



# RESEARCH REPORT

## RESEARCH ON “PERSONAL HARMONISER” TESTS

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### THE “PERSONAL HARMONISER”

The ‘Personal Harmoniser’ is one of the products made by The Centre for Implosion Research (CIR), P.O. Box 38, Plymouth PL7 5YX, UK. It is a flat twin opposing spiral (5 cm length and 2.5 cm width) of copper tube containing water treated by a process called “implosion”. The imploded water is sealed in by crimping the ends of the copper tube. There is little available knowledge concerning the fundamentals of the physics behind such devices or their possible method of action on water and living systems.

Dolly Knight and Jonathan Stromberg from CIR asked me to carry out tests with their Personal Harmoniser. The aim of these tests was to investigate the product’s own frequency pattern and to find verification for the claim that the product protects from environmental electromagnetic pollution.

I retired from Salford University in 1989 where I was a Senior Lecturer in the Department of Electronics and Electrical Engineering (now the School of Acoustics and Electronics). Since then, I have developed radiaesthetic techniques specifically to investigate ‘subtle’ electromagnetic fields and radiations. A hand-held pendulum was used for the following tests to detect resonances excited by oscillations from commercial waveform generators, the dial readings of which gave the frequencies at which the resonances had been detected.

### RESONANT FREQUENCIES MEASURED FOR THE ‘PERSONAL HARMONISER’

The following Table 1 lists the resonant frequencies measured in the ‘Personal Harmoniser’

**Table 1: Resonant Frequencies Measured for the ‘Personal Harmoniser’**

<b>+ = Stimulatory (Therapeutic)</b>	<b>- = Depressive (Stressful)</b>
+4.260 Hz (Liv1 and GV14)	(none found)
+7.772 Hz (He9 & heart chakra exact)	
+212.3 Hz	
+188 kHz (near Sk1)	
+2.46 MHz (Ci9 & GB44, near LI1 & Pn1)	



**Table 1: Resonant Frequencies Measured for the 'Personal Harmoniser'**

<b>+ = Stimulatory (Therapeutic)</b>	<b>- = Depressive (Stressful)</b>
+7.10 MHz (near copper metal)	
+84 MHz	
+286 MHz (near BL67 & Liv1)	
+500 MHz (l/4)	
+940 MHz (l/2)	
+1210 MHz	
+1400 MHz (N.B. not the hydrogen molecular resonance at 1420 MHz))	
+1560 MHz	
+1880 MHz. (l)	

All the acupuncture meridians able to become entrained to any environmental frequency which happens to be reasonably close to the endogenous frequency on the particular meridian. In the above Table 1, those acupuncture points having frequencies at or near to the resonances found in the 'Personal Harmoniser' are shown in brackets. Acupuncture point GV14 is exceptional, it is particularly sensitive to electrical stress and will entrain over a very wide range of frequencies. It reflects the status of the cerebro-spinal fluid. Its endogenous frequency of 4.3 Hz is in effect the lowest of the frequencies listed above.

Chemicals also seem to have characteristic frequency signatures related to their H-bonding capabilities to even traces of water. The chemical frequency signatures are not erased by shielding from the geomagnetic field by placing in a closed steel box. The chemical frequency signatures measured for a sample of sodium chloride solution were: 1.24 MHz, 5.0 MHz, 42 MHz. The frequencies 2.46 MHz and 84 MHz in the above measurements are exactly twice the sodium chloride frequencies. The frequency of copper metal is 10 MHz and the observed 7.1 MHz is the exactly the geometric mean of the 10 MHz of copper and the 5 MHz of the sodium chloride. This is consistent with a copper tube filled with saline being measured as the 'Personal Harmoniser'.

