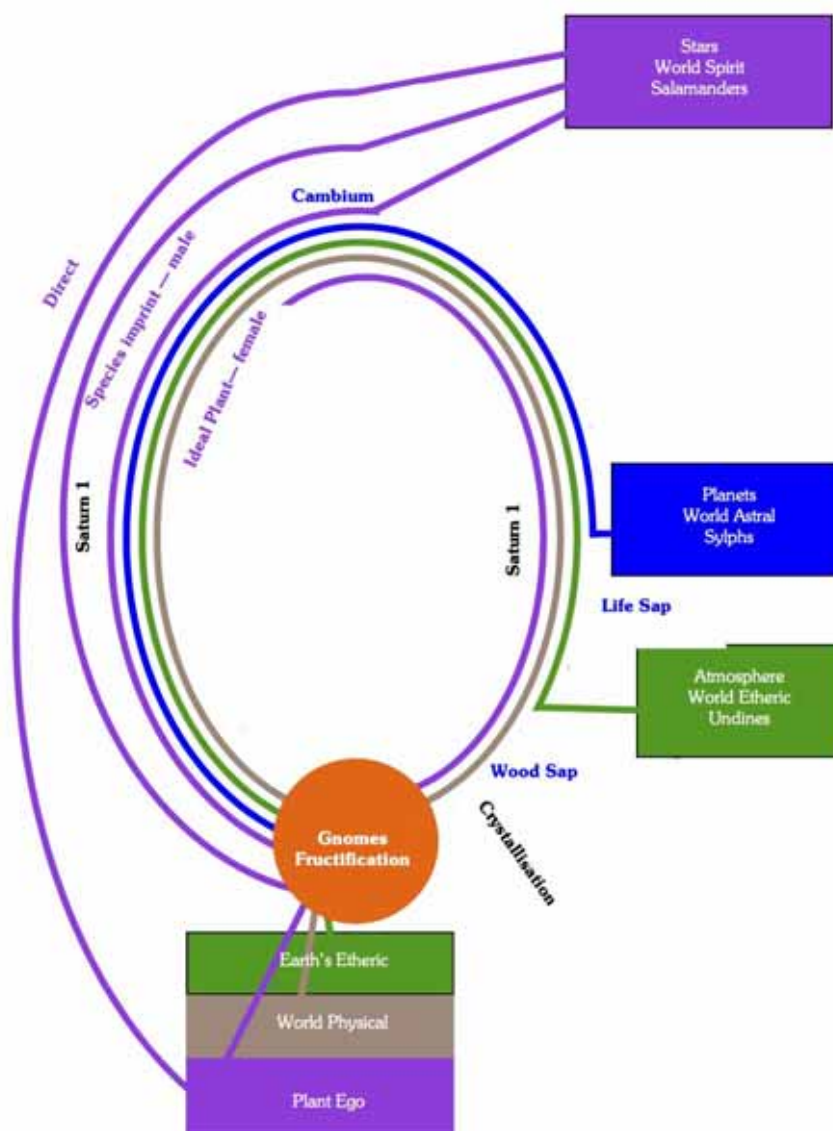
to it. As part of RS's 'Seasonal' story, the Direct Silica planetary influences are wound into the plant as both, growth processes, setting fruit and ripening it, while building the 'ideal plant form'; and held in the seed via the seed chaos process, as a plant spiritual imprint. Both these silica streams are drawn in through the Autumn, fructified and 'crystallised' around mid winter, and then released back upwards, as Indirect forces in the Springtime. This transformation is made possible by the Gnomes, who are the soil Beings. I am ok with it just being a natural 'organic' process, but in that story, that's the language.

The Calcium processes begins with sea life and animals metabolising Calcium into bone and shell, which is deposited into the Earth. This is then received by the plants and is carried upwards, with the Silica stream, swirled and potentised through the plant, into the transpiration flow, and into the Atmospheric moisture. The plants use this atmospheric moisture with light, in photosynthesis to make new plant material. All of this returns to Earth, as homeopathic Calcium, in the rain and dew, and decaying plant material, to be accumulated in the living Clay/Humus colloids within the soil, by the gnomes. This Calcium stream joins with the Silica stream, mentioned above, during winters fructification and begins its journey back through the plant, as 'Wood Sap'.

These two process cycles, are always interacting. RS tells of how this flow through the seasons, works with the various forces as it moves through. Our opportunity as RS students to use this as a guide for our observation of Nature and then as a basis for our actions with Nature.

Stage 1 is Lievegoed, Stage 2 is the Agriculture Course and Stage 3 are the 1923 lectures. None of these patterns are 'wrong', they are just telling different parts of the story. There is a pathway through this maze.

Given all this 'evidence' I suggest we take this phenomena of the **3 Stages of Manifestation** seriously, especially when working with the planetary order, and the Physical Formative Forces. **These are the levers we can control nature with.** However we must know where we are, and the rules that apply where, in this game of three dimensional 'chess', that RS provided us with.



What does this all mean ?

Over the years I have made several attempts to show how this approach to the planets impacts upon the practical suggestions RS gives throughout the course. I have written a commentary to the Course , and done a reedit, putting relevant paragraphs together, while adding words to emphasis reading the course through this filter. I have also written some focused articles on natures cycle, along with ones on Fungus and Pest control. Please refer to these for more details. For the quick version I can show some of the larger impacting applications.

