



# SOUND PLASTICS

BY ROLL WEILAND © 2001



[www.soundplastics.com](http://www.soundplastics.com)

# CONTENTS

---

- SOUND PLASTICS PHILOSOPHY
- PLASTIC "WHALE-SONG"
- PLASTIC "JUNGLE-ATMOSPHERE"
- PLASTIC "ACTIVA MUSICA"
- PLASTIC "KING OF QUOTATION"
- PLASTIC "JOKER"
- PLASTIC "ACTIVA ACCOUSTICA"
- EXPECTATIONS OF THE ARTIST

**real videos available on my internet site**

## **ROLL WEILAND**

44, rue Pasteur

L-3543 Dudelange

Tel: (+352)52 34 60

e-mail: [weiland@vo.lu](mailto:weiland@vo.lu)

[www.soundplastics.com](http://www.soundplastics.com)

# SOUND PLASTICS PHILOSOPHY

---

*A person moving close to the object (sculpture) produces an individual sound pattern.*

*The sound pattern is an audible reflection of the person and its movements. Sensors attached to the sculptures give every person approaching a personal sonorous atmosphere.*

*The viewer, becoming aware of the individual character of the sound pattern, is involved in an interactive relationship to the object. A new whole is created, wherein the person completes the work of art. When the viewer becomes conscious of being part of the work of art he believed to be contemplating only, possibly his perception of the situation as a whole is changed. The more he starts reflecting his contribution to the whole, the more his attention is drawn from the object to himself.*

**GENERAL INFORMATION**

The whales' voices are triggered by touching and caressing the sculpture. The sounds, numbering 16, originate from different kinds of whales.

The sculpture is made of a fruit-tree's trunk, the base is forged of steel.

**TECHNICAL REALIZATION**

The sensors are metal pins inserted into the wood. ( $\varnothing$  1mm). They react to the touch of fingers or hands, emitting electrical pulses, which are transmitted to a sound module via electronic devices.

The sound module, comprising 16 different sounds, makes the pulses audible.



**dim.:** Height (including steel base) = 1.76 m  
Length (including steel base) = 1.10 m  
Width (including steel base) = 0.56 m  
Additional external device:  
A unit sized 0.55m / 0.40 m / 0.30 m  
containing the electrical equipment.  
Power supply: 220 V

### GENERAL INFORMATION

The viewer starts off sounds by his movements close to the sculpture. The sounds originate from different kinds of wild animals and a musical instrument.

The sculpture is made of the root of a fruit-tree, the base is likewise made of wood.

### TECHNICAL REALIZATION

The 6 sensors are light depended resistors "LDR" sensitive to light inserted into the wood ( $\varnothing$  7 and 10 mm). They react to light and shadow the viewer induces by his movements.

The changes in voltage of the "LDR" are transmitted to a computer and then to the sound modules.

**dim.:** Height (including base) = 0.83 m  
Length (including base) = 1.45 m  
Width (including base) = 0.64 m  
Power supply: 220 V

No external device is needed, since all necessary gear is placed inside the sculputere's base.



### GENERAL INFORMATION

The viewer starts off sounds by his movements close to the sculpture, the sounds being those of different musical instruments. The sculpture is made of the root of a fruit-tree, the base is likewise made of wood.

### TECHNICAL REALIZATION

The 7 sensors ( $\varnothing$  7mm) are light depended resistors "LDR" sensitive to light inserted into the wood. They react to light and shadow the viewer induces by his movements.

The changes in voltage of the LDR's are transmitted to a computer and then to the sound modules.

The instrument playing is changed by hand or head movements above the sculpture.

No external device is needed, since all necessary gear is placed inside the sculputere's base.



**dim.:** Height (including base) = 1.30 m  
Length (including base) = 0.45 m  
Width (including base) = 0.45 m  
Power supply: 220 V

**GENERAL INFORMATION**

The viewer starts off the rezitation of quotations by his presence. Every movement is followed by a quotation.

The sculpture is made of wood (fruit-tree), the base, wherein electronic devices and loudspeakers are placed, is likewise made of wood.

**TECHNICAL REALIZATION**

The sensors are ultrasonic sensors ( $\varnothing$  16mm) inserted into the wood, reacting to the movements of the viewer. Electronic transmission to a CD-player make the quotations heard.



**dim.:** Height (including base) = 1.79 m  
Length (including base) = 0.40 m  
Width (including base) = 0.40 m  
Power supply: 220 V

**ADDITIONAL POSSIBILITIES**

A change of language or topic is possible by simply using a different compact disc.

**GENERAL INFORMATION**

The viewer starts off samples of laughter of different persons by his movements close to the sculpture.

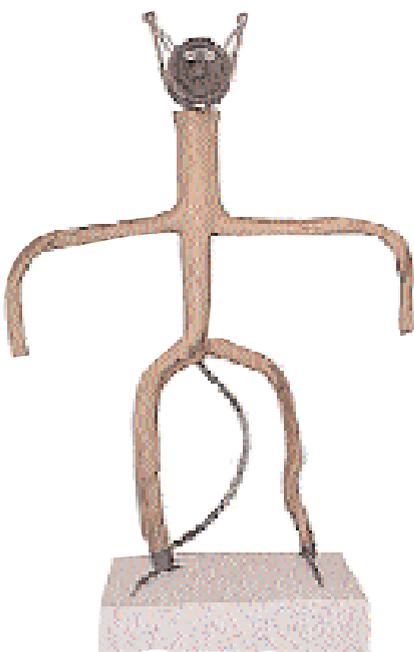
The sculpture is made of a fruit-tree trunk, the base is also made of wood.

