

Glenological Chemistry

The Organisation of Matter

**The Periodic Table of Elements
as an expression of
the Atkinson Conjecture**

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2017**

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Preface

This is my thought journey, of finding the Organisation of Matter. It provides the steps of the story, following on from 'Biodynamics Decoded', through 'Biodynamic Chemistry' and into 'Alchemical Chemistry'.

I hope to present a story, providing the logical progression of universal truths, based upon the principle of As Above, So Below; from the Above universe to the Below of manifest life.

This journey has taken some 47 years, to come to this presentation. I first began to question my surroundings, around the age of 16. Now at my second Saturn return, it is time to collect it all together, as a 'seed', for whatever it may become in the future. I have found the journey continually exhilarating, with the constant flow of insights and discoveries, arising from this 'universal theorem', keeping me at it. I feel blessed with finding it so early in life, as it has held my interest at the level of mild to hot obsession, during this entire period. The practical rewards have made the process worthwhile.

My life has been physically supported by my developments, since 1980, and there is still a broad practical horizon in front of me to explore. While this Saturn return is an ending, where all the parts may now be in place, it is also the beginning of the next phase of my life. I have graduated from my 'university' and its teachers, and have my own experience to move forward with, under the banner of Glenology.

This series of books contain most of the steps I have found necessary to bring enough clarification, for me to feel confident in 'my practice'. I am very glad I have walked this road. It has provided all that it had waved in front of my imagination, all those years ago.

8 May 2013

As the journey through the Atkinson conjecture has developed, it has lead me down roads that can no longer be identified within any of the existing 'isms'. This journey started with Rudolf Steiner (RS), however I have moved to a view that is not compatible, with many of the beliefs his more ardent followers hold. My finally 'getting it' that IT IS ALL ELECTRONIC, has brought some challenge into that conversation. In practice, my efforts to 'extend' standard Biodynamic understandings and application appear to not be overly welcomed. My efforts with chemistry, have taken my work into a area untrodden by other chemists. I use homeopathic methods for the making of products, however the understanding behind this use, does not conform to

'traditional' homeopathic techniques of diagnosis or disease reference. Given it comes from Steiner's approach. Yet, the Apop doctors do not use the BD preps as remedies, and have shown very little interest in my chemistry, thus far. I can say I still fit within Astrology, but only because Astrology is the oldest and broadest 'church' there is, with no central authority to define its nature. Simply if you look to the connection of the Above to the Below, you are an astrologer.

The approach presented in my writings now have a character all their own, and can no longer conform to any external reference group for its validity. It can only be judged according to its own thesis, and so needs to be called something to define it. Searching for a relevant name is quite difficult as it needs to somehow mirror the work itself without being too impersonal. Thus after some time I have chosen 'Glenology' as its name. This work is a complete expression of my path and efforts in this life, and while it is drawn upon other teachings, the way it appears through my conduit is an expression of my being. It also extends into Glenopathy, given to the strong emphasis on practical application that comes with it. The thrust of my efforts is always towards solving problems, intervening in pathos, or pathologies. So it is with the emphasis upon practical applications, that Glenopathy exists.

It is with a very liberated heart that I offer this book as part of the Glenological series of titles.

24.8.2014

The intention of my efforts are the practical outcomes that arise from them.

This book outlines the underpinning thoughts of the logical process I have undertaken to arrive at the diagrams on pages 26 and 108. This provides 'the field' from which practical remedies can be identified. It is a journey, and if taken, it will greatly enhance your view of the ordered world, we exist within. There is a practical application and one that is free and safe for all who wish to use it.

Keep in mind this journey has taken me 40 years, to wander through, and while it will be much quicker for you, I suspect there will be some time needed for your bodies, to digest the many insights and orientations needed for the Periodic Table, to become a living energetic reality in daily life.

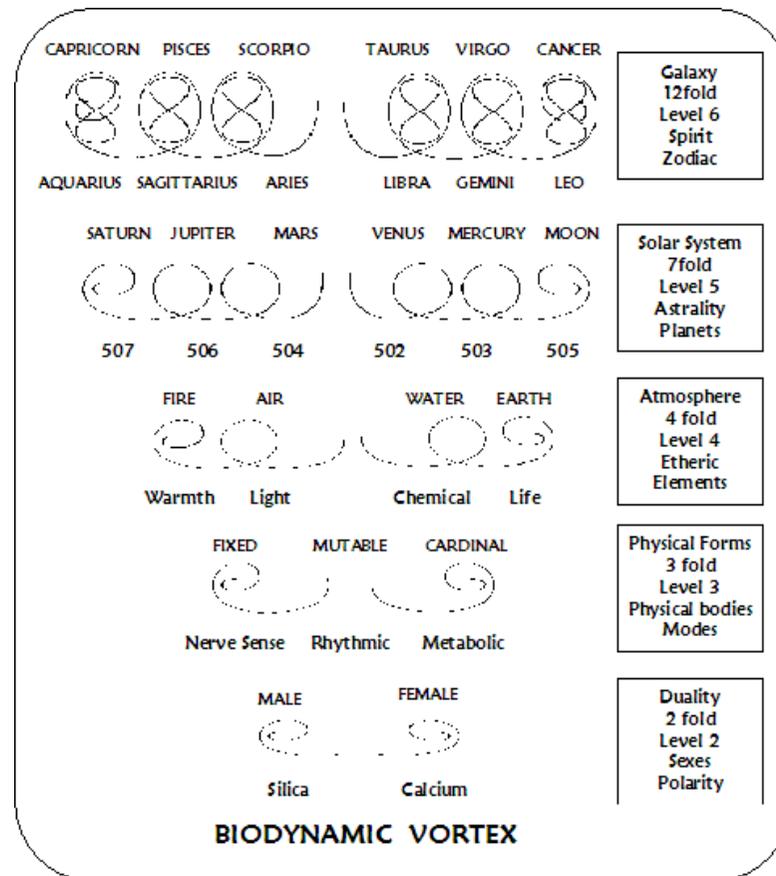
This third edition has clarifications, corrections and extensions, most notably of the Lanthanides, more North orientated diagrams, and how 'the Ethers' sit as a reality within the Electronic Being. Enjoy.

3.4.2017.

The Overview

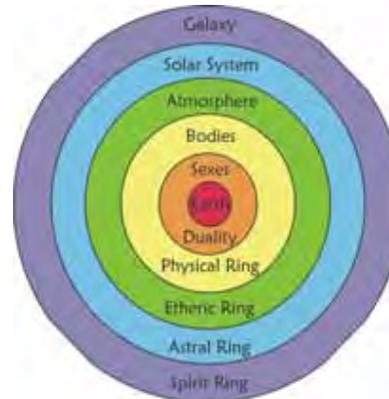
In his lectures on natural science, Dr Steiner encourages us to look to the macrocosm, and then find the similar patterns within the microcosms, we have around us as life forms, if we wished to see reality

In 'Biodynamics Decoded', I showed how the basic forms apparent in the formative processes of the Galaxy, can be used to understand the formative patterns of the activities outlined in his 'Agriculture' lectures. One of the fundamental patterns of life, **the vortex**, was used to present an overall diagram of the biodynamic information, as 'Biodynamics Decoded'. A detailed colour version of this simple diagram can be obtained for free at www.garudabd.org. I also call this diagram the Biodynamic Vortex.

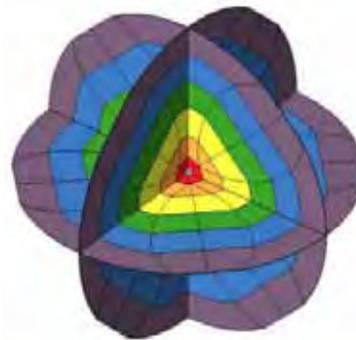


The Vortex however is only one part of the overall galactic form, which is really a spherical gyroscope. More commonly called a Torusian Individuality these days. The Vortex is found, most obviously, on the vertical axis of the gyroscopic form. So while it was useful to present the biodynamic world view as a single vortex, it is more correct to expand this picture into the gyroscopic form.

The essential element of the vortex are the layers. Astrology and Dr Steiner outline these as the 2 fold, 3,4,7,& 12 fold layers.



In the accompanying diagram the 12 fold— Galaxy (Mauve), 7 fold is the Planets - Solar System (Blue) , 4 fold — are the elements of the Atmosphere (Green), 3 fold is the structure of physical bodies (Yellow) , and the 2 fold is the primarily male and female nature of biological organisms (Orange), one fold is the Earth itself (Red), are shown. The bottom picture expands this from a circle to a sphere. These layers represent the real but different dimensional layers of our environment. BD Decoded (opposite & the poster) shows most of the references you are likely to find in the Biodynamic literature, placed upon this vortex. By following the rules of the vortex, many relationships and activities between the parts are revealed.



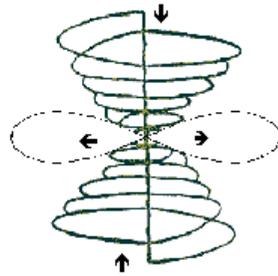
The next step though is to take these conglomerations of information and reorder them into a sphere. The first thing that can be done is to identify that within the spherical gyroscope, we can imagine that from the Earth in the centre, the layers are experienced as being like the rings of an

onion. Each layer is its own sphere within the other spheres. This is the astronomical 'cosmic' reality within which we exist, and is 'what is there'. This is all very well however more organisation can be brought to this image.

Matter's Electronic Organisation

Once movement in the Cosmic static electron field occurs, polarised Electrons begins to spin and a magnetic field develops, which in turn generates an

electrical charge, within a spherical field. This is called the Torusian Electronic Being. This field is the dominant organising principle of all matter present within its field. Given everything in creation conforms to this form it is to our advantage to get to know it well. I use the formula $Cr = Mv + T$ (Creation = Movement + Time) to indicate this process.