## **CHARACTERISTICS DUE TO THE GEOMETRY OF THE 'PERSONAL HARMONISER'**

**If two 'Personal Harmonisers' are so placed as to be perpendicular relative to each other in any two planes, all their frequency and resonance effects are cancelled!**

- The length of each half of the 'Personal Harmoniser's' spiral is approximately 15 cm. The full-wave resonant length (l) for 16cm would give 1880 MHz (in free space). This is the highest frequency - shortest wavelength - found in these measurements. The difference between 15cm and 16 cm may be due to the difficulty in determining the exact length of tube which is electrically effective because of end effects. However, it does suggest that each half of the 'Personal Harmoniser' must be considered separately. The 15 cm l/2 and l/4 wavelength resonances occurred at 940 MHz and 500 MHz respectively.
- All the frequencies as listed in Table 1 measured from the 'Personal Harmoniser' were imprinted into a straightened out piece of plastic tubing (6 mm O/D, 4 mm I/D) filled with water. This gave a measurable effect like that from the 'Personal Harmoniser' when it was coiled into a 3-turns spiral; 2½-turns would suffice, 2-turns gave no effect.



- ❑ The plastic tube was re-filled with water and imprinted with 1 kHz. It was then coiled into a simple spiral and measured. The frequencies present were now the original 1 kHz and in addition, 3 kHz and 5 kHz. For this, it needed at least 2½ turns of the tubing, 3 turns still gave these harmonics, 2 turns only gave the original 1 kHz.
- ❑ The plastic tube was re-filled with water and again imprinted with 1 kHz. It was now coiled and taped into the geometry of the ‘Personal Harmoniser’ using the actual device as a template. The following Table 2 lists the 50:1 range of harmonics and sub-harmonics which were measured.

**Table 2: Harmonics of 1 kHz due to ‘Personal Harmoniser’ Geometry**

100 Hz
200 Hz
300 Hz
400 Hz
800 Hz
1 kHz (original imprint)
3 kHz
5 kHz

- ❑ This coiled plastic tube replica of the ‘Personal Harmoniser’ was again re-filled with water and this time imprinted with measured frequencies of the ‘Personal Harmoniser’ according to the list given in Table 3, one at a time and starting with the first frequency in Table 1. It was only necessary to imprint the first four frequencies from Table 1, the remainder appeared spontaneously as harmonics resulting from the spiral geometry involved. The multiplication of what appear to be the fundamental frequencies of the ‘Personal Harmoniser’ by simple integer ratios gives the pattern of frequencies listed in Table 4 and these are good approximations to the measured resonances listed in Table 1.

**Table 3: Harmonics from Imprinting ‘Personal Harmoniser’**

1. Imprinting 4.26 Hz gave resonances at	4.26 Hz and 2.13 Hz only
2. Imprinting 7.8 Hz gave a resonance at	7.8 Hz only
3. Imprinting 213 Hz gave a resonance at	231 Hz only
4. Imprinting 188 kHz gave resonances at	188 kHz, 2.46 MHz, 7.1 MHz, 84 MHz, 286 MHz, 500 MHz, 940 MHz, 1210 MHz, 1400 MHz, 1560 MHz, 1880 MHz.



**Table 4: Simple Integer Ratios Giving Frequencies Approximating to the Frequencies in Table 1**

$4.26 \times 50$	=	213 Hz
$0.188 \times 50/4$	=	2.35 MHz
$2.35 \times 3$	=	7.1 MHz
$7.1 \times 50/4$	=	89 MHz
$84 \times 10/3$	=	280 MHz
$84 \times 50/8$	=	525 MHz
$84 \times (10/3)^2$	=	953 MHz
$84 \times 30/2$	=	1260 MHz
$84 \times 50/3$	=	1400 MHz
$84 \times 50/2 \times 3/4$	=	1575 MHz
$84 \times 50/3 \times 4/3$	=	1867 MHz

- The turns of the two spiral sections of the ‘Personal Harmoniser’ are wound in opposite directions. This feature gives it the property of a Caduceus coil. The resultant magnetic vector potential from two oppositely wound coils is equivalent to a linear geometry. This would be equivalent to a linear configuration of domains in the water memory. In particular, it is capable of interacting with “hidden” frequencies in water such as occur in water heated above 90 °C. Its own characteristic “hidden” frequency is at 4.0 Hz, very conveniently on the GV14 endogenous frequency.

