

A day in the life

Landmark conference ‘*New Horizons in Water Science: Evidence for Homeopathy?*’
(with apologies to J Lennon & P McCartney)

by Lionel Milgrom PhD MARH RHom and Dana Ullman MPH CCH



Lionel (LRM) has been a homeopath for over 20 years, training at the now defunct London College of Homeopathy, and the Orion course in advanced homeopathy. He works from home now but has laboured at Nelsons, Ainsworths, and an integrated dental practice in London's West End. He is also a scientist (chemist; co-founding an anticancer biotech spinout company), a science writer, and in his latest incarnation, a chemistry teacher. He came into homeopathy to ‘find out how it works’. Heading up the one-man Programme for Advanced Homeopathic Research, he has written over 170 publications in both the scientific and CAM academic literatures on his ideas, including many rebuttals of the so-called ‘sceptical’ case against homeopathy. He wishes he’d trained as a mathematician, jazz / concert pianist, blues harmonica player and Ninja warrior ... perhaps next time around?

Dana has authored ten books, including *The Homeopathic Revolution: Why Famous People and Cultural Heroes Choose Homeopathy*, *Homeopathic Medicines for Children and Infants*, and the best-selling *Everybody's Guide to Homeopathic Medicines* (with Stephen Cummings, MD). He has written an e-book, *Evidence-Based Homeopathic Family Medicine*, which describes 300+ studies from peer-reviewed medical journals with practical information on how to use homeopathic medicines for 100+ ailments. He founded Homeopathic Educational Services, America's leading resource centre for homeopathic books, medicines, and e-courses. His company has co-published 35 books on homeopathy with North Atlantic Books.

Foreword

Some people not only have good ideas, but are also prepared to work hard to bring those ideas into fruition. Ken (or Lord Aaron Kenneth Ward Atherton, to give him his proper title) is one such person. He decided that we all needed a strong antidote to the ‘no evidence’ claims so frequently vaunted by the anti-homeopathy campaigners, and he organised a truly unforgettable one-day event (held at the Royal Society of Medicine, London), to remind us that ‘proper’ science can be fascinating, inspiring and truly uplifting. Ken's impressive line-up of presenters were all internationally renowned scientists, including two Nobel laureates, and the theme of the event was to explore the science underpinning our knowledge of water structures. I came away from the day feeling really positive; our emerging understanding of the science of water structures may well lead us to eventually being able to explain how homeopathy can work at a purely energetic level. On behalf of Team ARH and the rest of the homeopathy community, I would like to thank Ken for having the determination, perseverance and, above all, the vision for organising this outstanding event.

Karin Mont ARH Chair

I read the news today, oh boy

Picture this: we're five or ten years down the line and the wires (Reuters, Bloomberg, Facebook, Instagram, Internet, Tinder ...) are all buzzing with the news that Nobel Prizes in chemistry and medicine have just been announced. The Chemistry Prize goes to ground-breaking research into the science of water, enabling ready desalination (giving millions across the planet access to fresh water), a totally new method of electrical power generation using just light and water, and stunning new insights into intra- / inter-cellular (and longer-range) communication. The Medicine Prize is awarded to biochemists who unearthed the action of ultra-diluted homeopathic remedies, working at the level of gene regulation: the implications for 21st century

humanity, dangerously low on new medicines and ways to deal with an alarming rise in chronic illnesses, are simply staggering.

(As homeopaths, what would of course have taken your fancy is the last item; but patience, dear reader, because what you are about to learn is that it is all of a piece, and that the common thread – indeed, element – running through and connecting all these discoveries is our dear old friend, *aqua, l'eau, das Wasser, nero, thuk, jal, aiwe, amanzi, voda, vann, vattern, su* ... aka water, to name that vital substance in just a few other languages from the burgeoning human populations of aqueous planet Earth.)

A pleasant fiction? Perhaps, because according to current so-called ‘sane’ logic, we are supposed to know more or less all there is



▷ to know about that ubiquitous fluid, and homeopathy is just a load of woo and quackery which ‘shouldn’t work, therefore cannot work’, blah, blah, blah. So, shame on all those who regularly trumpet these ignorant shibboleths and were not present at arguably THE most ground-breaking event on the science of water (and its implications for homeopathy) ever to have graced the London scene!

