HOW TO CREATE YOUR   SINGING BICYCLES'SYMPHONY   ON THE STREET :

You've always dreamt of creating your own symphony. You've heard of early-20th-century-futurists using the street instead of the palette or the theatre.

TODAY YOU'RE THE FUTURIST-CREATOR OF YOUR OWN SYMPHONY!

It's as easy as this: you come along with your bicycle; together we carefully prepare and tune your instrument; you and your colleagues cycle in a long row; the last cyclist overtakes the whole group. The Singing Bicycle's Symphony you create, will delight you and your audience in a wonderful exciting way.

The Singing Bicycles' Symphony is an open air event for at least twelve cyclists with their own bicycles. A workshop of two hours is enough to prepare the instruments:

1. each bic receives a dynamo to generate its own electricity;
2. a loudspeaker is connected to the dynamo;
3. each loudspeaker gets a carefully calculated lenght of tube in order to obtain a musical scale ;
4. by cycling at different velocities, (the last cyclist overtakes continuously the whole group), glissandi are obtained;
5. by cycling on different pavements, timbre-variation is obtained. Cobble-stones provoke tremolo's, narrow streets reverb and echo the sounds ;
6. every cyclist wears a white overall labeled with the resonant frequency of her/his individual instrument.

LIST OF TECHNICAL REQUIREMENTS

-A minimum of 12 bicycles (let the number be X) with an electricity generator delivering 6 Volts at 3 Watts power output, as used for bicycle light installations / X cyclists-performers

-X loudspeakers with characteristics as follows:
Impedance : 15 Ohms minimum - 25 Ohms maximum
Power rating: 3 Watts minimum - 10 Watts maximum
Diameter : 105mm (equals 4.1")

-X plastic tubes (sanitary P.V.C., light quality) cut to different lenghts as follows : (in inches):
64.4";58.9";58.4";57.8";57.0";56.2";55.0";53.4";52.5";
51.3";49.8";48.0";46.5";45.6";44.7";42.5";40.5";39.7";
38.1";37.0";36.3";35.2";34.6";31.6";
These lenghts have been calculated such as to form a scale of just intonation for 24 bicycles/tubes/players.
The diameter of the plastics tube used should be 4" (10 cm).

-Ordinary thin flexibel multicore insulated electrical wire;
-Soldering Iron and solder, cutting pliers , flatnose pliers, stripping pliers, a pair of cissors, screwdrivers;
-1 large roll of very strong heavy duty sticky-tape, width ca. 2"
-a toolkit for standard bicycle repair.

LOGOS, moniek darge & godfried-
willem raes / 091/23.80.89
KONGOSTRAAT 35 B-9000 GENT BELGIUM

1980   : European creation of SINGING BICYCLES
1980-1986: performances in many European Cities
1985-sept: ITALIAN TV (R.A.I.) telecast from Trevignano - ROME

BUROFAX - TELEFAX NR. 212 . 582 . 4525
CHARLES MORROW ASSOCIATES, INC.
870 SEVENTH AVENUE
28th FLOOR
NY NY 10019
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To: ANDY CEPLOE &
CHARLIE MORROW
(press comments follow by letter)
(- IN ITALIAN -

THE NEW WILDERNESS FOUNDATION, in association with FUSION ARTS and the
EXPERIMENTAL INTERMEDIA FOUNDATION, presents two (2) events:

<u>SINGING BICYCLES TO DREAMLAND</u>

Saturday, October 25, 1986 at SHALOM'S, 57 Stanton St. (corner of Chrystie)

TELEPHONE: 614-0556

1. The SINGING BICYCLE SYMPHONY[*], 2-5 P.M., presented by LOGOS DUO from
   Belgium as their North American premiere. A two hour public workshop
   concludes with a bicycle tour of Lower Manhattan.

2. DREAM EVENT, 8 P.M. to Dawn, an all-night interaction focusing on the
   exploration of dreams by artists, poets and musicians.

The SINGING BICYCLE SYMPHONY[*](open to the public, just bring a bike), has
bicycles fitted with generators, amplifiers and resonating tubes. Their
music is varied by the street surface, the environment and the shifting
formation of the cyclists. The Performance Tour through Lower Manhattan
begins at 57 Stanton St., goes to the Lower East Side Gallery District,
across 14th St. to the West Village and Soho, across West Broadway through
TriBeCa, Battery Park, Chinatown and back to Stanton St.

