

# What does a MEA water device do and not do?

## Introduction

The purpose of this paper is to summarise the known capabilities of the MEA (Magnetised, Energised and Activated) water conditioning device developed by Robert Gourlay of Resonate Research Pty Ltd.

The detailed descriptions of the MEA water devices, the science of structured water and the results from the testing of the MEA water devices can be obtained as papers from [info@phion.com.au](mailto:info@phion.com.au).

The MEA water devices have been granted 4 Innovation Patents from the Australian government:

1. Patent Number 2016100017 for restoring water to a permanent negative charge
2. Patent Number 2016100592 for significant increase in production and integrity when the negatively charged water is combined with a formulation of diverse and abundant microbial species
3. Patent Number 2016100637 for removing pathogenic microbes from liquids such as waste water and milk
4. Patent Number 2016102046 for the capacity of a MEA water device to hold and sustain a natural energy wave (known as Quantum Code Technology: QCT) and when the water is consumed by humans it reduces stress levels to a normal range.

Reports and paper on the effectiveness of structured water by other scientists, eg. Dr. Gerard Pollock, Dr Mae-Wan Ho, Dr Martin Chaplin, etc. have shown that:

- The negatively charged or structured water tastes soft and balanced
- The water has a lower viscosity (less friction or resistance on a surface) and is therefore better as a wetting agent
- The water enhances the life-force energy (biofield) of all natural materials that it embodies
- The water replaces toxins in cells (enhances digestion and elimination for all living cells)
- The water changes the state of other water that it is in contact with (through **entrainment**) to a structured form (a field-force or biofield effect process)
- Plants increase photosynthesis and uptake of nutrients (often between 2-4 fold increase)
- Plant life energy is extended (ie. nutrient density/value and longer storage capacity)

- Increased resilience of vegetables and fruit to pest attack (possibly through the increased uptake of silicon as silicic acid: the bioactive form of silicon)
- Shortening the growing period to maturity for vegetables and fruit
- People who drink structured and energised water feel more energised and creative. This water will *lift the fog* on thinking.

Most of these results have been validated by Robert Gourlay in extensive testing of his MEA devices with many types of drinking waters, wine, milk and other consumable liquids; waste water, and agricultural food production.

## Background

An issue often raised by people who use the MEA device to condition urban water (ie. chlorinated and fluorinated water) is, ***why does the device not remove the toxic fluoride or chlorine?*** Firstly, the MEA device is not a filter so it does not physically remove chlorination or fluorination. However, it is known that structured water acts like an ***exclusion zone*** (See Dr. Gerard Pollack's papers on EZ water) because of the smaller water clusters and tighter molecule packing of the six-sided crystalline structure. That is, water that contains *foreign* or excess particles like iron, fluoride, chlorine, carbon, etc. will be excluded over time in structured water. This time dimension depends on the nature of the input water (eg. level of contamination). For example, in a river system of structured water the volume and rate of flow will determine the time and length of river to drop out contaminants (eg. sewage).

When water goes through a MEA water device it will change the water voltage from a positive to a negative voltage, however any change in mineral composition is dependent on ***time taken for particle settling, including outgassing or exclusion of particles/gasses.***

The MEA water device does not destroy matter or create a new energy field. Matter (ie. a particle) is created whenever you give a field enough energy to excite it to a state containing a particle. Matter is destroyed (ie. changed, transformed or trans-mutated) whenever that energy is transferred to some other field and the field is no longer excited. The thing that cannot be created nor destroyed are the energy fields themselves. You can give or take energy from a field, but you can never make the field itself disappear, or create a new field out of nothing. For example, you can use matter to create energy ( $E=mc^2$ ) and you can use an energy field to create matter (consequently, the Earth has many mineral elements). However, time and space have dimensions and limitations (laws) within the universe.

## Test results

The test results have proven that we can change the mineral composition of seawater by cycling seawater through a MEA device and then letting it sit for a week or so. For example, in one case the sulfate as  $SO_4$  increased by 90%, sodium decreased by 12.6% and chloride increased by 1.4%. Overall, the mineral composition of the seawater increased by 5.65%.

Consequently, in this test the *energy field* has created additional mineral matter. In another case of processing sewage (septic) water through the MEA device and allowing it to settle for a week or so, the Biochemical Oxygen Demand (BOD) improved by 37%, the Chemical Oxygen Demand (COD) improved by 64%, the total suspended solids improved by 89%, chromium reduced by 33%, copper by 60%, lead by 50% and zinc by 78%. All other minerals had volumes less than 0.1 and therefore the change was too insignificant to measure.

It has also been proven through independent testing that the MEA water device destroys pathogenic microbes. In one test it reduced E.coli from 250 faecal coliforms (cfu/100ml) to 2 and in another test it reduced E.coli from 2178 cfu to 1. This capability provides a significant capacity to process raw milk without the need for pasteurisation. Also, the MEA milk does not require homogenization as the milk oils and fats do not separate.

Numerous tests have been undertaken in agriculture. Test results indicate a strong ***epigenetic*** (environmental) influence of the negatively charged water on soil microbes (biology) and plants, especially important for microbial activity becoming multi-generational (diversity). That is, there was a significant effect of the presence of the MEA negatively charged water (ie. like thunderstorm water) on plant growth, eg. uptake of soil nutrients to the plant. Consequently, the microbes and negatively charged water are the life forces within the soil, breaking down the nutrition in the soil into forms digestible by the plants. If microbes aren't flourishing in the soil, plants will not properly grow, and will become disease-prone and susceptible to viruses, fungus and insect invasion. There is clear evidence from tests that soil health is significantly improved when negatively charged water is added to microbial formulations.

## Conclusion

It can be concluded that the key features of a MEA device are:

1. It excites the *energy field* of water in a beneficial manner for life
2. It produces a permanent or indefinite negative (-) charge or voltage in the water. This negatively charged water is also known as structured water
3. It destroys pathogenic (gram negative membrane) microbes in liquids
4. It will improve the integrity of water (including waste water) in time and space
5. It will improve food production and food integrity (quality, taste, etc.) because negatively charged water has an attraction with beneficial microbes at a cellular level
6. The negative charge in the MEA water is not affected by freezing or heating.