Held over two days, beginning with a spectacular official welcome dinner at the House of Lords, and the following day (14 July 2018: mark this date well; the 229th anniversary of the French Revolution) at 1 Wimpole Street (home of the Royal Society of Medicine London), it is just possible the future scenario sketched out above might turn out not to be a fiction after all. So, let’s cut to the chase.

About a lucky man who made the grade

Question: what drew two Nobel Laureates, a clutch of internationally renowned scientists, and a stream of physicians and homeopaths to London on the very day the city decided to show the world just what it thought of the current

sitting US President? Answer: they came at the behest of his lordship Aaron Kenneth Ward-Atherton (Lord of Witley & Hurcott Worcestershire), distinguished medical homeopath and champion for homeopathy, who had skilfully organised and coordinated an event entitled ‘New Horizons in Water Science: Evidence for Homeopathy?’ (see <https://www.thesciencetheevidence.co.uk/>)

‘Why the question mark?’, you might well ask. Well, there have been a few false dawns in the past where seemingly solid scientific evidence for homeopathy has been announced, only to disappear later in a puff of hubris. So, with some trepidation, your correspondents (LRM suitably bow-tied, tuxxed and with his spouse) approached the Palace of Westminster on the late afternoon of 13 July ... at exactly the same time as the massive anti-Trump protest arrived in Parliament Square. Snaking our way through chanting protesters, LRM’s wife ruined their future chances of ever acquiring a US visa by getting herself photographed underneath the now-infamous Trump Baby balloon. LRM had his painstakingly tied bow-tie trashed by an

Lord Atherton

over-exuberant passing LGBT reveller. So much for the joys of free speech!

After cutting a swathe through the protest and the Palace of Westminster’s tight security, we finally got to enjoy the festivities of the event’s opening day; meeting up with colleagues old and new, extensive tours of the House of Lords and ‘the Other Place’, followed by a sumptuous dinner on the terrace overlooking the Thames. The gathering was addressed by several luminaries from the Palace of Westminster, but most importantly by our host and convener Ken – begging your pardon, M’Lord Aaron Kenneth Ward-Atherton, Lord of

The conference will no doubt have sent shockwaves around the world

Witley and Hurcott – who described movingly his own personal homeopathic journey – recovery from MS using intensive complex homeopathy in Germany. Clearly, this wasn't going to be just another half-hearted event, attempting to convince a deeply sceptical world of homeopathy's truth: far too many internationally renowned scientific 'big guns' had been gathered and were getting ready to concentrate their fire. And so, next day at the 1 Wimpole Street venue it was ultimately all too tragically to prove.

And though the news was rather sad

At this point, your correspondents were going to launch into the main bulk of the article and discuss what the new scientific discoveries about water are. But we pause for a moment to remember the late Dr Peter Fisher who, just a few weeks after the conference, was tragically cut down by a lorry while cycling to work at the Royal London Hospital for Integrated Medicine: indeed, this conference was one of his last public engagements. For not only was he present, but he had been personally invited by Lord Ken some weeks before to chair the afternoon session, introducing speakers, making sure they kept to time. A staunch advocate, defender, and front-line researcher of homeopathy, Peter will be sorely missed, and we shall return to his loss later.

This ground-breaking event culminated with seminar organiser, Ken Ward-Atherton, chairing the Q&A session, which was warmly received and facilitated delegates from several countries having an opportunity to fire questions to a team of the world's most elite scientists.

The conference will no doubt have sent shockwaves around the world, as delegates from over 20 countries listened in awe to two Nobel Laureates (physicist emeritus Professor Brian Josephson and AIDS virus

discoverer, Professor Luc Montagnier MD) and some world-class scientists of equal academic stature from the US, UK, Israel and Russia. And what they were saying was pure, unadulterated scientific heresy! For, contrary to what sceptics have been spouting for far too long, the latest research in water science supports the notion that there is a significant difference between the biological and physical actions of homeopathic medicines and plain water.

