

Twelve fold Structure of Manifestation

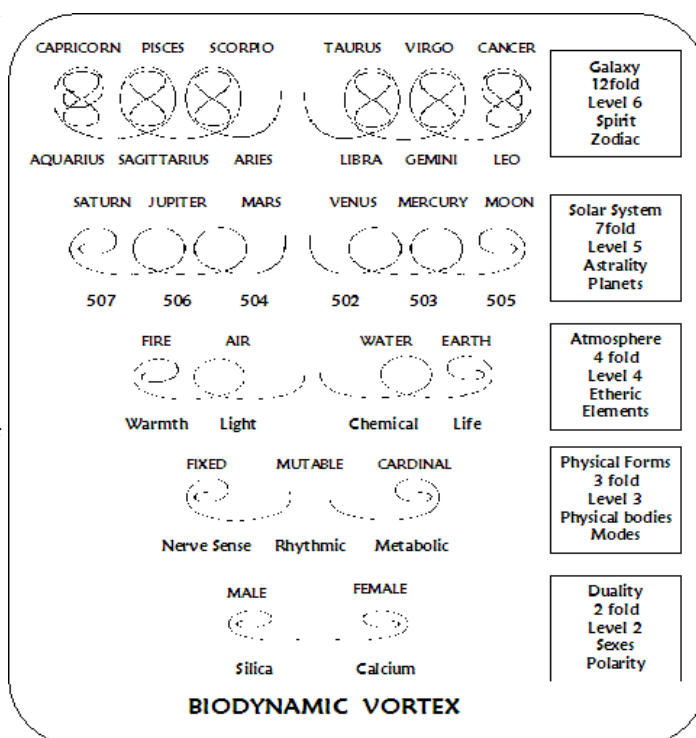
Glen Atkinson
2006

Introduction

The following essays, primarily explore the implications of the 12 fold processes, in regard to the use of minerals in Biodynamic Agriculture. There are several sources to draw upon, however some introduction may help to place these in a context to each other, and thus allow a form to arise that we can practically use.

In 1979 I outlined the structure of the Biodynamic Vortex with its 6 layers. In the intervening years I have sought for the flesh that fills out these bones, and to provide the working relationships between the parts of the diagram, along with the biodynamic references that bring them into life. My aim has been to deepen and strengthen the knowledge and practical applications of the biodynamic preparations to nature. This began to manifest in 1989 as "Biodynamics Decoded".

In the intervening years, I have done very little on the 12 fold layer in Agriculture, until recently. In "Biodynamics Decoded" I provided the basis by which to explore this layer, and provided some of the references associated with it. I did present an image of how to use the constellations, in plant spraying times, as a deepening of the planting by the Moon work. I and others, have found this useful, when aiming to influence plant growth directions, through tillage and spraying times. In my "Spiral Astrology" (2000) I used this material, when describing the activity present in human psychological and spiritual processes.



In my recent explorations of chemistry I have again come to the 12 fold layer as a means of organisation. In Steiner medicine, we are told how this 12 fold spiritual layer, has a strong connection to the mineral kingdom, and to influence it, we are best to look to minerals, rather than the plant or animal kingdoms. Steiner literature has many references to the spiritual activity of minerals, however the only organised attempt to associate chemistry to the 12 fold processes, has been by Dr Hauschka in his "Nature of Substance". In this work he provides pictures of the major elements used in chemistry and those used in agriculture, and places them within a 12 fold framework of the seasonal zodiac. His images are very convincing, and add valuable insights into the deeper processes of the elements, especially those used in the mineral 'Cell Salts', which as yet have not found their place in agriculture.

The twelve fold processes of nature and plant growth in particular need to be clarified. One monumental work in the Biodynamic literature that does provide some of the biodynamic language for this task, is Lievegoed "The Working of the Planets and the Life Processes in Man and Earth". In this book, he explores the two sided activities of the six planets, and how these are related to the plant growth processes. He does not however, provide any indications as to the zodiacal relationships, that may correspond to these planetary plant growth processes. Hence it is difficult to cross reference chemistry to the plant growth processes.

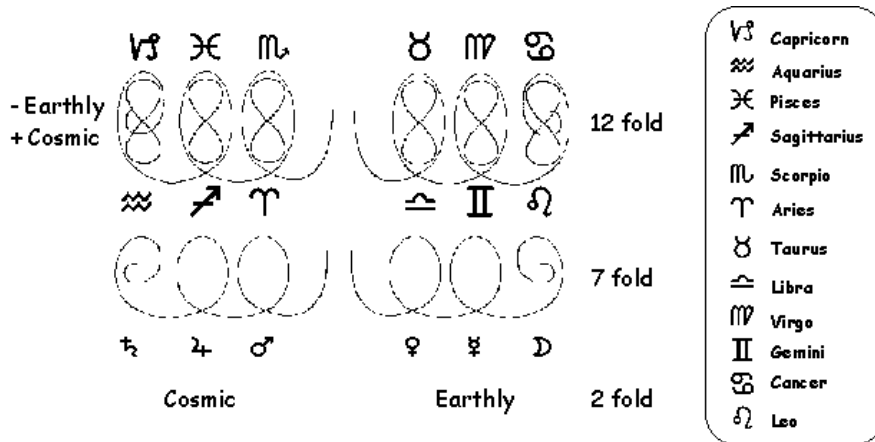
My aim here is to identify the 12 fold plant growth processes, relate them to their zodiacal partners, and place this information in reference to Hauschka's chemical suggestions. This is the first part of a broader study into biodynamic chemistry which will come along in time. I trust this can be of use in the meantime.

Glen Atkinson
July 2006

12 Fold - From Biodynamics Decoded

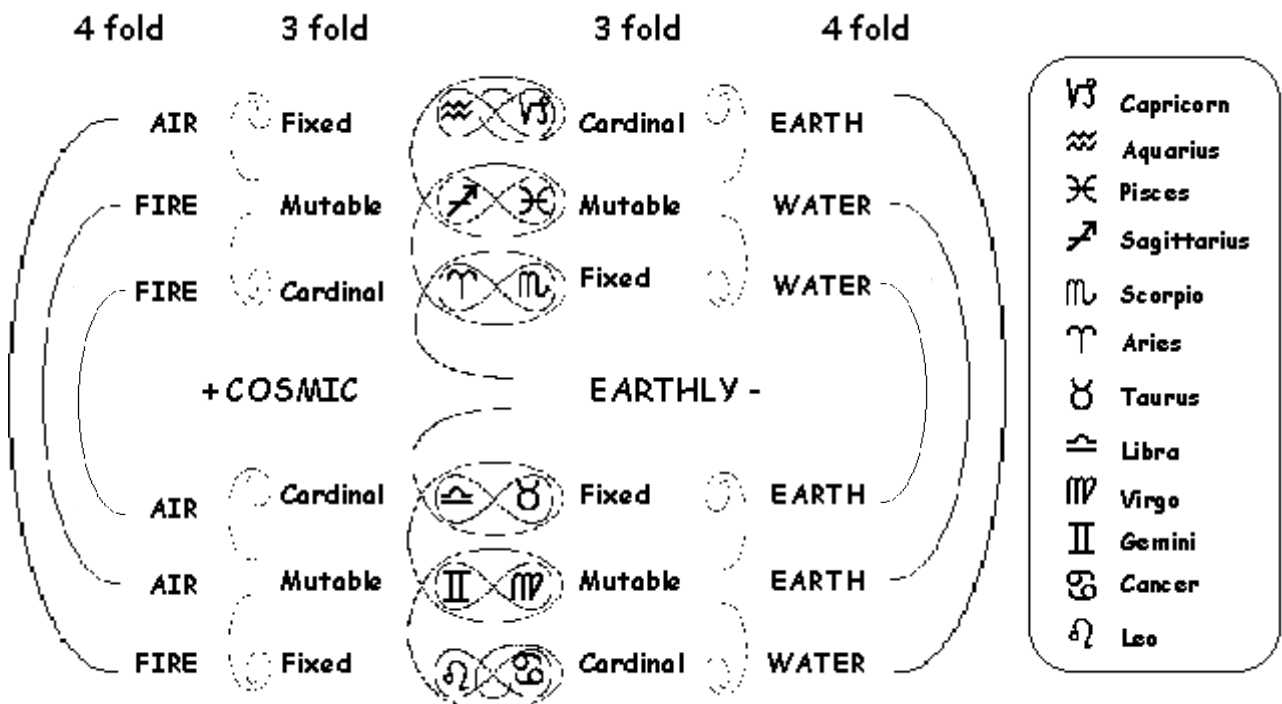
In 1989 I outlined the basic ordering and internal relationships to be found in the 12 fold level. Most of these patterns are relevant for the coming discussions.

