

## Music, Books, & Research by Barbara Hero



The realization that sounds could have shapes led to experimenting with sine-wave generators and oscilloscopes, and later to laser/scanner systems using the mathematics of the Lambdoma matrix translated into audible frequencies (in cycles per second), to demonstrate the beautiful phenomena of "seeing sound". Almost all of the cassettes in our catalogue were recorded by selecting the mathematical intervals from the Lambdoma matrix which produced the most beautiful shapes.

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*(Item AT1)*

### The Healing Nature of Sound



Computer generated frequencies are presented to you on this tape that they may inspire self healing when you are willing to let that happen. These chords were composed by Barbara Hero based upon her interpretation from the atomic number of nutritive elements for our bodies and the dimensions of the blood cells in the human body. It is hoped that the sounds that you experience will work within your subconscious to inspire a greater well-being in the months ahead. Hum along with the sounds and experience the sound intervals of the Lambdoma scale.

**Item AT1 (C-60 Cassette) PRICE: US\$10**

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*(Item AT2)*

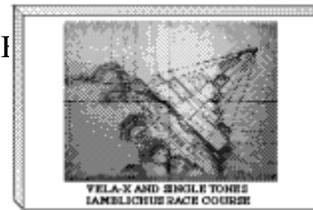
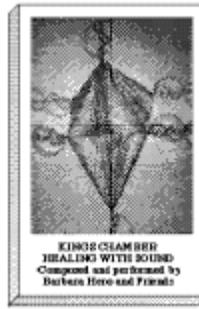
### Grand Gallery Galaxy Sounds Universal Law Harmonies

Side 1: This recording brings you the expressive sounds of our galaxy as they resonate with the Grand Gallery of the Great Pyramid of Giza in Egypt. The frequency of each tone relates to an actual dimension of the initiation gallery. Side 2: A matrix of intervals of tones based upon the Pythagorean Lambdoma Diagram and representing the energy centers in our body called Chakras. Listen and enjoy the perfect harmonies formed from this series.



**Item AT2 (C-60 Cassette) PRICE: US\$10**

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*(Item AT3)*

## **Kings Chamber Healing with Sound**

Side 1: During a spiritual trip to Egypt human voices and the Cello attune to the resonant frequencies of the King's Chamber in the Great Pyramid. The live performance was captured by Michael Sterns with his quadraphonic recording system. Side 2: These sound intervals, based roughly on a Coptic chant, were created using sine-wave generators. These sound intervals provide healing energies and each resonates with different locations within your physical, mental, emotional and spiritual bodies.

**Item AT3 (C-60 Cassette) PRICE: US\$10**

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*(Item AT4)*

## **Lambda Matrix (M.I.T. Second Set) Grand Gallery Galaxy Sounds #2**

Side 1: This matrix of sound - intervals was generated at M.I.T.'s Experimental Music Studio. The entire matrix enables one to choose the sound which resonates within their body. Side 2: This musical composition was created especially for the Second New England Composers Festival. It brings one the initiation sounds of our Galaxy as they resonate within the Grand Gallery of the Great Pyramid of Giza. Generated on a computer and played on an electronic keyboard, these vibrations alternately accelerate and slow down.

**Item AT4 (C-60 Cassette) PRICE: US\$10**

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*(Item AT5)*

## **Vela-X and Single Tones Iamblichus Race Course**



Side 1: A descending Lambda matrix scale created with a sine-wave generator is combined with a recording of radio signals received from the pulsar Vela-X at the Arecibo Astronomical Observatory. Side 2:

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This composition translates the numbers of Nicomachus' "Double Race Course" into frequencies. This recording was produced with two sine-wave generators. This work is based on an idea from Nicomachus' "Introduction to Arithmetic", Translated by Iamblichus.

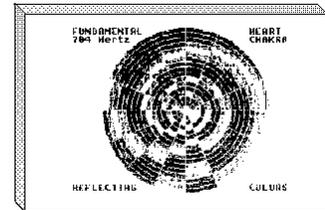
**Item AT5 (C-60 Cassette) PRICE: US\$10**

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*(Item AT6)*

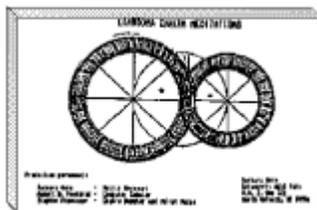
## **Music of Our Organs, Our "Key Energy Centers", Our Solar System, The Stars, The "Platonic Solids", and The Periodic Table of Elements.**

This recording is designed to create awareness of the possibilities of relating the organs of the body and their "key energy centers", to a musical vocabulary. Side 1: Interval chords for: certain body organs, energy & key energy centers, orbits of the planets, time, eleven stars, angles of 5 Platonic solids and our solar system. Side 2: Continuous sequence of musical interval chords including: solids, stars, organs of our bodies, radioactive elements, hexagonal structures and cubic structures.



