



**ALEX PODOLINSKY**

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## Editor's Note:

The following lecture was presented to the Bio-Dynamic Agricultural Association of Australia (BDAAA) 2002 AGM. During its translation to the written word, it has been enlarged and added to in response to a question posed to the Author (described in the foreword).

## FOREWORD

A leading younger Bio-Dynamic Agricultural Association of Australia (BDAAA) farmer "pointedly" requested more training on how I assess farms during an initial visit - while seeking the Farm Individuality in the given circumstance of climate, soil, geographic region and farmer.

The method I use is based on a "Viewing", which is described in exact methodicity in my book "Active Perception", and will here be enlarged upon to meet the above request.

Such method has been used throughout the ages, to varying degrees and with varying awareness and accountability, in particular by Philosophers and Sages. I apply this method in general, and here in particular, to the practice and understanding of Agriculture in a wider sense.

We pursue agriculture in a "developed" "Western" country, which occupies only part of the globe in a kind of splendid isolation. We must consider the "rest" of mankind, and the overall conditions of Earth as our sphere of interaction - which would have to include awareness of a once healthy, indigenous lifestyle and agriculture in many regions, often affected by colonization (quite apart from "placing" chemicals banned in exporting countries).

Alex Podolinsky  
Powelltown  
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## PREAMBLE

Three years ago I lectured in the Philippines. One man, who had come a 10 hour drive, stood out. A market gardener with generations of farming background. For years Greg Kitma had tried to practice Bio-Dynamics, guided along theoretical ways and using dry preparations. He had decided to give Bio-Dynamics away, as the effort involved did not bring any results beyond the organics he and other farmers had long practised. Greg is a leader and has also organised marketing schemes for a group at a much fairer percentage than the 30%, plus transport costs and return packaging material charges, which their wholesaler imposed.

Greg Kitma's ancestors opposed the colonizing Spaniards early on, and migrated into the Northern highlands 1200m up. His village is named Upper Kitma Village.

Greg's parents had decided to give their children as much education as possible, and therefore sold off some of the little land the land reform had left them. One brother is a veterinarian. Greg has a degree in agriculture. He has a wide-awake mind and is surprisingly well informed and conscious in culture and world events.

The capital of the Philippines has 10 Million inhabitants - half the Australian continental population. And the rest of the country I visited is full of people. The population increased four-fold in the past century. In the area where I lectured, rice is grown two to three times per year, without green manures or dry land crops - as was traditional. The paddy fields are now not drained. "500" was sprayed (after only 45 minutes "stirring") onto the water.

Greg must have taken my lecture seriously. I invited him to visit us and learn proper Bio-Dynamic practices, inclusive of preparation and 500 making. I offered no financial aid, but left the effort to the Philippine organisation. It took three years.

When here, Greg, who is very factual and practical, said, "under Philippine economic conditions, my life's income, bearing in mind my family's needs, would not enable me to buy two hectares of good market garden land". - As you understand, it is difficult to practice Bio-Dynamics on land not wholly under your own jurisdiction – anywhere.

If Greg could work under our conditions in Australia, I am confident, he would be amongst our best Bio-Dynamic farmers.

May these personal observations serve as introduction to the following, bearing in mind that the Philippines are not a "poor" Asian country.

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# LIVING KNOWLEDGE

There is a summary, which, I understand, was made by some United Nations' committee. I first received it in German, and then obtained this English version, which some of you may have seen.

Stated is, that if the world population were concentrated into one hundred people, living in one village, then: 57 of the 100 would be Asian.

We have had the Tampa event. Australia once had a "white" policy. We hear how insufferably poor some human beings – akin to us as such – are in other parts of the globe, and – in a subdued consciousness – we may have waft up, "we are very well-off here in Australia", and we sort of bury the head in the sand. Such is not human, certainly not Christian. An apparition may arise, gloatingly, "we do not want it like that here. We are secure in our lifestyle".

The 57% Asians of the world population exist just outside our door.

We all live on one Earth.

And we few inhabitants of the Australian continent (remember Graham Stephens report in the recent Newsletter on the Nitrate presence in NSW underground water - a danger to health), how have we affected and poisoned soils, crops and environment.

Forty years ago the Nitrate problem in underground water in the USA was well recorded. We now have it here.

Without doubt most of the NPK problems are induced by "fertiliser" run off ex biologically defunct soils without humus, unable to "hold" and utilize this NPK slowly. Blue-green algae is one result. Of all the people I know in various parts of Earth, there are very few with access to pure water deriving from springs, rivers or underground sources. In some highly populated countries, drinking water is unavailable for hours per day. There are many people with sparsest access to water at all.

Australia will never be able to continue a policy of "US" and may the rest of the globe.....

There are rattles round the globe. Isolationist or ego-centric policies will eventually fail. This has to be seriously considered.

We know the situation – even in Australia – with water, with salt, with pesticides, weedicides.

Australia's 20 Million (on an area the size of Europe or the US mainland) contra to Kyoto agreement of 8% eventual pollution reduction – pollute to 30%. And scant notice is taken by Government Authorities – even to warnings of the CSIRO.

There is hardly a university professor, or a senior “public servant”, or almost anybody who “dares” say anything until, perhaps, after retirement. A system of funding by Government is in place, which “directs” virtually all “individual” efforts and enslaves initiative. Recently an honorable medical researcher is to have pre-empted and falsified results for the sake of receiving further funding.....

The way Australia is proceeding, it will, in 20 to 40 years, not be able to feed the present number of citizens. Certainly not healthily. (And how many are sitting here, who buy vegetables and fruit from supermarkets? I do not know, but I put the question.)

We can not just “read” about this. These are facts. I am only presenting facts, not opinions.

We have obesity in children, never mind about the adults. In children, second only to the US. There are diabetes statistics.....

One group of French vigneron and farmers I lectured to last year numbered about 160. Not one person was obese.

All of this results from Food-Life-Standards. Estimates regarding “depression” and diseases of – very likely – “civilization” causes, could truly cause depression.

We “rich” 20 Million, on a continent, are not in a very good position. And farmers engaged in all round health providing Bio-Dynamics must consider themselves fortunate.

So, 57% of the world population are Asians. Can we expect them, for ever, to be short of land and look across to vast Australia – hard workers with the skills to exist on small portions of land? Have you noticed, in proportion to numbers, how many Asian students top the lists at Australian schools and universities? We may be put on our toes here, as to how well we can manage our own country.

Only 21 of the 100 are Europeans.

14 from the Western hemisphere, both North and South.

8 (only!) Africans

52 would be female

48 would be male

70 would be non-white

30 would be white

70 would be non-Christian

30 would be Christian

89 would be heterosexual

11 would be homosexual

6 people would possess 59% of the entire world’s wealth,

all 6 would be from the United States

80 would live in sub-standard housing

70 would be unable to read

50 would suffer from malnutrition

1 would be near death

- 1 would be near birth
- 1 (yes, only 1) would have college education
- 1 would own a computer

“If you have never experienced the danger of battle, the loneliness of imprisonment, the agony of torture, or the pangs of starvation....you are ahead of 500 Million people in the World. If you can attend a church meeting without fear of harassment, arrests, torture or death ... you are more blessed than 3 Million people in the world.”

Note also: Africa, the second largest continent, has only 8% of Earth’s population and Asia 57%. Africa - on which so much is reported as to Governmental problems, cruelties and starvation.

80% would live in substandard housing.

When I lectured in the Philippines, two hours South of Manila, amidst rice flats and undulating forest and scrub country, but, by Western standards, amongst a huge population density and poverty, I could not sleep the first night, because of penetrating “Western” electronic music throb throughout the forest – all night. Succourment of the unemployed with scant hope. Nothing else to do. No football fights to watch. (The masses in declining Rome were held at peace by cruel arena events).

Account, as to how much time is spent, reading papers or watching television, on the real news, and how much on “sports” news.

70% would be unable to read. But it is not likely that more than a few of these – in a modern world – would live in a self sufficient, healthy and natural environment – like “primitives” around the globe once did. – Hence the music throb.

50% would suffer from malnutrition. I have failed in many ways, but I have been fairly honest. Yet I have stolen food more than once. “Subsistence”, physical or even mental, could be an excuse. With “pangs of starvation”, not just concentration camp skeletons should be considered. Prolonged extreme starvation in such circumstances can be beyond pain. The metabolism is lowered to a semi-comatose state. But children and adults lacking essential vitamins or proteins can virtually go berserk in ecstasy of pain.

During apartheid times in South Africa, I was taken to mines and saw the troughs of refined maize porridge fed to black workers as the staple diet. It fills, but does not satisfy, due to lack of essentials. It burdens the body and lowers mental activity. Many modern foods, ex shelves, act similarly.

There is growing awareness of the overall negative effect on Earth's total environment caused by man over the past century, accelerated by fertilisers and chemicals in the last fifty years. Bio-Dynamic farmers know of this. Even natural resources are so unsustainably depleted as to question man's eventual survival on Earth.

Agricultural **materialism** is destroying Living Earth.

But, likewise, powerful other aspects of this materialism have to be recognised in their effects on mankind. Of:

- monetary **Economics**,
  - **Insurance** dependence, **Indemnity** suffocation.
  - the ever accelerating, clam like, **Bureaucracy**,
- In **agricultural bureaucracy** the effort is on how the essential certification is recorded, less on how it is done.
    - Soon there will be more “inspectors” than workers.
    - Every business, every doctor, now spends hours per day on such recording.
    - Doctor suicides are reported above the average population rate.Ancient civilizations have broken down on account of corruption and bureaucracy. The Ottoman empire, after failing to conquer Vienna in 1683, would be the last such example.

Bureaucracy is the cancer of civilization.

The intelligence of a “creative”, bureaucratic systems developer – and everyone tries to, and deserves to be, creative – truly believes that **every** human achievement can so be “assessed” and encased in “procedure”, that anyone, however lacking in originality, when following the procedure, is capable of acting equivalently. Individual creativity is “equalised” to procedural progress. Everyone, by following systems, becomes equally capable. Governments - should population disturbances occur - were just not yet sufficiently organised in pre-programming citizens' behavioural patterns because of insufficiencies with bureaucracies. “Important”, that all major “policy” conferences are so pre-programmed that no real initiative can escape.

- **Indemnity-insurance**: if a man comes onto my property to steal tools (obviously without my knowledge) and breaks a leg, I am legally responsible. Doctor's insurance has so risen, that for instance, many obstetricians can not afford birthings.
  - Eventually the tax payer will carry the cost of indemnity **hysteria**.

- To the **Economics** sphere: It is called “free” Economy. In Agriculture “free” elements are made available to plants, ie. chemically treated or synthesised water soluble elements. These, as has been amply demonstrated, are the root problem in the breakdown of Nature and Environment.