Not being much of a physicist, I can not give you the maths of this phenomena, however the people I think can are Nikola Tesla, Walter Russell, Dan Winter, and Nassim Haramein.

My approach is more observational of the phenomena available to me. So..... Due to this movement of the object, the resultant magnetic field produces positive and negative poles. These poles are characterised by the formation of vortices, which can be seen in the magnetic field of Earth at the North and South poles. These poles, with their spinning vortices cause a flow of matter, moving towards the center, and a flow of force moving from the center outwards to the periphery.

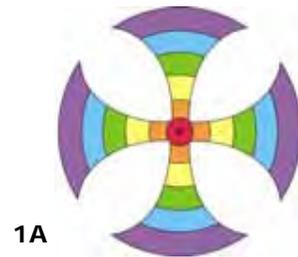
The matter, moving towards the center, is consolidated, or consumed in the center, (i.e. is it is a planet or a Sun), before being spun off again along the horizontal axis of the gyroscope. This horizontal plane of activity becomes manifest, and seen as the substance of the Milky Way galaxy, or the planetary sphere of our Solar system. There is evidence that when something reaches the edge of the sphere it is drawn towards the pole again and recycled through the middle again. At the galactic level I understand it is accepted that the star Archturus has done this journey. The Kieper belt of 'rocks' beyond Pluto, also suggest that some debris is 'excreted' out of the solar system, via the horizontal plane.

We must never forget that everything is moving very quickly. For example on the Galactic level, our accumulative speed on the Earth, has us moving at 118,000 mph through space. (Earth rotation + Moving around the Sun + movement around the Galaxy) We generate serious magnetic fields along the way.

The horizontal plane has a interesting feature that can be most easily observed once a star has gone supernova. "Going supernova' is when a star reaches such an intensity that it explodes all of its inner contents outwards, thus filling its 'atmosphere' with cosmic dust. This gives us a look at what the shape of this 'atmosphere is.



In these two examples, there is an obvious vortex form, but also what appears to be a lemniscate form, as if there is a pulsing between the two halves. This cosmic image has a earthly correspondence in the relationship between the heart and lung system, which pulsates at a 4:1 ratio across the middle 'horizontal' plane of the human.



1A

So added to the double vortex image of the vertical plane, the creative form has a horizontal plane. Which with its vortexing lemniscate, makes the form of the Greek cross, common in all the world religions. This form has been central to humanity for over 10,000 years, and this cross form is the basis for the dominant physical structures of the gyroscopic spherical form, within which we live .



1

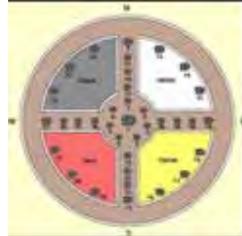
When looking at this picture, not only do we have the nature of the vertical and horizontal planes, but we must also surmise about the qualities of the spaces in between these four basic axis. By doing so we meet the double cross.



2

The Double Cross

It does not take much observation of cultural imagery, before one comes across a wide array of images, based upon the 'double cross'. It can be found in ALL major cultures from the Chinese, Vendanta Asians, the American Indians, The Maya, through the Persian / Islamic culture and throughout the Christian culture, even St Peters Cathedral and Square, in Rome are built upon it. The Chinese and the America Indians say they have used this as a central form for 10,000 years. The question becomes, what is this image, and what can be the basis of its significance.

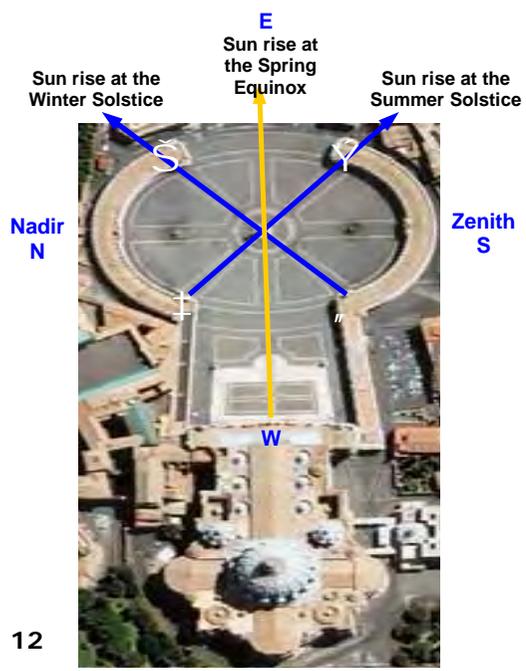


3



In most cultures there are two main references of orientation. The first is based upon magnetic North and so we have North, South, East and West, and on a compass (at the equator) we have North pointing along the horizon line. Thus south is towards the opposite horizon point, while East and West are on a 90 degree axis to this, but this is not quite true for all latitudes.....

The next reference system we find is related to the seasons. Many ancient monuments are aligned to the Solstices and Equinoxes, as seen from their hemisphere. The Equinoxes are



Adjoining Pictures

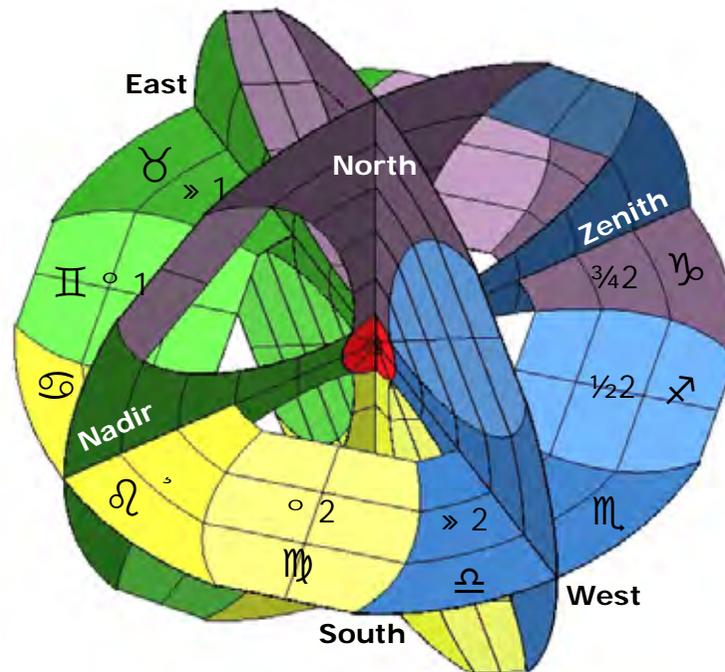
Tibetan Mandala (2) Mayan Calendar (3) American Indian Medicine Wheel (4 & 5) Tiles from the floor of the Salisbury Cathedral (6) A cross from a Christian Church (7) Window in the Masquita Mosque in Cordaba –Islamic (8) A tile in the floor of the Masquita Mosque dating to 1000AD (9) A double cross I made before finding these other images (10) Door pattern in the palace at Toledo, Spain (11) Islamic fountain in the Alhambra, Spain (12) St Peter's with Square, Rome, (14) My Gyroscope

marked on the horizon for where the Sun rises on the 21st March and 21 September, while the Solstices are where the Sun rises, at the horizon, at mid summer and mid winter. A good example of this can be seen in St Peters Square in Rome. (12). **This orientation is thus focused on the Sun, and not the magnetic orientation of the Earth.**

Both of these reference systems however appear (in our daily life) to be related to the horizon line, and therefore it is very easy to see them as similar, until we look at them within the spherical reality in which they actually exist.

In the EM gyroscopic form (14) the north south axis is based upon the primary poles of the 'magnet', with their vortexes, at the top and the bottom. The vortexes on the Earth, allow for the Aurora to form, when the Solar wind passes by them.

From here, we then have East and West, at a 90 degree angle, based upon where the Sun rises and sets. This provides two axis of the sphere. The 'Major' axis (N/S) and then the horizontal plane marked by the position of East and West, at the horizon. There is however another axis needed to make a sphere. This is the second vertical axis which also crosses through north and the



horizontal plane, at a different 90 degree angle to the 'Major' plane.

This vertical axis may not have had much relevance, if it was not for the fact that all the planets, (and thus the Sun) are all lined out along the horizontal plane. Depending on where you live on the planet, the horizontal plane makes an arc across the sky, at varying distances from the horizon. Where the Sun reaches its highest point in the sky, is where the second vertical axis crosses the horizontal plane, and this point is called the Zenith. The point opposite is called the Nadir.

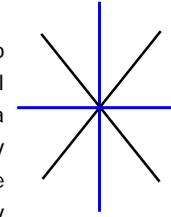
This diagram (14) is as if you lived very close to the north pole, in the northern hemisphere so the Magnetic north is directly above you and the Sun, moving along the horizontal plane, passes just above the horizon, when looking 'South'. As the horizontal plane spins and the Sun reaches its highest point of travel each day, it reaches its Zenith, before tracking lower towards the horizon again. As you travel across the planet towards the south, the north pole will move to the left and the Zenith point will rise up in the sky, until, when at the equator the north point is on the horizon and the zenith is directly above you. Continue moving southwards and the north pole goes below the horizon and the Sun's path again begins to lower, but now is seen to be going across the 'north' part of the sky. So the Zenith axis points are very relative to where you are on the planet, and also at what time of year you are viewing them. Especially when one is at mid to high latitudes, the angles between the Zenith axis and the East West axis change throughout the year, due to the Earth being on a 23 degree tilt in relationship to the Sun's ecliptic.