**Item AT6 (C-60 Cassette) PRICE: US\$10**

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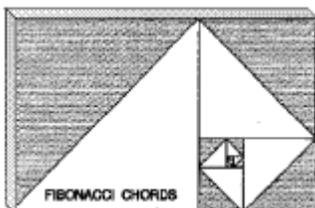


*(Item AT7)*

## **Chakra Attunement Chords (Bass & Tenor)**

These chords assist the listener in the attunement of the vibrational frequencies of the five lower Chakras. The effectiveness of the use of Chakra attunement chords, based upon the Triad (C E G), was taught by the Masters as channeled by Viola P. Neal in the book "Through the Curtain". There are 12 Chords on each side of this cassette. Each chord is introduced by its keynote. Each keynote is played by itself before its chord to allow the checking for individual keynotes. Side 1: Bass. Side 2: Tenor

**Item AT7 (C-90 Cassette) PRICE: US\$15**



*(Item AT8)*

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## Fibonacci Chords

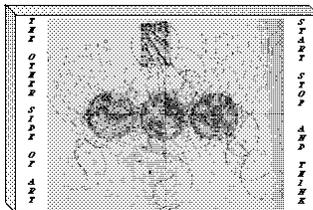
These Chakra meditation chords were created and recorded in response to the inspiration of one of the participants at our workshop "Room Resonances" given in Boston, Massachusetts as part of a series of workshops of the Timeless Architecture group. Side 1 & Side 2 Fibonacci Meditation Chords. Notes of the overtones are C=1:1, C=2:1, G=3:2, A=5:3 and Ab=8:5. Undertones are C=1:2, F=2:3, Eb=3:5 and E=5:8. Chords were produced with a Casiotone CT-640

**Item AT8 (C-60 Cassette) PRICE: US\$10**

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*(Item AT9)*

## The Other Side of Art Start, Stop and Think



This music is composed by Barbara Hero and is based upon the scores included on the drawings in the sections "The Other Side of Art" and "Start, Stop and Think" in the book ["Eyes + Ears = Ideas" \(Item B1\)](#). Each of the musical intervals in the sequences, determined by reading each drawing, was then composed and played. Side 1: A musical score was made from the drawings illustrating a Lambdoma sequence of notes and recorded at Robert Ceely's electronic BEEP Studio on Moog and Mini-Moog Synthesizers. Side 2: A continuation of the musical score of side 1.

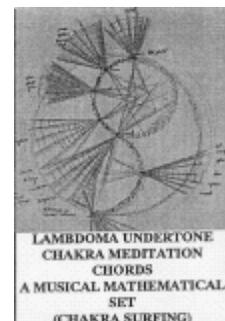
**Item AT9 (C-90 Cassette) PRICE: US\$15**

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[\(Item AT10\)](#)

## Lambdoma Undertone Chakra Meditation Chords A Musical Mathematical Set (Chakra Surfing)

The Lambdoma is an ancient matrix of Pythagorean harmonics, free of tempering, generated by multiplying and dividing a fundamental frequency by whole numbers. Side 1: The chords were produced on a computer and were especially chosen to stimulate each Chakra, having been derived from the harmonic undertone series of the Lambdoma matrix. Side 2: This version of the Lambdoma matrix was computer generated in a pattern based on the



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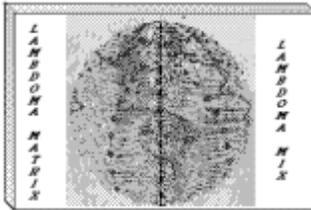
mathematician Georg Cantor's "Cantor Array". The sounds rise and fall and are called "Chakra Surfing".