From that point of view, we should emphasise that this special conference did not seek to re-view the body of existing clinical research that verifies the efficacy of homeopathic medicines, or the basic science studies that show homeopathic medicines have biological or physical effects (all subjects ignored totally by the scurrilous Wikipedia article on homeopathy). Instead, this conference chose to focus on two far more fundamental questions:

- Does the process of remedy production in homeopathy (that is,

There have been a few false dawns in the past where seemingly solid scientific evidence for homeopathy has been announced

Dr Peter Fisher



dilution and succussion – vigorous shaking – of a medicinal substance in water / alcohol) have an effect on the water's long-range structure that is different to that of simple pure water?

- Are there sound, plausible explanations for how homeopathic medicines persist in water solutions despite multiple dilutions?

These are important questions as many physicians and scientists are completely unfamiliar with the fascinating qualities and abilities of water. Therefore, their assertions on what is and isn't possible with homeopathic medicines represent an embarrassingly uninformed point of view: they are at best unscientific; at worst, a demonstration of sheer ignorance. The best scientists keep their assertions to a minimum, knowing their knowledge is always limited: the worst tend to arrogance, particularly about those subjects of which they actually know nothing!

I just had to laugh; I saw the photograph

Physicist and Nobel Laureate Professor Brian Josephson of

▷ Cambridge University UK kicked off the proceedings by showing a clip from a lecture the legendary Jacques Benveniste gave at the Cavendish Lab nearly 20 years ago.

I remember it because I was there and wrote up Benveniste's lecture for *The Independent*. Professor Josephson then echoed remarks he had made to the popular science magazine *New Scientist*, saying:

Simple-minded analysis may suggest that water, being a fluid, cannot have a structure of the kind that such a picture would demand. But cases such as that of liquid crystals which, while flowing like an ordinary fluid, can maintain an ordered structure over macroscopic distances, show the limitations of such ways of thinking. There have not, to the best of my knowledge, been any refutations of homeopathy that remain valid after this particular point is taken into account.

Of course, at the time, nobody took a blind bit of notice; perhaps they will now.

Professor Josephson powerfully critiqued generally accepted theories of how biomolecules react with their substrates. Conventionally, these are thought to 'match' like a lock and a key, but only when they are in direct physical contact. Not so, says Professor Josephson. Like his predecessor Professor Jacques Benveniste (Milgrom, 2001), Josephson argued that they can 'communicate' over some distance long before they come together, and that such interactions are best described by quantum theory and electromagnetic signalling (2015).

Further, Professor Josephson went on to show some remarkably beautiful photos and videos that provide powerful evidence of how hyper-sensitive water is to sound. Using an impressive new technology called cymascope, and developed by acoustics engineer John Stuart Reid, Professor Josephson was able to demonstrate the incredible influence sound has on water using this technology, producing stunning dynamic



Professor Brian Josephson

wave patterns in water that follow changes in a sound's pitch. This video shows dramatically (and for many in the audience, quite movingly) how the dynamic structure of water changes as music is played. And for this to occur, there has to be an ordering of molecules within the water, to give it that dynamic structure;

what is commonly referred to as a 'memory'.

Professor Josephson concluded his talk:

Such is life. Order arises spontaneously. Creation of order (order-ing) is a part of nature. Order includes disorder (fluctuations), so order requires order to be present. With crystals, the order is static; with life it is dynamic. There we have ordering within activity. Our present understanding of all this is qualitative and limited, but this must be the next step for science.

A crowd of people stood and stared

Next to speak was Professor Vladimir Voeikov from the Lomonosov Moscow State University in Russia. A world expert on the chemical and physical properties of aqueous systems and their key role in vital living processes, and speaking on behalf of his colleague Professor Alexander Konovalov, Professor Voeikov also took aim at critics who scoff at homeopathy's plausibility. He then launched into a description of the extensive and highly detailed work on the biological effects of

Conventional ideas of how water dissolves substances is actually incorrect



Professor Vladimir Voeikov

ultra-high dilutions (or UHDs) that (many of us were surprised to learn) has been on-going in Russia since the 1980s.