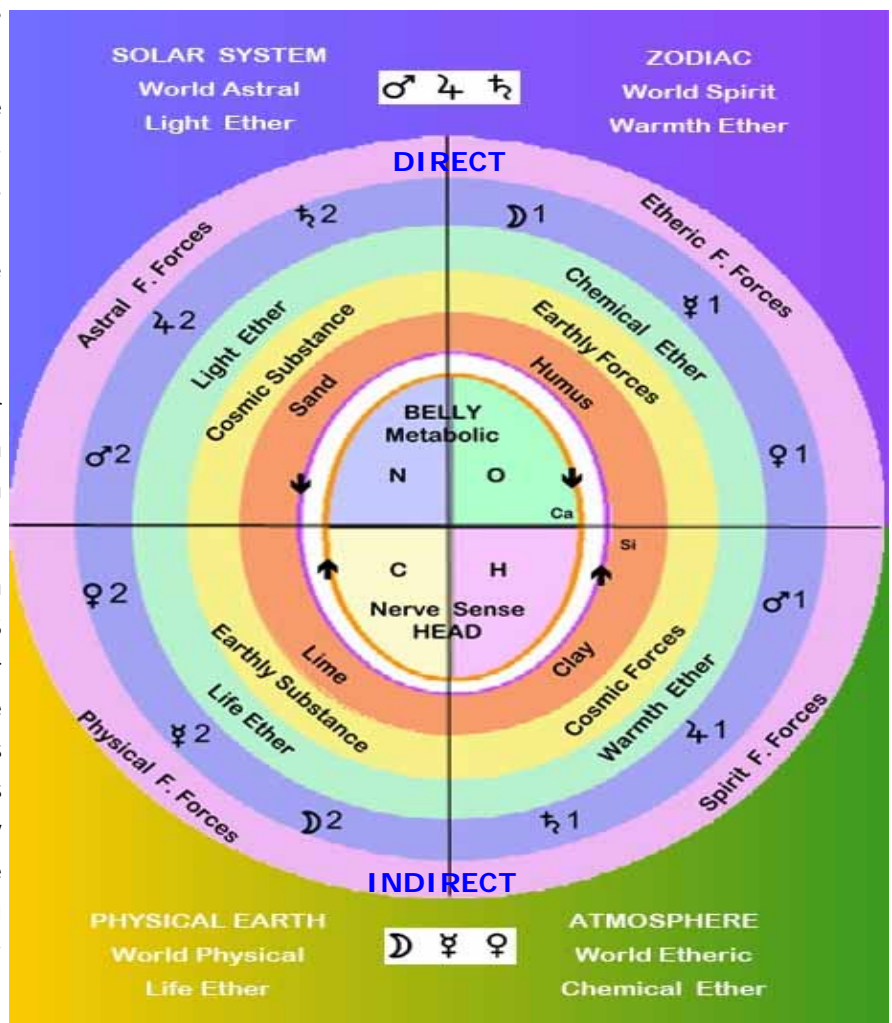
Lecture 2

Look at it again within this image.

Essentially it is a lecture outlining how the 4 astronomical activities manifest within the Physical body as the Physical formative Forces, within the threefold physical organism.

We are then given the four substances through which these forces work and through which we can control them.

Along the way we are given part of the seasonal story. RS talks of the mid winter crystallisation period, where the 'male' Cosmic seed chaos activity at pollination, joins with the 'female' Earthly Substances in the Fructification event, creating the Wood Sap activity that springs forth from mid winter, with the help of Clay.



Lecture 3

In this lecture we are told how the 4 fold story of the Primary Energetic Activities works through the 5 'sisters of protein'. This provides **THE link of how the cosmic energies work into matter.**

This lecture however is incomplete and therefore somewhat confusing. The incarnating path of the Spirit via Hydrogen is not talked of, so it is easy, given some strong comments in the lecture, to confuse 'the carrier of the Spirit' as either Carbon or

Sulphur. Hydrogen is the 'first' element, that drives the Stars, which are the source of Spirit force, and from which all other elements are derived. The medical lectures have this emphasis of Hydrogen as the carrier of the Spirit.

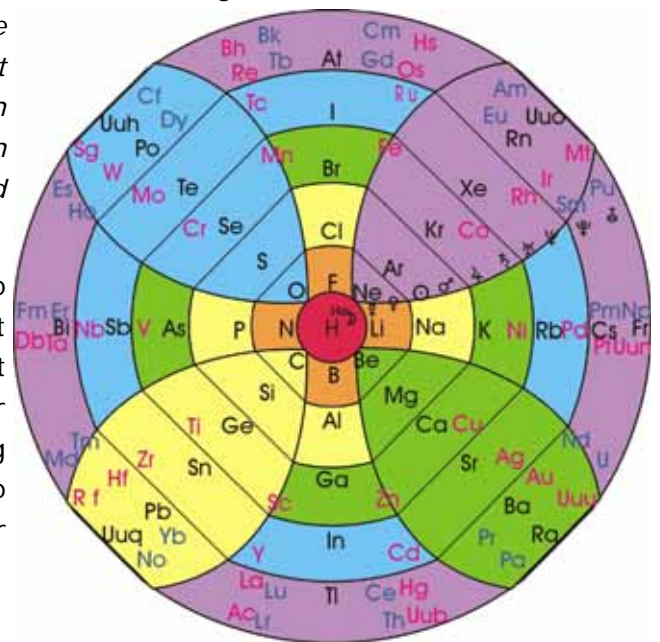
Carbon is the physical carrier of ALL the energetic activities, as it provides the physical body, for them all to come into manifestation. While Sulphur is the 'oil' or facilitator that allows all of the energetic activities to work together into matter. Once these three understandings are clarified, this lecture becomes much more straight forward.

One of the highlights of the lecture is where RS tells of how Nitrogen draws Oxygen to Carbon.

"throughout Nature the oxygen bearing the etheric life must find the way to the carbon bearing the spiritual principle . How does it do this? What here acts as the mediator?"