Because of our 'cultural' orientation to the Sun, from a northern hemisphere perspective, the horizontal plane and the Zenith axis have gained a dominant role in our awareness, over the North South axis. Even though in the southern hemisphere we tend to see them as the same thing.

The main differentiation I wish to highlight here is that the N,S,E,W axis are a completely different 'reality' to the cross activities of the horizontal plane. N,S, E,W are always in the same relationship to one another, while the Zenith Nadir East West is a subjective experience based upon where you are on the planet, but more importantly it is a phenomena related primarily to the horizontal plane. Thus we have a objective reference and a subjective reference, which has lead me to call the primary 'magnetic' cross the 'Cosmic Cross' and the secondary 'zenith' cross the 'Earthly Cross'. This duality between Cosmic and Earthly, Objective and Subjective, External and Internal is a theme that keeps arising, and one I explore further in "Biodynamic

Questions, Astrological Answers”.

The ‘Double Cross’ diagrams on page 12 are all two dimensional representations of these three dimensional activities. The Cosmic cross is what is real. It is a manifestation of real spinning bodies, while the secondary cross areas will respond to whatever movements these primary cross arms make, in the same manner that Earthly things respond to the broader cosmic activity. Therefore within the 2D double cross, we can expect to see the interplay between the Cosmic and Earthly activities, or the external and internalised activities.



Discussions I have had with American Indians suggest their medicine wheel, acknowledges the nature of the four ‘winds’ of the primary axis, as well as giving images of the activities for the in between spaces. They are considered very restless spaces and not places to spend a lot of time in. In diagram 1A on page 11, they are white petal shapes.

A wee activity one can perform, is to place a diagram of a Greek cross on the floor, with one of the axis pointing towards the north. Stand in front of the northern vortex, for 20 seconds or so. Longer if you wish. Observe your feelings and ability to stand upright. Then stand on the eastern vortex, for the same period of time, observing the same things. Then stand on the space in between these two positions. Do this before reading any further.

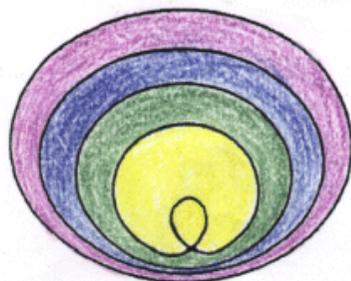
How did the last positions seem different from the earlier two?

My experience of this activity is that I can easily stand still on the primary axis point, however on the in between zone, I found it difficult to stand still and was moved from side to side, as if I was being buffered between two more dominant axis.

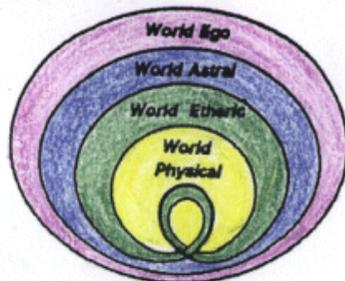
Macrocosm (External) and Microcosm (Internal)

Dr Steiner (RS) and Paracelsus before him, suggested we always make reference back to the macrocosmic, and look for the harmonic resonance that connects the large with the minute. They emphasised that life is a manifestation, achieved through the internalising of the activities of the external spheres, and that the various kingdoms of nature occur due to the differing degrees of this internalisation process.

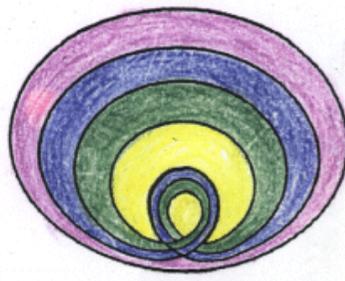
RS had to give names to the electro magnetically energetic activities found in these four great astronomical spheres, and he chose to go with the names that had been given them since Hindu times. He called the Galactic activities ,



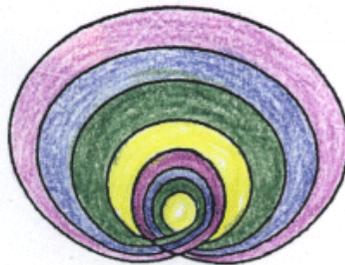
*Mineral Kingdom
Internalised Physical*



*Plant Kingdom
Internalised Physical & Etheric bodies*



*Animal Kingdom
Internalised Physical, Etheric, Astral bodies*



*Human Kingdom
All bodies internalised*

Spirit, as these are the constant and formative impulses being beamed at us from all directions. For the Solar System energies he called these Astral, the Earths atmospheric energies are called Etheric and the Earth itself is called Physical. He commented in the 1923 medical lectures that 'we have to call them something'.

The mineral kingdom is lifeless matter, while the plant kingdom internalise the energetic nature of the atmosphere of the Earth, called Etheric. The animal kingdom adds the solar system energies, to develop proteineous flesh and organs. While the Human kingdom internalise the energetic activities of the stars of the Galaxy, which produces individuality and rational thought found in humans. Life is indeed then a microcosmic image of our macrocosmic environment. These diagrams are a visual representation of this enfolding process.

Many of RS followers believe these astronomical energies are something more than just electro magnetism (EM). While there is a EM component, there is also an accompanying "Etheric" activity tht stimulates Life processes. On page 62, I discuss how the non EM ,Di Electric / Scalar / Etheric sits within the gyroscope. There is no escaping though the EM reality of Creation.

For me everything in creation is Electronic, and a result of movement and order associated with electronic beings we have in creation. There is nothing spooky about star forces coming via the planetary and Earths EM fields to reach the physical Earth, which in turn then radiates energy back outwards into the cosmos. This is all accepted fact. We do not need religious belief for this world view to make perfect sense.

'A person of faith can believe anything'. Once the faith barrier is crossed there is no end to the extremes of belief that one may entertain.

So when dealing with reality, we are challenged to find how the outward radiation from the Earth manifests in life forms, and then take these considerations as the basis for growing plants and husbanding animals.

Firstly, it helps to become very aware of your connectedness to the external cosmic activities. While this might seem a difficult task, it can be easily answered with an open minded experience of having ones birth chart, (the planetary positions at your birth), reflected back to you, by an experienced astrologer. In this experience you can see in your own personality, the connections to the planets, and hence your astral body. One then asks the question, 'How can someone who previously knew nothing of you, be able to describe in such detail the very private wanderings of your inner life?'

Further to this, explore the events of your life, and how these were reflected in the planets movements at the time, followed by predictions made of your future, with specific dates of potential specific outcomes. In this experience you are consciously mapping the connections of the planetary sphere to your internalised astral bodies movements. Here you can experience how you are intimately connected with the macrocosm.

The etheric body connection to what comes from above, is harder to make conscious, without a study of the Earth EM field fluctuations marked against human health phenomena. I have not done this, however the correlation of the Schumann resonate of our atmosphere — 7.8Hz — to our energetic resonance shows our 'union' with the atmosphere. . Experiencing your internal etheric body is as simple as watching the difference between your experience of being tired, and how you feel when you wake up. Sleeping is the time we recharge our etheric body.

The Spirit is experienced as 'the controller'. That bit of you that when properly incarnated gives you a feeling of being in control of your life, with the ability to clearly define the options in front of you and to make a calm choice. When it is not incarnated properly, things can seem chaotic and you can feel pushed around by life.

All these activities have their manifestations in soil, plants and animals and Biodynamics is the study and practice of this.

The practical challenge then is to find these relationships between the inner nature of the plant or animal and its external environment. Biodynamic scholars have made extensive studies of these correlations. (see bibliography)

Manifestation is what happens in-between the cosmic and earthly activities. When growing plants the external reality rules. The condition of the soil, moisture, light and warmth are THE dominant factors influencing plant growth. Without these there is nothing. The internalised activity of the plant, is governed by the status of the external environment, it finds itself in. It is tossed between the varying activities of the primary external cross and its own internal processes, that originate from the external sources.

Dr Steiner gives very good details of how these 'cross axis' work together in living systems, and most clearly when he talks of the Human systems, in his medical lectures, especially those in October 1922. The way the activities work externally and internally though are somewhat different. (see page 32) In the bodies external relationships outlined above, for the plant, we have the Earthly element of Physical / Earth, and Etheric / Water working from below upwards, polarising with the Astrality and Spirit working downwards. This can be seen practically in the Earth and Water elements residing below while the Light and Warmth elements come from above.

For the internal working of the bodies, we see greater polarisation taking place. Life arises out of movement and where there is movement we find first the spiral and then the gyroscope. In the gyroscope we find polarisation of opposites, such as the north and south poles of the EM field. Within living beings, the vertical axis is maintained through a dynamic polar relationship between the Spirit and Physical Earth activities - 2 fold. Once these reach a certain intensity of interaction, the center forms, creating a 3 fold form. The center then divides into a polar relationship between the Etheric and Astral activities (4 fold) on the horizontal plane, and the gyroscopic lifeforms become self sustaining. As with my use of the 'Biodynamic Vortex' picture, this gyroscopic picture is archetypal, being based upon galactic formation process. This picture (pg 19) has both the external and internal two cross patterns, placed on just one diagram. It provides an easy way of showing the relationships between the various parts of life.