One of the unfortunate side effects of the perennial East-West divide and the mistrust it still generates, has been access to research like this, mainly because it has appeared only in Russian journals. Consequently, we had a lot of ground to make up ... which Voeikov did in no uncertain terms! And, much to the audience's surprise, it turns out that Professor Jacques Benveniste (who in 1988 was so pilloried by scientists, sceptics and the journal *Nature*, his reputation was trashed, he lost his laboratories and his funding) was by no means the first to suggest that solutions diluted and strongly agitated to the point where, conventionally, there couldn't possibly be any molecules of the original substance left, could still exert biological effects. Delving back into the literature, it had been announced around a century before Benveniste. And in 1955,

a review had been published into the action of UHDs (Stephenson, 1955).

Drawing on his own and Konovalov's work, Voeikov concluded that conventional ideas of how water dissolves substances is actually incorrect. So, when something dissolves in water, its particles are thought to be randomly distributed throughout the solvent. As the solution is continually diluted, these particles simply reduce in number until at a certain dilution (known as the Avogadro limit) they are supposed to disappear completely. Consequently, if a solution is diluted beyond this limit, as there are apparently no particles left, such UHDs cannot possibly exert any effects, let alone on biological systems, should they! 'It's obvious, isn't it?' say the sceptics. 'Therefore, homeopathy (which sometimes uses dilutions of substances way beyond the Avogadro limit) must be complete bunkum ...', and on and on they drone. So much for conventional thinking!

What Konovalov and his colleagues have shown time and time

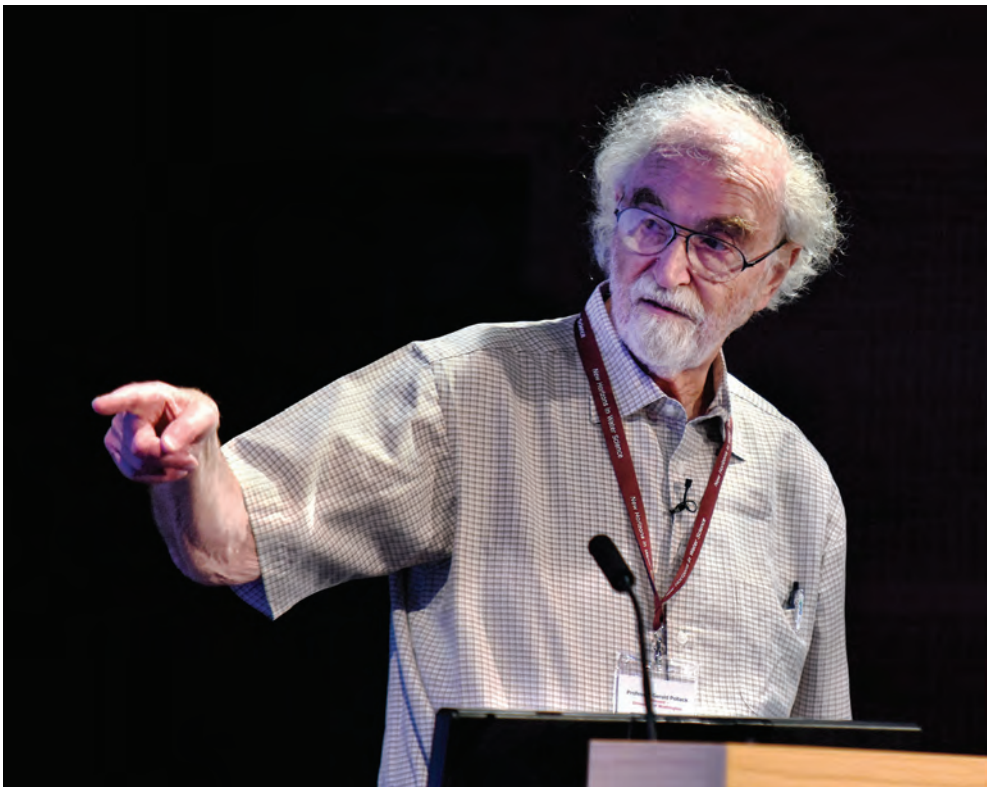
again is that the process of homeopathic dilution and agitation, even down past the Avogadro limit (so that no particles are supposed to still be present), does NOT get rid of all the dissolved substance. Instead, microscopically tiny 'clumps' of the dissolved substance – known as nano-associates – remain behind and these are biologically active. What's more, these nano-associates can be traced and tracked (using various analytical techniques), and they affect water in many ways that make it different from pure water, for example electrical conductivity, surface tension and so on. So, a solution diluted and agitated beyond the Avogadro limit is anything but pure water.

