

Curriculum Vitae

Bruce Phillip Gremo

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Education

1979 Honors Bachelor of Music in Composition - Wilfrid Laurier University
Composition with Owen Underhill, orchestration with Barrie Cabena

1981 Master of Music in Composition - University of Victoria
Composition with Martin Bartlet and John Celona, theory with Rudolph Komorous.

1991 Master of Arts in Philosophy - New School for Social Research
Thesis title: The Topology of Music - Advisor: Reiner Schurmann

The thesis argued that the creation of music is a discursive form, and that its discursivity is ontologically interested, this latter attribute developing from Heidegger's premise of the basic ontological orientation of Dasein. The thesis attempts to articulate the basic categories of this interest, and to anticipate their systematic elaboration. The argument derived and developed from readings of Heidegger's Being and Time, On the Origin of the Work of Art, and The Principle of Identity, and from one primary musical text, Beethoven's Grosse Fuge.

Spring 1993

Eugene Lang Fellowship - Eugene Lang College at the New School for Social Research

This teaching scholarship was awarded for the course design summarized below. It provided the opportunity to conduct the course as a seminar for seniors.

Course title: Truth and Music

Truth is a property of language. Language happens in discourse. Music is discursive. Therefore, music can be characterized in terms of the truthfulness of its 'assertions'. Four claims, four problems. The first is well articulated; the middle two, progressively less so. The last one, not at all, even though it is a cliché to speak of "the language of music or of a composer." These problems oriented the course in its task of articulating two parallel paths that belong to the same onto-theologically interested history of thought (following from Heidegger's conception). It touched on Parmenides, Aristotle, Leibniz, Adorno, and Heidegger on the one hand, and on fragments of ancient Greek music informed by the theories of Aristoxenus, Gesualdo, Bach, Mozart, Varese, and Webern on the other.

Sustained Shakuhachi Study

Kinko style Honkyoku and Guykyoku with Ralph Samuelson in NYC from 1995 to 2006, and Yokoyama style Honkyoku in Japan with Kinya Sogawa from 6/03 until 2/04.

Sustained Bansuri/Raga study

With Bmippa Bhajantri in from 2009 to 2010 at the Indian Consulate in Beijing.

1988 to 92 Assistant Editor

Graduate Faculty Philosophy Journal, New School for Social Research, NYC. During this time period, six volumes were published.

Awards

2004 - Interactive Technology Artist in Residence Award at Harvestworks, NYC.

2003/04 - Creative Artist Exchange Fellowship, a Japan/US Friendship Commission and NEA sponsored

award that enables Fellows to study and work in Japan for six months.
May and June 2003 - Composer in Residence at Civitella Rainieri Foundation in Italy.
2002 – New York Foundation for the Arts 'Fellowship in Music Composition.'
9/02 - Artist in Residence at Steim in Amsterdam
5-6/02 - Artist in Residence at Engine 27, NYC
2000 - Artist in Residence Award at Harvest Works, NYC
1991, 1995 and 1996 - Meet the Composer grants, NYC.

Papers presented

April 26, 2011 – “ What is Present in Teleperformance: Music Precomposition, Teleperformance and Temporality” at the Telemediations Symposium at the Federal University, Rio De Janeiro, Brazil.
July 20, 2010 – “Turbulent Control: Categories of control in the Cilia Flute Controller” at Harvestworks, New York, NY.
Feb. 25, 2010 – “Turbulent Control: Categories of control in the Cilia Flute Controller” at Department of Composition and New Media, Sang Myung University, Seoul, Korea
Oct. 20, 2009 – “Categories of control in the Cilia controller: some case studies of complex control routing using MaxMSP” at WOCMAT, Taipei University, Taipei, Taiwan

Recently Published Cds (in print)

The NYFA Collection: 25 Years of New York New Music

This is a 5 CD compilation of selected composers who have received New York Foundation for the Arts Composition Fellowships. I am honored to have a piece included. Released in June 2010 by Innova Records.

Atmosphere's Edge: 12 Preludes

Interactive computer music for multiple flutes and the Cilia, an invented flute Controller. Released: January 20, 2009, Label: [EICP Studio / TuneCore](#)

Some Professional Highlights

Ornette Coleman is an icon. I learned a great deal listening and watching him direct his piece. And then on the same bill was the reunion set of his trio with Charlie Haden and the late Billy Higgins. Great bonus!