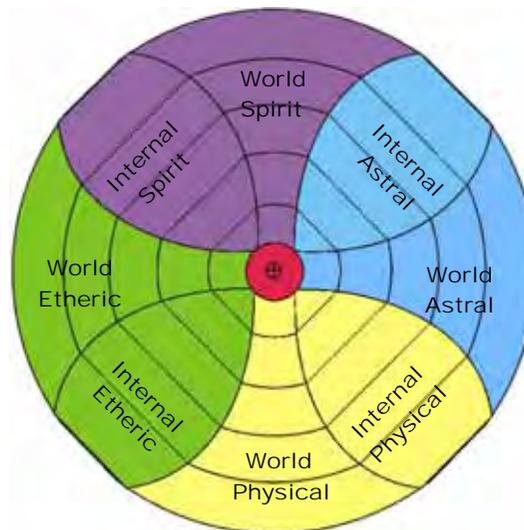
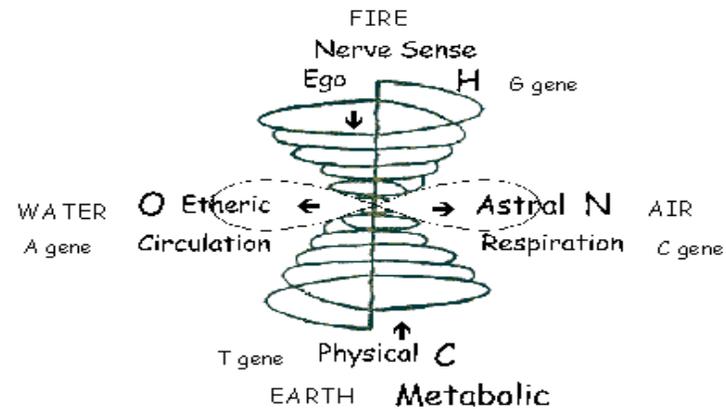
This basic cross can be enlarged by placing all the references RS gave for the various physical processes. This basic gyroscopic pattern shows the elements of the atmosphere, Fire and Earth etc, the spiritual bodies, Ego / Spirit physical etc, The elements of protein chemistry, DNA and the physical systems of a physical body, all according to the energetic activity it is a manifestation of.

Seasonal Cross and the Internal Arms

The next step in the development of this diagram is how to exactly allocate

the internal arms. We already have it that the internal manifestations will be in the 'in between spaces' of the primary cross, but what body should be in what space. It would appear reasonable that the internal arms will be directly related to the external arms, with the astral light and spirit warmth being above the horizon, while the Physical Earth and Etheric Water are below. The next question was which way to spin the arms, for the 'right' relationships. A twist, one step anti-clockwise, makes for an obvious symmetry. This makes the internalised bodies - Spirit and Astral working from above the horizontal axis and the Etheric and Physical bodies from below the horizontal axis, which is an image of their external archetypal positions in nature.

After some 15 years of exploring this question, both academically and physically, by walking about octagons, and exploring the chemical implications of this ordering, I am convinced it is correct.



The colour coding in this book is meant to be the same throughout, sadly it is not. The six colours to look for in all diagrams are Red, Orange, Yellow, Green, Blue and Purple.

The Energetic Bodies in Nature

There are two main organisations of the way the energetic activities present themselves. The first — the Rings picture, (pg 9) is how the energies sit in the cosmos, and so I call these 'Cosmic' activities - strictly speaking the 'Cosmic activities' also includes all the activities beyond our Galaxy. The second organisation is how the energetic activities organise themselves, when they move, and become active in living processes. This is the gyroscopic diagram with the World and Internal activities on the previous page. (pg 19)

It is very difficult to find the clear differentiation of these two stories in amongst RS words. One of the problems with the Agriculture course is, he was telling these two stories at once, and tended to interweave them together, through the whole of the course. This interweaving has caused endless problems for future generations, so that today it is generally accepted that this course is incomprehensible. Therefore large parts of it - the main theological tracts - have been 'officially' set aside. In their place, other often Christian based theologies have been made up, and expounded. Given the modern Biodynamic worldview is not properly based upon the Agriculture Course, it has no common theology throughout the world, as individuals are free to make up whatever story they wish. It is often seen as a chaotic system of quasi religious beliefs, with little relevance to a modern scientific humanity. As one travels about the planet this basic anarchy has one group saying one thing and another saying the exact opposite. Given the 'social state' of the dominant organisation, where the religious Anthroposophical stream holds sway, I can not see any change in this circumstance, any time soon.

Nevertheless the course is there for all to read, and when seen in the context of the medical lectures RS gave between 1920 and 1924, a very coherent story is possible to find. It may seem complex at first, but compared to other worlds views it is relatively simple. (16).

Part of its simplicity is, **there are only four energies, sourced from our astronomical background**, and they are the only players in every situation we will encounter in life. So keep an eye on them, and how RS names and describes them in different parts of manifestation.

The two discussions that can be seen are a) a discussion of how the energetic activities work ONTO each other, which is the 'Rings' story, and b) how they work INTO each other., which is the 'Arms' story. This organisation arises once things begin moving.

In the Arms organisation, the World Activities are the primary cross, and the

Internalised Activities are the secondary cross. This provides our 'Game of Life' , which has these 4 activities manifesting in three interactive 'dimensions'. The Cosmic activities coming from the Rings diagram, and the World and Internal spheres, active in the Arms diagram. The Cosmic Activities sets a background field, within which the World Activities express themselves, and we 'internalised life forms' respond, with our internalised bodies as best we can. Because we exist within several layers of spinning spheres, pretty much everything we experience, will be coming from their activity. So in practice, the Cosmic Activities and everything else we receive from above, can be considered World Activities. Reality becomes the interplay of force activities from above, interplaying with our internal activity 'bodies'. Dr Steiner's natural science is the study of this very real phenomena.

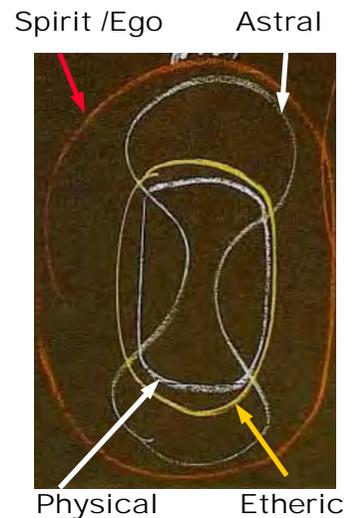
The first step though is to pull the two conversations of the course apart. This is available in my book 'The Energetic Activities' , 2012. (16)

The First Conversation— Onto Each Other

The first story is of how the activities work according to the Cosmic Rings activity. Where they push and pull each other, in a dynamic interplay of the four primary energetic bodies.

One image RS gave of these activities was in his September 1924 lectures entitled 'Pastoral Medicine'. In this series of lectures he talks of what happens to ones inner experiences when any of the bodies are not in the right

relationship to the others. He was talking to both priests and doctors, so these are wonderful stories telling how one or other of these disciplines will observe the same energetic imbalance.



Here the white square is the physical body, while the yellow square near it is the etheric body. The etheric body extends a small way beyond the physical and acts as a 'watery cushion', holding off the astral - wavy white line, indicating movement - and the Spirit, indicated by the red circle.

The Astral body has this curvy shape, as RS is illustrating a dynamically moving process. Wherever activation is needed anywhere in the organism it has to come

from the Astral body. The Spirit activity, while experienced as a contractive process, tends to show itself as an ordering and directing influence.

An analogy for these bodies activity is provided by the participants in the building of a house. The Spirit is the architect, who has the overall plan and provides the direction of the process, to follow for the overall project to be a success. These plans however have to be handed to the master builder, who is the Astrality. He provides all the motivation and necessary experience and skills to bring the plans into fruition. The Etheric body provides all the life-forces and energy of the workers, who use the Physical bodies substances, such as wood and nails to finish the job. Without the architect the builder will direct his energies in a unstructured and chaotic manner, so the building will not have the integrity it needs to 'be within the law' of life. If the Spirit is not present, the other activities loose focus, and do not do what they need to be doing. If the Astral influences are weak, then there is not enough basic force to stimulate the Etheric workers into action.

When we look back to the Astronomical reality from which these 'bodies' are sourced, the planets are essentially the only moving part of the game. The Stars are called Fixed Stars because from our perspective they do not move. We know that they are moving, but within our lifetime and indeed a 1000 years, they move only a very little distance, from our perspective. When we come to the Earths atmosphere and Etherics carrier, water, we can say that if it was not for the movement of the other planets, and their alteration of the EM field of the Solar system, the Earths atmosphere would be stable. Similarly, when water is left to its own devices, it will be calm and eventually stagnant. Water gains its life giving quality only when oxygen is wound into it by outside movement.

Hence the planets, and their manifestation as Astrality, are the only moving part of our reality, and we need it, the astrality, to be active for all the other processes, to have the motivation they need to carry out their tasks.

Any 'changes' in any of these bodies relationships will upset the working of the others. If the Spirit is too strong, then obsessive behaviour manifests, if too weak, one become spontaneous, scattered and often fearful. If the Astrality is too strong, it pushes off the Spirit and consumes the etheric. Thus manic depressive behaviour appears. Firstly due to the uncontrolled astrality bouncing around, and then once the etheric body has been consumed, the astrality invades the physical body too strongly and the individual physically collapses. It can not escape the negative impressions of the astrality, as it is 'locked' into the physical. A less dramatic expression of this is artistic

inspirations and mystical experiences, which are however hard to hold onto or do anything practical with.