## VELOCITY OF COHERENCE PROPAGATION

Resonances can be observed when two parallel paths through a pair of different materials are set up and joined at each end. The direction of the geomagnetic field is involved. For example, for paths in copper tube and air the resonances are only observed with the tube in the N-S direction.

For paths in copper tube and water or saline, the resonances are only observed with the tube in the horizontal plane. In either case, there is no resonance with the tube vertical. There was no significant tube diameter or wall thickness effect. The ‘Personal Harmoniser’ resonances did not show any directional effects and this must be due to its particular geometry.

The unexpected feature of the coherence resonances in water/saline filled copper tubes is that the resonant frequency *increases* with the length of the tube. The microwave resonances of water/saline filled copper tubes behave in the normal manner in which frequency times wavelength equals the velocity of free space electromagnetic radiation. The half- and quarter-wavelength microwave resonances for a 15 cm straight length of saline filled copper tube approximated to the 940 MHz and 500 MHz resonances found for the ‘Personal Harmoniser’.

Yet another anomaly is to be found in the resonance-frequency/tube-length plots for water/saline filled copper tubes with lengths around 21 cm, the anomaly extends approximately from 10 cm to 30 cm. and includes the ‘Personal Harmoniser’. This anomaly is centred on the 21 cm hydrogen molecular resonance at 1420 MHz. This frequency interacts with water memory for example, it is able to transform resonances which can only be detected with a Caduceus coil to resonances which can be detected with a solenoid or toroid.

Resonance frequencies as measured in water or from persons usually involve two frequency branches of coherent waves. The higher frequency branch corresponds to propagation at the velocity of light in free space ( $\sim 3 \times 10^8$  m/s) (with no interaction giving rise to a refractive index because of the coherence). The lower branch corresponds to the



velocity of coherence propagation. This is the diffusion of order in the way that heat travelling along the handle of a saucepan is the diffusion of disorder.

The mean of the two ratios for the ‘Personal Harmoniser’ in Table 5 gives the velocity of its coherence waves as 4.6 m/s. This is quite reasonable since the measured velocity of coherence propagation along a sample of tinned copper wire was 4.0 m/s and for normal saline in a glass tube, 3.1 m/s.

However, there remains the anomaly of the resonance frequency increasing with length which implies that the velocity of the coherence propagation increases with the square of the coherence length of the resonator and requires some theoretical insight.

**Table 5: Constant Frequency Ratios for ‘Personal Harmoniser’**

$$286 \text{ MHz} / 4.26 \text{ Hz} = 6.7 \times 10^7$$

$$500 \text{ MHz} / 7.8 \text{ Hz} = 6.4 \times 10^7$$

$$\text{Mean ratio} = 6.55 \times 10^7$$

## EFFECTS OF THE ‘PERSONAL HARMONISER’ ON THE ENTRAINMENT OF EXOGENOUS FREQUENCIES

### Effects of the ‘Personal Harmoniser’ on Frequency Stimulation of the Chakras

To be effective, the ‘Personal Harmoniser’ needs to be in contact with the skin or clothing for example in a shirt pocket; if placed on the arm of the subject’s chair it is not effective. The Chakras have their own endogenous frequencies and can be stimulated by nearby frequencies present in the environment, thus:

- Crown of Head is stimulated by 0.26 Hz
- Forehead “ 2.96 Hz
- Heart “ 7.80 Hz
- Umbilical “ 23.2 Hz
- Thyroid, Pubic & Coccyx “ 81.5 Hz

The use of the ‘Personal Harmoniser’ stopped an environmental electromagnetic field of a frequency which would normally have resulted in Chakra stimulation as shown above, from producing any detectable effect on that corresponding Chakra.