From the Biodynamic Vortex, we are firstly provided with a planetary pattern, and from this pattern we can extend a reference of where the zodiac fits, based upon the traditional planetary rulerships of the zodiac. The following diagram was presented. In it, it seemed reasonable to place the 'male' fire and air constellations together and class them as the



'cosmic' constellations, given these elements relationship to the spirit and astral activities. Likewise the Earth and Water constellations were placed together and related to the physical and etheric activities they carry. Thus relating them to the Earthly stream of activity.

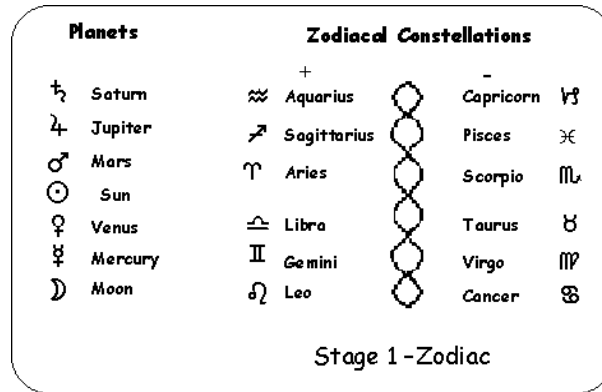
What I liked the most about this diagram is that all of 'rules' of the previous layers of the BD Vortex are contained within this patterning. The 2 fold Cosmic and Earthly, the three fold modes and the polarities between the four fold elements are all present in this order. This represents to me that herein lays 'A Truth'. What that truth is and how it is applied is the task ahead.



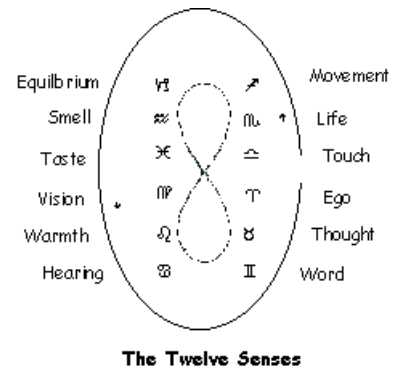
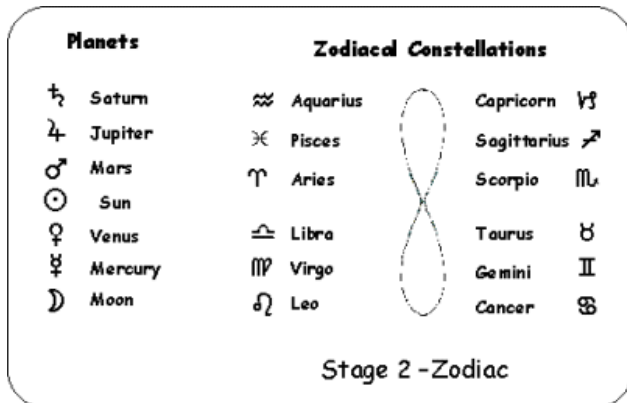
The one problem with this patterning is that it is not the same ordering of constellations as we find in the sky above us. Eg Cancer, Leo Virgo Libra etc. I address this question in Chapter 19 of 'BD Decoded' in "Equinoctial and Seasonal Zodiacs". The short version follows.

What this pattern does presents us with is that it is not focused on the usual Aries Pisces beginning point. If anything it starts at the bottom at the Leo Cancer divide. To find the zodiac as it appears in the sky we find a DNA like spiral twist. A reference for this pattern can be found in Dr Steiner and Dr Kolisko's work on the evolution of the animal kingdom. Dr Kolisko picked up a suggestion of Dr Steiner's and outlined the evolution processes according to the zodiac, however it is a zodiac beginning at Cancer and moving backwards through the zodiac until it reaches Leo.

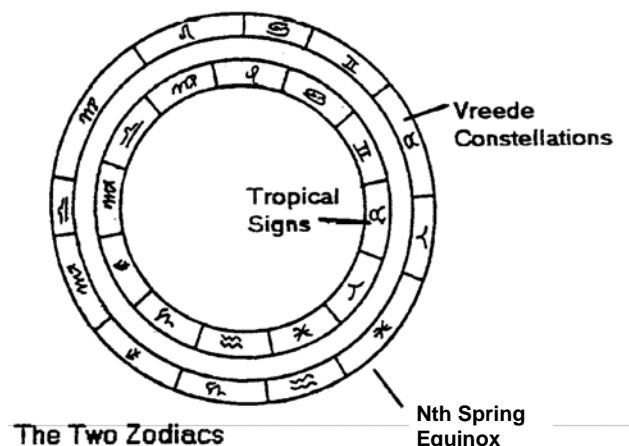
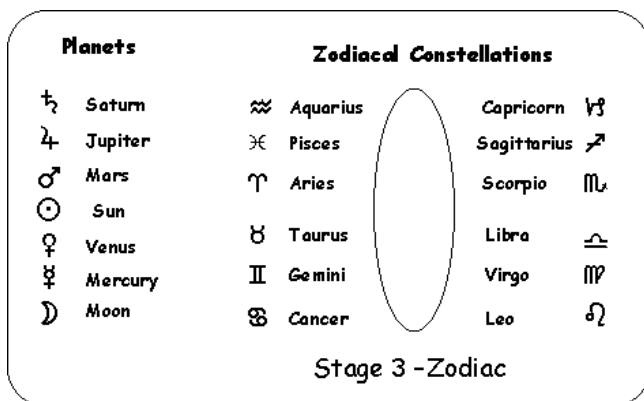
I have called this zodiac - Cancer >> Leo - the Equinoctial Zodiac, as this backward path through the zodiac is the path the spring equinox takes through the ages. Every 2150 years the spring equinox moves into a new constellational background, and the ages of history, are described accordingly. Likewise the nodal axis also moves backwards through this zodiac. To see this path though in this diagram we have a pattern not unlike that of a DNA molecule.



I identified this pattern as the 'archetypal' pattern. It is a primary base pattern standing behind all things. To get to the traditional circular ordering, of the constellations as they appear in the sky, we must go through two steps of unwinding. First, the mutable or 'changeable' signs of Sagittarius and Pisces reverse positions. Likewise for Gemini and Virgo. This provides a patterning that is organised according to the lemniscate form.



Finally to get to the zodiac we have in the sky a further unwinding occurs with the bottom left signs of Libra, Virgo and Leo swap places with Taurus, Gemini and Cancer.



I have characterised this process as providing us with the model for a threefold process of organisation which can be used to identify three different dimensional levels of organisation for creation. 1) Is the cosmic archetype, This is the order that governs the 'seed thoughts' upon which matter can accumulate around. It is the spiritual base for creation. 2) is the laws that stand behind matter and the organisation of the soul / astral level that organises matter and 3) is the laws that governs how matter works in manifest form. I have used this patterning in various ways, but most notably in my organisation of chemistry, outlined in "Biodynamic Chemistry". In this work I showed how all three work simultaneously, and can provide a matrix for the interpretation of the spiritual activity of the chemical elements.

To find the relationships between the zodiac and Lievegoed's primary and secondary planetary plant processes, the question arises, which one of these three zodiacal organisations is Lievegoed using. I originally surmised that we should allocate his primary and secondary rulerships, to the Archetype level, and unwind from there. This reference is made mostly as it corresponds to the traditional positive and negative rulers, thus connecting Positive to Cosmic and Negative to Earthly activities, as I outlined earlier. The subsequent unwinding process, provides a pathway that leads to the alternating positive and negative signs we find in the manifest zodiac, as we seen in the sky. This is a reasonable and correct call within Astrological reference, but it does not mean that Lievegoed's "Cosmic" is Astrology's positive and his "Earthly" is Astrology's Negative. It can, but does it? I made this association and played with it for some years, however with further 'education' and experience, I have come to see that it may well not be so.

There is one last reference system I need to reintroduce to provide a basis for some of my later workings. It is a traditional reference system for the zodiac based upon the level 3—Modes and level 4—Elemental rulers of the constellations.

