

The 2017 General meeting of the biodynamic agricultural association of Australia founded in 1953 and held for the 32nd time at the nearly one hectare building complex of the huge Greenwood orchard. It is strongly evident to us all that this is 'Our venue', turned into a lecture hall, a kitchen and restaurant using biodynamic products members contributed, cooked by members, washed up by members; an area reserved for marketing - bags full supplying annual or ready bd products all in these sheds constructed with the genius creative pursuits of Farry Greenwood who invented many agricultural equipments, implements from cool-stores to modernised secateurs.

We thank Lynton Greenwood and his sister Debby, his son Alex to organise this so successfully all these years... heavy applause... from hundreds of members, although many have apologised to be unable to attend, especially Barry Edwards. I have welcomed many, I have not seen for years. Forgive my loss of sight and other faculties. I watch and register my "losses" as discussed in recent years, inclusive of the loss of the geographic over viewpath to individual farms with that so essential "picture" to the farm. Such good exercise of "active perception" in place of the modern gadgets on the console indicating which roads to take.

Is John Nagorcka here yet? Yes here. And is Peter Medling here? No. I asked him to come although he is quite old because he was a former senior agronomist with the Victorian agricultural dept. and had recognised that I had shown up the existence of a second root system in answering his former colleagues' questioning " what of 500 I buried in a glass preserving jar plants could incorporate, because Justus Von Liebig influenced, suggesting it could only be the humic acid- because of its liquidity - whilst I showed that the entire humic 500 substance was factually taken up by the white hair roots replacing the 500 in the preserving jar. An important fact for us here.

At an earlier occasion, I have expressed my wonder at the loss in Europe of what peasants were still practising in my youth as caring soil treatment. I had further opportunity to research into that at my last two visits to Europe in the past year.

I found that most peasants had no consciousness of their ancient skills. A great exception was the very conscious Swiss peasant Ernst Frischknecht.

He should have retained some influence on an important organic research organisation and saved them from rotary hoeing a too wet heavy clay loam to a two cm sealed top. The "experimental" soil became unsuited for B.D comparisons.

With animals, dogs or cats we find abilities we could not perform as able, encased 'as instincts.' But these abilities are very limited. There certainly is no consciousness associated. Human beings are developed far beyond such instinctive abilities, but these peasants functioned by 'looking' at the soil when cultivated with a single mullboard plough, and perhaps, following with a driven tyne - just at the right moisture state so the "broken" lumps could "break" up further and finally to the single small broken lumps possible like the soil, not "sand" but broken individual lumps like the soil in our 500 pits should be. These heaps of "loose" soil, even after months of no rain, remains moist due to humus colloidity 5 cm down, dry tops, which do not erode even in tropical rain bursts whereas "dusty" soil washes away.

Trevor Hatch agrees, his 500 pit soil particles let flood rain through without washing away. In the comparative tests of Doug Small (Department of agriculture) of 10 BD farms compared to 10 conventional neighbours no minerals or chemicals discharged from BD farms but plenty discharged from the conventional farms. All along this development gives the soil time to break or, it doesn't "look" right to the peasants- it might have been slightly too moist or dry when he ploughed and he will re-plough it a week later across the first direction and the "lumpiness" will look right.

I watched these processes as a child standing there for hours like I watched much else, cooking in the cellar kitchens in hotels or watching carpenters make furniture or doors.

Peasants ploughed at the speed a horse walks many small peasants had no horse but used two cows which also milked and gave added income. They were limited in speed. The plough I have described in an earlier lecture (and filmed) had a long nose, bent down, to open up any type of hardening like a chisel.

In my DVD on Soil cultivation, I show with hand digging how the fork offers cultivation with much less "cutting" than a spade.

The greatest evil that can be done to soil is to make D U S T.

Trevor and I continued this in the film with a chisel plough after using a Ferguson tyne cultivator.

I had started farming in Australia at Wonga Park by using European peasant implements, mowing hay with a hand operated English Mayfield mower with three gears: recognising that for both Biodynamic applications - as single worker per farm in Australia, my work force was limited compared to the workers of a similar sized farm in Europe: that new techniques had to be developed. The money I received for the house I had built in the two years I served the Australian Government was sufficient to buy a 30 C David Brown kerosene tractor. Which could pull a vertical ripper to alleviate the poor clay soil, ripping downhill. Others told me my ripped soil would erode, but it didn't.

I learnt that "broken" soil does not erode (!) and built dams as there was no sweet water on the place. I learnt that both BD had to be suitably mechanised as it was necessary to develop suitable farm mechanisation. The peasant in using his single-phase plough "could" move the width of the cut and the way the plough would lead to breakability. Soil has natural breaks if allowed to be cultivated slowly with time to break instead of being cut or made to dust by a disk, the farmer has to be very gentle and observant.