## TESTS ON THE “PERSONAL HARMONISER”

### Testing the ‘Personal Harmoniser’ on Frequency Entrainment at GV14

The acupuncture point GV14 (Du Mai meridian) reflects the status of the cerebro-spinal fluid and it is extremely sensitive to the electrical environment. It will entrain the strongest environmental frequency over a very wide range. Its endogenous frequencies are approximately 4.3 Hz and 149 MHz. The former frequency is effectively the lowest resonance measured for the ‘Personal Harmoniser’.

A 1 cm diameter stainless steel electrode was affixed to acupuncture point GV14 on the subject and connected to a hand electrode for measurement purposes.

- GV 14 would entrain to environmental frequencies from  $10^{-4}$  Hz to 1 Hz, from 10 Hz to 136 MHz, from 160 MHz to 1.41 GHz and from 1.43 GHz to 4.2 GHz this being the highest frequency tested. There was no entrainment over any of these frequencies when the ‘Personal Harmoniser’ was in a shirt pocket.
- The frequency bands from 4.2 Hz to 4.4 Hz and from 136 MHz to 160 MHz are endogenous to GV14 and the ‘Personal Harmoniser’ in a shirt pocket did not eliminate these resonances. The frequency 1.42 GHz is the 21



cm hydrogen molecular resonance and water has unusual properties at this frequency so, it is not unexpected that the ‘Personal Harmoniser’ will not affect this frequency.

- ❑ All the above frequencies as measured from the ‘Personal Harmoniser’ were imprinted into a glass tube of water by succussion. When held in the hand, there was no effect on the GV14 entrainment from  $10^{-4}$  Hz to 900 MHz. Therefore, it is not just the particular pattern of resonance frequencies which makes the ‘Personal Harmoniser’ an effective protection against the electrical environment, but its geometry too.
- ❑ The above Table 1 frequencies were inserted in ascending order, one at a time, into a piece of plastic tube (6 mm O/D, 4 mm I/D) filled with water. This must be done using a permanent magnet to imprint the water as the plastic cannot be succussed. There was no effect on GV14 until the last frequency (1880 MHz) had been imprinted. Imprinting only this one, 1880 MHz was ineffective. Thus, all the frequencies in Table 1 are necessary.
- ❑ All the above (Table 1) frequencies as measured from the ‘Personal Harmoniser’ were imprinted into a piece of plastic tube (6 mm O/D, 4 mm I/D) filled with water and with the tube straightened out. This must be done using a permanent magnet to imprint the water as the plastic cannot be succussed. All entrainment at GV14 disappears when the tube is coiled into a 3-turns spiral and re-appears when straightened out again. If the tube is re-filled with fresh water, all effects disappear thereby confirming that both the particular pattern of frequency imprints and the particular geometry are needed.
- ❑ All the above frequencies as measured from the ‘Personal Harmoniser’ were imprinted again into the piece of plastic tube (6 mm O/D, 4 mm I/D) re-filled with water. It was then coiled into a double spiral the size and shape of the ‘Personal Harmoniser’ and secured with adhesive tape. This was as effective as the ‘Personal Harmoniser’ in protecting GV14 from environmental frequencies. Erasing the frequency imprints in the water by placing it briefly in a closed steel box rendered the arrangement ineffective as a protection for GV14.

## Effects of Mental Activity

The frequency entrainment at the Chakras can be ‘blocked’ and ‘unblocked’ by mental concentration and intention whether the ‘Personal Harmoniser’ is used or not. This means that the ‘Personal Harmoniser’ does not override *intentioned* mental activity.

## Polarisation Properties of the ‘Personal Harmoniser’

A set of parallel metal wires (a hard-boiled-egg slicer) transmitted the 4.260 Hz resonance if parallel to the long axis of the ‘Personal Harmoniser’ but, not if perpendicular to it. This means that the ‘Personal Harmoniser’ has its electric field vector between the turns of the spirals and not between the two spirals. There is no polarisation effect edge-on to the ‘Personal Harmoniser’.