**Item AT10 (C-60 Cassette) PRICE: US\$10**

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*(Item AT11)*

## Lambdoma Matrix - Lambdoma Mix



These sounds were generated at M.I.T.'s Experimental Sound Studio by computer from an algorithm of a "Cantor Array" (Lambdoma Matrix). The intent was to make audible the sounds of antiquity, to be able to hear the intervals in music that are not based upon the diatonic, western scales, but upon a universal harmony that is mathematically derived.

These sounds have produced calming influences in two drug-rehabilitation resident communities and upon inmates in prison. Side 1: The Lambdoma Matrix. Side 2: A Lambdoma Mix produced with the help of Neil Miller

**Item AT11 (C-60 Cassette) PRICE: US\$10**

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*(Item AT12)*

## Lambdoma Chakra Meditations

Lambdoma Chakra Meditations Clinical experience indicates that the Lambdoma matrix of sound-intervals on this tape inspire us to become aware of the resonant frequencies of our own Chakra system. The specific frequencies of these sound-intervals inspire an opening and cleansing of our Chakra energy centers. Steven Proskauer determined the Chakra frequencies, Robert Miller Foulkrod wrote the computer program and Barbara Hero provided the specific frequencies from the Lambdoma. Side 1: Ascending form. Side 2: Spiral Form.

**Item AT12 (C-60 Cassette) PRICE: US\$10**

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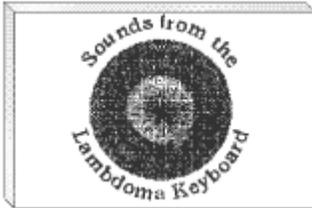
*(Item AT13)*



## Playing Lambdoma Art Fibonacci Lambdoma

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Side 1: Hear works of fine art played by the flutist Adam Hubble. Barbara Hero's Lambdoma art was in a solo exhibit at Max Protech's Gallery in Washington, D.C. and included drawings on canvas from the "Start, Stop and Think" section of the Book "[Eyes + Ears = Ideas](#)" ([Item B1](#)). Musical notes had been included in some of the works of art and Adam played these on his flute as scores. The music is very similar to compositions from the BEEP studio, where Barbara composed the score and recorded it on Moog and Mini-Moog synthesizers. ([Item AT9](#)) Side 2: This is a meditative composition based upon the ratios of the Fibonacci series translated into musical intervals. The ratios are 1:1, 2:1, 3:2, 5:3, 8:5, 13:8, 21:13 and their reciprocals. This music reflects in sound the principles of the "Golden Section" in sacred geometry. The intervals follow the same ascending intervals of the eight Chakras on side 1 of the "Lambdoma Chakra Mediations" tape. ([Item AT12](#))



**Item AT13 (C-60 Cassette) PRICE: US\$10**

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*(Item AT14)*

## Sounds from the Lambdoma Keyboard

The Lambdoma Keyboard became a reality on June 10, 1994, and has been demonstrated to select audiences. One of the important facts about the Lambdoma Keyboard is that no matter which frequency, in the middle audible range, is chosen, there is no dissonant note heard. That is because of the mathematical nature of the tuning system. It is not tempered, but is made up of pure harmonics as well as their reciprocal sub-harmonics. Side #1: Undertones and Overtones (Sounds played from the first quadrant of the Lambdoma Matrix.) The first intervals played were from the ascending overtone series based upon the fundamental frequency of 256 Hertz. The reciprocal intervals were then sounded on either side of the fundamental. Then the keyboard was randomly played until the fundamental was changed to another frequency in the Chakra set. In each set the overtone is sounded, then the reciprocals, the random fingering of the matrix. The listener is able to distinguish each fundamental by hearing the overtone series after a pause, and noting the interval sets which seem to be the most pleasant. Each of the "fundamental runs" represents one of the major Chakra energies. Side #2: Overtones and Undertones (Sounds played from the fourth quadrant of the Lambdoma Matrix.) Side two begins with the fundamental ascending overtone series with the beginning frequency of 256, and the interval tones are played in geometrical patterns. Each pattern has every ratio of that matrix sounded in scale-like progression. The energy seems quite different when listening to these runs. The last set of interval tones are based on the descending undertone series of the harmonics of the fundamental frequency of 256.