“The” **Economy** (what a word) of “industrialised” nations is measured on the annual increase of production and **export**, irregardless of available **sustainable consumption**.

- hunt for consumers
- overproduction pressures
- “efficiency” drive
  - staff cuts
  - transference “off shore” (cheap labour)

There is the **real** and **constant** production unit value and the “share market” value thereof.

- open to manipulation at the mercy of ‘Might’ (might is right), to the point of breaking the “economy” of a country (all real values remaining!) affecting the well being of an entire nation.
  - import/**export** race
  - transference and concentration of production skills to benefit of ‘Might’
  - lesser developed nations reduced to temporary gains.

The bio-dynamic/organic market is new and, as yet, functions independent of above conventional economy. Production is quality not profit based and associated with a consciously seeking consumer demand. Efforts should be made to so continue.

Further data to the **Economics** sphere (I am indebted to W. Neurohr for some of the data. I am no specialist in this area, but may possess common sense.)

- Since the advent of credit cards, whether one is used or not, every item purchased has become 5% dearer.
- On account of the total “**civilization package**” (bureaucracy, insurance, indemnity etc.) **all** costs have risen by an estimated 30%, and due to corporate and service companies’ accounting swindles, will rise further.

1. Gates’ value is put at 52 Billion.
2. The Waltons’ are put at 103 Billion.
3. The private fortune of 3 Billionaires is higher than the gross domestic product of the 48 poorest countries.
4. The devastating debt (on country and population) of Argentina totals 150 Billion, ie. equal to the wealth of Gates and the Waltons.
5. The private fortune of the 10 wealthiest is 266 Billion, ie five times as much as all “industrial nations” raise as development aid.



6. There are 514 dollar Billionaires. 1 Billion of the globe's population earn 1 Dollar per day.  
Interest earned has to be worked for by somebody else. "Earnings" of inexplicable billions per year are either a share system illusion or questionable as to morality.
7. Who earns interest of National Debts?
8. One hundred thousand die daily of starvation;  
every seven seconds a child dies due to lack of Vitamin A;  
1 billion have no clean drinking water.
9. In 10 years the world gross domestic product rose 40%.  
In the year 2000, it rose 11% to 7800 Billion Dollars;  
of this 1/3 circled **within** Multi-National Companies, inclusive of "movement" from one "profit center" to another and 1/3 from divers Multi-Nationals to other such. Only 1/3 arising from free world trade.
10. Tax evasion; unemployment - caused mainly by corporations' "efficiency" drive; Globalisation; World Bank; Tax havens; Drugs; Gambling; Depression; Suicides.
11. WTO : Trade **Restrictions** : mass uproar.

The systematic (devilishly clever) effect on the vast majority of mankind is "organised":

- hunting for a job,
  - for money,
  - the fear motivation behind insurance,
  - fear:
    - of sickness (which can induce sickness)
    - of loosing "position",
    - of speaking-up.
12. More and more, any individual effort is based on Government or corporate "Funding". "Research" is directed accordingly. This "directs", and, also de-individualises. "Subsidy Hunters" are a new profession.

### **Overall an effect of De-Individualisation.**

Farmers are affected and many have become fertiliser and chemical, and genetically modified input operators according to dictum; employ contractors; and, are subject to "world economy".

Throughout the Western World a few get richer and richer and the masses poorer and poorer. Calamity. An exception is Malaysia: Dr Mahatir has – consciously – developed the ex-colonial Malaysia in the opposite direction. 30 years ago 70% of wealth was in the hands of a British introduced minority of Chinese and Indian traders and bureaucrats. The majority indigenous population's educational level was greatly raised, and opportunity to newly created wealth made available. Wealth was "redistributed", not taken away creating further racial problems. - Mahatir

is conscious of the West's problem of a few getting richer and the many poorer.

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The question arises: How has it come to such mis-management of Earth's environment and resources, and why has Earth become an untenable abode for the vast majority of our fellow man?

Certainly, wonder and respect for the incredibly refined designs of Nature are at a low point.

To the average acceptance, "Science" has evolved enormously.

**Classic** Natural Science arose as a branch of Philosophy, and as such, provides **KNOWLEDGE** of Creation. To establish knowledge there had to be a recognised methodicity of gaining knowledge, based on real **observation**, which could be put to a process of examination and understanding via human thinking; finalising with a concept. Theory of Knowledge or Epistemology. Classic science is still used today in areas such as botany, zoology, archeology etc.

A second type of science has evolved in more recent times. This has happened gradually, almost unnoticed, and often mixed with classical science. Maybe so, because in the same period Philosophy has lost focus and therewith methodical accountability was overlooked.

This second type of science would have to be named **hypothetical**, as it commences with a "**working hypothesis**", which is eventually tested by **statistical "evidence"**. In a strict sense knowledge is not required. For example, Thalidomide, many modern drugs and agricultural chemicals are NOT "scientifically understood". Doctors do not know the drug they prescribe and are requested to report as to **side effects**. (The power of Drug Corporations(!)) If the after effects of Thalidomide had been understood, this drug and many others would never have been used. How many **wonder** drugs have vanished after two years, or been "updated" with even "better" ones?

Medicine today has no concept of **Health** comparable to Bio-Dynamics as "Builder of Health and not Healer of Sickness". (The public demands a quick fix.)

Hypothetic science, again almost unnoticed, overlaps in many ways with vast modern engineering developments and skills (morally and amorally utilised). Mankind proceeded a huge step with the creation of a self propelling motor: a very useful tool as such. In essence, a motor is almost like an independent, biologically functioning entity. Man's capacity to develop such - accompanied at the same time by a gradual loss of

appreciation for Creation's real, **living organisations** such as plants, animals and man - and "science's" research focus to smaller and smaller parts, brought the need for "new organisation". The skill to make engines (using "parts") was turned to creating hypothetical "models" using these parts – now utilized to "understand" the functioning of the **real** biological entities of Creation, ie superimposed on these.

The fact that modern engineering skills developed rockets etc. of enormous power - and the mixture of "science" with this – also contributed to a general "acceptance" of "science" (a demi-god).

Man's genome has been laid bare. We all are made of up to 99.9% of identical genes (a tautology). Yet it is assumed that a child is "made up" of the genes of the parents. The model mentality does not credit soul or individuality.

Technical skills have brought new breeding techniques; gene transplanted even across kingdoms – eventual effects await statistical evidence. And cloning. Those involved in cloning Dolly warned the most realistically against human cloning, being aware of the large number of miscreants to put together one Dolly. How will the mother feel?

- In fact, no **new** creature has so been developed – as was the case with the test tube Homunculus in Goethe's Faust. -

Dolly looks like a sheep, but there are "unnatural" traits. For one, the aging process is too fast. The mechanical gene based "explanation" refers to the age of the sheep "parent".

In Bio-Dynamics (see Bio-Dynamic Introductory Lectures Volume 1, Lecture 3) we understand, have evidence and successfully work with, differing existence levels of plants, animals and man, quite apart from the physical base (akin to "genes"). The life-forces organisation of plant and animal is recognised to have a "time" effect. Has Dolly a Life Force Organisation?

Recently serious after effects of the long time hormone replacement therapy used in menopause became apparent – statistically. We are guinea pigs.

Technical skills (cost savings) have been evolved to synthesise, for instance, hormones. "Science" has "made" these drugs and therefore can claim to "understand" them. Yet, as machine-model "thinking" does not know or credit the existence of life forces, there is no understanding that hormones are more than a conglomeration of physical substances - namely, **are** life forces and will act accordingly. Chromatography tests have shown that synthetic vitamins are NOT identical with the natural counterpart. To assume that they are identical from the physical data approach, which **has** to state that they are, is deceit.

In classical science man **was** involved in the process of gaining knowledge. In hypothetical science the participation of man is strictly banned as "results" would become "subjective". (In fact, to date, man has

been present in “directing” research. This role may eventually be taken over by computers.)

Hypothetical science **poses** to exclude human “subjectivity” in its “methodicity”. **Therefore essential knowledge and overview, accessible only to man, is denied.** This is mechanical “intelligence” running amock and, wide scale Thalidomide type results may succeed further in devastating Earth.

“Science”, principally without man, denies man even access to question critically – however uneasy many citizens may “feel”.

**This therefore is in fact: devilishly intelligent,  
organised stupidification of man.**

Again, de-individualisation.

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For once, this first part of a Bio-Dynamic lecture is negative. We are unable to do much about the situation discussed in a direct way. The task is, however, to be consciously aware of the manifold manifestations and power of this system, and where and how it affects us all.

With Bio-Dynamics we are fortunate to have a positive work area in redeeming an ill Nature aface of a terrible onslaught. We do have to suffer the ever increasing bureaucracy of certification requirements, robbing time for positive advisory and developmental work – especially, bearing in mind the commitment and resulting integrity of our producers, processors and marketers. Yet even this effect has been kept to a minimum by the efficiency of Frances, much aware of the bureaucratic onslaught: **organising**, with what is an effective counter intelligence. Organisation is necessary, not bureaucracy.

But, our main operation, the fifty year old Bio-Dynamic Agricultural Association of Australia (BDAAA), the advisory and development organisation (which “certification businesses” do not have) has remained free from any bureaucratic imposition, with the exception of the \$A100 annual subscription being subject to a 10% GST tax. Originally I constituted the Structure and Statutes of the BDAAA, the Bio-Dynamic Research Institute (BDRI) and the Bio-Dynamic Marketing Company (BDMC), with philosophical clarity, and an old time honourable and capable lawyer, with enjoyment in these intentions, formulated them into legal terminology.

Both the BDRI and the BDMC are founded as non-profit companies. By intent they are of a service nature, not profiteers. Provision for fair remuneration exists, but no person can walk away with undue profits. In consequence, BDRI certification costs are very low. And the BDMC can recycle income for Bio-Dynamic developmental purposes.

After decades, last year for the first time, there was an attempted encroachment by the “system” on the status of both the BDRI and the BDMC. The “push” for new “development” areas of the System, be it electronic ear tags in farm animals or taxation, each time arises with the “creative” input of one individual, or, lately, by computer assessment suggestions.

The tax exemption status of the BDRI and BDMC was challenged. The Tax Commissioner was approached as to changes in the assessment of genuine non-profit companies. Both BDRI and BDMC retained their status. This is very, in fact, vitally important.

Before commencing the viewing exercise more intently, some further agricultural observations - as stepping stones.

As you know, modern agricultural science hardly refers even to the word humus, and certainly has no conceptual understanding of this most essential content of soil. Therefore it also has no testing method. An identical ashing method is used for measuring carbon, organic matter or “humus”. - A dead part’s assessment of man can give no information on an individual. The same applies here to the essential life activity typical for humus. (Refer to “Bio-Dynamics Agriculture of the Future”.)