Level 3 - The Modes			
The Part of the Plant			
	Nerve Sense	Rhythmic	Metabolic
	Root	Leaf	Flower \Fruit
	Fixed	Mutable	Cardinal
The Type of Plant			
Fire- Seed	Leo	Sagittarius	Aries
Air - Flower	Aquarius	Gemini	Libra
Water-Leaf	Scorpio	Pisces	Cancer
Earth-Root	Taurus	Virgo	Capricorn

Level 4 - The Elements

This is the diagram I used in "Which Constellation" for the identification of the constellations, to use when desiring to focus on a particular plant function, for spraying planting and weeding. When the biodynamic references of these parts are added, one can be very specific with the 'type' and 'part' of the plant one wishes to focus on. Maria Thun identified the elements relationship to plant areas eg Earth constellations to roots and so on, but did not differentiate between the various Earth constellations. This chart provides that answer.

The Constellations and Animal Kingdom

This subject was addressed very well by a short and concise booklet by Dr Eugene Kolisko called "The Twelve Groups of Animals". In this booklet he explained in detail an indication that Dr Steiner gave into these relationships. In summary they can be shown as follows.

INVERTEBRATES

Protozoa	Single celled	Cancer
CoelenterataHydra	polyps and medusae	Gemini
Echinodermata	Starfish and sea urchins	Taurus
Tunicata	Sea Squirts and salpae	Aries
Mollusca	Shellfish and snails	Pisces
Vermes	Worms - segmented bodies	Aquarius
Arthropoda	Insects, spiders, crabs	Capricorn

VERTEBRATES

Pisces	Fish	Sagittarius
Amphibia	Frogs	Scorpio
Reptilia	Snakes, lizards	Libra
Birds	Song, prey and running	Virgo
Mammalia	Ruminants, Prey, Rodents	Leo

Initially the animal world can be divided into Invertebrates - soft bodied with no skeleton- and the vertebrates - beings that have a true skeleton. This division suggests that the invertebrates relate to the Moon and the Vertebrates relate to the Sun polarity. As a synopsis to this large and intricate study, E. Kolisko offers a wonderful overview in which he outlines the major function of each phylum and its relationship to the whole. He suggests that there are three steps along the path of development that lead to the human. In each step the same process occurs at a higher level. Within each of the steps, there are four stages.

Step 1

Protozoa -	The cellular system is developed
Coelenterata -	The digestive system is developed
Echinodermata -	The rhythmic system is developed
Tunicata -	A harmony of all the organs occurs however still at an embryonic stage.

Step 2

Mollusca -	The reproductive system dominates
Vermes -	Digestion process are the dominate process
Insecta -	Respiration is the dominant feature
Pisces -	The blood circulation is developed. Early stages of the heart exist and the harmony of all the organs is at a higher stage

Step 3

Amphibia -	The reproductive system again is highly developed
Reptilia -	The digestive process are again emphasised
Aves (Birds) -	The respiratory system is further developed
Mammalia -	Animals that have a true heart, warm blood.

This outline suggests that the same process takes place at different levels. So in the Coelenterata (polyp), Vermes (worm) and Reptiles (snake), the development of the digestion occurs at different phases of development. Often within each phyla there are subgroups that also emphasis the one sided development of each particular physical system.

The Earth signs:

Taurus -	Echinodermata, Starfish	Rhythmic
Capricorn -	Arthropoda , Insects	Respiration
Virgo -	Aves, Birds	Respiration

The Water signs:

Cancer -	Protozoa, One cell	Cellular system
Pisces -	Mollusca, Shellfish	Reproductive
Scorpio -	Amphibia, Frogs	Reproductive

The Air signs:

Gemini -	Coelenterata . Polyps	Digestion
Aquarius -	Vermes, Worms	Digestion
Libra -	Reptiles , Snakes	Digestion

The Fire Signs:

Aries -	Tunicata, Salpae	Harmony of organs
Sagittarius -	Pisces, Fish	Harmony of organs & blood
Leo -	Mammals , Ruminants	True heart and blood.

The above diagram indicates the correspondences of the systems to the elements indicating that the system development is archetypally related by element. The reasoning and phenomena, leading Kolisko to present this correlation, is well worth examining.

The Constellations and Chemistry

Leo	Hydrogen
Cancer	Phosphorus
Gemini	Sulphur
Taurus	Nitrogen
Aries	Silica
Pisces	Chlorine
Aquarius	Oxygen
Capricorn	Aluminium
Sagittarius	Magnesia
Scorpio	Carbon
Libra	Calcium
Virgo	Sodium

Dr Hauschka made the following associations of the constellations formative activity to the main chemical elements in his book “ The Nature of Substance”.

Please note this is a backward moving zodiac starting with Leo. Kolisko’s is backward moving and beginning with Cancer. Throughout Steiner’s work he uses various zodiac beginnings for varying applications.

Planets and Life Forces in the Compost Preparations

by Dave Robison

Based on Dr. B. C. J. Lievegoed, "The Working of the Planets and the Life Processes in Man and Earth", presented 1951.

Review Of Basic Concepts

Organisms manifest in a threefold way; for the plant, the root, leaf, and flower correspond to the head, chest and limbs in animals. Etheric forces demonstrate four types, corresponding to the four states of matter. The Life Ether is active in the root (or head), the Warmth Ether in the flower and seed (or limbs) while Light and Chemical Ethers are active in the leaves (or chest). An organism does not come into being merely through etheric processes, but only where the astral principle presses its seal. The archetype induces the threefoldness based upon an opposing polarity with a middle rhythmically linking the poles. Non-living things may have polarity, such as a magnet, but they lack the threefold organization.

The astral principle is carried as a moving, dynamic activity based on a sevenfold archetypal pattern. These seven working principles influence the formation of specific organs in the animal, from which their influence permeates the whole creature. Spiritual working principles are archetypically arranged by twelve principles that reveal themselves in the zodiac. These principles are responsible for the specific individuality (Ego), that which makes a plant be a rose and not, say, sage. The seed is the carrier, or point of attachment, for the spiritual forces that define the species.

The seed only unfolds when surrounded by the physical, etheric and astral elements in such a way that these forces can all stream freely into one another. This is what fertile soil provides. Think of a super-saturated salt solution; just a small crystal is enough to induce the whole solution to crystallize. Similarly, a truly fertile soil "longs" to be a plant and is just waiting for the contact of a seed to give it an archetypal "instruction set". It's our job to make the "pre-plant" condition.

We do that with compost. Compost is formed from decaying plant and animal substance, so it still has something of their physical, etheric and astral forces. But these forces are dispersing and the spiritual forces have already withdrawn. We try to capture the dispersing forces and bring them into cooperation once again so that new spiritual archetypes can be received. The remnants of the old organs (leaves, etc) are to be destroyed but their etheric and astral principles are to remain united in the compost. Imagine a caterpillar in its cocoon; it must go through a period of chaos before the new body of a butterfly can form. Likewise the compost goes through chaotization, in order to be at the disposal of the seed. But there is an essential difference - in the animal, astral forces work from within, concentrated in the organs. While in the plant, astral works from outside, streaming through the plant. To conduct the chaotising harmoniously, we implant something like planetary organs in the compost pile.

We do this by inserting the biodynamic preparations. Six of the preparations represent specific planetary forces. The seventh is the balancing force of the sun, represented by the horn manure/horn clay preparations. The farmer should be conscious of these underlying processes and not just operating mechanically or

The purpose of this essay is to explore the relationship between the planetary processes, described by Lievegoed, and their relationship to the signs / constellations of the zodiac. I would like to thank Dave for his permission to use his book review as the reference basis for my essay. I greatly appreciate the way he has translated Lievegoed's original text into a form that makes sense far more quickly than the original form.

This first section is outlining the inner workings of the layers of the Biodynamic Vortex, presented in the introduction.

In Lievegoed's document we are presented with two different aspects of the planets. Lievegoed, and Goethe before him, describe their activity as a primary / incarnating and secondary / exarnating processes.

When we look at the twelve fold processes of the zodiac we naturally have to consider the role of the planets that rule them. Each planet traditionally rules two constellations, except the Sun and Moon, which rule one each. It should be noted that the Sun and Moon, found at level two, are traditionally seen as being polarities of each other, and so can be seen as the two sides of the same coin, thus making them similar to the other planets with their two sided nature.

This dual planetary rulership of the constellations suggests there could and should be a relationship between the planetary processes and the constellations. The question is which planetary process relates to which constellation? If this relationship can be established, it may be possible to direct the functioning of the preparations, Lievegoed associates with the processes, more specifically. By making and applying a specific preparation on a specific constellation, it should emphasize that planetary process in plants it is applied to.

dogmatically. The place to learn about such physiological processes is from the doctor. In fact, the farmer can learn much by considering how the physician treats the human body. And the doctor can enrich his knowledge from the observations of biodynamics.

The reader should be familiar with the sequence of the planets. Their "nearness" to earth is based on which planets can eclipse or come in front of other planets.