*The mediator is nitrogen. Nitrogen (**Astral**) directs the life (**Etheric**) into the form (**Physical**) which is embodied into the carbon. Wherever nitrogen occurs its function is to mediate between life (oxygen) and the spiritual element (hydrogen) which has first been incorporated in (with) the carbon substance. It supplies the bridge between oxygen and carbon - whether it be the animal and vegetable kingdoms, or in the soil."*

Translated this means that the Astral picks up Oxygen and gives it movement, while binding it to the Physical. This essential process is not clearly stated elsewhere in the course. However it is significant for lecture 4 and in understanding Equisetum. One observation of this relationship is in the Periodic table, where we see the order is Carbon, Nitrogen , Oxygen (orange ring)



Lecture 4

Two questions that arises in lecture 4 are 'how does the cowhorn work and what is occurring with the Astral comments'. We can note that within the nerve sense system we have the Spirit and Astral working. In the conversations of the cosmic and earthly nutrition streams in lecture 8, we are told, that depending on the strength of the Cosmic Forces / Spirit in the nerve sense region, we can determine how strongly the Astral related Cosmic Substance stream comes in through the senses, working down into the digestion. This initially is a World Astral activity that is transformed by the senses into a Internal Astral activity. Due to this nutrition image some people read the follow passage to mean that the World Astral comes from the front, through the horns and into relationship with the Etheric activity of the metabolism. Mirroring the 'front Sun to Moon rear' polarity talked of in the second lecture. They say horns are cosmic antenna, and hence the wonders of Horn Manure is all those World Astral Forces coming through the horns. This view has long been disputed, but nevertheless it persists, most recently by Dennis Klocek in 'Sacred Agriculture'.

Once we use the 4 fold ordering, we have a clear indication that the metabolism is sustained by the interaction of the Internal Etheric / Earthly Forces and Internal Astral / Cosmic Substance working together. Yes the Astrality has migrated from the nerve sense system, however this was a long time ago during the cows evolution. Now the Internal Etheric and Internal Astral have to work together for the metabolic system to work properly. It is this joint activity that moves forwards to the cowhorn, and is then reflected backwards. My studies into RS suggestions of Equisetum and kidney function, (10) show that it is an excess of World Astral activity in the metabolism that displaces the Internal Astral, which in turn stops activating the Internal Etheric, and the kidney stop working and shrink. The solution is to use the internal astral stimulating effects of Equisetum to push out the World Astral and begin pumping the Internal Etheric once more.

This quote is from the 1938 version of the course, as it is most easily accessed and out of copyright. The words in normal type are my 'clarifications', remembering that we need to read this description as an expression of the lecture 8 diagrams, of the internal organisation of the animal. RS manner of talking about the role of the Astral and Etheric within the digestive processes, is very common in the medical lectures, and forms the basis of several of his descriptions of illness.

*"Have you ever wondered why it is that cows have horns, while certain other animals have antlers? It is a very important question. Yet what science has to say about it is quite one-sided and based on externals. Let us consider why cows have horns. I said that the forces within a living organism need not always be directed outwards, but can also be directed inwards. Now imagine an organic entity possessing these two sets of forces, but which is unformed and lumpish in build. The result would be an irregular, ungainly being. We should have curious looking cows if this were the case. They would all be lumpish and unformed, with rudimentary limbs as at an early embryonic stage. But this is not how a cow is constructed. A cow has horns and hoofs. Now what happens at the points where horns and hoofs grow? At these points an area is formed from which the organic formative forces, moving outwards from the metabolism, are reflected inwards in a particularly powerful way. **There is no communication with the outside as in the case of the skin or hair; the horny substance blocks the way for these forces to the outside.** This is why the growth of horns and claws has such a bearing upon the whole form of the animal.*

Things are quite different in the case of antlers. Here the streams of forces, coming from the metabolism are not led back into the organism, but certain of them are guided for a short distance out of the organism; there must be valves, as it were, through which the streams localised in the antlers (we can speak of streams of 'force', just as we can speak of streams of air or liquid) can be discharged. A stag is beautiful because it stands in intense communication with its environment by reason of its sending outwards streams of metabolic forces; by this it lives within its environment and takes up from it everything which works organically in its nerves and senses. Hence the nervous nature of the stag. In a certain respect all animals which have antlers are suffused with a gentle nervousness. This is clearly to be seen in their eyes.

The cow has horns in order to reflect inwards the astral inspired Cosmic Substance and

etheric inspired Earthly Force, formative forces, which then penetrate right into the metabolic system, so that a activity in the digestive organism arises by reason of this radiation from horns and hoofs. In the horn, therefore, we have something which by its inherent nature is fitted to reflect back the living Etheric and Astral streams into the inner life organs. The horn is something which radiates etheric life and even the astral element. Indeed, if you were able to enter into the cows belly, you would smell the current of Etheric-Astral life which streams inwards from the horns: and the same thing is true of the hoofs.

Now this gives us a hint as to the measures we may recommend for increasing the effectiveness of ordinary stable manure. What is ordinary stable manure really? It is foodstuff which the animal has taken in and which up to a certain point has been assimilated by its organism, thereby stirring into activity certain dynamic forces in the organism. Its main use has not been to increase the amount of substance in the organism, for after having had its effect, it is excreted. It has become permeated with Astral /Cosmic Substance and Etheric / Earthly Force elements, active in the metabolism.

The Astral / Cosmic Substance element has filled it with nitrogen-bearing forces and the Etheric / Earthly Forces element with oxygen-bearing forces. The substance which emerges as dung is permeated with these forces. Imagine now: We take this substance and pass it into the soil in some form or other . Thus we add to the soil an etheric-astral element whose proper place is in the belly of the animal, where it produces forces of a plant-like nature. For the forces which we produce in our digestive tract are of a plant-like nature. We should be extremely thankful that we get such a residue as dung, for it carries etheric and astral forces from the interior of the organism out into the open. These forces remain with it, and it is for us to keep them there. In this way the dung will act in a life-giving and also astralising way on the soil, not only on the water element in it, but especially on the solid (earthly) element. It has the power to overcome what is inorganic in the earthly element. Now what is passed over to the soil will necessarily, of course, lose the form it originally had when taken in as food, for it has to go through an inner organic process in the metabolic system. There it enters upon a phase of decomposition and dissolution. But it is at its best just at the point where it begins to dissolve through the workings of its own astral and etheric elements. It is then that the parasites, the micro-organisms make their appearance. They find a good feeding-ground in which to develop. This is why the theory arose that these parasites are themselves responsible for the virtues in the manure. But they are only indications of the condition of the manure. If we think that by inoculating the manure with these bacteria we shall radically improve its quality, we are making a complete mistake. Externally there may seem at first to be an improvement, but in reality there is none. I shall deal with this point later. For the moment, let us continue with the matter in hand.