Some 40 years ago I therefore introduced the fork method of demonstrating soil structure and the photographic picture as a comparative means of clearly defining differences. This method has since been taken up by Research Institutes in other countries.

Requirements towards such examination method were:

- to have respect and reverence for soil;
- to recognise philosophically, that no testing method existed, and to recognise the limitation of laboratory mentality. Even Chromas can be used with no more than a “result” mentality, where a direct observation of a living entity would be much more conclusive. (There may be ample microscopic experience of microbes and yet, so insufficient a sense of reality as to screw the lid of a jar containing 500 to airtightness and explosion.);
- above all there would have to be so experienced and real a contact with the total environment of investigation (like the pre-embryonic call in a Beethoven towards the eventual Symphony) that the search, as yet barely recognisable, is guided by a realistic (not hypothetical) instinct – fantasy. (“Law” is not only a legislative fixture; there is a “sense” for right, often correctly anticipated.)

Instinctive reverence of the vast and so obvious intelligence in the organisation of Nature, soil, plant, animal has been acknowledged by aged biologists, who, in younger days, “automatically” accepted a mechanical model mentality.

To the earlier discussion on the overall materialistic onslaught we face has to be added the almost continuous warring and murdering in so many areas. I have asked myself since childhood: What has changed since Christ?

Certainly with some cultures the once paramount **Blood Revenge** has changed to the ideal of **Forgiveness**. The resultant change to objective administration of **law** in place of personal retribution is lagging well behind and Gandhi's "Might is Right" still applies widely. High Courts are not always sufficiently independent from politics (Finance - Materialism).

I have absolute respect for any religion or spiritual endeavor which is consequently professed and practised. Yet, differences become obvious under philosophic and psychological examination. The greatest difference is posed by Monotheism vs Trinity. One God can encourage obedience to highest ideals. In detail, maybe, very demanding and difficult; in essence relatively easy to comprehend.

The Christian concept of three God-heads, each quite independent and at the same time **One** Trinity, still provided a conceptual struggle in 1200 at the school of Chartres and is as "illogical", however true, as is the philosophical foundation of all Christian religions, namely, the *Analogia Entis* (Analogy of Being) – We are like God, but God is not like us, ie unfathomably more.

In this system man has to not just obey laws (old testament), but God the Son opens the possibility to independent Paulinic **experience**.

Paulinic Christianity is open to anyone of any persuasion. Without any Priest; not anymore being a follower of any law; having proceeded through doubt and acquirements, and thus having generated sufficient individual strength to reach to the immaterial Spiritual Power of the third member of the Trinity.

New developmental possibilities. An incalculable help in obtaining the necessary power of individuality to exist meaningfully in the oppression of our times, and, as a Bio-Dynamic farmer.

Again, I **am** at the end of this long preamble – the purpose of which may become apparent – and come to one of our important Bio-Dynamic questions, which in its exercising nature is to provide training for observation methodicity. To give as wide a chance to everyone present, I do not expect an immediate answer to my question from some quick mind, but, initially, only raised arms to indicate those who have an answer.

We shall see how we go.

A "stirring" machine type exists, which does not stir with arms from the top, like hand stirring or our stirring machines, but stirs from the bottom. The stirring vessel is pierced by a shaft in the bottom center and an

impeller or propeller is attached to this at the bottom, which whirls round one way or the other.

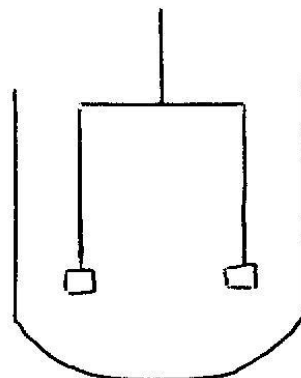
All of you are familiar with the stirring action of our stirring **Instruments**. Many have such large farms that it has not been practical for them to experience hand stirring and the observation potential this provides. But you all have a good picture of the stirring process of the stirring machines we use, which is akin to the hand stirring action. Whoever has hand stirred a lot, will have found out that starting with relatively loose wrist in the center with a quicker, “energetic” arm action, and then - as it were, catching into the developing vortex - with slowing action, timed just beyond the speed of the developing vortex and with very little exertion, quickly a fine vortex is “drawn forth”. (There is some similarity to a potter’s drawing forth a vase – see stirring video.)

The arm commences the vortex in the center and finishes up on the periphery. Importantly, leaving the center bottom of the vortex unimpeded in its drawing power. Like the vortex in an emptying bath tub or the natural vortexes occurring in free flowing streams.

The water in the stirring bowl, activated to a vortex, does not discharge, but rises - in a reverse vortex action – between the outside of the visible vortex in the vessel and the wall of the vessel, to swoosh once more into and down the central vortex. Following Theodor Schwenk’s experimental results, Volume 1 of my Bio-Dynamic Agriculture Introductory Lectures, explains how such vortex is related in its bottom center “drawing point” to the cosmic suction power of the Sun in our solar system; without which our planets, including Earth, would disperse into the universe. Kepler’s First Law.

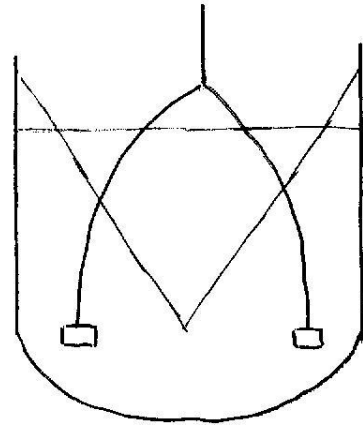
The second of Kepler’s laws pertaining to our solar system refers to the coursing of the planets round the Sun. Near planets move faster, far planets slower, round the Sun. This is also repeated in a vortex. So is Kepler’s third law, pertaining to the zodiac signs. Realistic cosmic music drawn into the vortex (see Lecture 4, Bio-Dynamic Agriculture Introductory Lectures, Volume 1).

Important to our present consideration is, that in hand stirring or stirring with our stirring machine design, the center of the vortex is open and free from any impeding obstruction, which would affect the Sun-Drawing Central Power. Farry Greenwood’s design change to our original rectangular stirring arm shape



Original Design

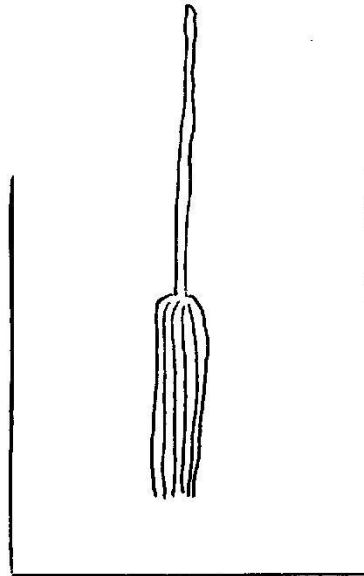
to this:



Farry's Design

aids. The arms, commence to stir more centrally and, as the vortex rises, moving the main action more to the outer, which is akin to the described hand stirring.

The main hand operated stirring set up I found in central Europe is a large wooden tub of some 300 to 400 liters, with a heavy willow type broom attached to the ceiling above. With such implement stirring commences slowly, starting around the **outside** of the vessel – otherwise splashing will occur; whereas commencing with central stirring, which I did not see attempted generally, would take exhausting physical effort and be very slow. Once a vortex is established, a bubbling chaos could not be achieved with such thick broom. In fact, the vortex is slowed down, and, in time, stirring commences slowly in the opposite direction. I was told that, in the one hour, a vortex is achieved in either direction about 30 times. (Pfeiffer recommends 18 seconds stirring time per vortex in one example.)



European Broom Stirring

I found that the method to so commence stirring around the periphery, had accustomed and fixed minds so that even arm stirrers (akin to our hand stirring) commenced stirring along the outside of the vessel.

Both, in the case of the broom stirring and this type hand stirring, the stirring actions commenced outside and of needs slowly, ie not “energetically” for quite a while.

Then, to develop a deep vortex, stirring had to accelerate more and more, and with vastly increasing speed and effort. In the center of the vortex, actually audibly, **bashing** round the bottom inerts of the vortex, ie not allowing the center suction Sunlikeness free expression, and quasi **forcing** the vortex up the sides.

It was amazing that truly experienced and practical, hand stirring peasants continued in this fashion. When shown how effortless and quick



a beautiful vortex “happens” when encouraging the vortex to start inside, with hand, loose wrist and arm, and then moving more and more to the vortex outer, whilst drawing the vortex, just ahead of vortex speed to the final suctional center: Everyone was amazed.

With a little concentration it is easy to intellectually follow the process just described.

However, to initially recognise and formulate such stirring conceptually, the entire process has to be **visualised**. More than brief intellectual concentration is required. Namely the kind of artistic act of holistically seeing the particular stirring motion – which, some might consider a “subjective” deed. And, at the **same** time, step by step and as one(!), being guided and aware of what **only** in the given physical situation of water fluidity and of vessel shape, **could** evolve.

I described the **exactness** of such methodicity in my book “Active Perception”. In this book, however, I use the handwriting exercise as a stepladder to active perception. In the present situation a further effort is required. Namely, the subjective-objective, **exact visualising** of how only this vortex can happen in the given situation. Each has to, so to say, create the stepladder provided by the writings in ‘Active Perception’.

Creative farmer-engineers have used this holistic method in creating necessary, non-existing, mechanical agricultural **instruments**.

Essential understanding of entire processes can occur. Such holistic visualising also provides understanding of where components (like water in stirring) belong in interaction with others, thus guiding the understanding and purpose and substantiality of parts.

The prime agricultural example of a fundamental act of holistic visualising, eventually leading to objective conscious understanding of how a plant should be fed: namely through minerals encased in humus colloids, and under direction of the Sun and not through “soluble” elements in the water of the soil with unguided nutrient intake, causing disease etc; is described in Volume 1, Lecture 1 of “Bio-Dynamic Agriculture Introductory Lectures”, and in “Bio-Dynamics Agriculture of the Future”.

**The process, there detailed, also explains the basic reason for the failings of conventional agricultural science and practices.** Materialism views plants as a mechanical model dependent on a “balanced”, constantly available input of all known major and minor elements in a “useful” ie. water soluble form. The recommended “quantity” of each having been postulated arbitrarily without consideration of **humus, Sun** etc. etc. Thus plants are filled with indiscriminate amounts of elements as the natural dictum of Sunlight is circumnavigated. The excess of nitrogen, for instance, causes methaemoglobanaemia, blue babies, sterility, bloat, and fungal problems. And, as soil humus is discouraged or totally destroyed – because soil biology has become obsolete, being denied the activity of freeing elements into humus – such soil can not hold (in humus colloids) the excess NPK, causing “run off” into

streams, with resulting algae blooms and poisoned water unsuited to humans or animals.