**TECHNICAL REALIZATION**

The sensors are a microwave sensor (25X15mm) and 4 light depended resistances "LDR" sensitive to light ( $\emptyset$  9mm) inserted into the sculpture. They react to shadow and light and movement of the viewer close to the sculpture.

The changes in voltage of the "LDR's" are transmitted to a sound module via electronic devices. The microwave sensor triggers a sequence of laughter when it notices movement.

No external gear is needed since all devices are built into the base of the sculpture.



**dim.:** Height (including base) = 1.83 m  
Length (including base) = 0.65 m  
Width (including base) = 0.45 m  
Power supply: 220 V

**ADDITIONAL POSSIBILITIES**

A change of topic is possible simply by exchanging compact discs.

### GENERAL INFORMATION

The viewer - most effectively two at a time - triggers diverse sounds by movement of hands around clefts and surface of the sculpture.

The sounds are produced by two independent midi devices, one rendering instrumental sounds, the other reproducing sounds the artist himself sampled. These Sounds can be adjusted to chosen topics.

The sculpture is made of the trunk of a deciduous-tree, the base is likewise made of wood.

### TECHNICAL REALIZATION

The sensors are:

- a) two photosensitive rheostats inserted into the wood (LDR, Ø 9mm). They react to light and shadow close to the sculpture and induce the sort of sounds produced.
- b) 20 red lamps (LEDs) and the LDRs facing them. Movement between these interrupt the beam of light, thus triggering a single sound corresponding to the sensor.



**dim.:** Height (including base) = 1.75 m  
Length (including base) = 0.50 m  
Width (including base) = 0.56 m  
Power supply: 220 V

### ADDITIONAL POSSIBILITIES

The kinds of sounds can be adjusted to chosen topics.

# EXPECTATIONS OF THE ARTIST

---

## EXPECTATIONS OF THE ARTIST

The sound-sculptures are in a successful phase of development, but without support further development will hardly be possible.

**The purpose of this presentation is to find people interested in exhibiting or displaying the existing sound sculptures or renting them for display, or even ordering new sculptures**

## FUTURE PLANS

Roland Weiland:

"I could imagine developing a pure "sound-installation" integrated into the architecture of a building, a hall for example, which is frequently passed by people. Since persons and their movements always vary, they always generate different sound spectrums. Such an installation covering a whole room, where many parameters must be taken into consideration, will be expensive, **and it will hardly be possible for me to realize it on my own without the help of a patron.** "

*(January 2001)*

These examples are only an illustration of almost innumerable possibilities. The basic structure of the sculptures are transferable to almost any form and setting.

Of course the ideas of an orderer or sponsor would be discussed together.

# BIOGRAPHIE

---



## Roland Weiland

44, rue Pasteur

L-3543 Dudelange

Tél: (352)52 34 60

E-mail: weiland@vo.lu

né le 11.9.1953

à Luxembourg

## ETUDES

Primaires (de 1959 à 1967) à Luxembourg

Techniques (de 1967 à 1975) à Luxembourg

Secondaires (1975 à 1976) à Luxembourg

Cours spéciaux ( e.a. dessin et graphisme) à Luxembourg

Cours de perfectionnement dans les techniques en verrerie  
(vitrail d'art et "Tiffany Art") à Luxembourg

## TRAVAUX EN "VERRE/MÉTAL" DE 1986 À 1994

1986 Participation à l'exposition collective à la Galerie " beim Engel " à Luxembourg

1988 Exposition personnelle "vitrail mural avec arrière-plan illuminé" à la "Theaterstiffchen"

1989 Exposition collective "artistes pour la paix" à la Galerie Dominique Lang" à Dudelange

1990 Participation au salon "OMNES" au nouveau théâtre à Luxembourg

1991 Participation à une exposition collective à la Galerie "beim Engel" à Luxembourg

1992 Exposition personnelle à la Galerie "Dominique Lang".

1993 Exposition personnelle à la Galerie du "Théâtre d'Esch-sur-Alzette"

1994 Participation à l'exposition collective "Stop Aids Now" à Luxembourg

## SOUND PLASTICS DEPUIS 1996

1997 Exposition de la première plastique " CHANTS DES BALEINES"  
à la "foire de printemps" au stand de la Radio "100,7"

2003 Exposition collective "Konscht am Minett"

1998 Installation à Dudelange à l'événement "SONORA MACHINE"

2001 Exposition privée à Dudelange au Restaurant "la Piscine"

2001 Exposition " Centre des Conférences des Institutions Européennes " Congrès" au  
"Luxembourg Kirchberg à Luxembourg. (mai à sept.)

2002 Exposition " Klanglandschaften Hoscheid " au Centre 2000 à Hoscheid

2002 Exposition avec Christophe Flammang à la Galerie B/C2 à Bettembourg

2003 Exposition collective "le son, la lumière, la couleur, la terre" au château de Bourglinster

2004 Château d'Useldange Sites et Monuments "4 sculptures musicales" projet en cours