

Spectral Analysis.

The soundscape of Krems has a number of strong audible resonances, e.g. 76 Hz, 140 Hz, 280 Hz. These are probably due to the typical size, shape and repetition of the streets, arcades and arched doorways in the town being excited by the sounds of human and animal voices, traffic and machines. There are also many resonance phenomena existing in the electromagnetic (EM) spectrum. Normally inaudible, they still perhaps affect our bodies and brains in other ways. This soundwalk documents five attempts to make connections between the audible and the inaudible worlds.

1: Pfarrhof. Stand in the middle of the courtyard to listen to this track.

The proof, conducted in 1886 by Heinrich Hertz, that electromagnetic (EM) radiation was a wave phenomenon made it possible to conceive of the equivalence of sound, light and electrical energy. In 1899 Nikola Tesla observed global EM resonance for the first time. “[This means] that the Earth is responsive to electrical vibrations of definite pitch just as a tuning fork to certain waves of sound” he wrote. Schumann resonances, discovered in 1952, form a constant pattern in the earth’s EM spectrum, excited by lightning discharges in the cavity formed between the earth’s surface and the ionosphere. Their fundamental frequency is 7.86 Hz, too low to be heard directly. However, our brainwaves are said to be “in tune” with this frequency, and it is claimed that re-tuning one’s brain with Schumann resonances is beneficial to health. In this experiment the acoustic resonances of Krems are intensified and then modulated with the Schumann frequencies. The Pfarrhof is an ideal place to listen to both the acoustic resonances of Krems and the Schumann resonances as its dimensions co-incide with their wavelengths. The dark circles in the paving stones are spaced at the 2nd and 3rd harmonic of the Schumann resonance.

2: Fountain in the centre of the Hoher Markt. Stand, looking into the fountain and resting one hand on the iron bars in the stone.

Franz Anton Mesmer (1734-1815) was known for the cures he performed by manipulating “animal magnetism”. He theorised that there was a natural energetic transference that occurred between all animate and inanimate objects. His work contributed to the development of modern psycho- hypno- and electro-therapy. In 1777 he left Vienna in a hurry – he had succeeded in restoring sight to the famous blind pianist Marie Theresia von Paradies, but in doing so he ruined both her nerves and her brilliant playing technique. Before moving to Paris, he stayed with friends in Krems and contrived to construct the *Bacquet* or Magnetic Fountain on the Hoher Markt. By touching the iron bars set into the stone, the patient makes contact with the magnetised fluid within. Mesmer was a virtuoso on the Glass Harmonica, and played it during his healing sessions to tune the nerves and encourage the flow of magnetic fluid.

3: Piaristen park, on Piaristengasse. Start the track at the entrance and enter the park slowly.

The existence of Telluric Currents (flows of electricity through the earth) has been known since the mid-19th century. Use of these currents were made by the

developers of Earth Batteries, which were used to power the first telegraph lines, and there is still much interest today in this phenomenon.

Dr Ernst Hartmann (1915-1992) observed that some areas of a hospital were more conducive to healing than others. He experimentally determined that a grid of radiation covers the earth's surface. At some points, these lines form a "Hartmann Knot", a place of negative energy. Hartmann's work has been related to the study of Ley Lines and Feng Shui, but also to the Orgone energy of Wilhelm Reich. At this park the experimenter attempted to detect the Hartmann Grid and telluric currents by using an EM receiver. Because it has been suggested that humans and animals are most sensitive to these energies, the experimenter also recorded his skin resistance with electrodes. As you wander about the garden, you will hear the results of this experiment.

4: Barred archway containing the grave of Rabbi Nehemia Bar Jakob and a door to the crypt at the side of the Piaristen church. Stand at the bars. and look down towards the doorway.

The concept of entropy together with the idea that the soul is an electrical phenomenon was instrumental to the development of Spiritualism in the 19th century and the idea of hearing voices from beyond this world.

Konstantins Raudive, a student of Carl Jung, began to experiment in the mid-1960's with tape recorders and sensitive microphones to capture what he termed "Electronic Voice Phenomena". Later he used diode receivers to detect voices hidden in the static. Here, at the entrance to the crypt, you will listen to a similar experiment, made in the very early hours of the morning. Filtered noise was played into the space between the arches and simultaneously broadcast to a nearby radio-receiver, thus passing through both acoustic space and EM space (the Ether). The results were recorded and repeatedly re-played into the archway, building up resonances. The experimenter has not detected any voices in the recording as yet, but Raudive recommended repeated listening.

5: Viewing point, opposite the entrance of the Piaristen Church. Stand so that you can look over the town.

During your day in Krems you have been registered by more than 50 videocameras, 24 microphones and 227 other sensors. Your mobile phone constantly reports your whereabouts, as well as any information you may down- or up-load.

All this information is processed, torn into a million pieces and transmitted via satellite dishes and antennae into the stratosphere, the ionosphere, the noösphere. Your image is thereby constantly transformed into EM energy. Here, looking over the town, you bathe in the radiation of your own being. For your safety, the journey will end soon . Please feel free to expose yourself to this energy field for as long as you like but, if you start to feel dizzy or queasy, stop the experiment immediately and return the equipment to the café.