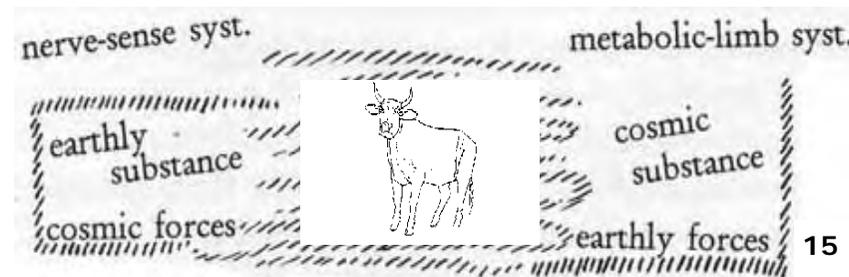
If the etheric is weak, then illness of many kinds result, from a inhibited immune system. A weak Etheric allows the Astral to incarnate too strongly , which leads to increased psychological stress and tiredness, mentioned above. If the Etheric is too strong, we only need to look to a pregnant woman for an example. The Spirit and Astral are pushed off, and so a pleasant scatteredness develops, while one puts on extra weight. If the physical body becomes too strong an array of sclerotic illness appear. If the other bodies do not connect with the physical body then one enters a stupor state, unconsciousness or coma.

This interplay of bodies creates a macro environment within which the second conversation takes place. This approach is very similar to the ancient system of the '4 humors', and many illness states can be resolved, by re aligning these 4 activities to their 'natural' state. The Biodynamic preparations work primarily upon these relationships.

The Second Conversation— Into Each Other

The second major conversation in the course, looks at what happens when these primary activities, all work more deeply into the physical sphere. This story is best imaged in the picture given in the eighth lecture.

RS terminology here has given many people great difficulties, so this whole conversation is one of those 'set aside'. Given around 25% of the text relates



to this picture, it seems a huge step in the wrong direction to not address it. To address it though, we need to explore the whole reality of the bodies working into each others spheres, and then come back to this specific part of the story. So we need a frame of reference to address all the possibilities of all the bodies interworkings. RS did not address this question directly, in the Agriculture Course, however he did use different words for the different levels

of activity. Sadly he did not make a glossary of terms to show how they all related to one another.

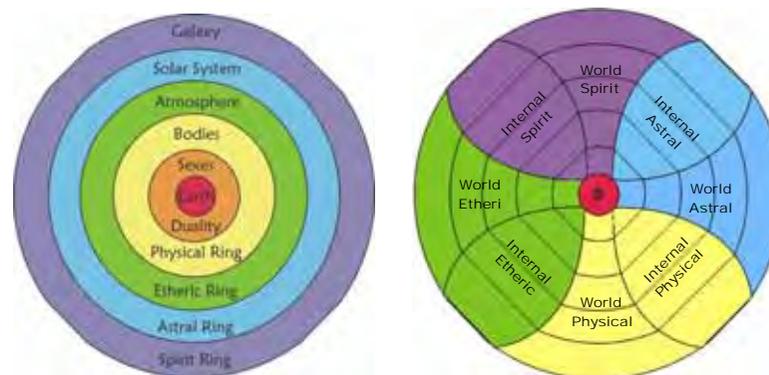
Finding a Glossary of Terms

In creation and lifeforms the Spirit works into the Astral, Etheric and Physical sphere, likewise the Astral works into the Etheric and Physical spheres, and so on. Luckily these activities leave some footprints, and this is the organisational number of their activity. If the astrality works into the etheric it will leave a pattern of 7, (see the lectures on the 7 life processes), if it is the spirit it will be a footprint of 12 parts (see the 12 senses) and so on.

Thus RS's worldview is multi-layered and interactive with a mass of interrelationships to consider. 'Biodynamics Decoded' was my first attempt at organising all the various parts, via the vortex form, however it does not define the finer details very well. As a way of showing these more complex relationships I moved onto looking at the gyroscopic diagram, made up of both the reference systems, the rings diagram and the arms diagram.

The first diagram, is a cross section of the Rings pattern of the external gyroscopic beings, we live within. This archetypal pattern is repeated many times, in creation, as the center changes. Here it is the Earth, as this is where we are, and the rings are 'like' our EM field, as it is the center of OUR Universe. However we can put the Sun there, and the rings are those of the planetary spheres, or the center of the Galaxy, even nucleus of an atom, with its electrons. In each case there are spheres of activity around the center. This is a picture of all the major spheres of our experience, and called the 'Cosmic Spheres'.

The second reference system, is when things start to move and polarisation occurs, leading to a gyroscopic form. This diagram provides two internal references. Firstly the 'primary cross' arms, show the internal influences of the



World Spheres. This is a different relationship of the external bodies, to that shown in the Rings diagram, which is a pushing and pulling interaction on one on the other. This one shows how the external spheres work upon each other from an incarnated perspective through their polarity relationships. The second relationships shown in this diagram is the 'diagonal cross' arms, which are the zones of the internalised energetic bodies, which provide specific areas for the relationships we find within life forms. Both sets of arms are interactive with each other.

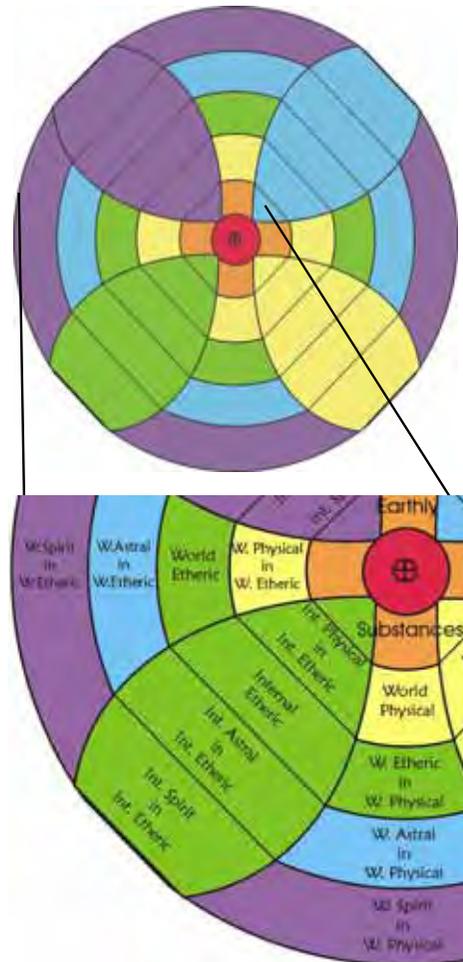
RS's stories, and his peculiar language is trying to convey the relationships between all these activities. So in every case he is trying to tell us where the Spirit, Astral, Etheric or Physical activities are working onto or into the various layers or dimensions of manifest life we are confronted with. So the question arises 'how can this be expressed in one diagram'?

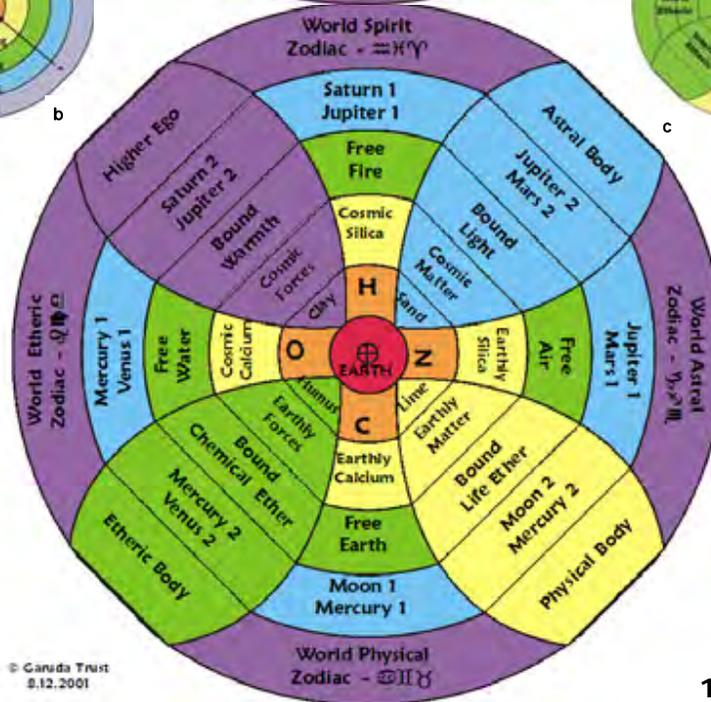
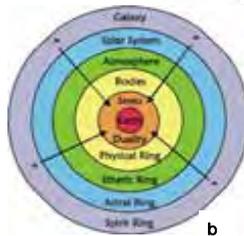
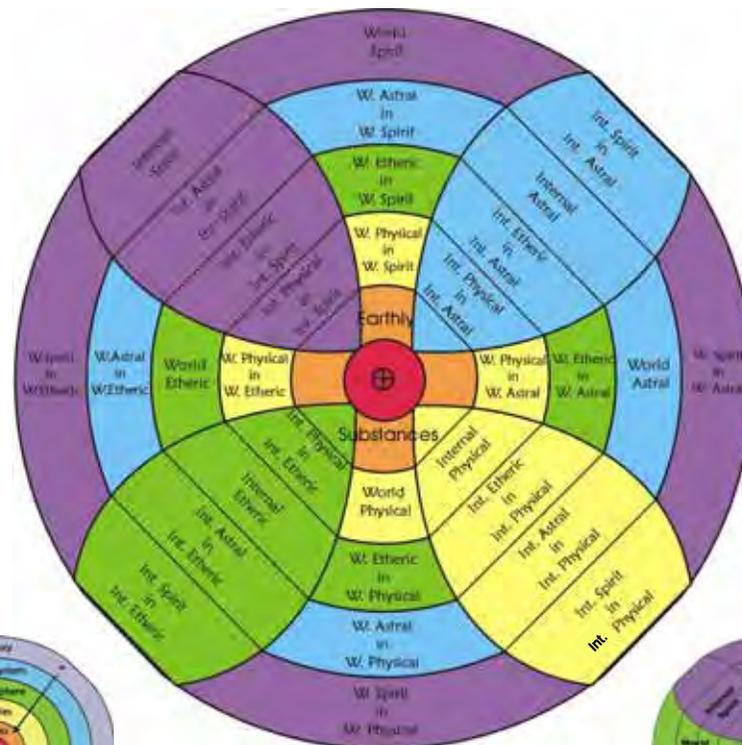
arises 'how can this be expressed in one diagram'?