Let us put manure just as it comes to hand into a cow-horn, pressing it full, and bury it at a certain depth - say 1 to 2 feet deep according to the soil which should not be too sandy or clayey. We can choose any spot where the soil is in good heart. Now by thus burying it with its filling of manure, we preserve in the horn that function which it would

normally exercise in the cow's body, that is the reflecting and concentrating of the internal life-giving and astral elements. Through the fact of its being surrounded with earth, all the currents of Etheric and Astral forces stream into its interior, from the open end. These forces attract all the Astral and Etheric elements from the surrounding soil, and the manure contained in the horn becomes inwardly quickened with these forces in the course of the winter season when the earth itself is most alive. For the earth is most inwardly alive during the winter. All these living forces are preserved in the manure and thus there is a highly concentrated, life-giving manuring force in the contents of the horn. Then (in spring) the horn can be dug up and its contents removed. Those of you who were present at Dornach when last we made this experiment will remember that you were able to convince yourselves of the fact that when the manure was removed it was completely odorless. It was quite striking. The manure no longer smelt at all, though naturally it began to do so a little when it was mixed with water. This shows that all its odour had been concentrated and worked up within it. You have here a tremendous astral and etheric power which you can utilise by taking the content of the cow-horn after its period of hibernation and diluting it with water which perhaps should be slightly warmed.

Lecture 5

Here are the various planets relationships and the energetic activities of the preparations. I like Dr Lievegoed's planetary associations, which support and build upon the energetic activities of the three preparations that RS mentions in this lecture. I added the suggestions for 506 and 507.

Hugh Lovel has championed a slightly different organisation to this. He says it comes from Maria Thun. He says Saturn is Equisetum, Mars is Valerian and Sun is Stinging Nettle. I can see why they would consider that however my study into Equisetum, with its working into the metabolism and particularly the kidneys, places it more as a 'middle' Venus Mars preparation. It's primeval, pre flowering plant origins and stem

SPIRIT Indirect Outer Pl. 1 Warmth Cosmic Forces Clay	Cambium	Saturn	P	Valerian	Strengthens the Spirit
	Salamanders ↓				
ASTRAL Direct Outer Pl. 2 Light Cosmic Substance Sand	Sylphs	Jupiter	S	Dandelion	Merge Spirit and Astral towards the Physical
ETHERIC Direct Inner Pl. 1 Chemical Earthly Forces Humus	Life Sap	Mars	Cl	Nettle	Harmonise the Astrality
PHYSICAL Indirect Inner Pl. 2 Life Earthly Substance Cations	Undines ↓	Sun	Ar	Equisetum	Astral stimulates the Etheric within the metabolism
	Gnomes	Venus	Na	Yarrow	Opens the Etheric to the Astral
	Wood Sap	Mercury	Mg	Chamomile	Stimulates the Etheric
	↑	Moon	Al	Oak Bark	Etheric binds to the Physical
	500	Earth	Si	Quartz	Spirit binds to the Physical

dominance takes it away, from the seeding processes associated with Saturn. With Stinging Nettle we can see from RS words and its action as a remedy that it works particularly to calm the Astrality. Anyway their suggestion are worth exploring for yourself.

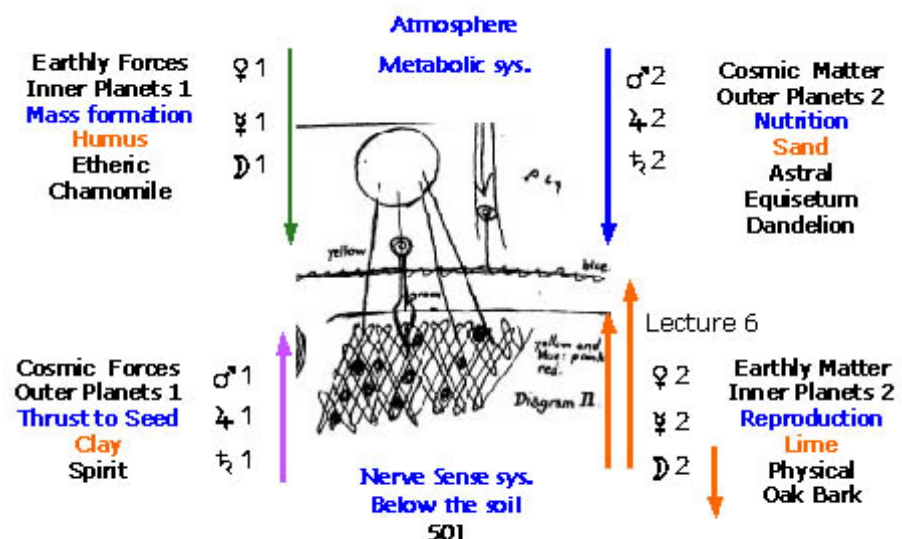
Lecture 6

In this lecture we are given insights into Fungal and Pest problems. The passage where RS describes fungal rot problems has some very confusing indications. Again looking at this passage through this fourfold filter offers some intriguing suggestions.