If that wasn't enough, Professor Voeikov told us Konovalov and his colleagues have shown that so-called ordinary solutions – the kind that we make up and use every day (and have not been sequentially diluted and agitated as homeopaths do) – also contain nano associates, violating what has for years been understood as 'laws of behaviour' prescribed in standard textbooks on aqueous solutions. So, not only are all those sceptics and naysayers going to have to get used to homeopathic dilutions and their effects being real, they will have to completely reassess their understanding of what happens when ANY substance is dissolved in water. For those whose solemn duty it is to rewrite textbooks, it is going to be a field day!

They'd seen his face before, nobody was really sure

Barely able to catch our breath, we were then treated to arguably the most inspirational talk of the whole conference, delivered by Jerry Pollack, professor of bioengineering at Seattle's University of Washington.

Professor Pollack is probably best known for his book, *The Fourth Phase of Water: Beyond Solid, Liquid, and Vapor* (2014) in which he outlines in highly readable terms some of his and



▷ his team’s amazing discoveries about water.

Chiefly, these concern what happens to water when it is in contact with a surface, for example a membrane. And for any doubting Thomas out there we should point out that Professor Pollack’s discoveries about water have been independently reproduced many times. It turns out that the water molecules closest to the membrane surface form an almost crystalline alignment that has the effect of excluding any dissolved particles in the water. These exclusion zones – or EZs – have properties that are totally different from the bulk water, and whose consequences will have profound effects not only on our understanding of water, but how we use it.

For example, depending on the nature of the membrane surface, charge separation occurs between the EZ layer and the bulk water phase. Professor Pollack showed us how this phenomenon could be used, not only to produce an incredibly simple battery powered only by radiant energy, but how it could be the basis of a water

desalination system. At the moment, this last application would need to be scaled up before it could be of any practical use, but if it could then there must surely be a Nobel prize in the offing.

In addition, bearing in mind that blood is mainly water being pumped through tubes of biological membranes, Professor Pollack suggested that the same charge-separating mechanism that powered his radiant energy battery, might also assist in powering our blood through narrow vessels far removed from the pumping action of the heart. If so, such a discovery will have huge ramifications for our understanding of physiology. And what about homeopathy?

The founder of homeopathy, Samuel Hahnemann, was both a physician and the author of a then leading textbook for pharmacists. His many experiments attempting to reduce the harmful side effects of medicinal substances, led him to a method of dilution and agitation which we homeopaths still use today. Now, the preparation of homeopathic remedies involves water solutions in contact with

Above left:
Professor Jerry Pollack

Above right:
Many physicians and scientists are completely unfamiliar with the fascinating qualities and abilities of water

surfaces it turns out that Professor Pollack’s semi-crystalline EZs are able to store electromagnetically large amounts of information in their molecular structure. Intriguingly, therefore, what the new science presented by Professor Pollack and others at this conference is telling us, is that Hahnemann’s method seems to optimise the storage of medicinal information within the very structure of water itself. So, even after more than 200 years, Hahnemann’s discovery of homeopathy and his contributions to medicine and pharmacology are still being uncovered.

Somebody spoke and I went into a dream

After lunch (always a bad time for one’s concentration ... especially LRM’s), Professor Luc Montagnier MD came to the stage and sat down.