No-one has ever denied the truth of this Lecture 1 content.

To the methodicity. As outlined in Active Perception, each holistically viewed and objectively expressed process, when to be repeated **purposefully**, has first to become an **individualised experience** of the Narrator. Only then will he **represent** this process **livingly**. Namely, to suit the particular audience, circumstances etc. **He** or **She** will represent a **Living Reality** from the basis of an individual human activity, ie. from the spiritual awareness of an independently “standing” Self.

In Austria a leader of a large group and well conversant with Steiner terminology, after the second lecture, expressed his wonder as to from where “my” energy stemmed.

The fact is: where such “Representing” exists it has to be – content wise – of a Living Reality. The Living Reality, so represented, provides the Energy. Living Spirit.

Characteristically: if such all encompassing process is to be just intellectually “repeated” – the repeater will find it difficult not to forget a part of the totality (!). Secondly, the content will not “light up” in listeners as it has flattened out into “information” of parts.

Steiner found it necessary to authorise lecturers to represent contents originating from himself. – Farry Greenwood once addressed a smug crowd of 400 conventional farmers in Bendigo. One grinning front-bencher initially challenged him to “tell how this Bio-Dynamics works”. Farry fired back “tell me how your systems works?” No-one answered. Farry then **represented** the Lecture 1 content, and finally said: “Now I have shown you why your system does not work”. (It had never occurred to me to use it in that telling fashion. He was a great man.)

By these examples we show explicitly the value of holistic viewing and understanding, providing for healthy Bio-Dynamic agriculture contra a materialistic model and data “science”, which destroys soils, water, ecology and has to keep “plants” “alive” with chemicals.

In the understanding of stirring and stirring procedures, and comparing the effectiveness of different stirring methods, we consequently do not follow the conventional path of comparative trials of one method with others, but continue to visualise stirring processes as a first step.

Comparative evaluation of various stirring procedures along conventional principles, even if testing methods such as chromatography or crystallisation are used, is extremely difficult to assess. The same applies in testing individual compost preparations. The purpose of the

latter is to work together and effect compost or soil development as only wide acreage long term Bio-Dynamic results can demonstrate.

Stirred 500, (explained in Volume 1) begins to lose power after completion of stirring and should ideally be sprayed out in an hour. (For oxygen increase details, refer to Bio-Dynamic Agriculture Introductory Lectures, Volume 1, Lecture 4.) With the Schwenk water test the control water, once used, can not be used again. It has become kind of tired just from drops causing circles in a petri dish. To just “test” 500 water is inconclusive without a great deal of experience in assessing. We have used chromas of the 500 liquid and monitored the variously stirred 500 on soil and plant effect over time. Long time effectiveness on converting soils, causing soil development and typical Bio-Dynamic upper plant expression, is the real evidence.

So: What happens in the stirring bowl with activation from the bottom of the bowl, which is pierced by a shaft?

An: Pause.

Alex: What sort of vortex will come about?

An: A vortex in reverse.

Alex: Will it have a vortex shape?

An: Variable talk.

Alex: Lets give Ron a chance.

Ron: I am probably wrong...

(Alex: Stand up so they can hear you.)

Ron: “I’m thinking that the water is collapsing in on itself instead of being thrown out.”

Alex: We are not to “think”, we are to **visualise**. First of all the impeller is starting at the bottom of the water filled bowl. Will it make a vortex as we know it in the action of our stirring machines or not?

An: Manifold “No”.

Alex: Does anyone “think” that it will make a vortex?

An: Eventually.

Alex: A vortex which looks the same as ours? I mean just as far as the shape is concerned.

An: No.

Alex: Yes it does – eventually. It is a matter of power to push the water up. If there is enough power, in the end, there will be something that, if a comparative photograph (static picture evidence!) were taken, would look like a vortex (!).

Alex: But what is different?

An: Time.

Alex: Time is slower, but that is not yet an answer.

Alex: What is different?

An: The movement of water.

Alex: Ah, but that alone is not enough.

An: The water is being forced up, not down.

Alex: Right. As stated, important with our vortices is, similar to vortices in creeks or in a bath, that the water circles down naturally in and into the vortex. And, in correct hand or machine stirring, water is **not forced**, but kind of aided. Whereas, with hand stirring or broom stirring (from outside in) ending with **bashing** in the vortex bottom-center, it is forcefully pushed up.

With bottom impeller stirring, water is even more forcefully pushed up **against its natural flow** and against gravity. (Creeks do not flow up hill, but water ambles down.)

The unforced, natural vortex, stirred so that towards completion of the vortex formation the center bottom is totally free of obstruction (hand or broom), and the Sun replica **drawing** action occurs unimpeded, does not happen at all with an impeller activator. The water is forced up. It is liquid and not pottery clay. Its weight – in consideration of the power push – brings the need for it to lean against something, namely the walls of the bowl. It is forced into a kind of stagnancy. The important, natural downward acting vortex flow, calling in the cosmic music (Sun, planets, zodiac) does not evolve, neither a reverse vortex.

And, most importantly, what happens right in the bottom center – where the “draw” flows out – where, there is, not a broom or a hand impeding, but a “pushing” impeller directly working in opposition? The Sun has been exploded.

Alex: And, what happens when, eventually, such vortex is formed, and when a chaos should follow?

An: A long pause.

Phillip Bartholomew: It just **collapses** (indicated with demonstrative arm movement!)

Alex: Ah! Perfect. That is **seen** by Phillip. Visualised, exactly in accordance with what is the purpose of this exercising. The forcefully cramped up water, collapses and drops quicker than a naturally flowing vortex - and a proper, meaningful chaos does not come about.

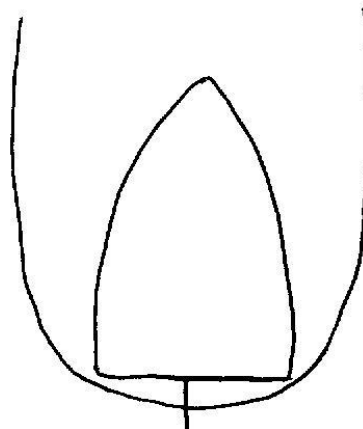
With our stirring machines – the reverse stirring, in conjunction with a proper chaos, commences at the **top**. With the impeller **mixer** (like a kitchen mixer), the reverse action starts at the bottom. No “milky-way like” chaos occurs (viz. stirring machine video), but a bubbling noise from the bottom, like a washing machine. And, gradually, gradually the water is pushed up into a vortex again.

Impeller designs could vary, to push the water up centrally, or to push it downwards and force it up the sides.

An Italian stirring machine maker (he makes our type machines), a professional engineer, not a farmer, came up with a variation.

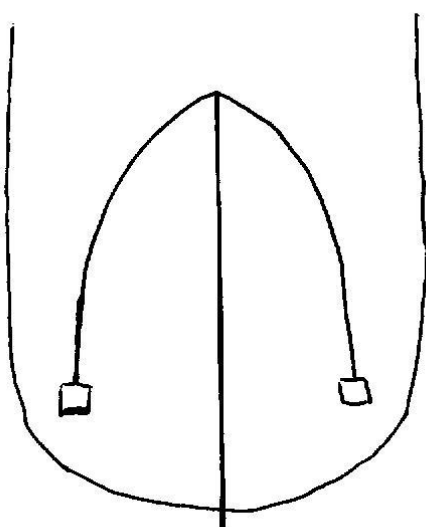
Stirring with a bottom shaft, directly coupled to a motor, not with an impeller, but a straight bar, and to this, were added, stirring arms akin to Farry’s design.

Such design still has the problem of causing ongoing disturbance in the center bottom, impairing the vital openness for the Sun-like center draw point of the vortex and would equally disturb a reverse vortex flow. At the same time our stirring arms would, to a degree, activate a natural vortex. One would work against the other, making the overall action unsuitable.



Italian Design

In another stirring design the central shaft reaches the height from where our stirring arms are suspended. Negative is only the central shaft, affecting the necessary total open freedom for the central suction Sun action. This set up loses, but is easily the best alternative to our ideal design, which, since the original model, has become more and more encumbered by pulley size, pulley mounting arm, "safety requirements" etc. The openness of the bowl to cosmic activity becomes impaired. Due to all of this, some effectiveness has been lost.



Central Shaft From Base

Correctly made hydraulic machines are more expensive, but avoid most of the clutter.

On larger properties two to eight 60 gallon stirring machines are used. Their design requires only one doubled-up pulley each and is nearest to the original design.

John Wilkes designed the Flow Forms. The pearling action, kind of spiraling down from dish to dish, upgrades and aerates water, somewhat like the spiraling in natural flows. (Which purifies and enlivens denatured water, in a manner similar to that shown in "Bio-Dynamic Agriculture Introductory Lectures", Volume 1, using pictures taken from "Sensitive Chaos" by Theodor Schwenk.) Several flow form units, operating in line, can purify a household septic tank discharge successfully.

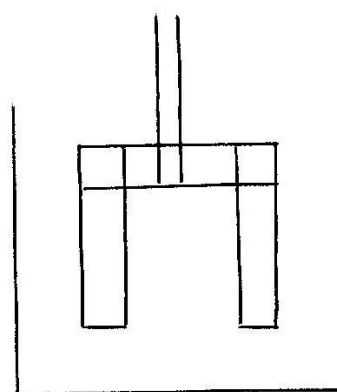
The flow forms were not designed to **stir** and **activate** 500 "energetically".

However, a 400 litre flow form stirring unit has been reported on. (John Bradshaw worked out the details on this.) The set up is: A 400 litre tank. Water pumped to the top of the flow forms. The given volume of

water flowing at any one time from top to bottom of flow forms is rated at 20 seconds duration and returned into the tank. At that rate, and with a volume of 400 litres, the total volume would pass down the flow forms three times per hour, ie. ONE minute in total. There would be no total volume stirring or total volume change increasing oxygen content, changes in sound and splashing and overall activation. The spiraling in the dishes is far removed from a proper vortex formation (Sun, planets, zodiac effects), and importantly, no chaos occurs at all. This would therefore be unacceptable to Australian DEMETER Bio-Dynamic Standards.

500 is involved in all these stirring methods. Even when not activated by energetic stirring, some biological effects may exist. 500 thus applied may become an organic soil digester (like the Fladen preparation or Pfeiffer's soil spray). Under Australian DEMETER Bio-Dynamic Standards maximum effectiveness is sought.

In France a stirring machine exists, admirably made entirely from wood, even the pulleys. But the stirring arms, of needs, are far too heavy and wide, stirring very slowly or the water would splash out, ie. far from stirring "energetically". No chaos is possible as the paddles have to stop the water and to restart slowly in the opposite direction – otherwise half the water would be splashed out.