**Item AT14 (C-60 Cassette) PRICE: US\$10**

**set of 4 Self-Healing Tapes**

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"Self-Healing with Lambdoma Harmonic Keyboard Sounds." Those in the holistic health community who have used these tapes with their clients have found them beneficial. The vibrations of these harmonic frequencies may resonate to the physical, mental, emotional and spiritual bodies of the listeners. An appreciation of seldom heard musical dimensions may be awakened upon hearing the sounds. Individuals who have listened to the recordings of the Lambdoma Harmonic Keyboard have moved into other states of consciousness. These altered states have facilitated their learning of new physical, mental and spiritual awareness. Upon listening to the tapes, one hears the voice of Gordon Anderson speaking positive affirmation to the listener, encouraging self-healing by tuning in to the harmonic sounds.

*(Item AT15)*

## "Self-Healing (1)with Lambdoma Harmonic Keyboard Sounds"

Side #1: Blood - Adrenals The Music of speeds of sound through blood and adrenals. Blood: 321.9 Hertz, quadrant 4, 7 minutes Adrenals: 492.8 Hertz, quadrant 1, 7 minutes Side #2: Kidneys - Liver The Music of speeds of sound through kidney and liver. Kidneys: 319.88 Hertz, quadrant 2, 7 minutes Liver: 317.83 Hertz, quadrant 3, 7 minutes

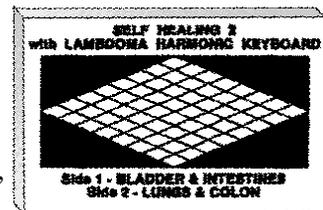
**Item AT15 (C-60 Cassette) PRICE: US\$10**

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*(Item AT16)*

## "Self-Healing (2)with Lambdoma Harmonic Keyboard Sounds"

"Self-Healing with Lambdoma Harmonic Keyboard Sounds" Side #1: Bladder - Intestines The Music of speeds of sound through bladder and intestines. Bladder: 352 Hertz, quadrant 4, 7 minutes Intestines: 281.6 Hertz, quadrant 3, 7 minutes Side #2: Lungs - Colon The Music of speeds of sound through lungs and colon. Lungs: 220 Hertz, quadrant 1,



7 minutes Colon: 176 Hertz, quadrant 2, 7 minutes

**Item AT16 (C-60 Cassette) PRICE: US\$10**

*(Item AT17)*

## "Self-Healing (3)with Lambdoma Harmonic Keyboard Sounds"

Side #1: Gall Bladder - Pancreas The Music of speeds of sound through gall bladder and pancreas. Gall Bladder: 164.3 Hertz, quadrant 3, 7 minutes Pancreas: 117.3 Hertz, quadrant 1, 7 minutes Side #2: Stomach - Brain The Music of speeds of sound through stomach and brain. Stomach: 110 Hertz, quadrant 2, 7 minutes Brain: 315.8 Hertz, quadrant 4, 7 minutes

Item AT17 (C-60 Cassette) PRICE: US\$10



(Item AT18)

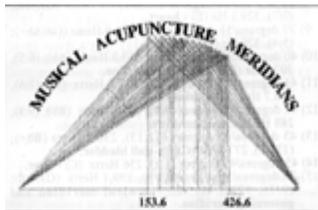
## "Self-Healing (4)with Lambdoma Harmonic Keyboard Sounds"

Side #1: Fat Cells - Muscles The Music of speeds of sound through fat cells and muscles. Fat Cells: 295.8 Hertz, quadrant 4, 7 minutes Muscles: 324 Hertz, quadrant 1, 7 minutes Side #2: Bones The Music of speeds of sound through bones. Bones: 418.3 Hertz, quadrant 2, 15 minutes

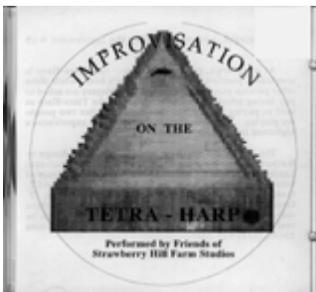
Item AT18 (C-60 Cassette) PRICE: US\$10

(Item AT19)

## "Musical Acupuncture Meridians"



The intent of this cassette is to balance our energies by translating the angles and frequencies of the acupuncture meridians into a musical vocabulary. Side 1: Each of the fourteen chords was played for two minutes on the Lambdoma Harmonic Keyboard in order to beneficially affect each meridian. Side 2: Each meridian was assigned a fundamental frequency based upon one of its meridian angles. Each one of the fifteen frequencies was played on the Lambdoma Harmonic Keyboard for two minutes in its appropriate 8 x 8 matrix in order to positively affect the body.