The DREAM EVENT, organized by visual artist SHALOM NEUMAN and composer
CHARLIE MORROW (with Eve Teitelbaum) uses Neuman's light and sculpture
environment and Morrow's event design and music/word continuity. A blending
of the new and the ancient, activities include poets reading Dream Text
as visual artists create images, musicians inducing dreaming, the telling
of waking dream images and the re-telling of dreams from ancient societies.

Founded in 1973, the NEW WILDERNESS FOUNDATION seeks to celebrate the
connection between old and new, contemporary artwork and traditional
ritual, through live events, publishing and broadcasting. Since 1976,
the Foundation has been associated with EAR MAGAZINE OF NEW MUSIC. Its
6th annual broadcast celebration of the Summer Solstice will debut June
21, 1987 on Public Television in the U.S.A. and around the world.

The FUSION ARTS objectives are to break the boundaries between art forms,
loosening the delineations between mediums, like an orchestra composed
not just of musicians but of musicians, sculptors, poets, dancers, painters,
actors and video artists, no one discipline the dominant.

The EXPERIMENTAL INTERMEDIA FOUNDATION, founded in 1969 by intermedia
artist Elaine Summers, is dedicated to furthering creation and perform-
ance of intermedia works. Under the direction of Phill Niblock, activities
include the annual series Concerts By Composers and Intermedia Events.

<u>PARTICIPATING ARTISTS IN THE NEW WILDERNESS/FUSION DREAM EVENT INCLUDE:</u>

Michael Bates	Dorothea Joyce	Tepi Rosen
Nicholas Bergery	Ray Kelly	Jenny Rosenbaum
Carole Bovoso	Margalit Lubling	Jerome Rothenberg
Jim C.	Gloria McLean	Armand Schwerner
Michelle Corriel	Charlie Morrow	Shalom
Moniek Darge	Phill Niblock	Craig Silver
Sandro Dernini	Nanna Nilson	Mark Sloan
Emily Evans	Orange	Dmir Strmel
Freddy the Dreamer	Elizabeth Panzer	Eve Teitelbaum
David Galt	Godfried-Willem Raes	Rick Ulfick
Anna Homler	Angela Repellant	Peggy Wachtel
Leonard Horowitz	Elizabeth Rogers	Trine Walther
West		Michael Zwicky

Map of Lower Manhattan showing New Jersey, Hudson River, East River, Brooklyn, Battery Park, World Trade Center, Greenwich Village, East Village, Chelsea, and street grid including Broadway, Canal Street, Houston Street, and numbered avenues and streets.

on the **street**

singing bicycles' symphony

create **YOUR**

bloot is plezant
ook
in ons vaderland

De Morgen Juffr.

logos

Kongostraat 35   B - 9000 GENT

BELGIUM

☎ 091.23.80.89

BICYCLES TO DREAMLAND

LOGO DUO & DREAM EVENT II

NEW WILDERNESS EXPERIMENTAL FOUNDATION, INTERMEDIA FOUNDATION, FUSION ARTS.