Skies of America
Ornette Coleman -composer, director
Bruce Gremo - flute soloist
Knitting Factory Jazz Festival
6/1/2000

*I never realized I lived almost next to Charlie Parker's old home on Avenue B until I found my way into one of **Butch Morris'** Conduction pieces, and then played across the street in Thompkins Sq. Park.*

Conduction #44:Ornithology
Butch Morris, conductor-composer
Bruce Gremo - flute soloist
Charlie Parker Jazz Festival, NYC
8/28/94

*From 1990 until April of 2000, I worked regularly with Chinese composer **Tan Dun**. Everything I did with Tan drew on my abilities as an improviser and composer. There were numerous opportunities in this time working as orchestra and chamber soloist, conductor, music director, and synthesizer programmer to*

name a few. I am grateful to him for those opportunities. They were great learning experiences. There are far too many occasions to warrant listing. Some of the personal highlights for me were the following.

The Peony Pavilion - **Peter Sellars**, director

Runs internationally throughout 1998 until March of 1999, in Vienna, London, Paris, Rome, and Berkeley CA

Bruce Gremo - synthesizer programmer, ensemble musician

Wien Modern - Xun soloist in Orchestra Theater 1: Xun

Conductor 2 in Orchestra Theater 2: Re

Austrian Radio Symphony Orchestra

11/15/99

Chamber Music Society of Lincoln Center- Alice Tully Hall

- flutist in 7 new works by Asian composers

Tan Dun and the New Generation East

7/27/96

The Pink - **Muna Tseng**, Choreographer

- productions running from 9/1993 to 10/23-26/95, in Yellow Springs PA, Henry St. Settlement, DIA Foundation, *The Kitchen and LaMamma in NYC, Haverford PA, Chicago IL, Hong Kong, Lexington KY, and Tallin Estonia*

Proms Concerts at the Royal Albert Hall

- Xun soloist in Orchestra Theater 1: Xun

BBC Scottish Symphony Orchestra

8/8/95

Patented Invention – June 2010

Cilia: a flute controller driven dynamic synthesis system

The Cilia is a new musical instrument with two parts; a physical 'flute controller' and software application. Its performance gestures are modeled after the Shakuhachi, but it sounds experimentally 'orchestral', using complex synthesis and re-synthesis techniques. A flute controller splits the air column produced by the blowing of a musician, and derives complex control from the analysis of this split column's dynamics. Especially in this regard, the Cilia is unprecedented. It is both an 'event controller' and 'process controller.' The Cilia endeavors to surpass the acoustic instrument model in generating complexity and nuance in event generation, but at the same time retains process control and manipulation which is typically the provenance of electronic controller. The Cilia achieves this complexity by developing control along several lines; simple and continuous control, dynamic control (controllers directly controlling controllers), and control networks (mediated and indirect control of controllers by controllers).

Current Professional Life

Bruce Gremo at present resides in Beijing, China where he works as composer, principle flutist with the orchestra XinYaKongQi, free-lance chamber flutist and recitalist, studio multiple-flutist, and teacher.

Of Professional Note

Music Series Curator

Bruce Gremo held the position of Music Curator at Open Space Gallery in Victoria, B.C., Canada for two seasons, 1983- 1985. Responsibilities included fund raising, concert management, and curatorial oversight. He left the position to move to New York City.

Freelance Multiple Flutist.

From 1985 until 2005, Bruce Gremo worked as a freelance multiple flutist in NYC. A classical orchestral flutist by training, he also specializes in extended technique and improvisation formats using the silver flute, the Japanese Shakuhachi, the Chinese Xun, the Indian Bansuri and two hybrid flutes, the shakulute and the glissando flute. He has been a soloist at internationally renowned venues including Lincoln Center Festival with the Lincoln Center Chamber Music Society, Wien Modern in Vienna as soloist with the Austrian Radio Orchestra, the BBC Proms Festival at the Royal Albert Hall in London as soloist with the Scottish BBC Symphony Orchestra

Personal Data

Citizenship; U.S. (naturalized), Canadian (birth), and British (parentage)

Birth date: Sept. 6, 1956

Married with one 7 year old daughter.

Visiting resident in Beijing China since 2006.

Curriculum Vitae

Bruce Phillip Gremo

Part Two; Interactive Music Composition and Improvisation, Dance Collaboration, Theater Work, Installation, Interactive Video.