He didn’t look a well man, but he gamely made it to the conference, the dinner the night before, and got ready to speak. It turns out he was introduced to homeopathy and homeopathic research by the French immunologist Jacques Benveniste,



© Volkan Akgel

MD. In a remarkable interview published in *Science Magazine* of December 24, 2010, Professor Luc Montagnier expressed support for homeopathic medicine:

What I can say now is that the high dilutions (used in homeopathy) are right. High dilutions of something are not nothing. They are water

structures which mimic the original molecules.

The *Science* interview concluded when Montagnier was asked if he is concerned that he is drifting into pseudoscience. He replied adamantly:

No, because it's not pseudoscience.

It's not quackery. These are real phenomena which deserve further study.

Montagnier told the conference that, under the right conditions, electromagnetic signals can be transmitted from test tubes containing a highly diluted DNA sample to a different test tube containing only water and that, when enzymes which copy DNA molecules are then added to this water, they behave as if DNA molecules are present, producing new DNA molecules (2009). This 'teleportation' effect of the DNA, from one test tube to another was found to occur only when the homeopathic procedure of sequential dilution, with vigorous shaking of the test tube was utilised. Also, Montagnier was co-author, with several highly respected scientists, in another article that was published in a leading scientific journal (2015). This article posits quantum effects beyond simple chemistry.



Professor Luc Montagnier

Hahnemann's method seems to optimise the storage of medicinal information within the very structure of water itself

Montagnier's studies found that highly diluted DNA from pathogenic bacterial and viral species is able to emit specific radio waves and that 'these radio waves [are] associated with 'nanostructures' in the solution that might be able to recreate the pathogen'. A writer for the *New Scientist* magazine has asserted that, if his conclusions are true, these would be the most significant experiments performed in the past 90 years, demanding re-evaluation of the whole conceptual framework of modern chemistry' (Coghlan, 2011).

4,000 holes in Blackburn, Lancashire

While Montagnier's work shows the influence of electromagnetic fields having a biological effect, other researchers at the conference found that nano-doses of the original homeopathic medicine persist in water solutions. Jayesh Bellare of the prestigious India Institute of Technology described his seminal research that was published in 2012 in *Langmuir*, a highly respected journal published by the American Chemistry Society.

Bellare and his colleagues found that six different homeopathic medicines, all made from minerals



Above left:
Dr Jayesh Bellare

Above right:
Dr Rob Verkerk

▷ (gold, silver, copper, tin, zinc, and platinum) that were diluted 1:100 six times, 30 times, and 200 times were each found in nano-doses from one of three different types of spectroscopy.

Bellare and his team explained that homeopathic medicines are usually made in glass bottles and the vigorous shaking of the water in these bottles releases nano-sized fragments of silica from the glass walls, and the substance being made into a medicine is literally pushed into these floating silica ‘chips’. Then, when 99% of the water is poured out, the silica chips cling to the glass walls. The scientists found each of the six minerals persisting in the water no matter how many times they diluted the medicine. When one considers that many of the most important hormones and cell-signalling agents of the body operate at nano-dose levels, the nano-doses found in homeopathic medicines may explain how these medicines work.

Still further, the fact that nano-doses are much more able to cross the blood-brain barrier, as well as most cell membranes, provides additional insight into how and why homeopathic nano-doses can elicit significant and powerful immune responses from the body.

So, the take-home message from all this research is that, however much a material in water is diluted and succussed, it is never reduced entirely to nothing: something always remains and that will have effects. Time to suck that up, sceptics!

Now they know how many holes it takes to fill the Albert Hall

At this point, many of the homeopaths in the audience could have been forgiven for thinking that their heads were about to explode. They were probably not used to such a concentrated elixir of science supporting what they have known for over 200 years. So, when Dr Rob Verkerk from the Alliance of Natural Health International took to the stage, it might have come as some relief.

His talk was more concerned with how it might be possible to co-create a sustainable system of health provision – that includes CAM therapies like homeopathy, alongside more conventional medical approaches – than the science of water. But his talk came with a warning for the homeopathic community in the UK.