Item AT19 (C-60 Cassette) PRICE: US\$10

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*Item AT20 & CD20)*

## **"Improvisation on the TETRA-HARP Performed by Friends of Strawberry Hill Farm Studios"**

The inspiration for building the Tetra-Harp was the understanding that the ancient Greeks played a three sided lyre. Our Tetra-Harp is a tetrahedron shape, a three sided pyramid. Its three sides, with twelve strings each, are tuned to different scales. The Dolphin side is generally tuned to a Lambdoma harmonic tuning. The other two sides are tuned an octave apart. Our friends would tune the Tetra-Harp to their own convenience, before their improvisations. This acoustic Tetra-Harp was a collaborative design by Barbara Hero, Marcia Epstein and T. Gordon Anderson.

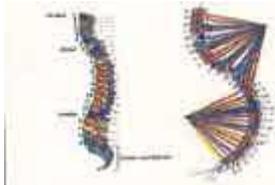
**Item AT20 (C-60 Cassette) PRICE: US\$10**

**Item CD20 (Compact Disk) PRICE: US\$15**

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*(Item AT21)*

## **"Lambdoma Music of the Spine"**



The intent of this cassette is to meditate on the harmonic sounds of the Lambdoma. The music allows your being to absorb each note while concentrating on your spinal column and receive a feeling of self-healing. Side 1: Cervical, Thoracic, Lumbar, Sacrum & Coccyx. Side 2: Coccyx, Sacrum, Lumbar, Thoracic & Cervical.

**Item AT21 (C-60 Cassette) PRICE: US\$10**

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*(Item ACD22)*

## **"The Canals of the Atlantean Plane" (Shri Swifty & the Mandali of Mantra)**

This is the first CD where the Lambdoma Harmonic Keyboard was played in a group setting, with the instruments all tuned to the Lambdoma Matrix Keyboard. The instruments were: Just Intonation Violin, Re-tuned Baldwin Electric Church Organ, Lambdoma Frequency Keyboard, Electric Just Xylophone, E Bow Fretless Guitar, F Hammerstrings, Acoustic Guitar, Tibetan Bells and Theremin. The players were: Patrick Pagano, Ben Ehrlich, Barbara Hero, Denny Genovese, Indra Harper, Trey Conner and Chris Sturgeon. The piece



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"maneuvers into the golden mean of sacred ambiance and spiritual minimalism where few have ventured."

**Item ACD20 (Compact Disk) PRICE: US\$15**

## Lecture Audio Cassette Tapes by Barbara Hero

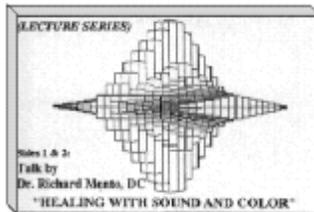


The lecture circuit began for me in the middle 1970's. These were presented as "visiting artist" lectures on the Lambdoma's influence on my painting and my musical harmonics given to the art education departments of some Universities. Of all the lectures that I have given, only a few were recorded. However, twelve lectures given to the United States Psychotronics Association were audio and video-taped. Most of my lectures or seminars consisted of demonstrations of the various applications of the Lambdoma Matrix. Since one lecture led to invitations to others, this activity blossomed. Each talk, all related to the applications of Lambdoma harmonics, was designed for a particular audience, whether the focus was on psychology, architecture, art, the shapes of sound, planetary grid systems, consciousness, innovative musical keyboards, tetra-harps, etc.

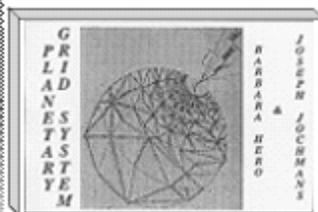
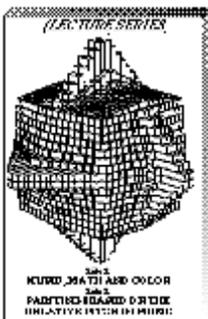
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*(Item LT1)*

## Healing with Sound and Color



Sides 1 & 2: Talk, given by Dr. Richard Mento, DC., "HEALING WITH SOUND AND COLOR" before the New Age Research Group at Davenport, Iowa, reviewing Barbara Hero's Seminar on "Healing with Sound and Color. (A few days before I was to leave for this weekend seminar, I was told that only two people had signed up for it, a farmer and a chiropractor. I decided to go anyway and found when I arrived that 15 people attended. I learned that one of the chiropractors that was present gave a talk on my talk a few months later, and that cassette was sent to me.)