There was no possibility for the peasants using the implements then available to break the soil by ploughing faster than a horse walks or using a disk or rotary hoe to make the dreaded dust.

Broken soil never erodes. That is why the soils of that time remained as nature had designed. Minerals were made available as I discuss with the 400 metre volcanic hill example. The millions of tones of humus soil that eroded into the sea from the wheat soils of the United States Pfeiffer and others reported as "lost" could only erode because soils in the mid-west were the first where tractors using 4, 6, or 8 mulboards or disk ploughs too fast compared to a single mullboard drawn at 4 km where I have seen soil "thrown" by mullboards 80 centimetres and even 1 m- making D U S T.

The very caring old-type peasant guiding the large BD organisation La Colina (near Modena) demonstrated chisel ploughing at a field day, pulling the plough with a 100 horse power Fiat tractor. He had ploughed half the field the day before and claimed that this was done at the same 4 km speed as he was demonstrating the ploughing to us. But I could see from curled up moist clay particles made by pressure against the tynes that he had ploughed at probably double the speed the day before. Confronted with this evidence this man of gold cried (to my heartbreak, he is so wonderful a man) realising what he had done. So easy to any one of us to be tempted to destroy using a big tractor.

The historic situation was: Peasants had no **consciousness** of their old methods. They performed per “sight”.

In Germany where Hitler took over in 1933 so called “winter schools” for training young peasant sons were started. Many of my peasant friends had to attend. Fertilisers and tractors were introduced to them. A terrific experience for the young peasants to push plants with fertilisers growing “more” easily.

And their parents could only lament the loss of flavour in potatoes and other vegetables and fruits but not understand “why” this happened. And professional peasant advisors, doctors of agriculture appeared with the power of a German Herr Doctor bureaucrat and with an overall financial influence.

Money equally influenced considering how much less time was spent to plough with a big machine ploughing fast.

In Australia at a lecture to conventional farmers by a department of Agriculture scientist a smirk is visible on the faces of many farmers because they know this lecturer “could not run my farm”. At the beginning of the last lecture in my book “Life” I express that the farmer who seeks introduction to BD has specific knowledge of how to run his farm, his type of production maybe unknown to me. I have not grown paw paws or bananas. Very special skills are required to grow paw paws. Climate, location. So I learn at least a little of his skills whilst I help him to BD.

The way how conventional Agronomists automatically consider that, as such “professionals”, they also know how to practice BD, and can decide that such as the silly stirring can be replaced by normal “mixing” etc. is astounding and unacceptable. These experts are like musicians without an instrument. They should be farm-based like Doug Small was in Kyabram.

Our BD farmers today, noticeable also with our farmers in Europe, experience a consciousness of the result of their soil development and the quality of their products. They must take a look how this manifests within them and they will obtain an experience of their soul consciousness for which they fight for recognition. Especially with products requiring individual taste observation as with wine, olive oil, fruits and vegetables, also meats with everything.

And they fight for recognition because these results have become noticed in their soul consciousness. Consciousness Soul Rudolf Steiner called it. A modern soul experience guided by our individuality. Irrepressibly. This includes their unique ability to create necessary equipment! Huge amounts of minerals are wasted into the ocean, lost to earth, which were not lost before soil was made to dust. Doug Small demonstrated the amount of green-blue algae in the drainage of his research station deriving from excessive fertiliser, applied in “research” of over fertilised cane and white clover dairy pasture.

The Will Stream of Mankind offers Experience of Soul the second hand Thinking Stream offers wordy explanation of what would be if it were.

I have two differing letters of importance to our theme. One is from a Croatian Agriculture University Professor

Dr. Mihelic wrote: *“The increase of organic matter on the Farm Agrilatina would be good to explore exactly.” A good yield of maize in conventional agriculture is 26t/ha dry matter (20t/ha dry matter above the ground, in the ground 6 t, 92-95% of this dry matter is organic matter. If all this organic matter would be incorporated to 20cm of the soil, in 3 years because of mineralization process 85-95% organic matter would evaporate, because the MO would use it for their nutrition. The rest of the organic matter would be transformed to humus, to max. 2.500-3.600 kg/ha. 1 ha to 20 cm depth has 2.600t, 0.1% of this is 2.6t + 2.600 kg. So from this calculation an increase of 0.1% of organic matter per year is possible only if all of the biomass produced in a year would be incorporated. Of course such a high yield of maize is possible only with intensive fertilising, because the maize takes 230kg of N/ha. From 1t of compost from the cow manure we get 70kg of humus, so we should use 37t/ha of manure compost, to raise the organic matter for 0.1% in this way. In this way the soil would be added to much nutrients. For such a quantity of the manure compost we would need 6 cows. On organic farms they mostly have 1-1.5LU/ha (if mostly the food for animals is from the farm). If with the help of the cosmos, humus could be produced also for the production of oil would be used the same because they are chemically very similar.”*

The most dusted soils -everywhere- are the wide grain fields. It is astonishing that Dietician Medicos have taken no notice of how much soils producing bread are denatured. And they blame medical effects on wheat and some other grains for this, without considering that wheat is so produced that it is no longer wheat.