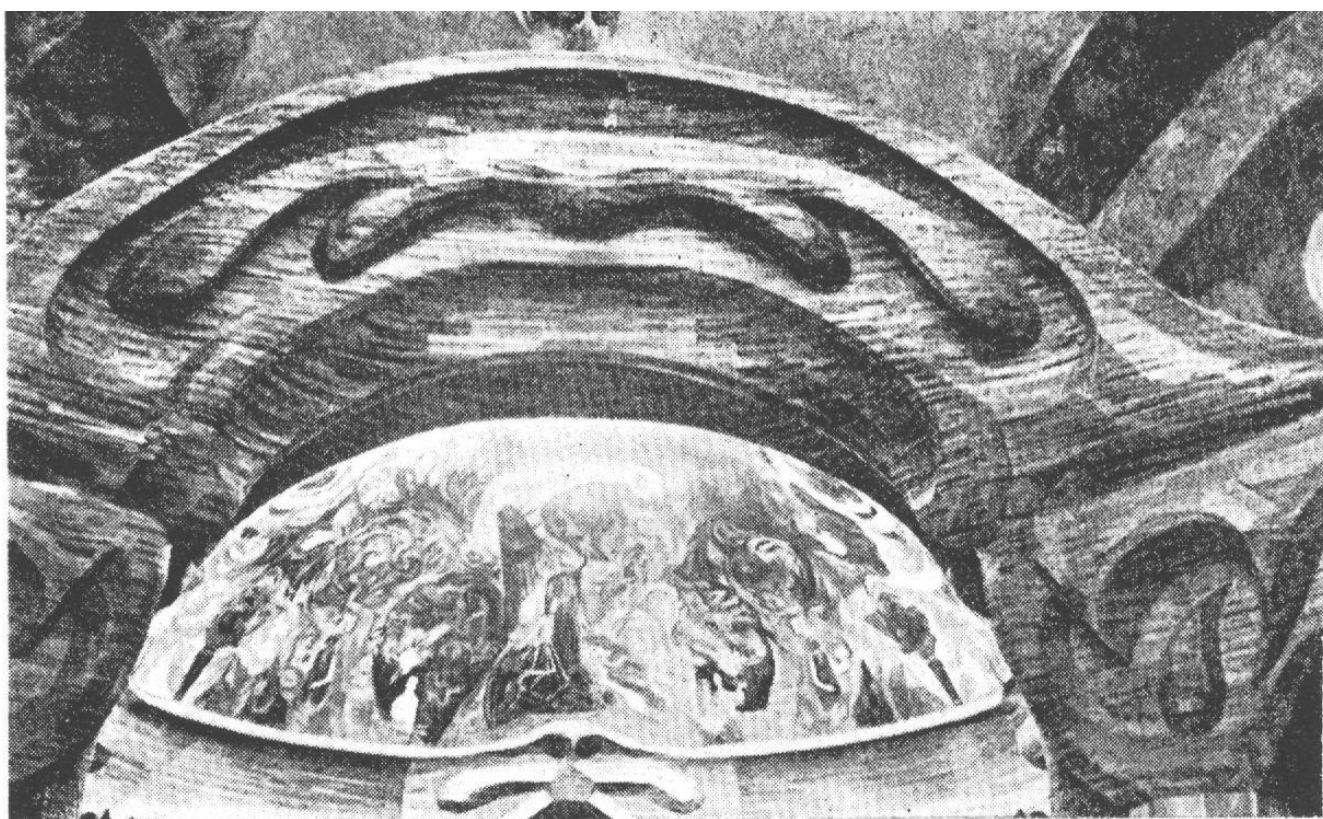
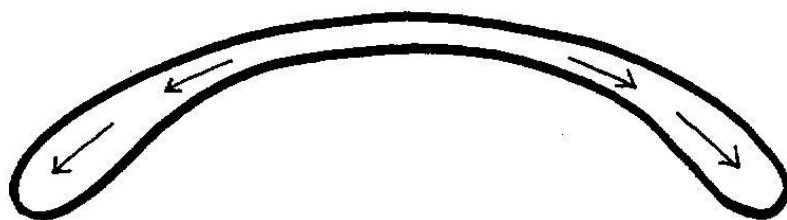
French Wooden Machine

Steiner's insistence of "energetic" stirring was not followed in central Europe, because – design wise and technically – broom stirring does not make this possible. In the after effect such slow stirring established itself in minds generally as the desirable. So no one took note of the built in slowness of the above French design.

There was much expression of surprise by really practical European farmers upon demonstration of our hand stirring technique - commencing faster, with loose wrist, exerting very little strength and no "splashing", and when a small vortex, occupying the central quarter of the vortex diameter had started, the hand and arm subsequently following the vortex with slower motion, just ahead of vortex speed and "drawing" to a full vortex in seconds and with minute "effort". "So fast"... "So easy" to do. Actually the speed is not so great but it certainly is energetic. The other stirring was just extra slow.

In viewing these varying stirring principles attention has been drawn to both the "energetic" stirring Steiner demanded and to some "forced" stirring procedures. Mentioned also was the **surprise** to all those practical and experienced farmers, as to how "easy and effortless" hand stirring can be. What is the background to this ease and effortlessness?

Anyone who has attended modeling classes and has modeled the four physical elements and the four etheric counterparts – warmth, light, liquidity and life ether – as also discussed and shown photographically in “Active Perception” - gained an experience of the “weightlessness” of “liquidity” and the architectural forming force of light ether, demonstrated in the arrowed triangle and the depicted building facade. In this book pictures from the interior of the first Goetheanum are also used as descriptive examples. Of particular importance is the “flow” and the “self carrying weightless suspension” and the visible “movement” – without physical alteration - especially of the central motive, as of other motives. This was also shown with pictures in Lecture 10 pages 91 and 92, Volume 2 Bio-Dynamic Agriculture Introductory Lectures, and pictures are here reproduced, which show this "weightless" flow of liquidity.



The one very typical picture for weightless flowing is the “cut through the Alps”, **showing** (ie. no “theory”) how Earth **was** once more liquid, before firming in the outer crust.



Vertical section of the Alps in the region of the Simplon Pass. Length of the section about 16 miles, depth about 6 miles (after C. Schmidt).

Taken from T. Schwenk's  
“Sensitive Chaos”

When correctly stirring by hand or with our stirring machines a vortex arises effortlessly. We purposefully set our machines to an 85% vortex of the 100% “achievable”. By pushing the water up with a much longer stirring action to 100% - a point where this also becomes **forced** - the “easy” movement flow is firmed to a kind of cramp.

Correct stirring is not solely an activity of the water but also one of liquidity. Liquidity models only acquire that self-carrying weightlessness and motion when not forced into fixed form.

All these formations in the first Goetheanum are in half-relief. They offer to come, and vanish, into wider Ether and to reappear exactly akin to the happenings in the Etheric Realm. This could not happen with independently enclosed separate figures.

With Eurythmy, as performed by Marie Steiner and some others, the physical body lost its weight and was “carried” by etheric movement. Quite different from dance, where soul empowered rhythm impulses.

In physical-etheric stirring; the water acts as carrier for the liquidity vortex, which takes in the referred to cosmic dictum (Volume 1). **But:** It does not “fix” by continuing in the one direction a second longer than to the correct achievement point. It retains only a **fraction** of input into the Chaos’ dispersal action, and to then proceed in the opposite direction.

People “love” watching water movements. Farmers learning to hand stir from inward out were “surprised” at the “ease”. Careful observing may have found **animation** within that “easy” stirring. This may be related to the liquidity vortex (certainly not to H<sub>2</sub>O) and be the reason why stirring water engages observers more intensely than watching other water movements.

Maybe the most important **Life Implanting** action **is** the Chaos. See the milky way – a future planet. Or, see the evolutionary development and dissolving stages in embryonic evolvement. Here, vitally, we have a new human being incarnating. In the science “information” induced common expectation, this new being derives from the parental genes.



The same genes according to which we are all 99.9% identical. Such is quite obviously untenable nonsense.

Even in the observance of six children from the same parents surprising individual differences can be noticed. A science, directed to smallest particles, has lost overview of individuality and influenced mankind accordingly. Science has lost the ability to understand individuality. Whilst there are genes, it is obvious that there must be quite other real influence factors, which somehow incarnate and integrate into the physical particles of man.

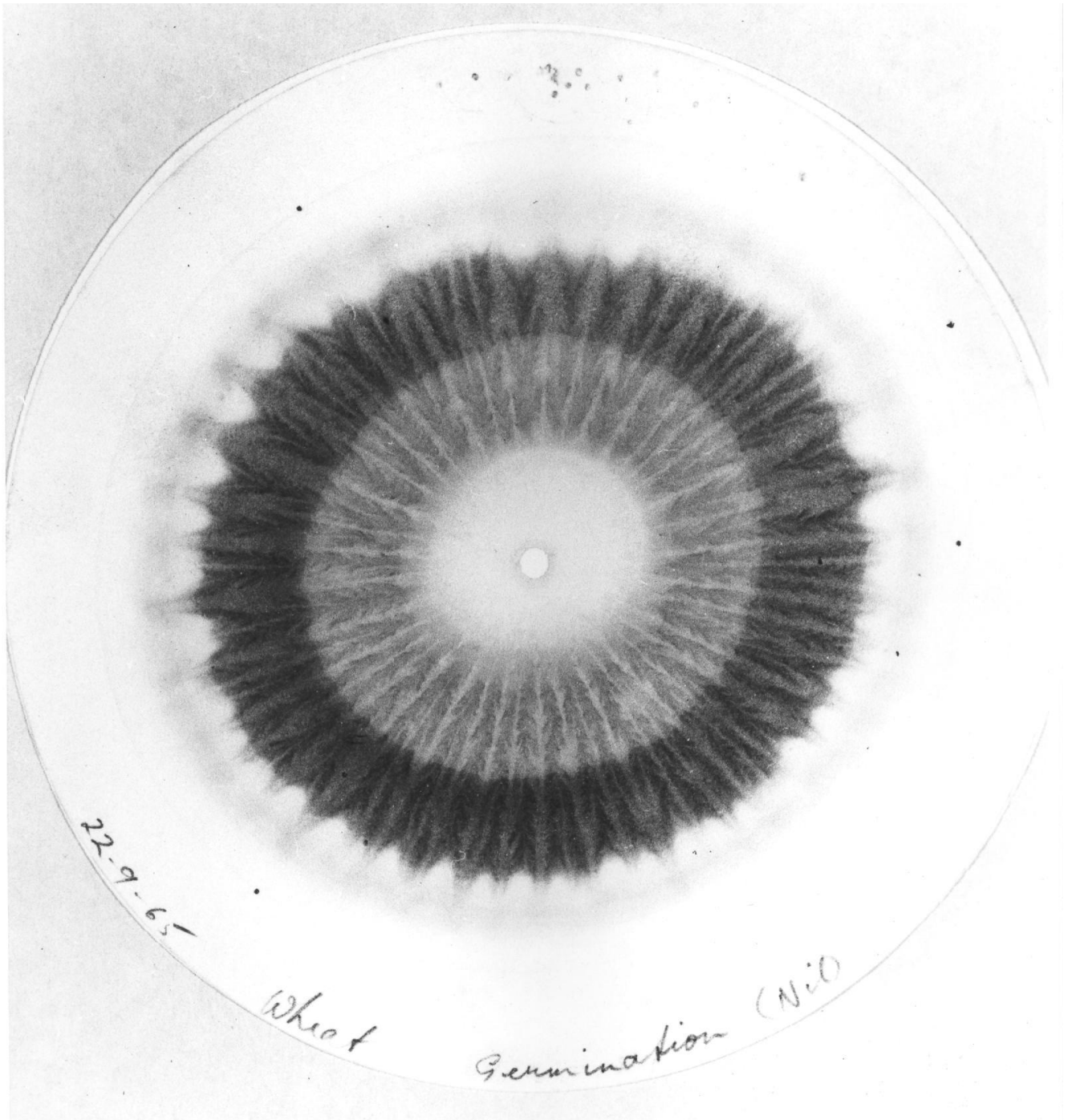
For the obvious incarnation of the other decisive realities; 'Formative Forces Power'; 'Soul' and 'Individuality' – quasi – into the gene base (like into the water during stirring), the **fixation** of the exactly 99.9% identity kit has to be made suitable as a receptacle. This is provided through the Chaos' dissolving of temporally "fixed", already recognisable, human embryonic forming and reforming.