## Temperature Effects and “Hidden” Frequencies

It was brought to my attention at a conference that the German homoeopathic pharmacies are following EU regulations and heating all their preparations to 90°C. This has the effect of making a potency come out lower than that given on the label. For example, D10 comes out as D6. The original potency can be restored by succussion but, no one tells the patients to do this. The water imprint is erased at 70°C which leaves the question as to whether there any bio-information left in these heated preparations?

I have found that the imprint of a frequency put into water and measured by stimulating with a toroidal coil disappears when the water is heated to 70°C, using my dowsing method to detect its presence. I found that heating medications (or drips) above 70°C (where this is possible) alters them sufficiently to make them tolerated by electrically hypersensitive patients which is clinically very useful. On the other hand, someone talking to me at a conference a few years ago very positively asserted that from his experience something definitely remained in a homoeopathic potency even after autoclaving.

To simulate a potency in an easily measurable way, the frequency 1 kHz was imprinted into a tube of water. This was heated while comparing its dowsing reaction against an unheated aliquot. At 70°C, the reaction changed from ‘stimulatory’ to ‘stressful’. This was accompanied by the appearance of additional ‘stimulatory’ resonances at 100 Hz and 10 kHz. Thereby maintaining the usual pattern of the first and last resonances being ‘stimulatory’ and alternating with ‘stressful’ resonances. Succussing the tube which had been heated between 70°C and 90°C recovered the original



‘stimulatory’ imprint at 1 kHz and the resonances at 100 Hz and 10 kHz disappeared. From 90°C to boiling point, there was yet another change in the dowsing reaction and this time, no resonance was found at 1 kHz.

Water imprinted at 1 kHz was heated in a glass vessel inside a pressure cooker to 121 °C for 3 minutes and allowed to cool. Testing at 1 kHz gave no response. In the presence of 2.65 GHz, 1.42 GHz or 384 MHz there was a minimal response. Succussion with the stimulatory toroid configuration at any of these frequencies gave the fully restored 1 kHz imprinted resonance. In all cases the changes persisted through cooling to room temperature and subsequently.

The recovery of the original 1 kHz imprint from the autoclaved water is effected by succussing in the presence of certain very specific frequencies namely, 384 MHz, 1.42 GHz or 2.65 GHz.. The position of the water in relation to the coil and the geomagnetic field is significant. The frequency 1.42 GHz corresponds to the (21 cm wavelength) resonance of molecular hydrogen. The frequencies 2.65 GHz and 1.42 GHz correlate to the far infra-red wave number differences for the rotational water transitions  $357\text{ cm}^{-1} - 213\text{ cm}^{-1} = 144\text{ cm}^{-1}$  and  $213\text{ cm}^{-1} - 128\text{ cm}^{-1} = 85\text{ cm}^{-1}$  respectively which also appear at the lower frequencies as a consequence of coherence. The 384 MHz is the high frequency branch of the heart meridian and heart Chakra frequencies, 7.8 Hz is the lower branch. The original imprint can also be recovered by merely holding the tube against the heart Chakra.

In all the above cases, placing aliquots in a closed steel box at ambient temperature resulted in the erasure of any frequency imprint. This erasure seemed permanent and the imprint thus erased could not be recovered by any method found so far.

A dilute solution of a chemical (e.g. NaCl at 6 mM) had its chemical frequency signature “hidden” by succussion with stressful toroid configuration at 2.65 GHz, 1.42 GHz or 384 MHz (or, at 7.8 Hz the lower branch of 384 MHz or, by placing the aliquot against the heart chakra). It is recovered with the stimulatory toroid configuration relative to the geomagnetic field direction. Chemical frequency signatures appear to be unaffected by placing the solutions in a closed steel box.