**Item LT1 (C-90 Cassette) PRICE: US\$15**

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*(Item LT2)*

## Music, Math and Color Paintings Based on the Relative Pitch in Music

Side 1: Barbara Hero's lecture "Music, Math and Color", given at Boston College in Professor Daniel Baer's psychology class on "Topics in Consciousness". Professor Baer invited me to give a talk, most likely because I had mentioned at our first meeting, that I believed that the Great

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Pyramid was built by the use of sound. Side 2: Barbara Hero's lecture "Paintings Based on the Relative Pitch in Music given at the Rochester Institute of Technology in Professor Robert Morgan's class on "History of Design". Robert Morgan and I were part of the Boston Visual Artist's Union, when he was teaching at the Massachusetts College of Art. Later he invited me to give a talk as "visiting artist" at the University of Massachusetts in Amherst. Then Robert invited me to participate in a books by artists exhibit in the Ulrich Museum of Art, Wichita State University, Wichita, Kansas, where my book ["Eyes + Ears = Ideas"](#) was purchased by the Museum from that show.

**Item LT2 (C-90 Cassette) PRICE: US\$15**

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*(Item LT3)*

## Planetary Grid System

Side 1: Barbara Hero's lecture was recorded at a workshop given at the 1985 Coptic Convention in Albion, Michigan. A Lambdoma matrix was played as the background music with a fundamental frequency of 355 cps which was her translation of the diameter of the earth into a musical interval raised to an audible octave. Barbara's talk deals with the material which became the article ["International Harmony Based on a Music of the Planetary Grid System."](#) (Item A1)  
Side 2: Joseph Jochmans speaks of the energy patterns of the earth, and relates them to evolving geometric solids which eventually become the future grid system of our planet. He mentions how different angles have different frequencies, and asks "What is the new song of New Jerusalem, what is the new harmonic?"

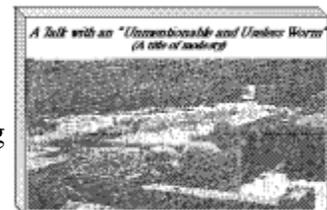
**Item LT3 (C-60 Cassette) PRICE: US\$10**

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*(Item LT4)*

## A Talk with an "Unmentionable and Useless Worm" (A title of modesty).

Join Barbara Hero, Beverly Light, Donald Beaman and Dan Baer at the cloistered St. Maccarius Coptic Monastery, Wadi Natrun, Egypt where they talk with a monk who, when asked his name, identifies himself as an "Unmentionable and Useless Worm... a Terrible Sinner" maintaining his vows of humility. Listen in on this jovial conversation as this "Keeper of the Flame" talks about, among other things, how... .. the Coptic church is the oldest Christian Church in the world having been founded in 68 A.D. at Alexandria by St. Mark. ... St. Anthony the Great, after 20 years without seeing another human being, became the father of the first Christian Mystic Community. ... the relics (bones) of John



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the Baptist and the Russian Prophets came from Jerusalem to Alexandria, Egypt. ... St. Antonasius<sup>1</sup> body was brought in 1969 from Rome to the Coptic Cathedral in Cairo, Egypt . ... St. Paul at the age of 16 years became a hermit living in the Eastern desert, at the Red Sea, remaining there until his death at the age of 116 years. A total of 90 years without seeing another human being... and many other interesting topics!

**Item LT4 (C-90 Cassette) PRICE: US\$15**

## Video Tapes by Barbara Hero



Most of my video tapes were recorded from conferences at the United States Psychotronics Association from the early 1980's to the present. Each lecture was on different aspects of the Lambdoma harmonics. Some of the topics included room resonances, international harmony based upon the music of planetary grid systems, the music of blood cells and nutritive elements, applications of the Lambdoma Harmonic Keyboard, discovering one's keynote and attuning the chakras with sound, experiencing harmonics in art, music, mathematics and architecture, art/music therapy used in drug rehabilitation programs, as well as results from a prison art project program. In all of these presentations either slides or overheads were used, and most were supplemented by hearing the music as well as seeing their Lissajous shapes generated by the harmonic intervals, with my laser scanner device.