"There remains for us one more subject to consider: the so-called plant diseases. Actually this is not the right word to use. The abnormal processes in plants to which it refers are not "diseases" in the same sense as are those illnesses which afflict animals. When we come later on to discuss the animal kingdom, we shall see this difference more clearly. Above all, there are not processes such as take place in a sick human being. For actual disease is not possible without the presence of an astral body. In man and animals, the astral body is connected with the physical body through the etheric body and a certain connection is the normal state. Sometimes, however, the connection between the astral body and the physical body (or one of the physical organs) is closer than would normally be the case; so if the etheric body does not form a proper "cushion" between them, the astral intrudes itself too strongly into the physical body. It is from this that most diseases arise.

Now the plant does not actually possess an astral body of its own. It does not therefore suffer from the specific forms of disease that occur in men and animals. This is the first point. The next point is to ascertain what actually causes the plant to be diseased. Now, from everything I have said on this subject, you will have gathered that the soil immediately surrounding a plant has a definite life of its own. These life forces, in the form of Earthly Substance are there and with them all kinds of forces of growth and tender forces of propagation not strong enough to produce the plant form itself, but still waiting with a certain intensity; and in addition all the forces working in the soil under the influence of the Moon and mediated through water. Thus certain important c o n n e c t i o n s

emerge, in the first place you have the earth, the earth saturated with water. Then you have the moon. The moon beams, as they stream into the earth, awaken it to a certain degree of life, they arouse "waves" and weavings in the



*earth's etheric element. The moon can do this more easily when the earth is permeated with water, less easily when the earth is dry. Thus the water acts only as a mediator. What has to be quickened is the Earth itself, the solid mineral element. Water, too, is something mineral. There is no sharp boundary, of course. In any case, we must have lunar influences at work in the earth, via the Earthly Substance. Now these lunar influences and the Earthly Substance can become too strong. Indeed this may happen in a very simple manner. Consider what happens, when a very wet spring follows upon a very wet winter. The lunar force enters too strongly into the earth, which thus becomes too much alive. I will indicate this by red dot's. (See Diagram No. 11). Thus if the red dots were not here, i.e. if the earth were not too strongly vitalised by the moon, the plants growing upon it would follow the normal development from seed to 'fruit; there would be just the right amount of lunar force distributed in the earth to work upwards, upon the Cosmic Force stream, and produce the requisite fruit and seed. But let us suppose that the lunar Earthly Substance influence is too strong - that the earth is too powerfully vitalised - then the Earthly Substance forces working upwards become too strong, and what should happen in the seed formation, occurs earlier. Through their very intensity the Earthly Substance forces do not proceed far enough to reach the higher parts of the plant, but become active earlier and at a lower level. This is caused by the Earthly Forces acting alone, without the Cosmic Forces, and indeed being so strong as to suppress the upward Cosmic Forces stream. The lunar influence has the result that there is not sufficient strength within the Silica stream, to meet the Cosmic Substance active above, for seed formation. The seed receives a certain portion of the decaying life, and this decaying life forms another level above the soil level. This new level is not soil, but the same influences are at work there. The result is that the seed of the plant, the upper part of the plant becomes a kind of soil for other organisms; parasites and funguloid formations appear in it. It is in this way that blights and similar ills make their appearance in the plant. It is through a too strong working of the moon and the Earthly Substance that forces working upward from the earth are prevented from reaching their proper height. The siliceous powers of fertilisation and fructification depend entirely upon a normal amount of lunar influence. It is a curious fact that abnormal developments should be caused not by a weakening but by an increase of lunar forces. Speculation might well lead to the opposite conclusion. Looking at it in the right way shows that the matter is as I have presented it. What, then, have we to do? We have to relieve the earth of the excess of lunar forces in it. It is possible to relieve the earth in this way. We shall have to discover something which will rob the water of its power as a mediator and restore to the earth more of its earthiness, so that it does not take up an excess of lunar forces from the water. This is done by making fairly concentrated brew (or tea) of *equisetum arvense* (horse-tail), diluting it and using it as a liquid manure on the fields for the purpose of fighting blight and similar plant diseases. Here again only small quantities are required; a homeopathic dose is generally sufficient. As you will have realised, this is precisely where one sees how one department of life affects another. If, without indulging in undue speculation, we realise the noteworthy effects produced by *equisetum arvense* upon the human organism by affecting the function of the kidneys, we shall have, as it were, a standard by which to estimate what this plant can achieve when it has been*

transformed into liquid manure, and we shall realise how extensive its effects may be when even quite a small quantity is sprinkled about without the help of any special instrument. We shall realise that equisetum is a first-rate remedy. Not literally a remedy, since plants cannot really be ill. It is not so much a healing process as a process exactly opposite to that described above."

The suggestion for Equisetum suggests RS is strengthening the Internal Astral or its surrogate the Cosmic Substance in the metabolic region, to push down and both suppress the overly active Earthly Substance, but also to encourage the sleepy Cosmic Forces from below. However if we reflect upon lecture 2, RS gave very clear instruction that we could strengthen the Cosmic Forces through the use of clay. We also need to reflect on the comments RS made about the functioning of the Oak Bark prep, in that it helps to pull and overly active Earthly Substance / Moon activity back into the physical body, without causing any shocks.

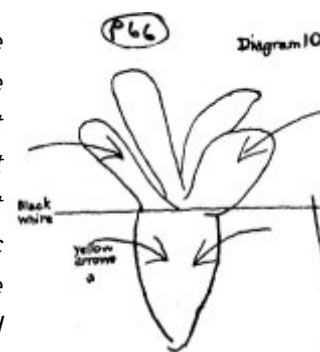
Hence a combination of Clay, Equisetum and Oak Bark becomes a suggestion against rot fungus. My experiments have shown this to be a effective remedy.

This use of Equisetum appears to be the opposite remedy to RS Bidor preparations, made from Quartz, Iron and Sulphur. This aims to work from the nerve sense system / head and push back an overly active metabolic process, which is working too strongly upwards and causing headaches. See (10) for a more detailed investigation of this matter.