I begin with the second sentence of Dr. Mihelic which queries the possibly that the humus or organic matter content of the Agrilatina farm in Italy could have had an increase of humus as high as measured also by the University of Rome.

His first sentence states that “the increase of organic matter of the farm Agrilatina would be good to explore exactly”. This is an honourable scientists approach. What he states in his script apart from the first sentence is true.

The very trust worthy Egyptian soil scientist in the U.N film ‘The State of the Planet’ states that it takes a thousand years to build one cm of top soil.

However it is equally a fact that not only Agrilatina but all our farms accurately using the Australian Demeter BD method have an appropriate increase of actively living, not “permanent”, humus.

To answer this question I must refer back to the senior Agronomists who asked what part of 500 plants can absorb, suggesting that it could only be the liquid humic acid. Where I demonstrated with the preserving jar experiment that a vast system of little white feeder roots totally replacing the 500 in the jar, buried 7 cm below Spring Pasture, that plants via these white roots in spring sun WARMTH conditions can grow under jurisdiction of the sun. In fact I establish Natures Design for feeding plants exactly the right amount of minerals for healthy existence. At the same time questioning the supply of an indefinite but vast amount of water soluble minerals. Affecting plant and soil health. Dr Michelic correct statement of natural increase of organic matter is true for all growth including that of so called organic farms, even when fertilising with outside organic matter. Grain production today takes place on the most dusty plain country, everywhere. To sow the grain, requires moisture to keep the seed sprouting. But such dusty soil can't hold moisture for long and the seed may die. A great loss.

Is there an alternative? Pause and no answer. Yes this is one of my innocuous questions. How if the “broken” particles in our 500 pit soil had to serve as base for wheat production?

How would the colloidiness of 500- a kind of sliminess which obviously does only dry out very slowly serve in this sowing stress? Yes this is the biodynamic meeting!

And 500 did not exist before Rudolf Steiner, who did struggle with showing where he obtained observations. But there was an old man somewhere in Austria or Bohemia who stirred a very rich swamp soil, one way and reverse, with a chaos in-between. Steiner may have heard of this man and had recognised the prime importance of what he was doing.

Correctly made and sprayed prepared 500, together with correct treatment of soil - fool proof - by our plough and by further encouraging methods is now **the** totally new **Impulse** to a Nature that has not followed organised feeding so essential to plant.

We must accept as established what my preserving jar experiment demonstrates: humus is taken into plants by a second root system relying on the white feeder roots and humus is made by these roots not organic matter.

But there is a further essential: where p500, properly applied, the soil structure from no structure to typical individual particle structure on all farms happens.

I have here pictures of soil development at Darren Aitkins new 5 acre plot, increase of humus on a second class volcanic soil which had been used by horses as holding yard for 30 years and was as "dusty" as I have ever seen a soil and rock hard underneath. I was interested how long it would take for this soil to become biodynamically structured. It has often been my good fortune to just appear in times of importance. And so in this video are pictures Darren was taking when I appeared. And this was only the first green manure he had sown there. To my surprise this soil was in progress to have the structure required for our Demeter certification. P500 worked virtually immediately and very effectively.

Even the best cow manure achieves nothing comparative. And compost, by comparison would have to look colloidy like 500 and be sufficient for only a small area. It is very surprising that to my investigation, no one had taken note of Sun Warmth as activator of organised plant feed using the activity of a second root system. What is called "Natural Science" could not have discovered this as it relies on the 1 and 1 is 2 system of a mechanical arithmetic kind which can not measure a colloidy alive substance. We can demonstrate such substance with chromas pictorially as shown in my book LIFE. (See pages 124-132).

And I have a second script you should know of. I think that the worlds best known organic personality would be Charles Walters who created the “Acres U.S” paper. In his final interview at his retirement he answered the following to the interviewer.

ACRES U.S.A. Can compost restore millions of acres that rainforest destruction and industrial food farming have accounted for?

Walters. *Probably not – but bio-dynamics can. It is probably the most neglected form of bio-correct farming in the United States. Alex Podolinsky, in Australia, has about 1.5 million acres under his tutelage. I’ve seen stuff as hard as adobe brick turned to mellow loam using bio-dynamic preparation 500. Hugh Lovel’s A Biodynamic Farm covers the various preparations. I think the ruined acres of the world need to turn to Podolinsky’s experience and to bio-dynamics, his Biodynamic Agriculture, Introductory Lectures, volumes 1 and 2, ought to be weighed out on jewellers’ scales, they are that precious.*