Similar to this is the transubstantiation of cow manure to the active-creative humus 500. A transformation taking place in freezing winter temperatures when bacterial activity is suppressed. – Individuality arises in adversity. – This substance then undergoes the energising vortex/Chaos process. Finally the soil structuring and plant forming Bio-Dynamic power arises as detailed and depicted in "Bio-Dynamics Agriculture of the Future."

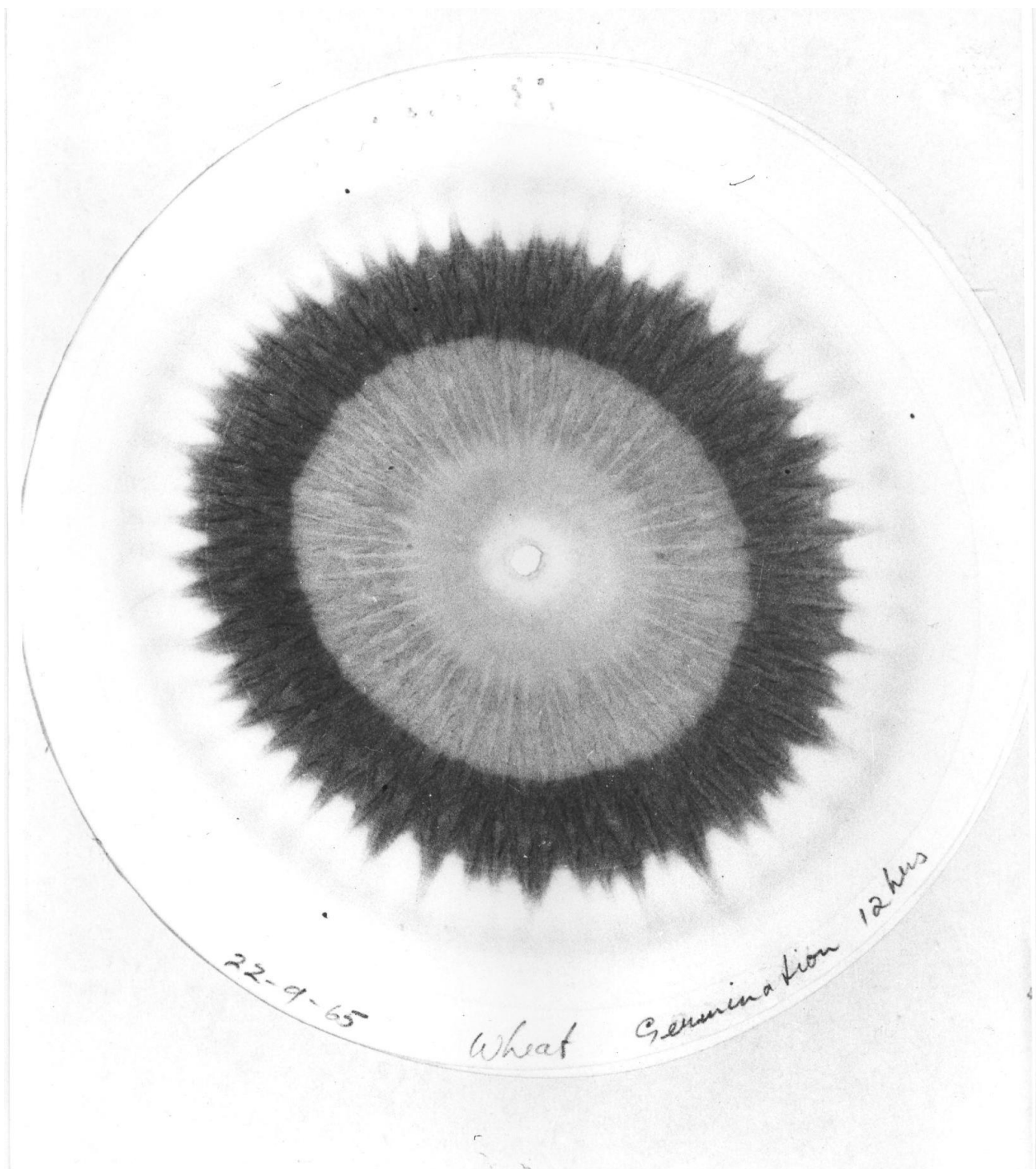
Steiner also referred to a Chaos process in plant seeds. This has been mentioned in Lecture 4 of "Bio-Dynamic Agriculture Introductory Lectures, Volume 1", but essential photographic evidence of chromas is poorly printed. Therefore these pictures are reintroduced here along with a brief description. The methodicity of chromatography, showing not "parts" of a plant, but, holistically, the plant governing formative forces entity, is described in "Bio-Dynamic Agriculture Introductory Lectures", Volume 1, Lecture 3.

Various techniques of plant propagation are in use. Some have ennobled plants, some have weakened the vitality of plants. Roses grown repeatedly from cuttings lose perfume. Using seed opens old plant formation to the dissolving action of Chaos, and to the intake of stimulating newness. Insight into this process is provided by the following chroma series.

Germination of identical seeds commences in Petri dishes. Samples are identically processed and subjected to the chromatographic procedure at varying intervals.