Heating a potency between 70°C and 90°C does alter it, the original potency is recoverable by succussion. The model for this is that the imprint below 70°C retained in a toroidal configuration in the water but that above 70°C, the toroid becomes broken open to a solenoidal configuration. The imprint between 70°C and 90°C can be read using a solenoidal coil.

Heating a potency between 90°C to water boiling point and above to 121°C, makes a further change to the imprinted frequency which is not recovered by straightforward succussion. It can be read using a Caduceus coil (a two layer solenoid with opposite winding direction for each layer). The model for this is that the imprint is now retained in a linear configuration since two oppositely rotating magnetic vector potentials are equivalent to a planar one.

The writer is not sure how precise and stable the transitions at 70°C and 90°C are so, care should be taken if potencies are to be heated anywhere near these temperatures as recovery of the original potency may be necessary and succussion alone may not be effective.

### **“Hidden” Frequency in the ‘Personal Harmoniser’**

Testing the ‘Personal Harmoniser’ with a Caduceus coil showed only a single resonance, this was at 4.000 Hz. This appears to be of technological origin because of the integer precision of the frequency. The only likely source of a technological frequency is the 50 Hz power supply. The counter-wound spirals of the ‘Personal Harmoniser’ would enable coupling to the Caduceus coil. The factor of  $12\frac{1}{2}$  between 4 Hz and 50 Hz may be a combination of the geometry of the ‘Personal Harmoniser’ and some technological frequency which could be a sub-multiple of 50 Hz if coming from an electric motor field.

The ‘Personal Harmoniser’ protects the wearer against effects of frequencies originating from a Caduceus type of coil as measured at the GV14 acupuncture point.



## CONCLUSIONS

The ‘Personal Harmoniser’ is a flat twin opposing spiral of copper tube containing water treated by a process called “implosion” which from its name is likely to be derived from the collapse of cavitation in the water. This appears to impart to the water certain resonant frequencies, the lowest of these being at the typical endogenous frequency of the Du Mai meridian. The Du Mai-GV14 acupuncture point on this meridian reflects the status of the cerebro-spinal fluid and is extremely sensitive to the person’s electrical environment.

Some resonances in the ‘Personal Harmoniser’ are imprinted others arise from its geometry, both features are necessary for it to function as a personal protection device from the electrical environment. Still not enough is known about the mechanisms of electrical sensitivities to be able to define fully its mechanism of action. There is often an effect whereby the strongest frequency in the environment is the one to become imprinted at an acupuncture point, Chakra or, even into a cell culture in vitro. When imprinting happens, the imprint becomes equivalent to the chemical signature of a toxic substance and restricts the electrical activity of that organism and its ability to respond to its normal metabolic processes and environmental stresses.

So long as the user does not happen to be hypersensitive to any of the resonant frequencies of the ‘Personal Harmoniser’ it should be able to prevent entrainment of any environmental frequencies except those near the endogenous frequencies of GV14 and near the H<sub>2</sub>-molecule resonance where there are anomalous effects in water anyway. The 4.260 Hz resonance of the “Personal Harmoniser” used as recommended is likely to have a stronger effect at the body than most environmental fields thus ensuring that an endogenous frequency is supported rather than one from the environment becoming entrained. The writer cannot explain why the remaining frequencies in Table 1 also seem necessary. The geometry of the “Personal Harmoniser” suggests that it interacts preferentially with polarised waves. In this device, we are beginning to glimpse some fundamental interrelation between morphology and frequency.

Cyril W. Smith, Ph.D. July 19, 2001

### **About the Centre for Implosion Research**

*The Centre for Implosion Research was founded in December 1997 by Dolly Knight, MBBS, GCHM and Jonathan Stromberg, BSc, MSc, DIC, FGS.*

*The Centre’s mission is to realise Viktor Schauberger’s goals by developing a type of technology that is antithetical to the conventional polluting and exploitative technologies, in that it is pollution free and works in harmony with Nature.*

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