

Krems. Artist in Residency Program
Mario de Vega (MEX)

Thermal

Thermal is a research about molecular irritation, high frequency demodulation, overheating, acoustic reflection and electromagnetic activity amplification using a microwave oven and customized hardware.

During the residency period, sound documents and formal results were obtained using a microwave oven to modify the molecular composition of several objects using customized hardware to demodulate into audible ranges electromagnetic activity produced by a microwave oven during the overheating process of different materials.

Microwave radiation is related with infrared frequencies. Microwaves are electromagnetic waves with wavelengths ranging from as long as one meter and as short as one millimetre, or equivalently, with frequencies between 300 MHz (0.3 GHz) and 300 GHz. Any metal or conductive object placed into the microwave will act as an antenna to some degree, resulting in an electric current. This causes the object to act as a heating element. This effect varies with the object's shape and molecular composition.

Working with a microwave oven high frequency activity is produced in relation with the molecular activity of the object inside the machine and self-design hardware was used to demodulate into audible ranges high frequency and electromagnetic activity produced by the overheating of different materials.

The result of those sound recordings will be published in 2011. Lambda prints of the results will be show as acoustic references and objects will be contextualized as purely formal values able produce content and testify activity.

Mario de Vega (Mexico City, 1979)
<http://maridoevega.info>

Through site-specific works, process-oriented projects, multiples, sculpture, electronic interface design and custom software his work explores sonority as visual element, the potential of unstable systems to produce un-expected formal results and the value of poorly defined methods of production as an ambiguous process to confront behaviors between users, objects and spaces.

His work has been exhibited in different contexts throughout Europe, Mexico, United States, Canada, United Kingdom, Russia, Japan, Korea and South America.

Works and lives in Berlin, Germany.