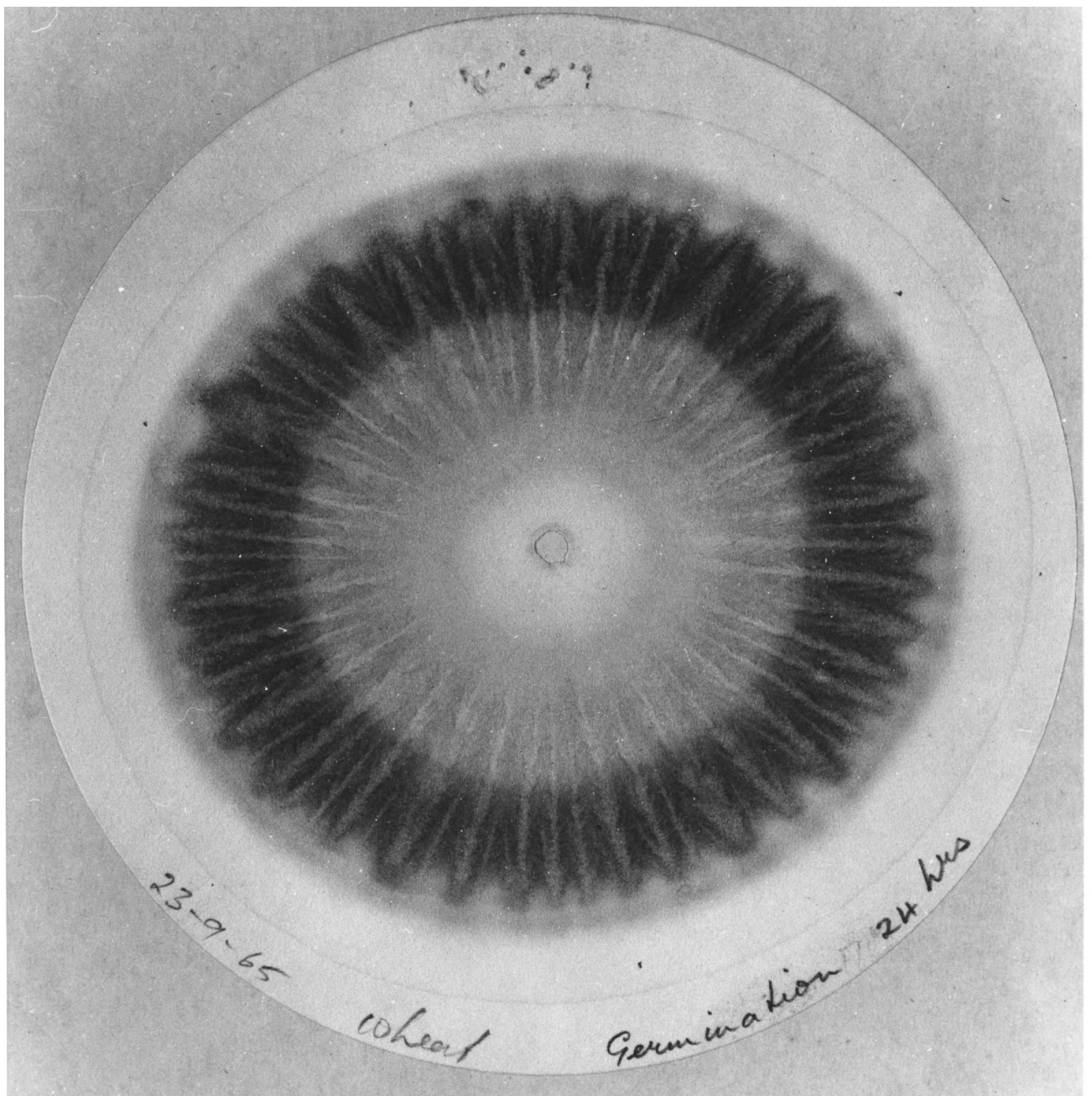


**1. Nil hours:**  
the dry, dormant seed potential is depicted.



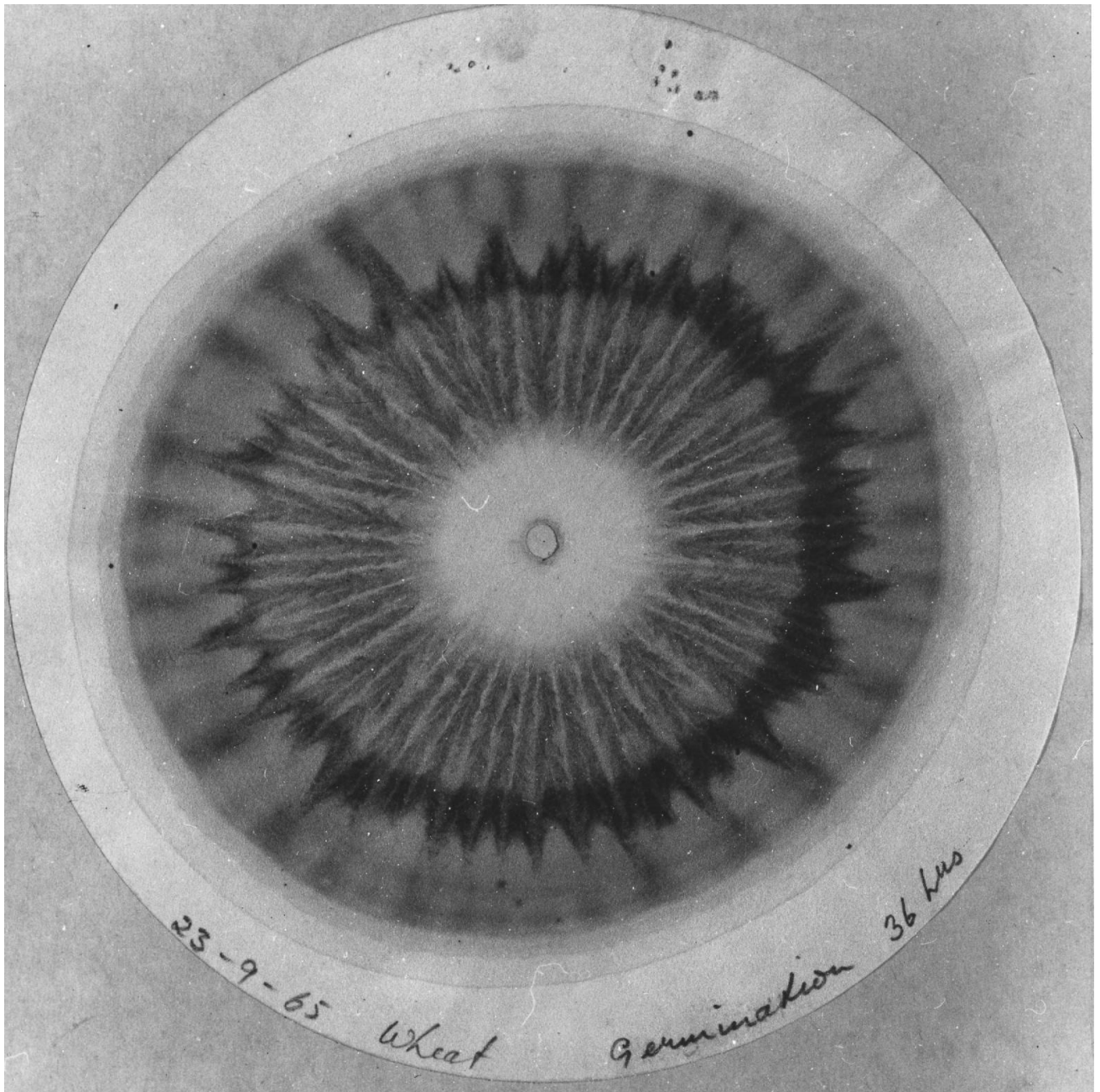
**2. 12 hours:**

the former dormant picture, ie. the dormant seed power is dissolving – akin to fixed, dry pottery clay, requiring wetting and kneading for sculpturing purposes.



### 3. 24 hours:

in the dormant picture 1, the well formed "arrows" are "static", towards the "inner" or "outer". In picture 2, the static strength is dissolving and the colour turns into grey fog. In the 24 hour picture, strong new arrows power from outside deep into the center. A new impulse enters.

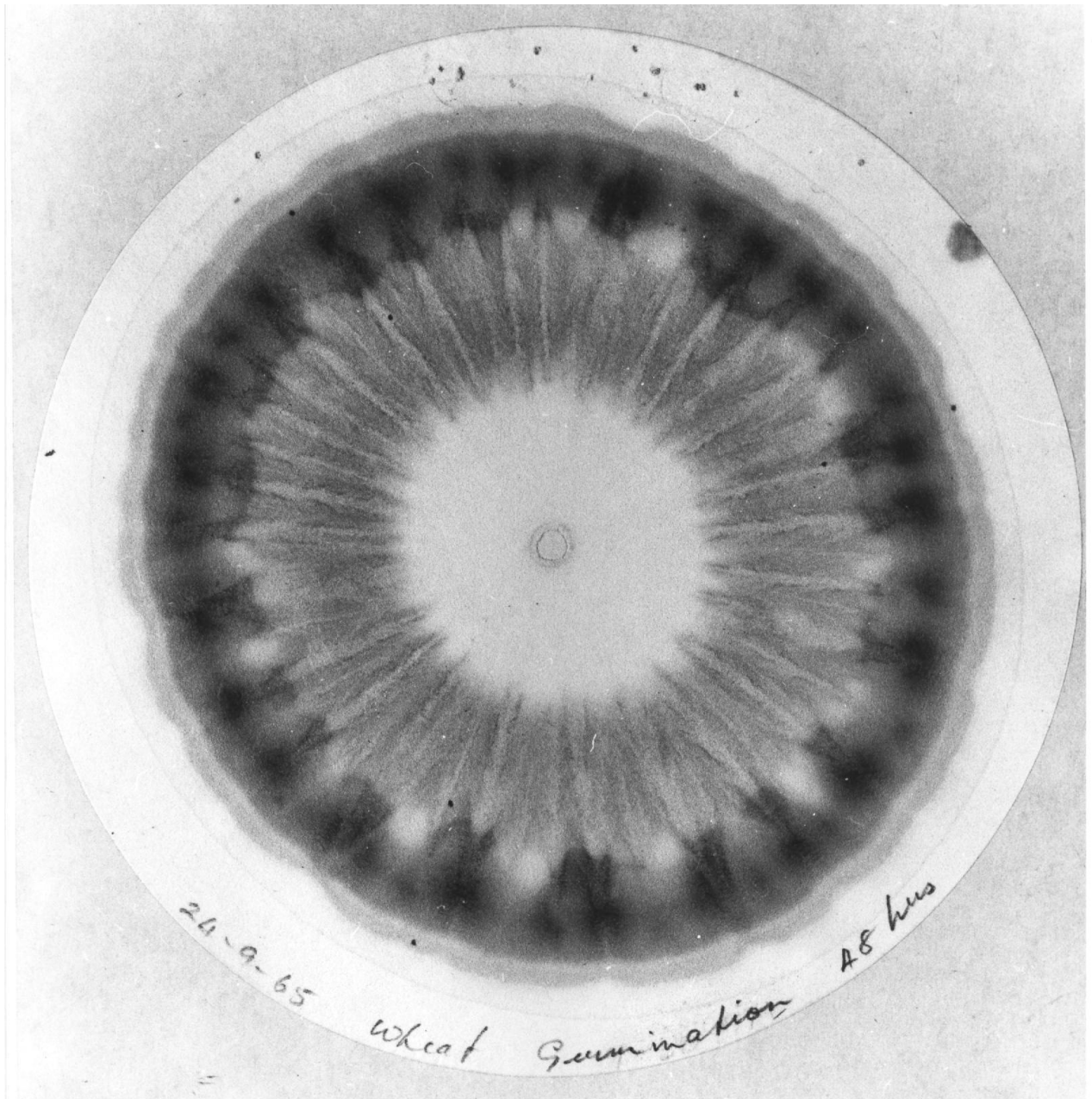


**4. 36 hours:**

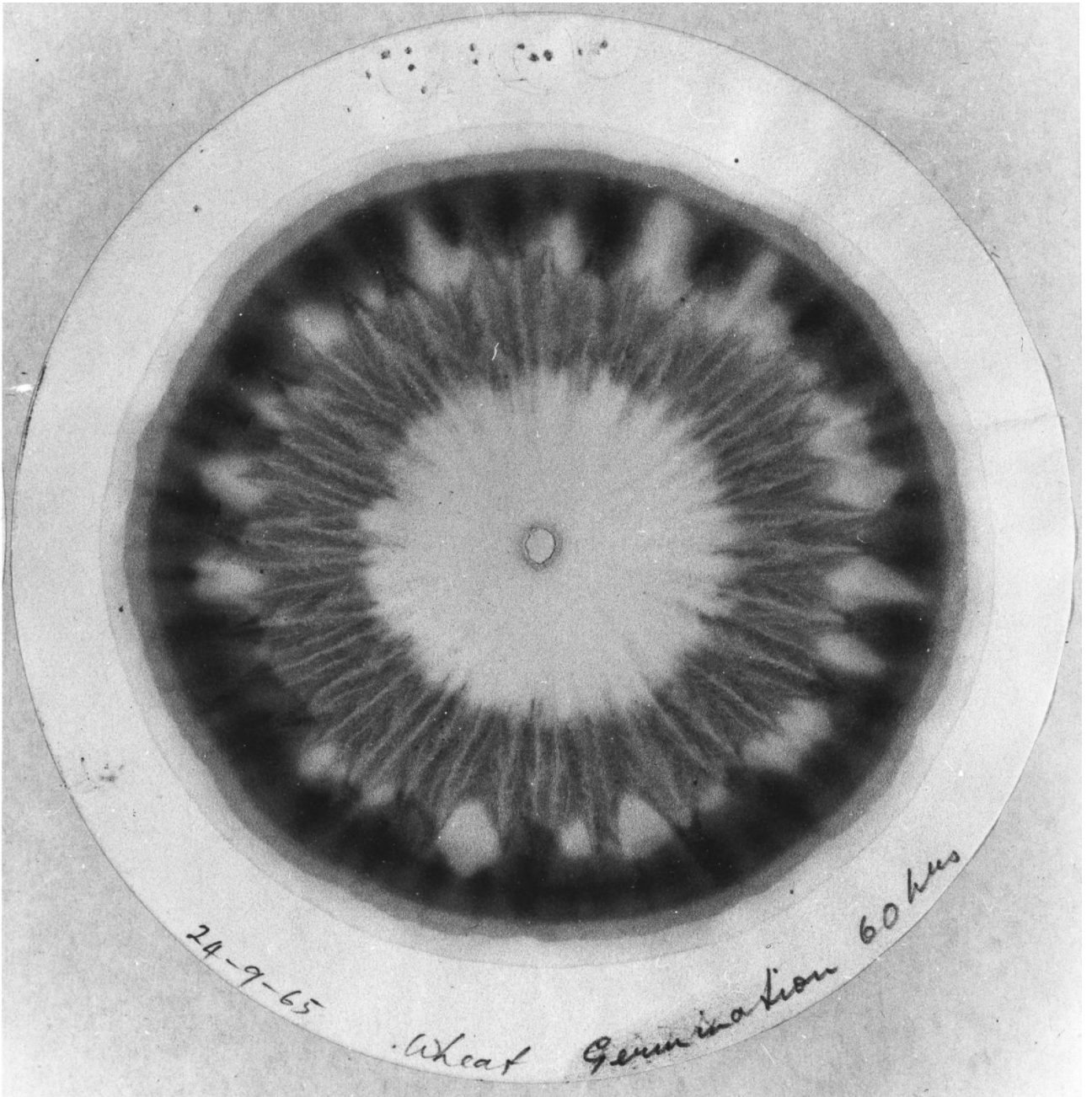
the strong arrow power of the previous chroma has become a newly animated, wider, more "settled" central area than in 1, with some petal formation in the outside rim.