Pest Control

Also in lecture 6 we find these comments.

"Now I am going to tread on very thin ice and take an example very near home. I am going to talk about the nematode of the beetroot. The outer signs of this disease are a swelling of root fibers and limpness of the leaves in the morning. Now we must clearly realise the following facts: The leaves, the middle part of the plant which undergo these changes, absorb cosmic influences that come from the surrounding air, whereas the roots absorb the forces which have entered into the earth and are reflected upwards into the plant. What, then, takes place when the nematode occurs? It is this: The process of absorption which should actually reside in the region of the leaves has been pressed downwards and embraces the roots.



Thus if this (Diagram No. 10) represents the earth level, and this the plant, then in the plant infested with the nematode the forces which should be active above the horizontal line are actually at work below it. What happens is that certain cosmic forces slide down to a deeper level; hence the change in the external appearance of the plant. But this also makes it possible for the parasite to obtain under the soil (which is its proper habitat) those cosmic forces which it must have to sustain It (the nematode is a wire-like worm). Otherwise it would be forced to seek for these forces in the region of the leaves; this, however, it cannot do as the soil is its proper environment. Some, indeed all, living beings can only live within certain limits of existence. Just try to live in an

atmosphere 70 degrees above or 70 degrees below zero and you will see what will happen. You are constituted to live in a certain temperature, neither above nor below it. The nematode is in the same position. It cannot live without earth and without the presence of certain cosmic forces brought down into it. Without these two conditions it would die out.

Every living being is subject to quite definite conditions. And for the particular beings with which we are dealing, it is important that cosmic forces should enter the earth, forces which would ordinarily display themselves only in the atmosphere around the earth. Actually the workings of these forces have a four-year rhythm. Now in the case of the nematode, we have something very abnormal. If one enquires into these forces, one finds that they are the same as those at work on the cockchafer grubs; and as those, too, which bestow on the earth the faculty of bringing the seed potato to development. Cockchafer grubs as well as seed potatoes are bred by the same forces, and these forces recur every four years. This four yearly cycle is what must be taken into account not with regard to the nematode but with regard to the steps we take to combat it."

In this case we have an overly active World Astral / Cosmic substance activity causing the pest problem, which he really did not provide the solution for. He went on to talk of peppering. However this does not provide a solution to this energetic problem. Peppering does not alter the environmental energetic activities. It cuts off a specific reproductive stream to a specific part of a specific species. Experience shows, you might rid yourself of one pest via peppering, but another of the same natural niche will replace it. His suggestion for altering the environment to fend off pests is achieved by other means, such as specific BD preps and specific chemical elements. Nevertheless he has given us this very important image about the energetic reason for some pest attacks. It would seem appropriate to pull out the overly active Astrality with Stinging Nettle and stimulate the Etheric inspired Earthly Substance activity within the soil, with Horn Manure, Chamomile and Yarrow.

These are the most contentious and influential passages in the course, however if there are specific passages you do not understand, I suspect the fourfold view will help. Have a look about what I say about it in my commentary, online. Or let me know and I will see if I can shed some light on it

Lecture 8

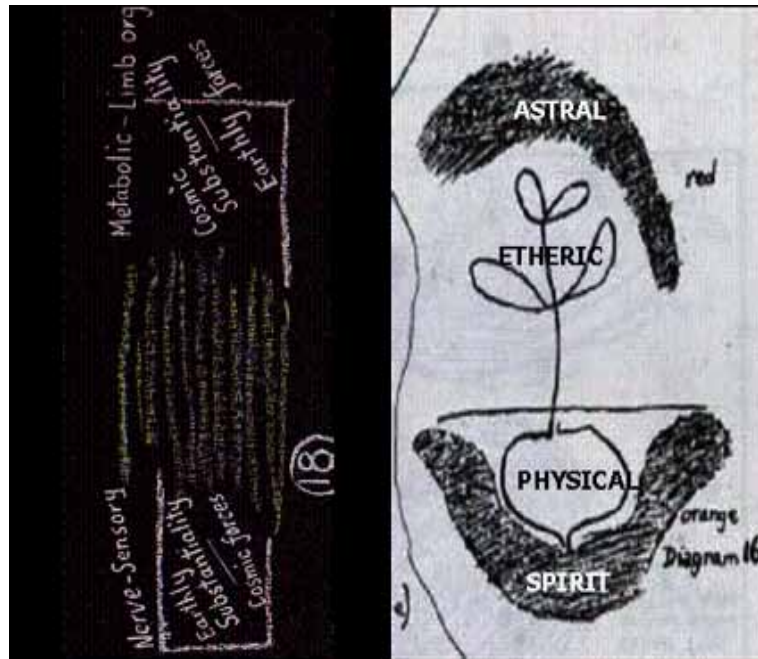
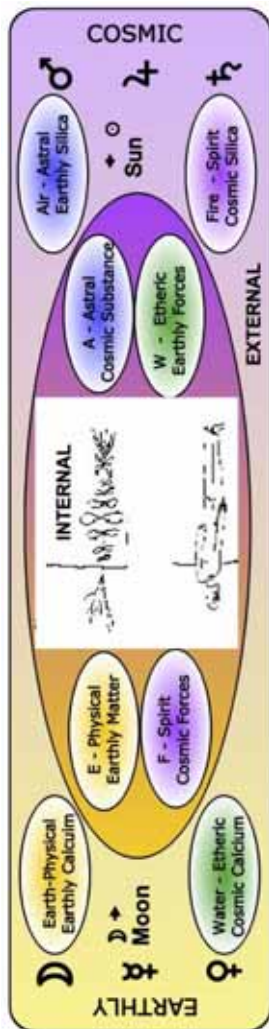
This lecture pretty much speaks for itself and gives a relatively clear indication of the four energies working within the physical bodies of animals. The role of the Cosmic Forces is not as strongly stated as it is in other RS lectures, so I have included another example to fill this image out.