presented by

OCTOBER 25, 1986

supported by Meet the Composer
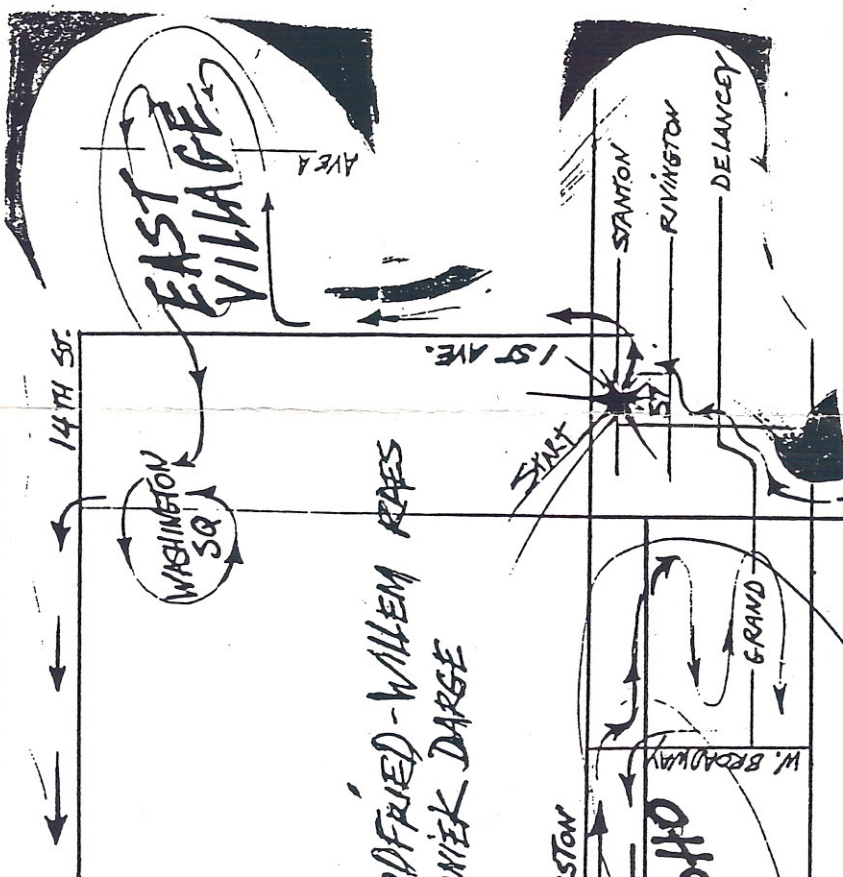
EAST VILLAGE

14TH ST.

AVE A

WASHINGTON SQ.

1ST AVE.

STANTON

RIVINGTON

DELANCEY

START

CENTRE AVE.

BROADWAY

W. BROADWAY

GRAND

HOUSTON

GODFRIED-WILLEM RAES

MONIEK DARGE

Singing

Bicycle Symphony

WORKSHOP 2 PM
TOUR 4 PM

BETA
ALPHA
THETA
SLEEP SPINDLES
K COMPLEX

DELTA

THE STAGES OF SLUMBER
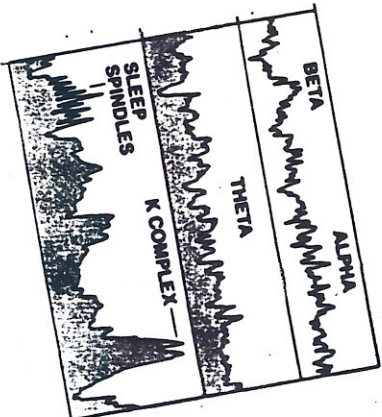
EMCEES:

Michael Bates
Eve Teitelbaum
Charlie Morrow
Shalom

EVENTS OCCURING THROUGHOUT THE EVENING:

Michael Zwicky will perform a costumed solo (2 minutes) every hour on the hour.

Gloria McLean will be a stationary body both on site and off

Rick Ulfick will perform on synthesizer and sampler both in continuity and as a soloist

Marc Sloan will perform music both in continuity and as a soloist

Shalom's environment will be both on and off as needed

Eve Teitelbaum will present verbal phrases for the group

The Ocarina Orchestra and conch Chorus will perform all evening

E. Panzer plays harp throughout the night after 10:30

Michael Goldin will be typing/writing throughout the night

Phil Rostek-Nightlong Video Business Dream.

A GOOD N...

Massie First

7:30 – Demo Mo, street music

7:30 – Ocarina Conch Chorus

8:00 – Michael Zwicky

8:15 – Craig Silver and Michele Corriel performance of "The Harmony of The Sticks" -- a No Act Play

8:30 – Carole Bovoso and Carolee Shneeman performance of a dream duet

8:40 – Nanna Nilson choreography of "Physical Memories," with Marlene Lotz dancing and William Dawes' music

8:50 – Elizabeth Rogers, poetry, & Margalit Lubling, instant painting

8:55 – Charlie Morrow Dream Chant in two parts: a) Singing, not listening to self, observing waking dream in head and b) Telling the dream