Notice that the sequence can be resolved into three opposing polarities shown by the arrows, with the sun as the harmonizing middle.

First polarity: Saturn - Moon, Sun as middle

Second polarity: Jupiter - Mercury, Sun as middle

Third polarity: Mars - Venus, with Sun as middle

Saturn -- Moon

Saturn is the most distant planet, just as the Moon is the closest. Saturn is like a gateway toward the spiritually active stars. The Moon leads to the ether spheres that are close to the Earth, where the Spirit wants to impress its seal into the world of substance. Thus, Saturn/Moon bestow the direction and strength for beings to incarnate. It is important during embryonic development and for the first thirty years of a person's life. In man, the Saturn process enters the hair vortex at the back of the head and radiates into the body, making Man into a picture of his individual Ego. This process terminates in the skeleton, where it becomes a lifeless image of the Ego. If Saturn were to work by itself, in thirty years man's body would have calcified and turned into a stalactite!

Saturn works as a differentiating force within warmth, the most spiritual ether. Where Saturn rarefies warmth, crystallized substance (bone) comes into place. Where it densifies, warmth's carrier blood (bone marrow) is formed. Blood cells are formed in the center of the physical, almost lifeless skeleton. After about three weeks, blood cells are absorbed by the spleen. So the spleen is the consummation of the Saturn process.

We can see two Saturn processes:

1. Incarnating: leading to a hard, lifeless image in physical space.
2. Resurrecting: the Ego, in the form of the blood, permits karma to play out over time.

Saturn is both death and resurrection. The image of the Ego occurs twice, once as the physical in the skeleton, and once, through the blood, as the being living in time. Lievegoed summarizes these two processes with symbols, ^ or v. Saturn leads the spiritual to the physical world, but in so doing, it brings dead rigidity. But Saturn leads the spiritual out of the physical in the course of one fulfilling one's life (karma), a form of resurrection. In the plant world, we usually meet with only the first process. As Saturn influence is

I have shown in my other works that where information is found to order itself according to the archetypal patterns of the Biodynamic Vortex, then that information can be cross referenced with other information on that patterning, and thus further cross references can be established. The more information that can be laid upon each other the more intense an action can become and in this case hopefully, the more powerful the functioning of the biodynamic preparations, can be.

Lievegoed's text provides some very good hints as to what these relationships might be.

Saturn

The two constellations ruled by Saturn are Aquarius and Capricorn. Aquarius character is defined by it being 'Fixed Air', thus its natives have strong opinions and are often philosophers and social renewal activators. Capricorn is defined as 'Cardinal Earth' and its natives are the corporate entrepreneur who build empires through sheer hard work and determination.

In this first paragraph we see Saturn as the spiritual archetype. The seed thought by which all else can form around. This can be easily associated with the image of Aquarius. Its Fixed Air nature provides an image of a strongly held thought. An ideal that manifestation forms around.

This primary Saturn process works right into the formation of the skeleton and if not checked would turn us into stalactites. Once Aquarius fixes on an idea they are not known for letting go or willingly adapting that vision. They are right and often end up 'grumpy old men' when their perfect ideal is unable to adapt to the needs of the time and thus fails to gain support of the community they crave.

The skeleton is often related to Capricorn, due to their focus on physical structure, however in this case Capricorn's ability to build appropriate forms up over a long period of time, links it more closely to the secondary function of Saturn. The Cardinal aspect of Capricorn, provides the adaptability to life, inherent in the secondary function. This is the sign of the individual appearing to live out their karma, through their commitment to their task, regardless of many other aspects of their lives. They are driven individuals with a purpose. Clawing their way to the top of their mountain.

In this last paragraph we have an image of the preparation Valerian and the telling statement that we see it enacting the first / primary process of Saturn most. However when sprayed on plants Valerian encourages them to flower and seed more profusely.

coming in from the far outside, it can be effective only where working comprehensively from all sides, not in working from a center. Saturn is active in the Valerian preparation, which envelops the whole outside of the compost pile. Such compost bestows full expression of the seed's species.

Now consider the Moon - it stands opposite to Saturn and manifests continuity of qualities through a sequence of generations. Moon processes are active in propagation and heredity, in the sense of cellular reproduction. In this case, we observe cell rising from cell, linked in steady growth. The Moon is associated with recurring repetition of the same. She is concerned with the sequence of generations streaming horizontally across the Earth and continuing over time. Moon forces are active in swelling growth, in cell division and in propagation. If Moon forces alone were active in Man, he would become a soft sphere of albumen and would grow forever. But the Moon finds a limit in the skin; it is not effective outside the boundary.

Moon forces enter in front, in the region of the bladder, radiate into the reproductive organs and eventually permeate the whole organism as far as the skin. While Saturn is the bearer of individuality to the skeleton, Moon is the bearer of the type and becomes evident in the skin. Humans with strong Moon forces have beautiful skin (note how we associate the beautiful skin of movie stars with a strong sexual attraction.) The skin as "Moon skeleton" gives an image of Man's heredity.

Moon processes are also differentiated. During embryonic development, the nervous system forms out of an invaginated strip of skin, placed within like a little island. This "inner skin" becomes the bearer of a second process -- that of the external world reflected through the nerve/sense system until it reaches the human's consciousness. Thus, the brain becomes where the Moon forces come to a rest. Physiologically, the force now holds back mere cell division and the brain tissue becomes the most differentiated in the body. Such tissue also suffers the most loss of connection with etheric life forces. Ironically, in giving us the ability of creative thought, the brain tissue becomes the least "alive", the least able to heal itself or reproduce. This end result of differentiation is called intensification.

So the Moon also shows two aspects:

1. Growth promotion: streaming in time, eternal repetition of the same type.
2. Repressing life: mirror-like reflection, life-forces bounce away, but the image of the outer world is preserved. (Note how the Moon shines by reflecting the Sun's light and that silver is used to make a mirror.

In the plant world, we see Moon effects in cell growth. Calcium acts with the watery element as mediator of this growth. The Oak Bark preparation, containing high calcium, is prepared in the animal skull (as if a brain) and held under water. Steiner said this preparation would counteract plant diseases by suppressing an overly rampant etheric element. One could also say, by setting a limit (a skin) to the Moon forces.

As we look as these processes weaving into one another, we see Saturn as the

Moon

When it comes to the Moon the constellational references are somewhat easier to find. The primary processes of the Moon are described as endless cell division that would go on forever. In Eugene Koliskos booklet on the "The Twelve Groups of Animals" he described Cancer as ruling the Protozoa. This is the 'original family' of single celled life forms from which all else developed. Cancer is traditionally ruled by the Moon and is considered the constellation of the nurturing mother, through to the tribe, that supports the families survival, and thus it is the basis of life and its development. It is therefore not difficult to find Cancer as the constellation of the Primary Moon forces.

The secondary process is not as clear an association, however we could allot Leo to Moon 2, due to the clear association of Cancer to Moon 1, and therefore Leo has to be Moon 2.

However in the secondary process the endless process of undifferentiated cell division is 'matured' and directed into forming specific tissue. It reaches its extreme in the brain. So extreme, and complete, that the etheric forces the moon so strongly carries, are nearly completely consumed to the point that nerve cells do not readily regenerate.

The brain reaches its pinnacle of evolution in the mammals. Kolisko identifies Leo as the ruling constellation of the mammals. Leos 'lower' qualities, as imaged in the tropical, Aries > Pisces zodiac, are reflected in its rulership of the fifth house, the house of creativity and artistic endeavor. Art can be said to be, an attempt to reflect an image of something, that can not be said in any other way. It is a non verbal "reflection of an image of the outer world

image of the Ego individuality, placed in space but becoming another opportunity in time. Meanwhile Moon places into the stream of time a sort of type-heredity that is not individualized. The human overcomes the sequence of generations by repressing blind growth and, in reflecting the external world, the mind awakens.

Jupiter - Mercury

Jupiter is the moulder of the world. While Saturn creates a bare image in the skeleton, Jupiter moulds the rest of the body around the skeleton in fullness and flowing beauty. Jupiter works down from above, rounding and recreating the celestial sphere in rounded (plastic) forms. All the internal organs are rounded, sometimes with hollows where another organ's roundness presses in. Jupiter forces radiated from the rounded brow, moulding the brain, and later the thoughts, especially those concerned with bringing order and universal connections. From there, these forces work deeply into the body, forming organs and muscles. At the same time, Jupiter strives for super-human gestures. If Jupiter worked all alone, at about fourteen years old, we would all be like beautiful Greek statues, with soulful bearing and gesture but completely rigid.