Given the whole course is a story of four activities taking place within the 3 fold physical organism, lecture 8 is an essential and completing part of the story. Once we have got to the end of this lecture, it is time to go back to the beginning of the course and read it again. As the pictures from this lecture are needed at Lecture 2, for the story told there and in the rest of the lectures, to make more sense.

My take on the story.

We are provided with an image of all the kingdoms health being the interplay between the activities of the nerve sense system, playing downwards for the Human, into the metabolic system and vis versa. The metabolic system has to also play back upwards into the nerve sense

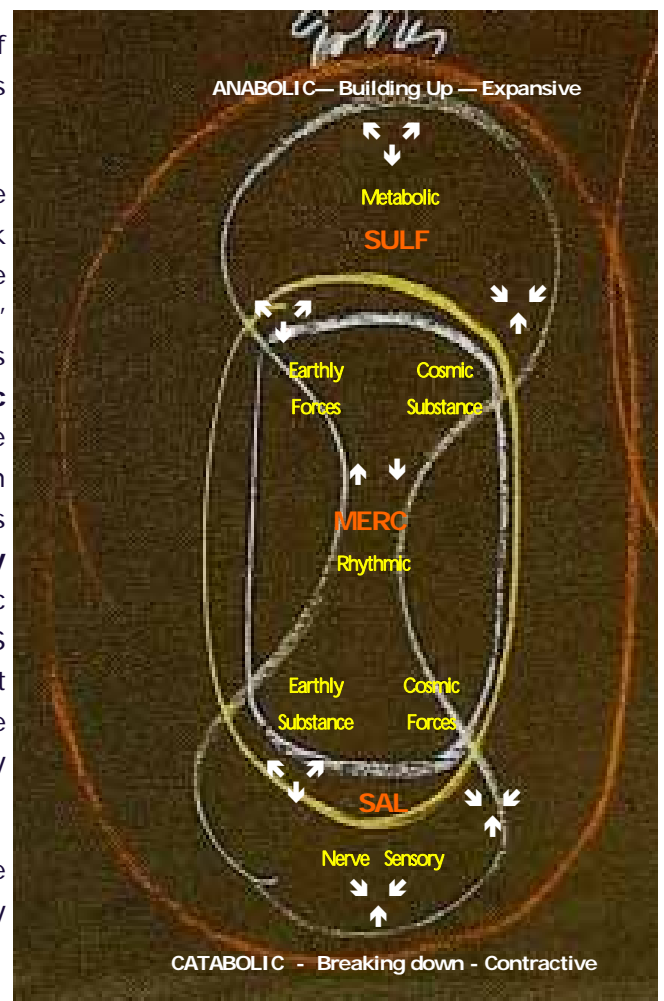
Plants and Earth organisation Is opposite to Humans



system. We need to remember when talking of Plants in relation to the Human, the Human is inverted with their head in the Earth.

This interplay is further complicated when we appreciate that for the nerve system to work correctly, it has to balance two main players. One is a contractive influence coming from 'its natives' the Spirit, as the **Cosmic Forces** and its supporter the Astral that becomes the **Cosmic Substance**. The second is an expansive influence, that has come from the metabolism through evolution, into the brain substance. This is anchored by the Physical activities — **Earthly Substance** and supported by secondary Etheric activities. Although not stated in this lecture, RS does stress in the other lectures that, we must find all four energetic activities in each of the three physical systems. In this lecture we are only given the dominant partners, in each system.

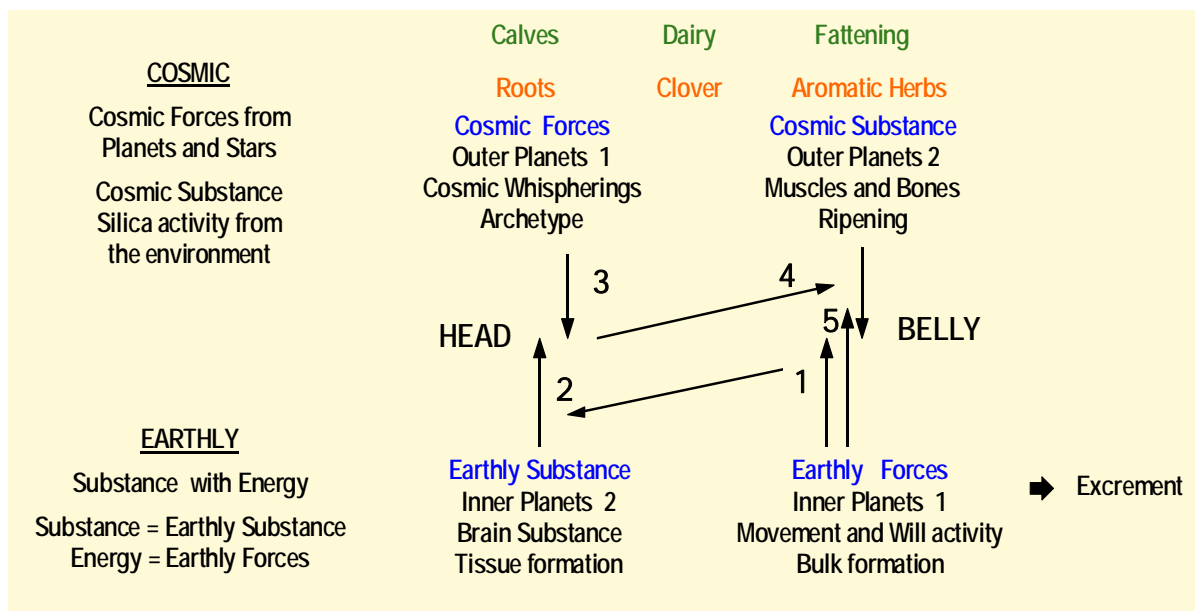
The metabolism similarly has to balance its native expansive influences lead by the Etheric activity



called the **Earthly Forces**, which are supported by physical processes, with the contractive Astral – **Cosmic Substance** - supported by the Spirit which works downward from the nerve sense system. This part of the story is also told in the 4th lecture, where RS talks of the interaction of the Etheric and Astral in the metabolic system, which moves forward and is reflected back into the metabolism, by the cow horns.