9:00 – Zwicky

9:10 – Shalom leads group participation in barking Marc Sloan performance of solo piece

9:15 – COLLECTIVE DREAM

9:15 – Michele Corriel, poetry recital of a Dream Text - paragraphs of dreams, one written each day over two weeks

9:25 – Jenny Rosenbaum, slides and sound

9:35 – Eve Teitelbaum will weave verbal dreams, Carl George will project film

9:45 – Richard Moss, slides and sound

9:55 – Patricia Burgess, solo on tenor saxophone

10:00 – Michael Zwicky

10:10 – Sandro Dernini Performance: Eating Art: The Last Capriccioso. Accompaniment by Elizabeth Panzer on harp, with a score by Charlie Morrow. This piece comprises 23 performers

10:10 – Shalom and Marc Sloan "Pledge Allegience"

10:25 – "Night Visit" -- David Galt on electronic bugle, Michele Corriel as heckler

10:35 – Jerome Rothenberg recital of Dream Texts -- a continuous reading mixed in and out for hours

10:40 – Gloria McLean performance of Blind Dance/Money Dance

10:50 – Patricia Burgess (tenor sax), Charlie Morrow (cornet) duet

11:00 – Michael Zwicky

11:05 – Dorothea Joyce: Songs, Lonelir... Peggyan Wachtal and Dmir Strme...

11:10 – Gloria McLean performance of D...

11:15 – Arleen Schloss and Charlie Mor...

11:30 – Moniek Darge reading of Dream Peformances by Godfried-Willer... and Tepi Rosen, random event b...

Midnite – Michael Zwicky

12:05 – Michael Bates performs origina... Beginning of a Dream" and "198...

12:15 – Jim C., poetry

12:30 – Dancepiece by Claire Matz, Mar... environment by Shalom

AFTER MIDNITE

– Shalom's barking

– Laurie Edmonds: masks and instant dr...

– Star Spangled Banner presented by Ar...

– Pompasello and Charlie Morrow

– Anna Henkler, performance music on c...

– Richard Malone, performance of a ski... performer)

1:00 – Michael Zwicky

1:05 – Phil Niblock, 1-hour slide/soun...

After 2:00:

2:00 – Zwicky

– Gloria McLean, Margalit Lubling, Cha... Teitelbaum, performance with sculptu...

2:30 – Poetry, Eve Teitelbaum

After 2:30

– Dorothea Joyce, Peggyann Wachtal, Dm... Horowitz, performance

– Anna Holmer, performance music on ca...

3:00 – Harp and Ocarina and Synthesize... improvisation, using blended environme...

eff. lengte   eind korrektie $v = 340\ m/s$

                 $0,62 \times R$

182 cm   +   3,1 cm   = 185.1   46 Hz ⇒ (163

161 cm   +   3,1 cm   = 164.1   52 Hz

156 cm   +   3,1 cm   = 159,1   53,4 Hz

150 cm   +   3,1 cm   = 153,1   ⇒ 148

(146 cm)   +   3,1 cm   = 149,1   57 Hz ⇒ 140

(135,5)   +   3,1   = 138,6   61,3 Hz ⇒

126,5   +   3,1   = 129,6   65,6 Hz

(121,5)   +   3,1   = 124,6   68,2 Hz ⇒

115,5   +   3,1   = 118,6   71,6 Hz

(110)   +   3.1   = 113,1   75 Hz ⇒

103,5   +   3.1   = 106,6   79,8 Hz.

(98,5)   +   3.1   = 101,6   83,6 Hz ⇒ (97

93,5   +   3.1   = 96,6   88 Hz.

85,5   +   3.1   = 88,6   96 Hz. ⇒

$$\frac{f_0}{f_1} = \frac{9}{10} \qquad f_1 = \frac{10 f_0}{9} \qquad \frac{1}{2} \quad \frac{2}{3} \quad \frac{3}{4} \quad \frac{4}{5}.$$

o cm.   - 3,1   = φ_{ak} = 58 cm.