From this rigidity, the Ego individuality frees itself in movement and gesture. The alternating play of muscles contracting is deeply connected with the liver. Muscle movement is due to chemical changes in the tissue, but these chemicals must be controlled and balanced by the liver. This organ is the most fluid and life-filled, that is, it is the organ least permeated by Jupiter processes so that it can have the role of controlling those forces.

In the plant world, we see Jupiter forces creating the rounded moulded forms and secondarily in chemical changes, where Jupiter and Mercury work together in the flowing sap. Jupiter is represented by the Dandelion preparation. Moulding forces are handed into the plant through silica, the mineral associated with forces from beyond the Sun. Rudolf Steiner described dandelion as the mediator between the cosmic silica forces and those surrounding the plant, bringing health and stability.

While Jupiter gives harmony and order, **Mercury brings chaos, but one we might call "sensitive chaos". This is movement without any particular direction, but ready to flow into anything, adapting to any resistance by flowing around, always in movement.** One has only to think of liquid quicksilver

preserved." Thus fitting the image of the Moon's secondary process.

Jupiter

With Jupiter we have two principles identified., which can be summarised as 1) Plastic forces which mould around the Saturnian 1 archetypes, and 2) the Pharmacology of living forms.

The two constellations ruled by Jupiter are the Water / Mutable Pisces, and the Fire / Mutable Sagittarius.

Pisces, the mutable watery constellation, is seen as the constellation that easily moulds and adapts around the rules of the game, to find the most appropriate solution to a circumstance. Its reality and response continually changes according to its environment it is in. Due to its relationship with Neptune it is considered the chameleon or shape changer of the zodiac.

Sagittarius, with its fiery concern for universal truth, that associates it often with the image of the alchemist, suggests it is the principle with the energy to fuel the warmth processes necessary for "Pharmacology" to occur.

In this regard there is an interesting set of correspondences worth considering. In lecture 12 of Spiritual Science and Medicine, pg 164 and 165, (<http://wn.rsarchive.org/Lectures/19200401p01.html>) Dr Steiner says ' In pursuance of these phenomena, we find we must study on the whole these two polarities throughout the organism, these radiations and that which opposes them and dams them up. There is need to keep this distinction in mind, for all that tends to form albumen, in the manner described above, is associated with the damming up action, and all of a metallic nature introduced into our bodies, has to do with the radiating forces.' and a little later " We must attribute much of the result achieved to two substances, which receive far too little attention in their effects within the human organism: these are fluorine and magnesium. In the — so to speak — rarefied form in which they occur within us, both fluorine and magnesium play prominent parts, especially in the process of shape formation in the child, up to the change of teeth. The forming and fitting of the solid framework in the human organism takes place through continuous interaction between the forces of magnesium and fluorine respectively; in this interplay, **the forces of fluorine act plastically, mould as a sculptor moulds, fill out contours** and bar the way to the forces of radiation, whilst magnesium acts as a radiating force and constitutes the fibers of tissue, etc., into and along which the substance arranges itself. It is not a senseless phrase, but wholly in accord with the course of nature to say that a tooth is formed thus: It is shaped, as far as its circumference and its cement is concerned, by the activity of the plastic artist "fluorine," and magnesium pours into it the forces which have to be shaped to a plastic form."

These paragraphs highlight a basic principle we meet throughout our study of Biodynamic Chemistry. That being an active polarity between radiation and conclusion or as RS says 'damming up'. In this context RS is talking of the teeth and the halogen, Fluorine and metal, Magnesium. This is but one

for an image. Whatever kind of movement happens, it is in response to outer circumstances. In the human body, this type of streaming movement is represented by the lymphatic system. The blood vessels may be fixed but lymphatic streams can move as they chose, as long as they reach the lymph glands. While Jupiter is harmonious symmetry, Mercury has a tendency to asymmetry. If a feature is oblique or crooked in the human face, that is Mercury confounding Jupiter's intentions. Mercury has a sense of humour and is pleased if divine intentions don't quite come off. Thus, the gods never finish their work because a state of flux remains. If Jupiter is the king sitting on his throne, at his feet is Mercury as the court jester. Mercury tolerates all conditions, heat and cold, sun and shade, but wants life to go on. In extreme cases, Mercury becomes dishonest and even leads the plant into parasitism. Mercury was the god of merchants and thieves, making sure that earthly goods do not remain in one place but are constantly changing hands.

This faculty for adaptation would lead to loss of character; Ego avoids this by diverting movement with more movement. We see when two streams meet, they form whirlpools and empty spaces. **This is Mercury's second principle - creating a responsive "newness" by combining movements. The organs taking shape from dynamic movement become different from the archetypical images being projected to Earth.** In the plant world, we see these two principles. A beech leaf is completely different from an oak leaf - variability is a Mercury expression. Merging forces are healing, but true healing requires not only that forces merge but also that something new results from the merger. Mercury is active in the Chamomile preparation. This preparation stimulates plant growth through potassium and calcium and has been intensified by the intestine.

Jupiter and Mercury weave into each other; **the preordained form of the organs meets Mercury and is changed according**

example of the principle seen continually through life processes. We can broaden these images though and see that all Halogens have this damming up effect, while all metals have the radiating effect. We will see later in my exploration of the Cell Salts, how this same polarity, between radiation and conclusion, can be found within the Anions. So it is not correct to draw this assumption to be simply a action / anion analogy.

What I wish to establish with this quote is, that the plastic forming process Lievegoed describes, are a Jupiter process which RS clarifies as a Halogen process.

Within the context of Jupiter's rulership, it is worthwhile further referencing Dr Hauschka in his 'Nature of Substance', where he talks of the Halogens. He talks of the polarity between the Halogens (F, Cl) and the Alkalis (Na, K). The alkalis he identifies as, forming closed sheaths and colloids which work as upbuilding forces, that sustain and promote life processes. While acids and the Halogens in particular, are "dry, contractive and hostile to growth", they 'breakdown, burn and dissolve', 'they press towards decisive action; they either curdle colloids or reduce them to a true solution'. "Hydrofluoric acid can melt the end of a glass rod" just as the jagged teeth are rounded off by enamel as they emerge". He goes on to use an example of an illness where body parts are not 'rounded off' or concluded, eg fingers, nose chin, toes, and that this is due to a weak halogen process. He goes on further to say the ancients saw these processes proceeding from the constellation of Pisces. " Just as Virgo symbolises the selfless offering of an enclosed sheath within which life develops, Pisces pictures an active coming to grips with the world and destiny.

Furthering the example of the teeth, Hauschka relates Magnesium to Sagittarius. Of Magnesium, Hauschka summaries its dual action, as a hardening agent that compresses life into solid earthly form and on the other side, it activates light forces. In this sense we see an image of the secondary Jupiter process. Mg works as the light bringer, that fuels the chemical reactions that fuel plant growth in the leaf region, and plant growth in general. In humans, Mg allows forces that previously served organic functions, to be set free in the form of a capacity to think and remember. An activity that can easily be associated with Sagittarius, as the philosopher, teacher explorer.

The Jupiter organ, the liver, also has two distinct processes it performs. It selflessly cleanses the blood and it metabolises all manner of substances for the bodies chemistry to function correctly. In this dual activity we again see a selfless process and a (al)chemically upbuilding process. The selfless process, being associated with the 'humanitarian' Pisces, and the alchemical process being associated with Sagittarius.

Mercury

The two processes of Mercury are characterised as the primary process being **"Mercury brings chaos, but one we might call "sensitive chaos". This is movement without any particular direction, but ready to flow into anything, adapting to any resistance by flowing around, always in movement."**

While the secondary process is **" creating a responsive "newness" by combining movements. The organs taking shape from dynamic movement become different from the archetypical images being projected to Earth.**

The two zodiacal constellations we have to consider are

to the circumstances. **The chemical expansion and contraction of Jupiter give direction to the streaming movement of substance through Mercury.** Jupiter comes to rest in muscle, then the activity changes to chemical and the resulting muscle movement overcomes what would otherwise be rigidity. Muscle movement sucks at the liver. (That is, the muscles fetch substances from the liver rather than the liver sending to the muscles.) Mercury streams in an irregular way through the lymph vessels and rests in the lymph glands, where the fluid stream leaves the body. The one exception is the lung, which as an empty hollow lacks the fluid streams present throughout the rest of the body. Thus, the liver and lung are the consummation of Jupiter and Mercury respectively.