**Chaos took place between 24 and 36 hours.**





**5. 48 hours:**  
like a newly opened flower. A new plant has started.



**6. 60 hours:**  
further evolvement of previous new activity.

In viewing such pictures the eye, accustomed to see static forms, has to become schooled in observing the expression of movement.

In the exercising pursued in this lecture, we have, maybe unnoticed, used three differing methods of viewing. For the sake of purpose and use, clear defining is necessary:

1. The method of viewing the holistic “total image” of handwritings “in and behind” the commonly seen “picture” of single letters or words. This total image is “given” and **exists** within the handwriting, but is only noticed when the “sight” is activated. In ‘Active Perception’, this activity is pursued in exact methodicity and it is shown how the human soul capacity of **WILL** is engaged. Thinking is not used.
2. In answer to the question regarding vortex formation when stirring by propeller from the bottom of the bowl, an additional effect to activating the sight to become aware of the image behind the writing picture of number 1, is required. The image part is not “given” but has to be established to equal **objectivity** of the image of number 1.

Given and familiar is the stirring bowl, the consistency of water and a propelling action of sufficient power and design to move the water adequately, and, as a kind of given picture, the outline of a desirable vortex.

To answer the question, one has to visualise an adequate propeller in motion and then to **accurately**, yet kind of **creatively** (the “objective-subjective” of Active Perception!) view, how **only** the water can move when being pushed from the bottom, with particular consistency, and, weighing heavily ie needing to lean against, and being limited by, the stirring bowl walls.

Sufficient propelling power and design available, the water will be pushed up, from the center upwards, and will lean against the walls and a vortex form will appear. But, in which direction will the water flow? It is easy to “see” that it would be pushed in the opposite direction to the natural vortex flow. Not so easy to “see”, initially, is the objective-subjective total happening, of such vortex formation.

The objective part of power propulsion, water, and bowl walls, is obvious, however **unusual** the approach to **so view this together**, ie as one process action.

But what about the “subjective” **creation** of **accurately visualising** the actual movement of the water to form a vortex in the, quasi-given objective mechanical circumstances.

What capacity of man is engaged to objectively “create” that vortex, (which, superficially considered, is shaped like a natural vortex). - The unequaled beauty of the slow movements of Mozart’s piano Sonatas or



Concerts requires greatest human feeling, and sensitivity qualities and touch, for a performance near or equal to the most powerful **reality** of Mozart's **creations**. When so performed Mozart **inspires**. -

The human faculty to subjective-objectively create the questioned vortex motion is also based - as "material" - on the **sensing** refinement of **FEELING**. This vortex is not fabricated out of mechanical parts, but **visualised** – as one – by the creativity of human feeling engaged in one holistic action. It is inspiring to the researcher, and momentarily "relieves" other questioners, who did not make it, and who recognise the **truth** of what becomes obvious immediately - as a reverse vortex flow.

3. The third method of viewing, by contrast, is easy to describe as such – open to intellectual information style. But it is all the more demanding to perform. And, whilst accessible to intellectuality as a "method", the solely intellectual capacity - restricted to successive data and to portrayal of "total overlooking" by précis "condensation" – is unable to cope with the true **overall reality** of contents obtained by this viewing method.

The third viewing method **is OVERviewing** per se, **is**, for instance, to **notice** political, economic, agricultural scientific etc. proceedings, to become aware of their effects, pressures, oppressions, greed, destructiveness, de-individualisation tendency. To, equally, see what is positive and good and to represent it.

Philosophers, creative writers, artists and scientists contributed with such overlooking, also referred to as **INTUITION**.

This method does not see the image in a given picture (1), nor draws up an objective vortex (2). It **notices** and **draws** together **totalities** of essential factors, generally overlooked as such, and expresses them with almost poetic simplicity, bringing **essentials** to light, which can become a-wakening (Waclav Havel, Gerhard Kienle, H.U Albonico, M. Leunig).

In this third viewing method **THINKING** is used, not as actual thinking for a **result**, but as a means of **observing**. - Without the "personal" activity of thinking being **occupied** and **filled**. Thinking, suitably **EMPTY**, **visits** over a wide area, factor after factor **observingly** and **draws** together.

The three methods of viewing, each, have a different basic purpose. They can function singularly, in succession or even somewhat together. (Clarity of methodicity is essential.) Method number three, for instance could not answer the propeller stirring vortex question. The moving vortex can only be "seen" by being developed with feeling sensitivity. Method number 1 can only see a kind of static image behind the given writings.

Using the plant nourishment example of Lecture 1, as an explanatory example: The first contact with this fundamental agricultural reality was made during an early Bio-Dynamic introductory lecture to farmers. Beyond dry, unrelated, scholarship data information of “photosynthesis”, I had, by then, come to “see” light in plant leaves - no more. I was portraying this Sun influence to the Bio-Dynamic audience with the emphasis and concentration of an “experience” content, when (momentarily stunning), exactly between the audience and myself, a moving see-through picture arose: Soil; plant with biology and liquids in action and flowing up the roots and leaves; Sunlight raying down and crystallising into leaves and downwards, ie a motion picture of total Earth, plant, cosmos happening; and through it, in the background, the audience still visible. I stopped, breathlessly looked, but then had to continue the lecture. I did not **seek** such motion picture – as I questioned you to concentrate on the motion of that vortex – but, I was very concentrated and an inspirational overview of this important functioning Reality was received.

It took a further three years, and, in the final instance, the “extra” concentration required to counter the aggressive director of an agricultural college, to achieve the **objectivity** portrayed in Lecture 1. This was undertaken by the holistic **overviewing** of all factors – by thinking.

Important contents were all acquired by such viewing.

In recent lectures attention was drawn to “glow” on soils, especially a noticeable purple glow. Originally this was associated with basalt soils, and surprisingly noticeable on black basalt or the drained Koo-Wee-Rup swamp soil of Benham’s (in comparison to the black, but “dry”, bland, neighbouring soils).

In the “Soil Conversion” video, the Bio-Dynamic conversion of Nick Scott’s white-yellow clay soil near Mansfield is depicted in three stages. After three years of Bio-Dynamics the white clay had developed the typical dark humus and well structured appearance. Another part, with only two years conversion (Picture 1), shows similar, but less developed, soil. Whereas in the portion of only one year Bio-Dynamic treatment (Picture 2), the tight yellow clay shows no Bio-Dynamic structure or darkening as yet, but clearly visible on the soil profile (being like an artist’s canvas) are wide bands of purple. I say in the video, “as though I had brushed this purple colour onto the canvas”. This is the earliest symptom of Bio-Dynamic development, ie. **before** microbes can be detected (!), but the purple glow (see Benham’s example) can also show up as a final symptom of Bio-Dynamic development. Trevor Hatch: “Yes, I saw that at Benham’s at my final visit before Graham’s passing”.

According to a recent report a group of microbiologists mention the not easy to distinguish border line between life process and discernible

microbial biological activity. The latter requires clear distinction of creatures by a nucleus.

In this report colouration was mentioned as a typical symptom for the life process stage.



**Picture 1:** Two years Bio-Dynamic conversion on tight yellow clay soil.



**Picture 2:** One year conversion - one application of 500.

(This picture is reproduced from a VHS video with the best modern technology available. On the soil profile, shown in the original video picture, bands of rainbow purple appear. In this reproduction the purple somewhat transgressed beyond the original colour bands.)

Conventional (agricultural) science, being model and mechanically oriented, does not consider “Life”. For instance, it does not distinguish between natural decay of Autumn leaves or pastures, which is part of Nature’s process and eventually provides substance for humus, and, of **annihilation** of plants resulting from weedicides. So treated plants (eg. cape weed) become like tissue paper, and are taken out of natural recycling. In the Champagne, for one, where roundup has been used longer and more concentratedly than in Australia, large areas look salt affected. Soils in a wet state are slimy, and when dry, compact extremely hard.

I was fascinated to find the life process stage targeted by these microbiologists. “**LIFE**” has been important to me since childhood and was fundamental to my University thesis. I report on this in the addition to Active Perception (Chapter 3), but will raise it in the context of this lecture and as an opportunity of exercising.

If we **look** at, and **into**, the Essence of “**LIFE**”, the living movement:

Qn: What does life’s essence – as “Life” – indicate about its future?

An: Long silence.

Qn: Life, in essence, is movement, like I, here, move my arm and hand up and down in a wave movement. Where does it go to, where does it end?

An: ...by its intrinsic essence as **motion** it is without end.

Yes. And notice that you did not “think” this, which would be a personal, possibly subjective input, but you **saw** that Life indicates this of **its own**. Also: **If** Life is endless into the future, it is the same from the “becoming” side.

On the car radio, recently, a cosmic researcher of the model-mechanics kind, talking of far distant constellation discoveries, actually spoke of “the end of the universe”. Even he had no concept of “endlessness”.

Throughout the middle ages Philosophy, in Ontology, as in religious foundation searchings, struggled with the “infinite”. This is a philosophically “negative” term, ie. there is no “positive” concept of endlessness, so, in thought “construction” God was proclaimed as infinite.

To have heard **LIFE speak** as to its future or past, widens man’s appreciation of a life process.