4ft. $\Rightarrow$ φ_{ak} = **116** $1/_1$ Zagbenpte

                                          ┌─────────┐
                                          │ 120 cm │   4ft.
                                          └─────────┘

$1/_1$ = 116 cm.   120 cm
$1/_2$ =
$2/_3$ =   77 cm   80 cm

$3/_4$ =   87 cm   90 cm

$3/_5$ =   70 cm   73 cm
$4/_5$ =   93 cm   96 cm
$5/_6$ =   96 cm   · 100 cm

$4/_7$ =   66,3 cm   70 cm
$5/_7$ =   82,8 cm   86 cm
$6/_7$ =   99,4 cm   103 cm

$5/_8$ =   72,5   76 cm
$7/_8$ =   101,5   105 cm

$7/_9$ =   90,2   93 cm
$8/_9$ =   103   106 cm

$7/_{10}$ =   81,2   84 cm
$9/_{10}$ =   104,4   108 cm

ZAGEN

1/2 $L_q = \underline{61\,cm} \Rightarrow L_{ak} = 61 + 3.1 = \underline{64.1\,cm}$ 2ft.

    $L_q = \underline{125\,cm}$ (OK) $L_{ak} = \underline{128}\,cm$ (OK)   4ft.

1/1

2/3 $= \underline{82\,cm}$ (OK) $L_{ak} = \underline{85,3\,cm}$

3/4 $= \underline{93\,cm}$ (OK) ak $\underline{96\,cm}$ (OK)

3/5 $= \mathbf{74}$ (OK) ak 76,8

4/5 $= \underline{99,3\,cm}$ (OK) ak. 102,4

5/6 $=$ $\underline{103,5}$ (OK)   106.6

1×10ft

4/7 =   70 cm (OK)   73,3

5/7 =   88,3 (OK)   91,4

6/7 =   106,6 (OK) 109,7 (OK)

1×10ft

5/8 =   77   80   —

7/8 =   109   112

5/9 —   68 (OK)   71,3

(7/9) =   96,4   99,5

8/9 =   110,6   113,3

1×10 ft

7/10 =   86,5 (OK)   89,6   —

9/10 =   112 (OK)   115,2 (OK)

8/11 =   66,7 (OK)   69,8

rest

51 Hz.   grondtoon.

$$f_0 = \frac{v}{4(x + 3,1)}$$

$$x + 3,1 = \frac{v}{4 f_0}$$

$$x = \frac{v}{4 f_0} - 3,1 .$$

$$x = \frac{340}{4 \times 51} - 0,031$$

$$= 1m\,63,5$$

$\frac{51 Hz}{f_{5th.}} = \frac{2}{3}$ $153 = 2f$
$f = \frac{153}{2} = 76,5 Hz.$

Kwint: 76,5 Hz.

Kwout: 68 Hz.

$\frac{51 Hz}{f} = \frac{3}{4}$

$f \quad \frac{204}{83}$

$\frac{51}{f} = \frac{1}{3}$

$f = 153$

$1/1 = 51\,Hz$ 1 m 63,5   = buileupte Ø w.

$1/2 = 102\,Hz$ 80,2 cm

$2/3 = 76,5$ ✓   1 m 08

$3/4 = 68$ ∿   1 m 21,9

$3/5 = 85$ ✓   96,9 cm.

$4/5 = 63,75$ ✓   1 m 30,2

$5/6 = 61,2$ ✓   1 m 35,7

$4/7 = 89,25$ ∨   92,1 cm

$5/7 = 71,4$ ∨   1 m 15,9

$6/7 = 59,5$ ✓   1 m 39,7

$5/8 = 81,6$ ✓   1 m 01

$7/8 = 58,28$ ∨   1 m 42,7

$5/9 = 91,8$ ∨   89,5 cm

$7/9 = 65,57$ ∨   1 m 26,5

$8/9 = 57,37$ ✓   1 m 45

$7/10 = 72,857$ ∨   1 m 13,5

$9/10 = 56,66$ ✓   1 m 46,9

$6/11 = 93,5$ ∨   87,8 cm

$7/11 = 80,14$ ∨   1 m 02,9

$8/11 = 70,12$ ∨   1 m 18,1

$9/11 = 62,33$ ✓   1 m 33,3

$10/11 = 56,1$ ✓   1 m 48,4

$7/12 = 87,43$ ∨   94,12 cm

$11/12 = 55,64$ ✓   1 m 49,7