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*(Item VT1)*

### **The Energy of Sound Seeing Sound The Nature of Healing with Sound**

First program: *The Energy of Sound by Barbara Hero*. A laser scanner system illustrates the shapes of the sounds created at the Massachusetts Institute of Technology, Cambridge, Massachusetts Experimental Music Studio. The sounds were generated by computer at the institute and were based upon the Pythagorean (500 BC) mathematical matrix. (20 minutes VHS). Second program: *Seeing Sound by Barbara Hero*. A laser-scanner system illustrates the shape of harmonic and sub-harmonic sounds generated by sine-wave generators. This video was produced as part of a Master's of Mathematics Education Degree at Boston University. (20 Minutes VHS) Third program: *The Nature of Healing with Sound by Barbara Hero* shows the light patterns of computer generated frequencies that may inspire self healing when you are willing to let that happen. This program was presented at "The International Symposium on the Nature of Healing with sound" in 1993. It is hoped that the sight of the sounds that you experience will work within your subconscious to inspire a greater well-being in the months ahead. (20 Minutes VHS)

**Item VT1 (VHS Cassette) PRICE: US\$40**

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VHS Cassettes are by special order. Allow 2-4 weeks for delivery.

## Reprints of Published Articles by Barbara Hero

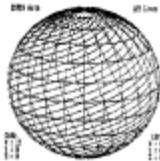


It seemed important to share some of my first insights on the Lambdoma by writing a manuscript relating art and a mathematics of music. This manuscript was finally published after much editing by the Founder/Editor Frank Malina of "Leonardo" a journal on art, science and technology. Afterwards I wrote other manuscripts and sent them to journals which had requested articles. One of the articles on the planetary grid system developed out of a letter I received from a planetary grid specialist, Beth Hagens, who asked whether I had any insights about our grid system? Most of the requests for articles were published with the exception of one on my Lambdoma weaving which I was told was "too technical" for the magazine's readers.

(Item A1)

### International Harmony Based Upon a Music of Planetary Grid Systems

INTERNATIONAL HARMONY BASED UPON A MUSIC OF PLANETARY GRID SYSTEMS  
By Barbara Hero



This article, is reprinted from a Chapter in the popular book "Anti-Gravity and the World Grid" edited by David Hatcher Childress, after first being published in the United States Psychotronics Association 1985 annual Conference Proceedings. This essay correlates the earth grid systems with specific musical notes, thus enabling one to find harmonic relationships related to distances between cities or countries. A chart of miles and corresponding musical notes is included so that one can determine the musically harmonic intervals.

Item A1 (11 Pages) PRICE: US\$4



(Item A2)

### Healing with Sound

"There is geometry in the humming of the strings. There is music in the spacing of the spheres". (Pythagoras, 500 BC). This

article, published in the spring of 1994 issue of the British healing magazine "Caduceus", was taken from the "Healing with Sound" chapter in "[Lambdoma Unveiled](#)" (Item B2). Barbara Hero describes how our bodies are manifestations of harmonic chords. Qualities of intervals in music and whole-number ratios are described. Musical scales that heal and sounds in the resonant

frequency of bodily organs are mentioned. The correspondence between sound and color and restructuring with sound are also given.

**Item A2 (4 Pages) PRICE: US\$4**

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*(Item A3)*

## **Paintings Based on Relative Pitch in Music.**

This article is a reprint of Barbara Hero's article published in "Leonardo" Vol. 8 pp 13-19, Pergamon Press 1975. By understanding some music theory, one can translate ratios in the musical Lambdoma diagram into proportions in a painting, which then reflect harmonics in music. Barbara Hero describes a correspondence between complementary colors and musical fifths, as well as other relationships.

**Item A3 (8 Pages) PRICE: US\$4**

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*(Item A4)*

## **Drawings Based on Laser Lissajous Figures and the Lambdoma Diagram.**

This article helps further explain the significance of the Lambdoma diagram and describes the use of a Laser Scanner system with stereo sound to enable one to see the actual shapes of the specific harmonic relationships between specific frequencies and key notes. Reprint of article published in "Leonardo". Vol 11 pp 301-303 Pergamon Press Ltd.