Noting that this conference was something of a celebration of

the many scientific developments that have occurred in the wake of Jacques Benveniste’s initial discoveries since his premature death in 2004, Rob said:

Whatever the opponents of homeopathy argue, the clinical effect has been amply demonstrated. Could this new evidence from the science of water reveal a likely albeit complex mechanism – or possibly more likely – a series of parallel mechanisms? And could an understanding of these mechanisms provide the missing piece in the logic pathway required to shift the medical establishment’s perception about the usefulness of homeopathy for human or animal health?

This kind of sea-change is urgently needed if we are to avert the extinction of homeopathy in the NHS, the veterinary sciences and beyond, caused by a lack of appetite among some for ‘scientific truth’ – regardless of its consequences.

Given the recent closures and threats of closures to homeopathic hospitals / departments across the UK, some might have thought this warning was perhaps a tad late?

But one of your correspondents noted something similar in an article written in 2011 (15). And while homeopathy might well have its back to the wall in the UK, Europe, and perhaps even the USA,

there are signs of hope not only for its survival, but support and resurgence even, in other parts of the world.

I'd love to turn you on

This was underlined by two further speakers at the conference, Dr Menachem Oberbaum from Israel, and Dr Raj Kumar Manchanda from India.

Both these speakers announced the recent agreement signed between Israel and India to jointly conduct research into homeopathy. Dr Oberbaum founded and heads up the Centre of Integrated Medicine in the Shaare Zedek Medical Center in Jerusalem, and his homeopathy credentials are impeccable. He was a co-author with Benveniste on the now famous 1988 paper in *Nature* where the memory of water hypothesis was first aired.

Dr Manchanda has equally impressive credentials and, as Director-General of the Central Council for Research in Homeopathy (CCRH), he has contributed significantly to strengthening homeopathy's burgeoning infrastructure within India's public health system.

And this is the point. Mahatma Gandhi, the Indian leader who

However much a material in water is diluted and succussed, it is never reduced entirely to nothing: something always remains and that will have effects

insisted on homeopathy being part of the newly independent state's healthcare system, when asked what he thought of Western civilisation, remarked sarcastically that it would be a good idea! While homeopathy might be languishing in the so-called 'enlightened' West, other obviously not-so-sceptically

corrupted countries have leapt ahead and made homeopathy an integral part of their healthcare systems.

So, just as the Beatles' success in the 1960s had the effect of, in essence, reimporting rock music back into the USA from the UK, could it be that sometime in the near future (and in no small part due to the ground-breaking nature of this conference), homeopathy's now-global success particularly on the Indian sub-continent will be re-imported back into an impoverished, post-Brexit UK beset by chronic illnesses that conventional drugs can no longer treat? It's a chastening thought ... which brings us back to Dr Peter Fisher.

Epilogue – Dr Peter Fisher RIP

Peter's sudden, tragic and hugely untimely death has shocked us all. And in the weeks and months since his death, one of us (LRM) received a request to write something about him in memoriam. There were also requests for silence worldwide on the day of his memorial service.

While these are absolutely correct, fine and proper ways to pay our respects to Peter, something has ▸

Below left: Dr Raj Kumar Manchanda

Below right: Dr Menachem Oberbaum



▷ been niggling away at me since I heard of the tragedy; that somehow, we as a community need to do so much more to honour Peter's memory. This coincided with being shown vile postings on that execrable method of so-called communication, Facebook. I won't repeat what they said: they were just too diabolical.

On a more positive note, the memorial tribute Lord Ken Ward-Atherton recorded quite soon after the sad and tragic news undoubtedly captures Peter's irreplaceable inspirational moments on film, especially during his contributions at the New Horizons seminar; in many ways this tribute sums up who Peter was, and what he meant to so many involved in homeopathy around the world (this memorial will be available on the New Horizons website and Facebook pages).

You see, when all is said and done, it is us humans who create meaning in this world: if all our attempts to understand what it is to be conscious have taught us anything, surely it is this. So, under those circumstances, what could be a fitting memorial to Peter? I would posit nothing less than a galvanised GLOBAL effort by a united community to fight back and put homeopathy where it belongs: at the forefront of healthcare worldwide, because THAT in my view is what Dr Peter Fisher was about.