RS tells us how from the food we eat, the digestive processes must be strong enough to respond so that a certain amount of 'ash' is created, (1) so that this ash can make its way to the head, (2) where it becomes the substance of the brain. **The Earthly Substance**. The RS medical stream has this pathway clearly mapped. While at the same time Etheric based **Earthly Forces** are released from the food, and this provides the energy for movement. Thirdly any leftover substance and forces are excreted as manure.

The nerve sense system in return responds. The quality of the brain substance we create, influences how and what influences we can receive from the **Cosmic Forces** (3) which are all the World Forces. Some of these forces can become your Incarnated Spirit (ego potential). We are embedded in this energetic field. The intensity of the Cosmic Forces we receive (3), in turn influences the strength, quality, clarity and our awareness of the impulses, we receive from our physical senses. (4) RS talks of how this physical sense input is an astral activity working into the Physical Sphere, to become **Cosmic Substance**, which if supported by foods based around grains and seed, works downward into the metabolism, where it in turn stimulates the Etheric based **Earthly Forces** into action, (5) causing both a good ashing and plenty of new Earthly Forces for more actions. So the circle continues.



This is a very dynamic story of four active players. Each has their place in each scenario we find manifest in this multi dimensional reality we have in front of us.

Lecture 8 could have been stronger on the active and important role of the Cosmic Forces. We do

have his more explicit description given on 23 August 1923, though.

"I will then relate man's three members — the head; then the breast-organisation embracing all that is rhythmical, the breathing system and blood circulation; thirdly, the metabolic-limb system, which includes nutrition, digestion and the distribution throughout the body of the products of digestion, all of which engender movement. All this has to do with the metabolic-limb system. If this scheme were drawn, there would have to be a closed circle for the breast; for the head a circle left open, and open also for the limb system. When perceived physically, man's head appears to be closed above and would have to be drawn so, but perceived spiritually, it is open. The part of a man which does not belong at all to the realm of the spirit is the bony system, which is entirely of a physical nature; and when spiritually you study the human head, its thick skull is not seen. Only the skin is visible where the hair grows.

When this is looked at spiritually, however, something else appears. Ordinary hair is not there at all, but purely spiritual hair; in other words, rays which penetrate into the human organism and are held back, to some extent, only by the physical hair. But it is just where there is bone in the organism that the spirit can enter most easily, and this it does in the form of rays. So, on first looking at a man with your physical eyes, you see his physical form with the head above, and on his head — if he is not already bald — there is hair. But then, where the dome of the skull comes, spiritually you see nothing of the physical man; you see rays, sun-like rays, pouring into him from the spiritual worlds.

Thus the reason for the circle not being closed for the head is that the surrounding bony vault of the skull enables the spirit to have continual access there.

Nothing in a man is without purpose. By deliberate intent of the ruling powers — one might say — he has been given a head thus closed above, for here the spirit has the easiest access to his inner being because of the very thickness of the bone.

When we are in a position to observe man spiritually, we are astonished to discover how empty his head is of anything drawn from his own inner being. As regards the spiritual, he has almost nothing in him to fill the hollow globe sitting on his shoulders. Everything spiritual has to enter it from outside.

It is not thus with the other members of the human organism; as we shall soon hear, these are by their very nature spiritual. We can distinguish in man three members — head, or nerves and senses system, rhythmic system, metabolic-limb system, and they have a quite definite relation to the three worlds: the physical world, the soul-world, and the spiritual world."

The role of the Cosmic Forces, and thus the quality of the Brain Substance to receive them, can not be understated. With the Cosmic Forces we receive far more than we can via our limited physical senses. We receive the currents flowing through the Collective Unconscious, which are how the Solar System is mediating the beams of forces from the Stars. These are all immense forces beyond our consciousness usually, and interestingly these are what we believe to be our reality. We interpret them via the context of our understandings and sensory experience, however the changing drama

we see in our lives, is most often beyond our comprehension. We can gain some insight into the story told by the Cosmic Forces, if we consciously observe the planetary positions and their interactions with each other. This is the electro magnetic state of the Solar System at that time. Matter follows electro magnetism. So..... This at least provides a sketch of what the Astrality is providing for us, to believe to be true at any particular time. We can also observe how the planets activities will change in the future, and what this means for our perception of reality, at that time. Our reality is indeed very subjective, once we look.

The Cosmic Forces are a important part of the game as these are The Formative Forces. This is the Universes message, the core of which is carried by Saturn 1 in the planetary dimension. These are the blueprints by which everything manifest is formed. They can not be lost from the lecture 8 story.

Conclusion

Ok...that has been quite some journey. This is the short version of the story. The longer version is available as a hardcopy book from Moodie Publications.

Given it has been 100 years this question has not been addressed adequately, I thought it worth the effort of giving a fuller picture. It has also been an opportunity to place the Agriculture Lectures within the larger context of Dr Steiner's Nature lectures. A process that has bought quite some confusion for many people. I hope the order presented to you here brings some clarity to your journey with the unseen forces.

I am very thankful to Dr Bernard Lievegoed, for the tracks he left us to follow, to the entrance of the planets story. From there we have had to find our own way, which I trust I have provided. I can but hope these offerings will settle this outstanding question, and allow you to find useful remedies for the problems you face with nature.

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