Mars - Venus

Mars, the last of the outer planets, **carries purposeful movement that is directed towards a goal. Mars-force is the process by which the archetype penetrates into the physical sphere but also that which pushes it out again into the world.** Mars is at work as the growing point of a plant pushes out and conquers space. Mars brings an inner activity of determination and direction - without Mars, no plant would exist. Mars forces work in the shooting and sprouting of spring growth - as an athlete throws his javelin.

Gemini and Virgo.

Gemini is considered a 'youthful' sign that constantly moves between its two twins. Psychologically, this is generally experienced as an extrovert, outer social, and inner introverted duality of personality. Being the Air / Mutable sign, it is characterised as being constantly moving and is the zodiacal 'butterfly', that knows a little about a lot, but not known for its depth or lasting achievements. Hence it is easy to associate the Mercury 1 process to Gemini.

Hauschka associates Sulphur to Gemini. Sulphur acts as a catalyst in the interactions of the 'big four' elements of protein, H, N, O & C. It is the 'oil' that allows the spiritual bodies, these elements carry, to interact with each other. In "Curative Education" RS talks of this role and how when it is insufficient, it leads to a 'sticking' of the bodies, which manifests as autism. Where there is too much S, it leads to a 'slippery' relationship between the bodies, resulting in hysteria. Sulphur is therefore the element of movement. In its multitude of relationships, it is THE prime unquestioning facilitator, of biochemistry.

Virgo on the other hand is Mutable / Earth and the sign of the craftsman. In Greek myth Virgo is associated with Hyphastis or the roman Vulcan, who acted as the maker of all manifest things. Anything the gods used, including the humans, was made by Vulcan.

Lievegoed's comment "We see when two streams meet, they form whirlpools and empty spaces" is very indicative. Whirlpools, are vortexes, which act as the basis for the organisation of forces and matter, within creation. In the middle, we find the 'empty space', manifesting as a vacuum. RS has commented that if one was to view matter from the spirit sphere, one sees only a black hollow vacuum, where the object stands. As, from the spirit view, one sees the organised spiritual activity, that holds the vacuum in place. Matter is sucked into a vacuum, and so once the spiritual forces are organised, manifestation must take place. In my chapters on the planets, (http://www.garudabd.org/books/4_10.html) I outline a 12 fold planetary pattern, that places Vulcan with Virgo as the 11th planet. A planet that governs direct manifestation of matter from spiritual imagination.

Hauschka's association for Virgo is the Alkalis. He describes the alkalis, (Na, K) as creating membranes and colloids, within which life processes can be sustained. Virgo symbolises the selfless offering of an enclosed sheath within which life develops ". This supports the image of Vulcan as the creator of life as needed at the time, and Mercury 2 being ruled by Virgo.

Mars

The two constellations associated with Mars are The Cardinal, Fire Aries and Fixed, Water Scorpio.

The two processes of Mars are described as **1) carries purposeful movement that is directed towards a goal. Mars-force is the process by which the archetype penetrates into the physical sphere but also that which pushes it out again into the world. Mars is at work as the growing point of a plant pushes out and conquers space.**

The Mars type of human is outwardly active all the time but finds himself unable to preserve what he has created because he can't stand to finish anything. Rather than care and cultivate, the Mars type destroys and builds anew.

This last paragraph, could have come straight from an Astrology book, as the description of the Aries individual. Aries the ram, is renowned for rushing in head first, and thinking about the outcome later. There is always some loss somewhere, with Aries. Sadly it is often others, and not the Aries that experience that loss.

Hauschka has allocated Silica to Aries. He adds "the silica process shapes life out of the cosmos as a sculptors hands shape clay" " Macrocosmic ideas underlying outer forms of life." "The Sun which is the mediator of these forces transits the constellation of the Ram in April, just that time of year when nature rises to bring forward a wealth of new forms. The seasons

Mars forces enter Man between the shoulder blades and penetrate into the iron processes of the blood. They also radiate into the speech centers; Mars is formed in the words streaming from the human mouth. The Mars type of human is outwardly active all the time but finds himself unable to preserve what he has created because he can't stand to finish anything. Rather than care and cultivate, the Mars type destroys and builds anew. He has a strong creative urge but, if blocked, becomes consumed with wrath.

Mars does not yield to soft measures, so if the Ego is to resist being carried away, it must summon strong resistance. **Such opposition creates a damming up of the direction but surprisingly, this transforms into sound.** Think of the string on a musical instrument. Force and resistance interact as tautness - and the string forms a musical tone. If we take a metal plate, cover with fine sand and strike a tone, we observe the sand particles form "sound figures" indicative of the particular tone. On Earth, substances come into existence according to Tone Ether forms. Cosmic music starts from Mars and is passed on to the Earth through the Chemical or Tone Ether. In the human or animal body, **Mars orders and forms the substances working from the astral body through the organs. In the plant, there is no astral body and Mars works from the cosmic sphere.**

Iron forces are active in blood haemoglobin and end in the liver where the haemoglobin molecule is dissociated into gall. Iron is held back within the body. **Out of this holding back are born albumen-forming forces like "sound figures".** The process of building protein in the liver is one of arranging the chemicals like sound figures. Mars is manifested in the Nettle preparation, which harmonizes forces in the soil, bringing true nutritive value to the plant. This is connected with a health protein-building process and also the formation of starch, because each starch granule is surrounded with a protein sheath.

While Mars is out there, Venus is goes deep and stays hidden. **Venus is connected with deeper nutrition (at the cell level) and the deepest building process of the organism where inanimate substance is first received into the life stream.** Venus is connected with clearing space for something else to unfold. Think of the home belonging to a

when nature rises to bring forth a wealth of new forms." "The world of appearances selflessly receives the imprint of archetypal patterns from creative heights in the symbol of the backward looking Ram".

In these references we can see the 'pushing into space' image of the Mars 1 process.

The secondary Mars process is described as- **Such opposition creates a damming up of the direction but surprisingly, this transforms into sound.**

Mars orders and forms the substances working from the astral body through the organs. In the plant, there is no astral body and Mars works from the cosmic sphere.

Out of this holding back are born albumen-forming forces like "sound figures".

The secondary Mars process is concerned with the building up of protein. This is a transformative process of lifting of carbohydrates, through its interaction with nitrogen and the astral body, into a new substance protein.

While proteins, can be found in plants, it is more characteristic of the animal kingdom. So this secondary Mars process is the transformative process that lifts the plant kingdom into the animal kingdom. The legume and Solanace families are the two most common plant families which concentrate nitrogen alkaloids. The legumes form protein while the Solanace produce nitrogen poisons.

Scorpio through its association with the phoenix image, is classically considered the sign of transmutation of elements. Its rulership of the eighth house, makes this the house of emotional and sexual alchemy. This is place where, after the partnership is formed in Libra, the mutual attributes and resources of both partners, are fused together to provide the combined base for the future outcome. It is the house where individuals meet the spiritual influences of creation, albeit still unconsciously, and are transformed by them. This leads to more formal education, in Sagittarius's ninth house, to bring consciousness into the deep life changing experience, had in the eight house journey. This is the first stage of the spiritual journey which can unfold through the rest of the zodiacal houses. This is where the astral body enters to fertilise the occult union two individuals which results in procreation, in all its forms.

Hauschka has Carbon as the chemical element of Scorpio, but notes Carbon has a very special relationship with Iron, the metal of Mars, and that through their combination both are transformed. Carbon changes iron into steel and iron changes carbon into diamonds. It is this transformative ability of Carbon to be the most basic framework of all life, yet it reaches such sublime heights in the diamond, that he sees it emphasises the motif

quite and attentive host. In this home, people can meet and have a productive exchange of ideas precisely because the quiet host has arranged the conducive environment. As Mars is associated with speaking, so Venus is associated with listening. Goethe called conversation more precious than light because of this harmony between partners.

To become Venus completely would mean to renounce the self; the Ego could no longer exist. Ego overcomes this by "sucking away" or excreting products of the life forces, through the kidney-bladder system. From these organs, the sucking power of excretion reaches into all the living cells. The Venus process comes to an end in the kidney. Here ether force and substance are separated, the substance is excreted and the ether forces radiate upwards into the eye, combining the act of seeing with the force of going out into the world. Mars and Venus have a strong cooperation. Protein, formed through Mars, nourishes the cells along the Venus path. The ether forces freed by the kidney unite with the determinations and direction of Mars in the eye's force of vision.