1/ Interactive Music Composition and Improvisation

10/03/11

Reading and Cilia improvisation with poet Xi Chuan
Xi Chuan, poet; Bruce Gremo, Cilia
Bookwork International Literary festival, Beijing, China

10/26/10

Auto-heterophony – tele-performance between Beijing, Calgary and Waikato University, NZ
This composition involved an interactive score. The score is both prescriptive (as all scores are, they are instruction), but also descriptive (it reacts and renders according to what the Cilia produces (midi) and what the clarinet player in Calgary produces (pitch-tracking).

Jeremy Brown: clarinet (Calgary); Bruce Gremo; Cilia (Beijing)
Musicacoustica Festival, Beijing, China and University of Calgary, Canada, Waikato University, New Zealand

02/25/10

Armonia 2
Bruce Gremo; solo Cilia
Sang Myung University, Seoul, Korea

1/30/10

Calgary Interventions 2; tele-performance between Beijing, Calgary, Perdu Indianna, and Singapore
David Eagle; flute (Clagary); Bruce Gremo; Cilia (Beijing)

10/27/09

Calgary Interventions; tele-performance between Beijing, Calgary and Vancouver
Jeremy Brown; soprano sax (Calgary); Bruce Gremo; Cilia (Beijing)
Musicacoustica Festival, Beijing, China and University of Calgary, Canada

10/21/09

Armonia
Bruce Gremo; solo Cilia
WOCMAT Festival, Tainan, Taiwan

10/20/09

Armonia
Bruce Gremo; Cilia
WOCMAT Festival, Taipei, Taiwan

3/09/09

Reading and Cilia improvisation with poet Xi Chuan

Xi Chuan, poet; Bruce Gremo, Cilia
Bookwork International Literary festival, Beijing, China

Nov. 2006 – Dec. 2010

Four years of much improvising and networking with the diversity of Chinese musics. This is something I cannot document well on a C.V. Except perhaps to observe here that there is not one Chinese music; I have interacted with Han, Mongul, and Uygher musicians. Additionally, there is a small, nascent, under-resourced and isolated, but committed experimental music scene in China. The *lingua franca* with all is improvisation.

10/29/06

9 Episodes for Xun and 2 Computers
Bruce Gremo; Xun
Musicacoustica Festival, Beijing, China

5/18/06

Choshi Variations for Shakuhachi and 2 Computers, concert length version
Bruce Gremo; shakuhachi
Black Box, Ashbury Park, NJ

9/10/05

Choshi Variations for Shakuhachi, Sho and 2 Computers
Tamami Tono; Sho: Bruce Gremo; shakuhachi
Tenri Institute, NYC

9/9/05

New Old Song 2 for Shakuhachi and 2 Computers
Bruce Gremo: shakuhachi
Chelsea Art Museum, NYC

7/16/04

Plateaus for Jane Rigler; flute and computer
Jane Rigler; flute
Issue Project Room, NYC

11/4/04

Plateaus for Mari Kimura; violin and computer
Mari Kimura; violin
Symphony Space, NYC

7/16/04

Plateaus for David Cossin; vibraphone and computer
David Cossin; vibraphone
MassMOCA, Massachusetts

11/28/03

Aura for Shakuhachi and 3 Power Books (reduced version)
Bruce Gremo; 1.8 and 2.3 Shakuhachi
Osaka University of the Arts, Osaka, Japan

11/22/03

Aura for Shakuhachi and 3 Power Books (concert length version)

Bruce Gremo; 1.8 and 2.3 Shakuhachi
Digital Music Festival 2003 Xebec Hall, Kobe, Japan

10/17/03

New Old Song for solo Shakuhachi
Christopher Yomei Blasdel; shakuhachi
Fukuoka Gendai Hogaku Festival, Fukuoka, Japan

6/17/03

Risk Management
Hans Tammen; endangered guitar: Bruce Gremo; MaxMSP
MaxMSP Surround Sound Performance, Harvestworks, NYC

2/3/03

Plateaus 1-4 for Vibraphone and Power Book
David Cossin; vibraphone
Symphony Space, NYC

12/16/02

solo improvisation concert at Experimental Intermedia, NYC
Bruce Gremo; shakuhachi, flute, 2 Power Books

10/02

improvisation with Anne LaBerge
Anne LaBerge; microtonal flute: Bruce Gremo; MaxMSP
Kraakgeluiden, Amsterdam

6/02

16-channel spatialization improvisation: residency concert
Hans Tammen; endangered guitar, MaxMSP: Dafna Naphtali; voice, MaxMSP; Bruce Gremo;
flute, shakuhachi, MaxMSP
Engine 27, NYC

1/30/02

Drone and Koan (for solo Computer)
a standalone application work, downloadable until 2005