If we take the 'the Rings' and 'the Arms' diagrams, both of which describe one type of energetic activity organisation, and overlay them upon each other, there arises an image of the activities working into each other. Take a few moments to put these pictures together.

I have done my best, using colour to indicate the activities of the two diagrams, however a little bit of imagination is still needed. The internal body's 'petals', I have left as whole colours, while on the external arms, I have shown the external rings. In an ideal world, these rings would be shown in the internal body zones as well, but then the 'strength' of indication for the internal bodies would be lost. The straight lines are used to indicate these rings acting in the petals.

This enlarged segment of the final diagram, (pg 25) shows the complex relationships indicated by this interaction. On the horizontal World Etheric axis we





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have the purple area, being the Cosmic (and World) Spirit working into the World Etheric Arm, The blue is the Cosmic Astrality working into the World Etheric, the green has two Etheric references and is thus the World Etheric itself, with the yellow being where the Cosmic Physical works into the World Etheric. The Orange area is where the World Etheric supports the realms of exteriorised duality, which is a sphere I call the Earthly Substances. These are the basic substances from which everything arises.

In the Green petal, the same process is indicated. The outer ring could be purple and indicates how the Cosmic Spirit stimulates the Internalised Spirit to work into the Internalised Etheric and so on. The complete chart of the energetic relationships is on the page to the left.

Essentially this diagram provides a basis for a glossary of terms used by RS, but possibly more importantly it also provides an energetic interpretation of all the 'double cross' monuments dotted about the planet. In many cases when you look closely at the more complex versions, such as the Tibetan mandalas and the many Persian and Christian designs, there are six layers of forms able to be seen, as well as the double cross. In addition to this in many of the Persian designs these rings are distanced according to the Golden Mean ration, to each other.

So while this organisation has arisen from a purely Goethean 'artistic' process, I have come to appreciate that it does have a high degree of 'truth'. One of my basic premises has always been that if we follow the 'As Above, So Below' doctrine presented throughout the ages, and stick with 'what is real', as the model for the steps taken, then what appears along the way should contain 'truth', that is at least worth investigating. This was certainly the case in my 10 year journey through "Biodynamics Decoded". I can say that while this gyroscopic form is very useful for understanding RS language, - as we will see shortly— it has also been very accurate in defining the activity of the chemical elements, and the activity one finds in the various parts of earth monuments I have visited. Indeed I have found this organisation has opened up a effective form of healing, through the realigning of the bodies relationships, simply by moving around the octagon. This 'thought' is not new, as the Labyrinth movement can a test. The Chartres cathedral labyrinth was first made by the Knights Templar, in the 1300s, as a metaphorical journey akin to the journey of the crusades. Many people experience strong inner challenges as they walk the labyrinth, however there is no set interpretation of this journey. Until now..... see the later chapter " The Chartres Labyrinth".

A key part of experiencing this organisations usefulness is one needs to have

an experiential feeling for what the energetic bodies are, and how they feel when they are moved around with regard to each other. Simply by spending time with this chart and an octagon will provide the experience. Over a relatively short period of time the individual bodies will become tangible activities. You are made up of them, and they will move about in the octagon, so it is just a matter of time and perceptive sensitivity, before they become as real as feeling your foot step on a rock.

While we are on this subject, of moving the energetic bodies about, a very important tool in my 'awakening to the bodies' has been through using my human essences, and in particular my Ego Pullers, Astral Coolers and Etherics 3. These homeopathic biodynamic preparations work directly upon the energetic bodies interaction, just as RS said they would. The Ego Pullers, pull in the Spirit to stimulate a sense of personal control and direction, mostly by containing an overly active Astrality. The Astral Coolers, calm the rampant astrality, which is the cause of many different ailments, from pain, to emotional and psychological disruptions, to various forms of physical illness. The Etherics 3 stimulate the Etheric life bringing body, which is generally depleted by overly active Astral and Spirit goings on, along with the bad living habits they tend to bring along with them. In chemical terms the etheric oxygen is bound up by the astrals nitrogen and the spirits hydrogen, thus the etheric cushion becomes depleted, so the astral and spirit can enter more closely into the physical organism, creating their havoc through illness psychosis and obsessive behaviors. CH is Methane, CN is Cyanide, need I say more. So if one can pump up the etheric and push them off, while pulling off the astrality and if need be pulling in the Spirit, to help organise the rampant astrality, then most ailments can be 'adjusted' very quickly. The side effects of these processes are that you get to experience the movement of the bodies in relationship to one another. Sadly the essences are not strong enough so that in the early stages of 'treatment', one dose does not effect a permanent solution. On the positive side this then allows you to experience the bodies moving back again, if you stop using the drops. Which in turn allows for a further experience of the bodies moving again when they are again taken. In this manner the bodies become real experiences, and before long it is possible to know what feeling or experience of 'weirdness' is caused by what body relationship. At this point the essences can be taken just the once to effect the desired change. Having clarified these experiences before I began wandering the octagons helped a lot.

Naturally I contend, this direct experience of the bodies, is essential for anyone serious about working with Biodynamic Agriculture, or human health,

as it takes one out of the head and theory, and into practical reality and realistic applications, of what RS was talking about. It IS all about the energetic bodies.....

The diagram at the bottom of page 26 , is the result of placing all the parts of creation Dr Steiner talked about in his 'Agriculture Course', onto the external and internal cross axis. The appropriate references and names he used in the course are placed in their appropriate energetic position. Each of the areas in the diagram are the carriers of a particular energetic activity, in a particular zone. E.g. The Green external ring has places for the 'free' or external atmospheric elements (and their accompanying ethers) for Water Earth, Air and Warmth, while the internalised areas on this same circle is the position of the 'bound' or internalised chemical, Life, Light and Warmth ethers and elements.

The 'Free Earth' is on the etheric ring of the external physical arm. This is the place where the Cosmic Etheric works into the World Physical sphere. This could manifest as water running through the soil and the activation of soil texture conditions, which other life processes may exploit.

The Free Water is the Cosmic Etheric ring of the World Etheric arm, so this is the most purely Etheric aspect of the gyroscope, and best expressed as the Water on the planet, and the life processes this facilitate. The Bound Chemical Ether is in the area of the Cosmic Etheric works upon the internalised Etheric. This would be a position that strongly supports the life and growth processes in any living being. It would be a significant point for the basis of very good health.

And so on. Each position on the gyroscope can be identified in this manner.

This diagram provides two significant bodies of information to cross reference against each other. The top picture is the energetic bodies interactions, and the bottom picture is Steiner's thesis on how these energetic activities interact in the kingdoms of nature. The combination of these two systems is revealing, and imaginatively useful, to comprehend Dr Steiner's schema, as well as his practical suggestions. This effectively provides the missing glossary of terms, for the Agriculture Course.

Most importantly, this complex of information can also be used as a basis for further cross references with anything that fits this same patterning. The latter part of this book explores the reorganisation of the Periodic Table of Chemical Elements according to this pattern.

The Agriculture Course

We still need to look further into the second conversation in the Agriculture Course. The best original diagram for this conversation is on page 23. In it there are two reference schema. On the top line we have the organism divided in the nerve sense / head region and the metabolic-limb / belly region. In the first few pages of lecture two, RS describes how these two polar activities work towards each other to form a central mutable zone that shows as our rhythmic system, with its lungs and heart processes. This threefold order is the basic structure found in the physical bodies of most of the higher life forms.

This piece of the story is generally 'appreciated' by most BD storytellers, however 'the problem' arises when they stop there, and try to understand the rest of RS story, from this layer alone.

Below this threefold layer, each of the poles is divided into two activities, with the obscure names Cosmic Forces and Earthly Substance, and the Earthly Forces and Cosmic Substance.

RS is telling us here that these four processes are taking place inside the threefold physical organism, and if we really wish to control the growth of anything, we need to work with these processes. So what are these processes and how do they relate to the four primary energetic activities?

The key to this question can be found in a passage in lecture 6 of 'The Healing Process, given on 16.11.23 *"Although the three major systems intermingle, they are distinctly different from one another. The physical, etheric, astral and I-organisations work totally differently in our sensory nervous system, for example than they do in our rhythmic or metabolic-limb systems. All four members of the human constitution—physical, etheric, astral and I—are present in each of the three spatially somewhat separate systems, but affect each one in very different ways."* So the four 'Cosmic and Earthly' terms used in the Agriculture course, are RS way of indicating how the 4 energetic activities manifest at this physical level, which 'spatially' manifests as a threefold structured body.

The Physical Formative Processes

But what of the physical processes? From the diagram on page 26 we can see the terms in question are all on the cosmic physical ring. Cosmic Forces appears in the Internal Spirit arm, Cosmic Substance is on the Internal Astral arm, Earthly Forces is on the Internal Etheric arm, while Earthly Substance is on the Internal Physical arm. Thus these are the dominant sources of the processes RS is describing with those words. Whenever one sees the word

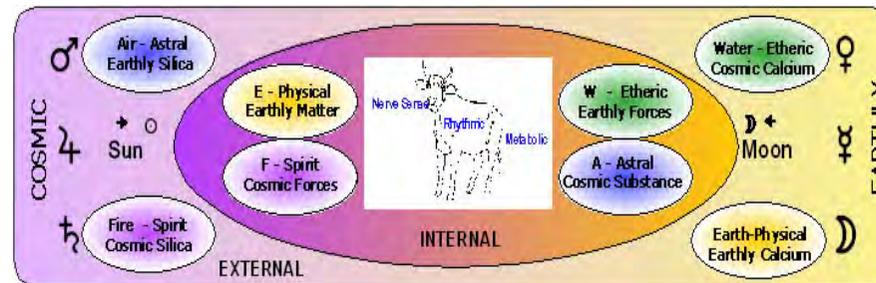
'Cosmic Substance', you should think to yourself the Astral body is working into the Physical. Similarly if you see 'Light Ether' you should think the Astral is working into the Etheric body, and so on.