Think of the violin. The determined movement of the bow is halted by the stable string and tone results. The resonance of the instrument creates the opening for the tone to develop and individuality adds musical quality to the tone. In the plant world, we can see the force of the growing point, directed outwards, is surrounded and filled by nourishing Venus force. Both are needed for growth. Building up and excreting cooperate closely; the dammed force of the growing shoot makes protein formation, while the force of excretion is in the bark and its deposits. Venus is manifest in the Yarrow preparation, which is prepared in the stag bladder, at the end of the kidney sucking process. Thus, the yarrow is strengthened in its

of the transformative Scorpio.

Venus

The two constellations we have to define here are the Fixed Earth, Taurus and the Cardinal Air, Libra. Taurus is the constellation in Greek myth associated with Demeter—the goddess of fertility and agriculture. Libra is associated with her daughter Persephone, whose claim to fame was being abducted by Hades and taken into his underworld domain, where she became his very willing partner.

Venus primary activity is described as **"Venus is connected with deeper nutrition (at the cell level) and the deepest building process of the organism where inanimate substance is first received into the life stream."**

Lievegoed, talks of Venus opening up the etheric body, so that the astral can be received. It is here we see the images of the gracious host making the place for a nurturing environment to be created. Demeter as the nurturing goddess of nature, which provides the environment for all life to take place, is the ideal image of this process. We only need to remember when Demeter's daughter, Persephone was taken from her, that she withdraw her life giving forces, and all life was threatened with extinction. Taurus folk are well known for their love of food and sensual pleasure, thus easily fitting Taurus with this image of nurture.

Hauschka's association for Taurus is Nitrogen and he associates nitrogen penchance for movement with Taurus. Given Taurus is a fixed Earth sign I do not see this relationship.

Venus secondary processes is **"To become Venus completely would mean to renounce the self; the Ego could no longer exist. Ego overcomes this by "sucking away" or excreting products of the life forces, through the kidney-bladder system."**

Venus, as the perfect hostess does not only provide the nurturing environment, she also cleans up afterwards. This is imaged in this part of the processes relationship to the kidneys. Libra is the traditional ruler of the kidneys. Any affliction to Libra in a birth chart generally shows up in a weakness of the kidney and urinary system.

Hauschka associates the activities of Calcium with Libra, mostly through seasonal references, which as a dweller of the southern hemisphere, I have some difficulty with. However the 'sucking action' of calcium can be seen to be synonymous with that of the kidneys.

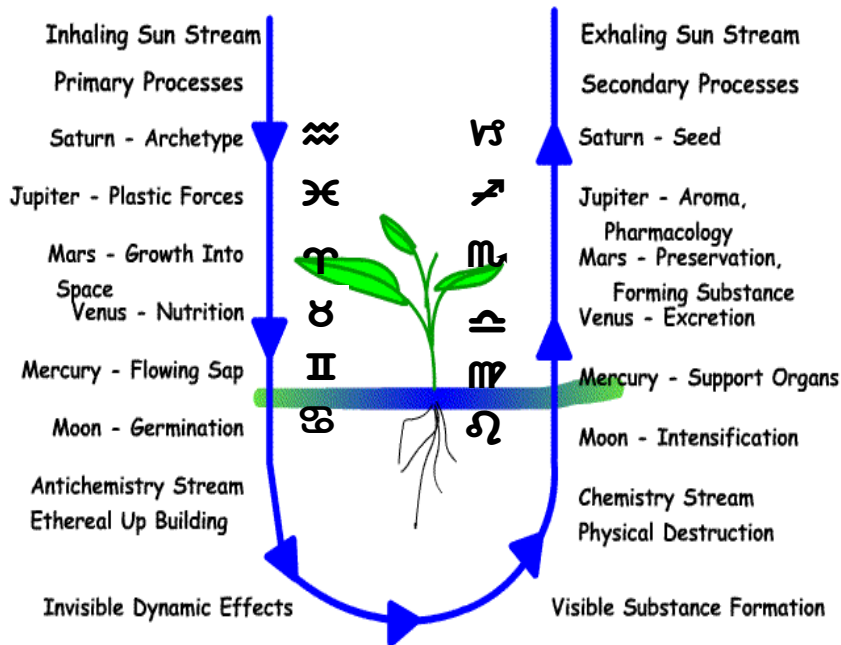
It is Dr Koenig in his book 'Earth and Man', Lecture 5 on "The Kidneys", where a clearer association can be found. He states (pg 123) "the kidneys keep, not only the blood, but the whole fluid of our organism in balance. If there is too much they excrete more, if there is too little they excrete less." "The second function of the kidneys is the one whereby all minerals within the body, if they are in excess, are excreted. Again it is an act of balance. Sodium, potassium and so on, are either excreted or sent back into the blood stream." "The third function ... The acids and alkalis within the body as well as the serum, are kept in equilibrium. If we eat too much protein, we excrete more acid substances; if we eat too many vegetables and become too alkaline, then we excrete more alkaline ions."

connection with Venus so it can receive cosmic substance to enliven the soil and balance exploitation. It is associated with potassium processes.

It is in this constant balancing act of the kidneys that we see the activity of Libra—the scales. Judgements are continually being made as to what to keep and what to excrete.

Thus we have the following diagram.

Primary and Secondary Planetary Processes



Hauschka Elements and the Zodiac

Following on from the considerations I have made with the zodiac and the planetary processes, it is relevant to include a diagram with the Hauschka chemical elements and the zodiac, as outlined in his "Nature of Substance". The references, added to his comments on the chemical activities, made during the previous discussion, proved useful in most cases and so a diagram outlining all the associations will provide easy access to these for future reference.

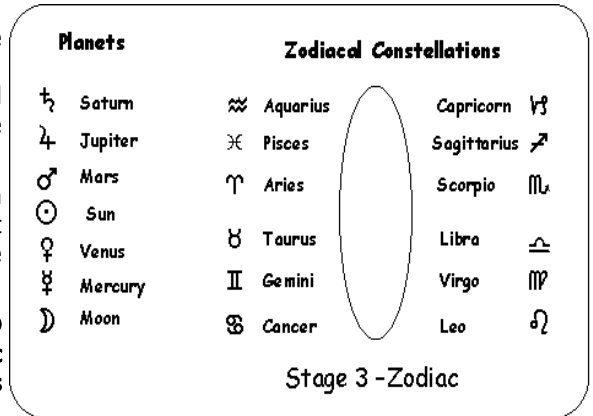
O	♊	♋1	♋2	♋	Al
Cl	♌	♌1	♌2	♌	Mg
Si	♍	♍1	♍2	♍	C
N	♎	♎1	♎2	♎	Ca
S	♏	♏1	♏2	♏	Na
P	♐	♐1	♐2	♐	H

Which Zodiac

In the introduction to this book I outlined how there are three patterns of organisation for the Zodiac. These arise when determining the process of moving, from the archetypal zodiac of the Biodynamic Vortex, to the manifest zodiac we have in the sky.

From the associations I have made to Lievegoed's description of the plant growth processes, it is clear that the manifest zodiac is the appropriate zodiac to use when working with the growth processes.

This suggests that as a basis for experimentation, the BD preparations could be applied in a particular zodiac constellations, so that the particular planetary activity and its corresponding plant growth process, can be enhanced.



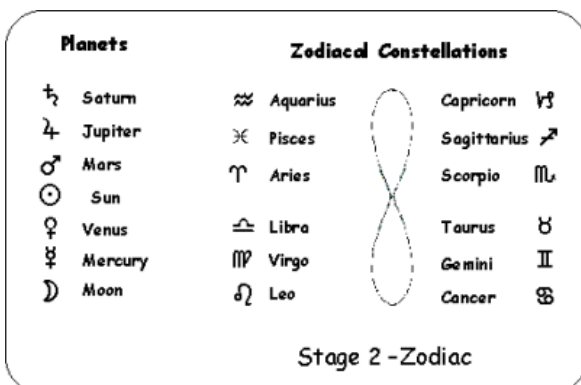
The Growth Processes and the Agriculture Course

In the agriculture course we are provided with a patterning for how the planets relate to the Cosmic and Earthly level of growth activity. Initially in the course we are easily lead to believe that the Cosmic and Earthly processes are just a two fold process but by the sixth lecture we are challenged to see that this two fold process is actually a fourfold process. This is further confirmed in the eighth lecture when RS describes animal nutrition. The four growth processes RS describes are the Cosmic Forces and Substances, and the Earthly Forces and Substances. He outlines how the Cosmic activities are 'channeled' by the outer planets, while the Earthly activities are 'channeled' by the inner planets.

There is however a discrepancy between the picture we are given by Lievegoed and Goethe and that provided by RS in the agriculture course.