1/15/02

Drone and Koan (for ManYee)
Interactive computer application commissioned by composer/pianist ManYee Lam
premiered in Hong Kong

Note: *For a period from 1999 to 2001, I ran and curated a series of experimental computer music performance at a small space in downtown Manhattan. The venue was called Suddensite (see numerous references below). Frankly, it was a personal composer's laboratory. Therefore I don't cite it as professional curatorial experience.*

9/8/01

Duo improvisation with two interacting computers
David Cossin; percussion, berimbau, amplified tubes, electronics: Bruce Gremo; composer, flute,
shakuhachi, MaxMSP
suddensite, NYC

8/25/01

risk management: improvisation with two computers and electronics

Hans Tammen; endangered guitar, MaxMSP: Bruce Gremo; composer, flute, shakuhachi, MaxMSP
suddensite, NYC

8/18/01

Duo improvisation with two interacting computers and electronics

Tom Hamilton; Nord modular synthesis system, computer: Bruce Gremo; composer, flute,
shakuhachi, MaxMSP
suddensite, NYC

8/11/01

Duo improvisation with interacting computers and electronics

David First; guitar, electronics: Bruce Gremo; composer, flute, shakuhachi, MaxMSP
suddensite, NYC

8/4/01

Duo improvisation with two interacting computers

Anne LaBerge (Amsterdam); multiple flutes: Bruce Gremo: composer, flute, shakuhachi, MaxMSP
suddensite, NYC

4/13/01

Duo improvisation for two musicians and interacting computers

Christoph Irmer (Wuppertal); violin: Bruce Gremo; composition, MaxMSP, shakuhachi, flute, EWI, M
suddensite, NYC

4/4/01

Duo improvisation with interacting computers

Boris Hauf (Vienna); MaxMSP, electronics: Bruce Gremo; MaxMSP, shakuhachi, flute, EWI, M
suddensite, NYC

3/26-27/01

Trio improvisation with interacting computers

Karlheinz Essl (Vienna); MaxMSP: Tom Hamilton; Max, keyboard, Nord Modular System: Bruce
Gremo; MaxMSP, shakuhachi, flute, EWI, M
suddensite, NYC

9/22/2000

Drone & Koan

This is a computer interactive work for up to four musicians. The computer pitch-tracks them all at
once.

David Cossin; vibraphone: Lukas Ligeti; balifon: Matt Fieldes; double bass: Bruce Gremo; composer,
MaxMSP, flute, shakuhachi
Lotus Studios, New York

Other Flutes

Other Flutes was a trio of flautists devoted to extended technique playing and improvisation. The trio was
active in the downtown Manhattan scene for two years, 2000 until 2002. Muriel Vergnaud; flute, alto flute:
Ricardo Arias; flute: Bruce Gremo; flute, shakuhachi.

10/20/2000

Other Flutes with guest flutist Anne LaBerge; improvisation with interactive computers

Other Flutes: Muriel Vergnaud; flute, alto flute: Ricardo Arias; flute: Bruce Gremo; flute, shakuhachi,
MaxMSP: guest Anne La Berge; microtonal flute

suddensite, NYC

Pathos Series

In the mid-1990s, my composition interests turned towards what I came to call *application composition*. In brief, an application composition is a computer program written which responds to a control source (e.g., either pitch tracking an acoustic instrument, or a controller invented for the task.), manipulates the control data so that it can be implemented in a specific composition scenario, and provides sound generating routines that are capable of receiving the processed data in ways that facilitate interaction with a performer on the control instrument. The Pathos series were my first attempts to develop the format rigorously.

Pathos 1 and 2 (1998) developed command and response systems using only midi (Max), external synthesizers, samplers and standalone pitch-to-midi converters. Pathos 1 and 2 exist as archived solo recordings. Pathos 3 (1999) and Pathos 4 (2000) were opportunities to explore the instrument specific problems of pitch-tracking with a variety of soloists and small ensembles. All digital signal processing was relocated to the computer using MaxMSP.