Dr Steiner's medical lectures clarifies this a bit further. His descriptions there suggest with the words 'Cosmic Substance' he is really indicating the working of both the Astral and Spirit in the metabolic system, however the Astral is the dominant player, with the spirit playing a secondary role. Similarly 'Cosmic Forces' is really saying the Spirit and Astral activity within the nerve sense system, however the Spirit is the dominant influence, while the Astral is the secondary player within this system. The same is true of the Earthly processes. Physical dominates Etheric in the nerve sense system while the Etheric dominates the Physical in the metabolic system.

So, in the second story we find the parts working as polarities in the physical zones. The Spirit and the Physical activities of the vertical axis of the gyroscope polarise, and work predominantly together in the nerve sense system, while the Etheric and Astral activities of the horizontal plane also work as a predominant creative polarity, in the metabolic system. Both these joint sets of activities work towards each other, which leads to the creation and the ongoing sustenance of the Rhythmic system, that is made up of the lungs and the heart. The lungs process is a 'manifestation of the head working into the middle zone, while the heart and circulation is a manifestation of the metabolic processes working upwards. Health is where these two major activities are working in their proper manner.

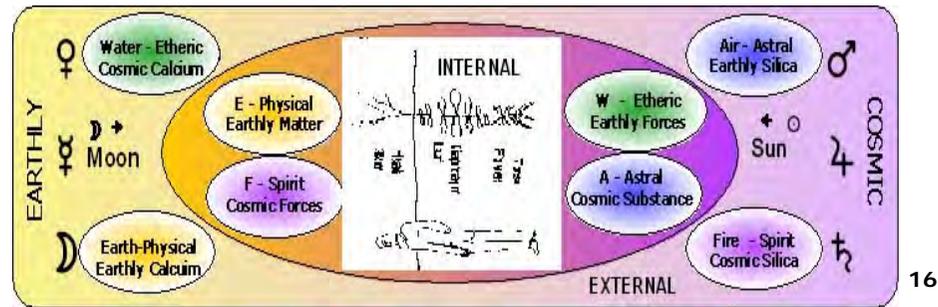
Diagram 15 provides an image of RS story. It also includes the arrangement of the activities in the external environment, as well as the internal activities RS showed in the lecture 8 diagram. These need to be also considered, if we are to keep the story straight. Externally the Spirit and Astral activities come from above, and work onto the head region of the animal, while the Physical and Etheric processes come from the Earth 'upwards'. RS talks of these activities in lecture 4 of the course, however they are not clearly defined

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from the internal processes, which polarise. These are discussed later in the same lecture, when he talks of manure.

The 'oval' is the internal organisation of activities that sits inside of the external organisation. The plant has a slightly altered arrangement as the internal organisation of the plant is reversed to that of the human and animals, with regard the external environment. The root zone is the nerve sense area of the plant, while the metabolic zone, which has all the reproductive organs is the flowers and seed zone, thus its belly is facing the sky and its head is towards the centre of the Earth, opposite to the human. So it adds a bit of complication. See 16.



RS is very specific with the details he provides of how and where each of these poles work and interact. This is all contained within the medical lectures given in 1920 and 1921, which can be obtained on the web at <http://www.rsarchive.org/Medicine/> , for free. As much as I would love to quote endless passages from these works, this publication is not the place. If you are serious about this study you need to read these lectures anyway. They are free and available so you may as well go to the 'horses mouth'.

RS's story begins, with the two opposite vortexes, the left hand spiral from above and right hand spiral from below , working towards each other. In the second lecture of 1920, he says " *The polarity in man is only comprehensible if we know that his structure is a dual one and that the upper portion perceives the lower. The following too must be considered: the lower functions — one pole of the whole human being — are considered through the study of nutrition and digestion in the widest sense, up to their interaction with respiration. The interaction goes on in a rhythmic activity; we shall have to consider the significance of our rhythmic system later. But linked up with and belonging to the respiratory activity there is the sensory and nervous activity, which includes all that appertains to external perception and its*

continuation and its being worked up in the nervous activity. Thus, respiration and sensory and nervous activity form one pole of the human organism. Nutrition, digestion, and metabolism in its usual sense, form the other pole of our organisation. The heart is primarily that organ whose perceptible motion expresses the equilibrium between the upper and lower processes; in relation to the soul (or perhaps more accurately in the sub-conscious) it is the perceptive organ that mediates between these two poles of the total human organisation. Anatomy, physiology, biology can all be studied in the light of this principle; and thus light is thrown, and only thus, upon the human organisation. As long as you do not differentiate between these two poles, superior and inferior, and their mediator the heart, you will not be able to understand man, for there is a fundamental difference between the two groups of functional activity in man, according to whether they pertain to the upper or the lower polarity.

The difference amounts to this: all the processes of the lower sphere have their "negative" so to speak, their negative counter-image in the upper. The important point, however, is that there is no material connection between these upper and lower spheres, but a correspondence. The correspondence must be correctly apprehended. without search for or insistence on direct material connection."

These two spheres have their own characters and ways of working in lecture 7 (pg 105, 1920) RS described them this way — *"Thus man is affected in the most diverse ways, by telluric forces (Cosmic Substance / Astral) — call them terrestrial if you so prefer — and by extra-telluric forces.(Cosmic Forces / Spirit) If we wish to study these forces, we must look at the result of their co-operation in the whole human entity. They cannot be traced in any isolated part of man, and least of all in the cell — please note especially, in the cell least of all. For what is the cell? It is the element that obstinately maintains its separate existence, its own separate (Etheric dominated) life and growth, contrary to the whole of human life and growth. Picture to yourselves, on the one hand, man built up in his whole frame by the telluric and extra-telluric forces, and on the other hand, the cell as that element which intervenes in the operation of these forces, upsets their ground-plan and conception, and even destroys their working by developing its own urge towards independent life. Actually we wage a ceaseless war in our organism against the life of the cell. And the most impossible of conceptions has just arisen in that Cellular Pathology and Cellular Physiology which find cells as the source and basis of everything, and regard the human organism as an aggregate of cells. Whereas, in truth, man is a whole in relationship with the*

cosmos, and has to wage perpetual war against the independent life and growth of the cells.

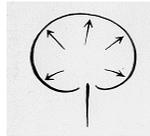
In fact the cell is the ceaselessly irritating and disturbing factor in our organism, not the unit of construction. And if such fundamental errors enter into the general scientific view, it is not to be wondered at if the most mistaken conclusions are drawn regarding the nature of man in all its implications.

So we may say that the contractive formative process of man and the expansive process of cell formation represent, as it were, two opposite sets of forces. The individual organs are right amidst the action of these forces; they become liver or heart and so forth according to whether the one or the other set of forces prevails. They represent a continuous balance between two poles. Some of the organs tend towards the cellular principle, and the cosmic factors have to counteract this tendency. Or again, in other organs — which we shall presently specify — the cosmic action dominates the cellular principle. In the light of this knowledge, it is especially interesting to observe all the organic groups that lie between the genital tract and the excretory tract on the one hand, and the heart on the other. These organs, more than any others, resemble the actual state towards which cellular life tends to develop. This resemblance is noticeable in comparison with all the other organs of man. And we must draw the following conclusion as to the essence of the cell. The cell develops — let us exaggerate somewhat, but consciously, and in order to make our point clear — an obstinate and antagonistic life, a life of self-assertion. This obstinate life centered in one point meets the resistance of another force, external to it. And this external element counteracting the cellular process, takes away the vitality from its formative forces. It leaves untouched its globular shape as of a drop of liquid, but sucks the life from it, as it were.

This should be an elementary piece of knowledge familiar to all; everything on our earth that is globular in form, whether within or external to the human frame, is the result of the interplay of two forces, one urging towards life, the other drawing life away.

If we examine the concept of the mercurial (middle process) in ancient medicine we learn that it was held that the mercurial has been deprived of life but retains the globular form. This means that the mercurial element must be visualised as tending obstinately to the condition of a living drop of matter, i. e., to a cell, but as prevented by the planetary action of Mercury from being more than a corpse of a cell — that is to say, the typical quicksilver globule. “

In this passage we are given images of the cellular process as a expansive process, and the cosmic process as a contractive containing process. In Agriculture this is the same conversation as that between the two processes of Earthly Calcium being the expansive influence, while the two Cosmic Silica processes are the contractive.



EARTHLY



COSMIC

These processes not only interact with each other—as in push and pull— but they work right into each others spheres of activity. The Spirit and Astral, while centered in the head region, work right through and into the metabolic region. Similarly the Physical and Etheric processes, while centered in the metabolic region, work right through the organism and up into the head zone. In a lecture given only weeks following the Agriculture course RS says— *“Thus when we explore the wonderful internal structure of the human organism, we discover not only a generative and regenerative process in each individual organ, an activity that serves the organ’s growth and continued development, but also a degenerative process that reverses physical development, but makes it possible for the soul spiritual element to find its place within the human being. I said last time that the specific balance between regeneration and degeneration in each human organ can become disturbed. When regeneration becomes over whelming, inflammation disease conditions result. (pg 117 , Healing Process 21.7. 1924)*

Therefore within both of these regions, the head and metabolism, a ‘struggle’ exists between an expansive process, coming from the belly, and a contractive process coming from the head. The head processes have a hardening devitalising effect ,while the belly processes show as a softening or over vitalising effect. Illness, in RS eyes, is where one or other of these processes becomes either too strong or too weak within any particular area.