**Item A4 (4 Pages) PRICE: US\$4**

*(Item A5)*

## **Translating the Angles of the Five Platonic Solids into Musical Notes.**

Strawberry Hill Farm 496 Loop Road, Wells, Maine, 04090-7622, tel. 207-646-7950

In this Strawberry Hill Farm published essay Barbara Hero shows a method of translating given angles of the Platonic Solids into musical chords by using ratios on the Lambdoma matrix. The angles of the rhombic dodecahedron were included as it is a significant polygonal solid. This is a reprint of article published in November of 1991. The chords for these solids are sounded in the audio recording titled "[Music of Our Organs](#)".(Item AT6)

**Item A5 (5 Pages) PRICE: US\$4**

*(Item A6)*

## **The Mathematical Laws of Sound (Relationship of Sound to Gravity)**

This article was written to describe some of the laws of sound. It touches upon: variations in the speed of sound; gravity and sound; qualities and sequences of numbers; values and sequences of intergers; square root musical equivalencies; the diagonal of a square being the constant 1:1 ratio; and Lambdoma laws of inversions. Reprint of article published in "Energy Unlimited" Vol #12 pp 37 - 42.

**Item A6 (6 Pages) PRICE: US\$4**



*(Item A7)*

## **Lambdoma Keyboards, Blood Cells and Nutritive Elements.**

Article by Barbara Hero published in the 20th Annual United States Psychotronics Association Conference minutes. This paper was given with the first public demonstration of the Lambdoma Harmonic Keyboard at the conference held in Milwaukee, Wisconsin July 5-10, 1994. This was the official introduction of the Lambdoma Keyboard (the first micro-tonal device that follows the laws of the Lambdoma to produce precise harmonically related tones) developed by Barbara Hero and engineered by Robert Miller Foulkrod and Richard Lord. The Keyboard was connected to a laser scanner device to illustrate the Lissajous figures formed by the harmonic sounds coming from the keyboard. Barbara used overheads to illustrate visually many concepts related to the Lambdoma theories. It was at that conference that Barbara was presented with the "J. A. Gallimore Award for Technical Research and Development in the Psychotronics Field".

**Strawberry Hill Farm 496 Loop Road, Wells, Maine, 04090-7622, tel. 207-646-7950**

Item A7 (33 Pages, 24 illustrations and charts) PRICE: US\$8

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(Item A8)

## Demonstrated Applications of the Lambdoma Harmonic Keyboard, United States Psychotronics Association Conference Proceedings, 1995, pp 1-33

Copy of Article by Barbara Hero published in the 1995 Conference Proceedings of the United States Psychotronics Association. Barbara delivered this talk at the conference held in Milwaukee, Wisconsin July. Some of the effects of the Lambdoma Harmonic Keyboard on different individuals were documented. Theories about why people react in varied ways to the harmonic intervals of the Keyboard were shared. Possible future uses of the wisdom encoded in the Lambdoma matrix and its importance as the basis for a new symbolic language were suggested.

Item A8 (33 Pages, 25 illustrations and charts) PRICE: US\$10

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(Item A9)

## A Brief History of the Lambdoma and the Musical Properties of the Computer Program for the "Lambdoma Harmonic Keyboard." "XENHARMONIKON 16, an informal Journal of Experimental Music", Autumn, 1995, pp 104-113.

This article touches on some of the history of the Lambdoma from 500 BC to the present, mentioning Pythagoras, Iamblicus, Albert von Thimus, Kathleen Schlesinger, Hans Kayser, Rudolf Haase, Ernest McClain, Levaire and Levy. Barbara points out her applications of the Lambdoma Harmonic Keyboard.

Item A9 (9 Pages, 10 illustrations and charts) PRICE: US\$5



**Item A11 (13 Pages) PRICE: US\$4**

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*Item A12*

## **Some Effects of Whole Number Ratio Intervals in Music**

This paper was originally published in the book <sup>3</sup>Music in Human Adaptation<sup>2</sup> edited by Dr. Daniel J. Schneck and Judith K. Schneck, Virginia Polytechnic Institute and State University, 1997 pp 107 -132. This paper, which includes ten drawings and charts, answers some of the ways that the harmonic laws of the Lambdoma matrix (of whole number ratios) may have proven to have been of therapeutic value to residents in drug rehabilitation centers and a prison. It illustrates how the Lambdoma Harmonic Keyboard effects a state of profound consciousness when individuals choose their own keynote from the matrix and then play 64 intervals harmonically related to their own keynote.

**Item A12 (11 Pages) PRICE: US\$18**