8/2000 Pathos 4

Bruce Gremo; composer, flute, shakuhachi, programmer on all evenings
all performances at suddensite, NYC, with the following performers;

8/17/2000

First Avenue: Matt Sullivan; oboe, English Horn: Bryan C, Rulon; keyboards, classic synthesizers:
William Kannar: double bass: BG

8/16/2000

Matt Sullivan; oboe, English Horn: Peter Zummo; trombone: Hans Tammen; endangered guitar:
BG

8/9 + 15/2000

Matt Sullivan; oboe, English Horn:

8/8/2000

Peter Zummo; trombone: BG

8/2/2000

Hans Tammen; endangered guitar: BG

6/22 - 8/10/1999 Pathos 3

Bruce Gremo; composer, flute, shakuhachi, programmer on all evenings.
all performances at suddensite, NYC, with the following performers

8/10/99

Min Xiao Fen; pipa: BG

7/27/99

Blaise Siwula - alto sax; BG

7/13/99

David Simons; theremin: BG

7/6/99

Charles Cohen; Buchla synthesizers: BG

6/29/99

David Cossin; vibraphone: BG

6/22/99

Hal Onserud; double bass: BG

5/10/99

Daniel Carter; tenor sax: BG

5/4/99

Elizabeth Panzer; harp: BG

6/1/2000

Skies of America

Ornette Coleman; composer and director

Bruce Gremo; solo flutist

Knitting Factory Jazz Festival, NYC

5/26/2000

Quartet improvisation with interacting computers and electronics

Karlheinz Essl; MaxMSP: Tom Hamilton; Max, keyboard, Nord Modular System: Charles Cohen;

Buchla synthesizers: Bruce Gremo; MaxMSP, shakuhachi, flute, EWI, M

suddensite, NYC

5/25/2000

Quartet improvisation with interacting computers

Karlheinz Essl; Max/MSP: Hans Tammen; endangered guitar: Dafna Naphtali; Max, electronics:

Bruce Gremo; MaxMSP, shakuhachi, flute, EWI, M:

suddensite, NYC

10/3/94

Conduction #44: Ornithology

Butch Morris, conductor

Bruce Gremo; solo flutist

Charlie Parker Jazz Festival, NYC

2/ Dance Collaboration

3/4-7/04

ahha

Sally Gross; choreographer: Bruce Gremo; electronic score on CD
Joyce Soho, NYC

1/30,31/2003

X(Angels)Reconsidered

Richard Siegal (Frankfurt Ballet); choreographer: Bruce Gremo; electronic score on CD
Bockenheimer Depot, Frankfurt

12/1999-

Angels you may not have considered

commission from Hamburg based dance group Labor Gras 8 to write a 10-channel computer
generated score

Richard Siegal (Frankfurt Ballet); choreographer: Bruce Gremo; electronic score
numerous performances in Hamburg, Frankfurt, Heidelberg, Basel, Zurich, and London

1/30,31/2003

Attraction Etranges

Cecile Proust; dancer, choreographer: Tan Dun; composer: Bruce Gremo; improviser on xun voice
and percussion
St. Mark's Church, NYC

12/13/1997

Thirteen and Quicksilver

Laura Shapiro; dancer, choreographer: Improvising musicians: Bruce Gremo; multiple flutist: Paul
Guerguerian; percussion: Victor Rice; double bass.
Merce Cunningham Studio, NYC.

5/22-23/1997

Improvisation

Simone Forti; dancer, choreographer: Bruce Gremo; flutist
Intermedia Arts Festival, Ceres Gallery, NYC

3/22/1996

Clouds of the 19th century

Muna Tseng; dancer, choreographer: Bruce Gremo; composition, flute and electronics
Kohler Arts Center, WI

1/2to1/9/1996, 3/31 to 5/6/1996, 6/16 to 7/2/1996

Attractions Etranges

Cecile Proust; dancer, choreographer: Tan Dun; composer: Bruce Gremo; improviser on xun, voice
and percussion
Paris, Douai and Montpellier, France

7/22-23/1995

Shadows

Sham Mosher; dancer, choreographer: Bruce Gremo; composer, shakuhachi and percussion
Commissioned by and performed at The Rushmore Festival, NY.

10/3/1994

Jo Ha Kyu

Yoshiko Chuma; choreographer: Bruce Gremo and Paul Guerguerian improvising musicians.
Sponsored by Movement Research and performed at the Judson Church, NY

9/1993 to 10/23-26/94

The Pink

Muna Tseng, choreographer. Tan Dun , composer. Bruce Gremo, music director, multiple flutist and instrumentalist. Productions ran in Yellow Springs PA, Henry St. Settlement, DIA Foundation, *The Kitchen and LaMamma in NYC, Haverford PA, Chicago IL, Hong Kong, Lexington KY, and Tallin Estonia*

5/8-9/1993

Improvisation

Susan Osberg; dancer, choreographer: Bruce Gremo; flute and electronics
DIA Foundation, NYC

5/8-9/1993

Clouds of the 19th Century

Muna Tseng; dancer, choreographer: Bruce Gremo; flute
DIA Foundation, NYC

4/1992-8/25/94

Jo Ha Kyu

Yoshiko Chuma; choreographer: Tan Dun; composer: Bruce Gremo; music director, improvising multi-instrumentalist
Damrosch Park, Lincoln Center, NYC 8/24-25/94; St.Mark's Church, NYC 2/12-21/93; La Mama E.T.C. NYC 4/92.