In RS language, the head region with its relationship to Silica works primarily through Cosmic processes, but has also a secondary Earthly process coming from the metabolism. While the belly region and its relationship to Calcium works primarily through the Earthly



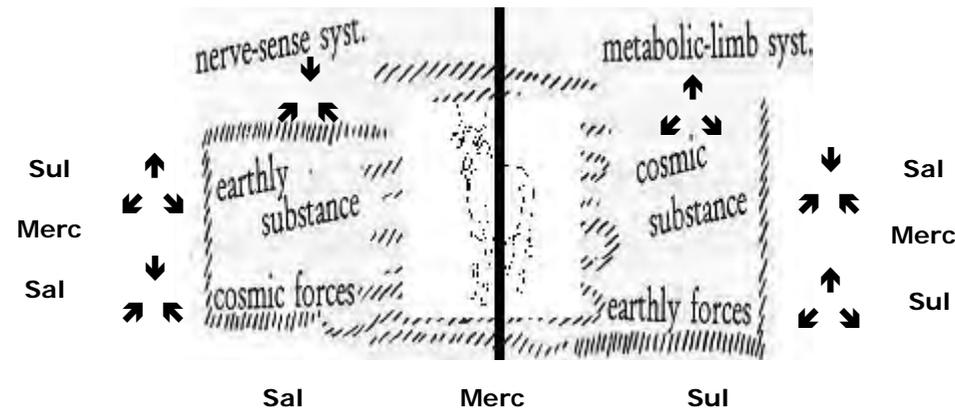
processes, however with a secondary cosmic process coming from the nervous system.

In the Head we need to work with both a contractive and expansive activity present there. The same is true of the Belly. This basic 4 fold activity, was imaged by the Chinese many years ago as the yin yang symbol.

In between these stark polarities stands 'the middle' processes that arise out of these two poles interactions. Therefore we can also look for the 'Mercury' processes between the 'Salt' and 'Sulphur' polarities. (see pg 134)

To clarify the Cosmic and Earthly activities further, we can refer to lecture 2 of 'Agriculture', where RS talks of how the energetic activities, use the Calcium and Silica processes to do their bidding within the physical organism. He talked of how the Silica processes have two sides to their action. One coming from above, which is firstly 'absorbed' by the Earth, before this activity is then radiated back outwards through the plant growth and other life forms.

The Silica Cosmic process 'starts' with the ripening nutritive activities of Light, which carries the Astral 'Cosmic Substance' activity, and Warmth, which carries the Spirit 'Cosmic Forces' activity, being drawn into the soil during the Autumn. The light process is held by the Silica sand in the soil, and in the spring with the help of clay, the warmth based Cosmic Force is pushed back upwards through the plant. This carries the impulse to set viable seed for the future generation. For fruit and seed to develop properly, there needs to be an active interplay between the Cosmic Substance activity, with the rising Cosmic force activity, coming from below. If this contact is not made properly, then the plant will flower, however fungal attack will destroy the flowers and fruit, due to there being insufficient

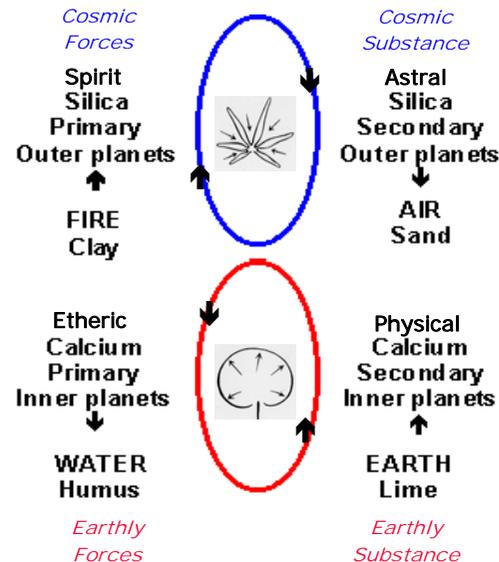


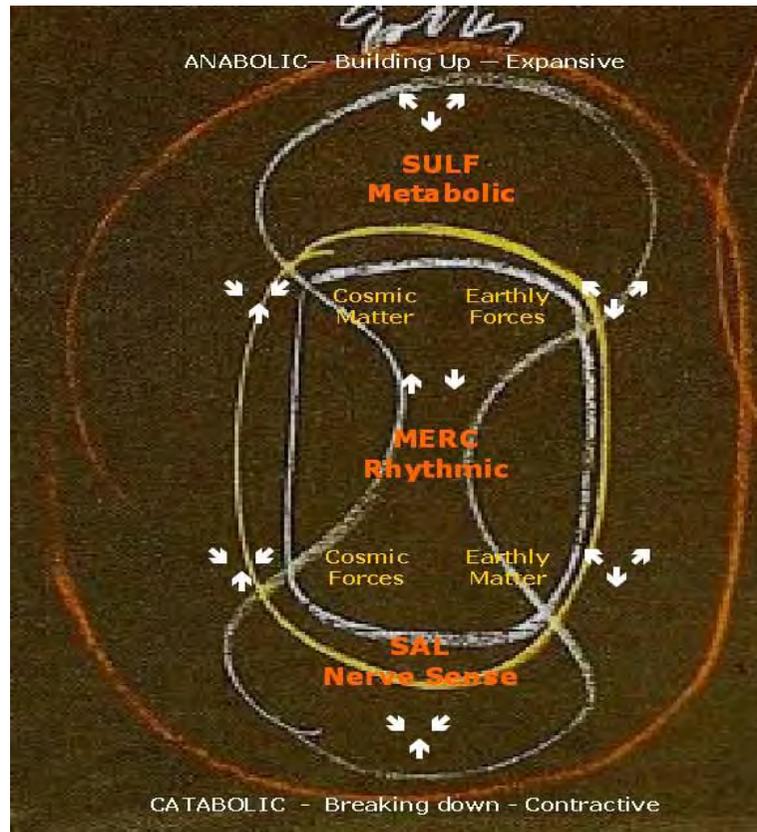
upward force to push the plant all the way through to seed ripening. In this case, RS comments in the 6th lecture, that it is the Earthly processes which dominate the Cosmic Forces, and fungus results. If the Cosmic Substance process is too strong then insect attacks are very likely, as the softening Earthly processes can not cope with this inward push of Astrality.

The 'Earthly' Calcium / Physical processes are best seen as starting from the soil, where water and minerals are drawn into the plant, and begin to spiral upwards through the plants channels and veins. This activity is central to the quality of the tissue formation. The veins become increasingly small, which helps for the minerals to be taken from the water. Eventually the water, which has now been significantly potentised from all the spiraling, is puffed out into the atmosphere as transpiration. This 'sensitive water' becomes the moisture in the atmosphere, which RS called 'atmospheric calcium', and Earthly Forces. You could also say it is the World Etheric working into the Physical body. This refined moisture is either drawn back into the plant, or falls to the Earth as dew. RS commented that the humus in the soil acts as a attractive 'trap' for this living activity from the atmosphere. The Calcium process in the Earth helps with germination of the plant and the quality of its tissue formation, which is beneficial to plant health and keeping quality, and is called Earthly Substance. While the atmospheric calcium, which helps with supporting fertility and pollination, while helping with the enlargement of the plants parts, carries the etheric activity, and is called Earthly Forces.

The message from this is that, the internal Cosmic and Earthly processes RS describes are not a two fold polarity, as they appear externally, but a 4 fold interaction. It is ONLY when this phenomena is understood that much of the Agriculture course makes sense.

A further consideration of the Cosmic and Earthly question is how these four substance Clay, Sand, Humus and Cations relate to the substances of Calcium and Silica. RS made very clear statements about these four substances in lecture two,





however at the end of lecture three he made a very vague comment of 'clay being a mediating substance between Calcium and Silica, although it is closer to Silica'. This comment has given the 3 fold fanatics the idea that clay is THE mediating substance between the two, which means they completely deny the three lecture two comments that 'clay strengthens the upward moving silica process'. The solution to this 'problem' appears to be that RS should have said that the four substances and more so their processes, mentioned in lecture 2, are all 'middle' processes taking place within the external Calcium / Earthly and Silica / Cosmic processes, he outlines in lecture 1. (The planets naturally follow on from this pattern.)

Interestingly, in lecture 2 of the 1921 medical lectures, there is a story of how the etheric body, and its parts, the Ethers, work to manifest as illness. In that story, the polarisation, which we find in the physical processes, does not appear. The Warmth / Spirit and Light / Astral works from the Head downwards, while the Life and Chemical ethers work from the Belly upwards,

and illness caused by their imbalance as described in the push / pull reference used for the primary bodies. This difference between how the Etheric Formative Forces work together and how the Physical Formative forces work together, is not understood by those who only acknowledge the Ethers as THE primary formative principles, and thus much of the Agriculture Course makes no sense to them. This fundamental difference, Ethers working as primary polarities, and the Physical Formative Forces (PFF) working as secondary polarities — see *Biodynamics Decoded*, needs to be brought to clear consciousness. Very little was said of the Ethers function in the Agriculture lectures, while the PFF are described in around 30% of the text. This is the context for much of what is said there. The PFF have a direct relationship back to the energetic bodies actions within living forms, and so working with them allows Biodynamics to be cross referenced with the medical lectures, and huge avenues of understanding and new exploration arise.