Peter's death filled LRM with anger, frustration, and yes, determination. Why? Because this is precisely what homeopathy's enemies wish for. This world is sick enough already and it really is time to wake up and smell the coffee. Coming as it did, so soon after arguably one of the most successful confirming conferences on homeopathy, Peter's death should remind us that NOW like never before, is the time to stand and fight for what we know is right and for what we believe in. For, as the ancient Jewish religious leader Hillel the Elder once said:

This world is sick enough already and it really is time to wake up and smell the coffee

If I am not for myself, who will be for me? If I am only for myself, what am I? And if not now, when?

REFERENCES

- www.tcm.phy.cam.ac.uk/~bdj10/
 Milgrom L (1999) 'The Memory of Molecules'. *The Independent*, 19 March 1999: <https://www.independent.co.uk/arts-entertainment/science-the-memory-of-molecules-1081528.html>.
 Josephson B (1997) 'Molecule Memories', letter to *New Scientist* 1 November 1997, www.tcm.phy.cam.ac.uk/~bdj10/water.memory/ns/homeopathy.html.
 Milgrom L (2001) 'Thanks for the Memory'. *The Guardian*, 15 March 2001, <https://www.theguardian.com/science/2001/mar/15/technology2>.
 Del Giudice E, Voekov V, Tedeschi T, and Vitiello G (2015) 'The origin and special role of coherent water in living systems'. *Fields of the Cell*. <http://www.cymascope.com/>.
 Stephenson J (1955) 'Substances in dilutions greater than 10⁻²⁴: A review of investigations into their actions'. *J Amer Inst Hom* 48:327-335.
 Pollack G (2013) *The Fourth Phase of Water: Beyond Solid, Liquid, and Vapour*. Ebner & Sons Publishers.
 Enserink M (2010) 'Luc Montagnier, French Nobelist Escapes "Intellectual Terror" to Pursue Radical Ideas in China'. *Science*, 24 December 2010: Vol. 330 no. 6012 p. 1732. DOI: 10.1126 /

science.330.6012.1732.

Montagnier J-L, Aissa J, Ferris S, Lavallee C (2009) 'Electromagnetic Signals Are Produced by Aqueous Nanostructures Derived from Bacterial DNA Sequences'. *Interdiscip Sci Comput Life Sci* 1: 81-90: <http://www.springerlink.com/content/0557v31188m3766x/fulltext.pdf>.
 Montagnier L, Del Giudice E, Aissa J, Lavallee C, Motschwiler S, Capolupo A, Polcari A, Romano P, Tedeschi A, and Vitiello G (2015) 'Transduction of DNA information through water and electromagnetic waves'. *Electromagnetic Biology and Medicine*, 34:2, 106-112, DOI: 10.3109/15368378.2015.1036072 <https://www.tandfonline.com/doi/abs/10.3109/15368378.2015.1036072>.

Coghlan A (2011) 'Scorn over claim of teleported DNA'. *New Scientist*, 12 January 2011, issue 2795.
 Chikramane PS, Kalita D, Suresh AK, Kane SG, Bellare JR (2012) 'Why Extreme Dilutions Reach Non-zero Asymptotes: A Nanoparticulate Hypothesis Based on Froth Flotation'. *Langmuir*. Nov 2012; <http://www.ncbi.nlm.nih.gov/pub-med/23083226>.
<https://anhinternational.org/event/new-horizons-in-water-science-evidence-for-homeopathy-seminar-the-royal-society-of-medicine/>.
 Milgrom LR, Ringo MR, Wehrstein KM (2012) 'Emerging economies need for cheap, efficient healthcare makes western anti-homeopathy rhetoric irrelevant: Observations from the Canadian Homeopathy Conference, October 2011'. *J Altern Comp Med* 18(7):1-7. <https://www.voices-visions.org/content/poster/collection-poster-rabbi-hillel-pirke-avot-114-daniel-bennett-schwartz>.

Extracts of this article have been published previously on Mercola (<https://www.mercola.com/>), 31 Oct 2018.

Lionel Milgrom can be contacted at milgromlr27412@gmail.com. Dana Ullman can be contacted at mail@homeopathic.com. □