3/ Theater Work

9/20/2003

Butterfly Dreams - CD

Commissioned interactive work for shakuhachi, xun, percussion and Max/MSP. Butterfly Dreams was the creation of Chinese Experimental Puppeteer HuaHua Zhang;
HuaHua Zhang; Chinese puppeteer: Bruce Gremo; electronic score on CD
International Festival of Puppetry Charleville-Mezireres, France

1/2003

Butterfly Dreams - CD

HuaHua Zhang; Chinese puppeteer: Bruce Gremo; electronic score on CD
Boston, MA

9/28-30/2001

Butterfly Dreams

HuaHua Zhang; Chinese puppeteer: Bruce Gremo; electronic score on CD
International Puppetry Festival, U.Conn at Storrs

8/31-9/3/2001

Butterfly Dreams

HuaHua Zhang; Chinese puppeteer: Bruce Gremo; electronic score on CD

13-16/12/2000
Talkative Gods

Talkative Gods was a text based multi-media four computer work which in performance, uses the softwares Max/MSP and nato. It interfaces an acoustic musician, a computer video (nato) artist, and an actress. As *Artist in Residence 2000 at Harvest Works, NYC*, several recordings of it were made (Dec. 2000). There were also four NYC performances at suddensite in the same month, NYC. This project was the first implementation of the Route project (see Interactive Video section).

Bruce Gremo - composer, performer, programmer
Rene Beekman - computer video operator, programmer
Kyle deCamp - actress
suddensite, NYC

1/1998 - 3/1999

The Peony Pavilion

Peter Sellars, director - Tan Dun, composer

There were runs in Vienna, London, Paris, Rome, and Berkeley CA. I was synthesizer programmer, dizi and EWI player.

12/1994 - 1/1995

America Dreaming

Michael Mayers, director - Chiori Miyagawa, playwright

Produced by the Vineyard Theater, NYC. I was co-composer with Tan Dun, as well as music director and multi-instrumentalist.

3/9/1995 - 10/11/1995

A series of NYC site specific and improvised music theater works conceived and directed by Lee Ellickson, at:

the Hudson Grill, Angel Orantz Foundation, United Nations Chapel, 10 Green St., Knitting Factory, and The General Society Library of Mechanics and Tradesmen.

4/ Installation

6/15/04-7/10/04

Release Remaining - live performance and CD installation

- | installation with Yosuke Ito, Japanese sculptor
- | 55 Mercer Gallery, NY

6/2003

Cistern Chapel

computer sound installation with American installation artist Charles Goldman

- | Civitella Ranieri Castle, Umbertide, Italy

5/ Interactive Video

10/2002

performances of Route (see below) at Steim and Kraakgeluiden in Amsterdam, Worm in Rotterdam, Nadines in Brussels

- | Gremo on flutes and computers with Rene Beekman on visuals

5/5/2001

Mutable Surface,

This was an instrument, which enabled real time performance of images as well as audio, and enabled the inter-routing of control so that the musician could move and process images at will using only musical means, and the video operator could do something similar in reverse. It was a development of Route, described below.

Bruce Gremo - composer, performer, programmer

Rene Beekman (Amsterdam) - computer video operator, programmer

Roulette, NYC

9/ 8-9/2000

Route

Bruce Gremo and Rene Beekman have created a multiple computer instrument, 'route,' on which they improvise with concrete and synthetic audio and projected video materials, using many digital-processing strategies. They control these processes using shakuhachi and flute, EWI (electronic wind instrument), and wacom tablet.

The audio and the visual computers require and generate streams of control data. A third computer allows the two performers to route their respective data streams back and forth to each other, e.g., pitch from the flute to chroma in the image. The theme of this duo could be , 'computer video as musical instrument,' or 'how to play the surface of a sound.' From another angle, the players improvise with the sources and destinations of their control data. Imagine a fantastic air traffic controller who improvises with the design of runways and approaches in real

time.

sponsored and presented by the **World Wide Video Festival**

Bruce Gremo - musician, programmer

Rene Beekman - computer video operator, programmer

Melkveg, Amsterdam