Based on Lievegoed we have the following diagram:

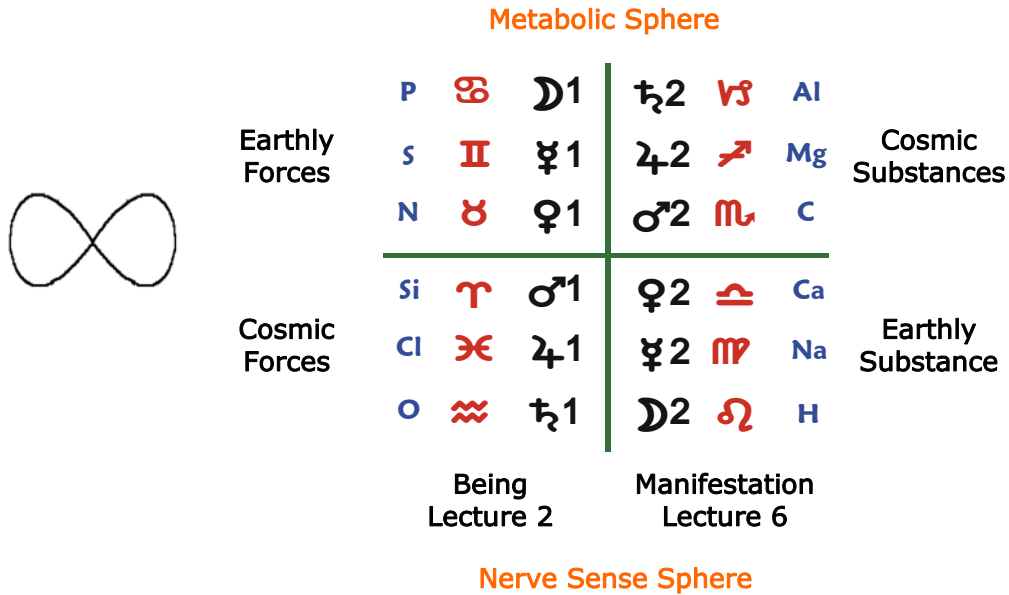
	Forces			Substances		
Cosmic	O	♈	♄1	♄2	♏	Al
	Cl	♉	♃1	♃2	♈	Mg
	Si	♈	♂1	♂2	♎	C
Earthly	N	♈	♀1	♀2	♎	Ca
	S	♈	♁1	♁2	♍	Na
	P	♈	☾1	☾2	♏	H
		Being			Manifestation	



If we are to align this picture with what RS provides in Agriculture, we have to take one more 'creative' step. In the introduction, I outlined the process the zodiac takes to get from the Astrological Vortex Zodiacal arrangement, through to the Manifest Zodiac. I showed that the second stage was a vertical lemniscate form. RS used this zodiacal ordering to describe the workings of the 12 senses in the human, and I have used it to described the workings of the 12 fold planets, and an associated path of spiritual processes. I have concluded from this that the lemniscate form of the zodiac, is a pattern that stands between the archetypal spiritual

sphere, and the manifest material sphere. It describes the soul (astral) sphere that stands just behind the manifest form and works to influence and organise manifest form, providing the 'formative' processes.

To harmonise Lievegoed with the Agriculture course, a lemniscate twist on the horizontal plane becomes evident. With this movement we are presented with the following diagram.



Another approach to Hauschka's elements

While reading Nature of Substance I was continually dismayed by RH's use of seasonal references for determining correspondences to the zodiac. Being from the southern hemisphere, where the seasons are the opposite to those of the northern hemisphere, I am drawn to ask, What about us? How do these elements relate to the seasons as they occur in the southern hemisphere?

Hauschka continually makes reference to ancient wisdom and uses a platonic reference to the elements I am not familiar with. His arguments are very convincing and there is a lot of finesse in his model. I was very impressed with the way so much of the last discussion fitted together with his indications. No doubt his associations are correct within certain spheres.

I would however like to present another set of zodiacal references for his elements. These are presented not to make Hauschka wrong but to provide a different view on the same information. It is as if Hauschka has made one conclusion that leads us up a certain road, yet if we go back one step and use one of his conclusions and take a different fork in the road, we will be lead down a different path, providing a different conclusion that can provide us a window into another dimensional reality.

The outcomes are not mutually exclusion, rather they are as if they are siblings, each being right in their own way, but having different applications in life.

Through his book RH has followed particular process. He has outlined three groups of four elements and related each set of elements to the organic sphere in which they predominate.

H,N,O,C are to be found in the Atmosphere, Na, Cl, Mg, S are found predominately within the oceans or hydrosphere, while Ca, Si, Al and P are found predominately in the Earth.

Each of these four elements in each group has been identified as carrying a particular relationship to one of the four elements Fire, Air, Water or Earth.

On page 156 of 'Nature of Substance' RH presents a diagram showing all these relationships. Now a student of Astrology will note that this patterning is exactly the same as the way in which the Zodiacal references are made with regards to the threefold modes and the fourfold

elements, however Hauschka does not use this pattern to make a zodiacal reference from. It would therefore seem reasonable to use this age old reference system of Astrology to establish a zodiacal pattern. Certainly as reasonable as using a seasonal based reference system based only on one hemispheres experience.

	CARDINAL	MUTABLE	FIXED	
	Atmosphere	Ocean	Earth	
FIRE	♈	♊	♏	
	H	S	P	
AIR	♎	♍	♑	ASTROLOGY
	N	Cl	Si	Hauschka
WATER	♉	♋	♒	
	O	Mg	Al	
EARTH	♌	♈	♉	
	C	Na	Ca	

In line with RS image of the Agricultural individuality, I have associated the Fixed activity with the Earth, and the Atmospheric activity with the Cardinal processes. Thus the Mutable is related to the Oceanic Cross.

Thus when the traditional zodiacal associations are applied we are provided with the above relationships.

At this stage it is enough to just put this here. Later we can see if it has any useful applications.

As a cross reference this is how Hauschka placed the elements

Leo	Hydrogen
Cancer	Phosphorus
Gemini	Sulphur
Taurus	Nitrogen
Aries	Silica
Pisces	Chlorine
Aquarius	Oxygen
Capricorn	Aluminium
Sagittarius	Magnesia
Scorpio	Carbon
Libra	Calcium
Virgo	Sodium

Prologue to the Planets and the Constellations

It is an interesting phenomena, that once one has traveled the long road to certainty on a subject, one can then look back and see, how easily one might have come to the same conclusion if one had taken another path. So it is with this subject.

One of the premises of “Biodynamics Decoded” , is that by finding commonality in information it should be possible to cross reference different information using their commonality, and truths will be revealed, quickly and simply.

In the case of this subject, I have been playing around with it for probably 25 years. There have been several questions that have all needed to be answered eg, Which level of the Zodiacs will Lievegoed's information relate to? How does Lievegoed's information, regarding the planetary ordering, relate to the ordering Dr Steiner uses in The Agriculture course?

From the last chapter, it can be seen that I have answered these questions with a high degree of certainty, mostly due to the journey I have traveled in these intervening years. However I can now look back and see how easy it could have been to make a very good ‘guess’ through a few simple cross references.

Kolisko gave us the enlarged interpretation of one of Dr Steiner’s indications about the animal kingdom and the constellations.

INVERTEBRATES

Protozoa	Single celled	Cancer
Coelenterata	Hydra polyps and medusae	Gemini
Echinodermata	Starfish and sea urchins	Taurus
Tunicata	Sea Squirts and salpae	Aries
Mollusca	Shellfish and snails	Pisces
Vermes	Worms - segmented bodies	Aquarius
Arthropoda	Insects, spiders, crabs	Capricorn

VERTEBRATES

Pisces	Fish	Sagittarius
Amphibia	Frogs	Scorpio
Reptilia	Snakes, lizards	Libra
Birds	Song, prey and running	Virgo
Mammalia	Ruminants, Prey, Rodents	Leo

Based on Lievegoed's description of the Moon 1 activity as undifferentiated cell division and Koliskos identification of this same process, being Cancer, it is possible to just join up the constellations as they appear in the sky, Lievegoed, Kolisko, and Hauschka and come up with same diagram, I achieved through my more in depth study. A 5 minute job instead of 25 years. Certainty is a nice thing though.

	Forces			Substances		
Cosmic	O	♊	♋1	♋2	♌	Al
	Cl	♍	♎1	♎2	♏	Mg
	Si	♐	♑1	♑2	♒	C
Earthly	N	♈	♀1	♀2	♉	Ca
	S	♊	♋1	♋2	♌	Na
	P	♍	♎1	♎2	♏	H
		Being		Manifestation		