



BALL MACHINE SCULPTURES CATALOG

Rhoads

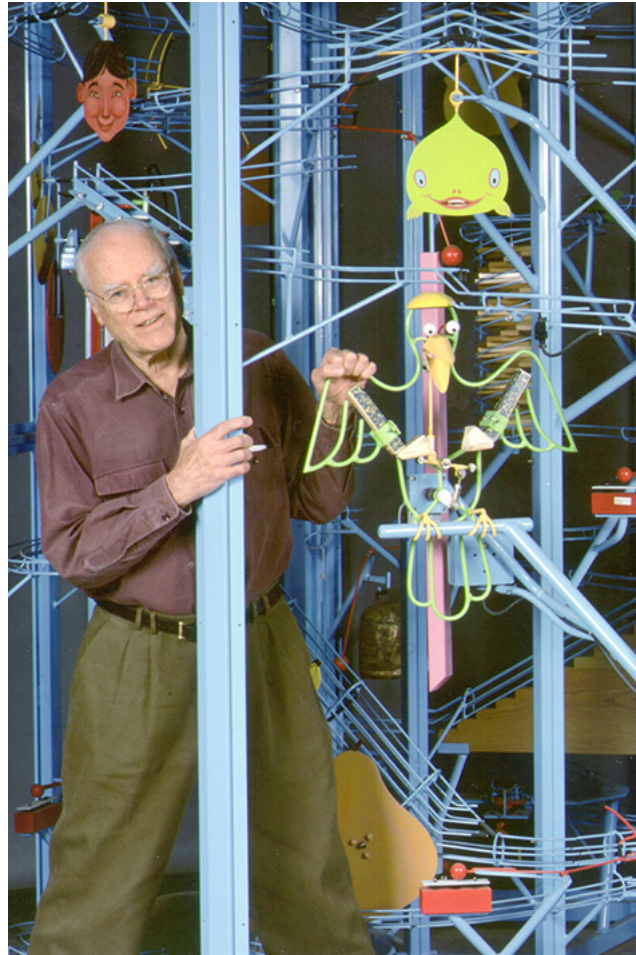
Designed by artist George Rhoads
Fabricated by Creative Machines Inc.

About George Rhoads

George Rhoads is well known for his large audiokinetic ball sculptures that attract and engage people throughout the world. Balls roll and percussion devices clatter and chime in airports, hospitals, art museums, science museums, shopping centers and other public places. Rhoads has designed over 250 unique pieces, virtually all of which are still in operation.

As a child Rhoads was always drawing. He constructed diverse mechanisms, among which were a Ferris wheel, a barometer, an astronomical clock and a sailing bicycle. A gifted painter, he began in the late fifties to show welded steel sculptures and kinetic copper fountains as well as paintings. His first audiokinetic sculptures were small, some involving the use of rolling balls to impel various sound and motion devices. Quirky and unique, these attracted the attention of David Bermant, a builder of shopping centers and patron of technological artists. Bermant Zaided Rhoads in many ways in their 35 year association, and has commissioned wind sculptures, fountains, and several large rolling ball pieces.

In his sculptures, Rhoads strives to demystify technology. He says that "machines are interesting to everybody, but people usually don't understand them because, as in a gasoline engine, the fun part goes on inside the cylinder. So I've restricted myself to mechanisms that you can see and understand quickly." The chief goal of his machines is to engage people in play. He sees himself as a prophet of the mature industrial age, a time in which the upheaval and human suffering brought about by the industrial revolution will have subsided, and, for machines as well as people, there

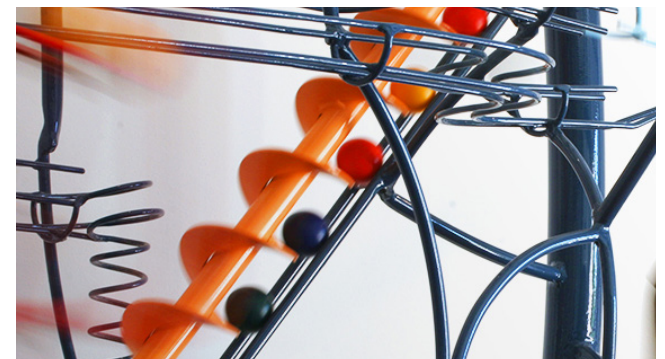


will be no distinction between work and play. James Seawright, director of the visual arts program at Princeton University, says of Rhoads' sculptures, "they embody almost every basic element of machinery, combined in a bewildering variety of ways. There's a level of mechanical genius behind inventing complex mechanisms; that's what George has. You look at one of his pieces and get a sense of overall design, but then you must

trace out the details for yourself. The enjoyment comes from seeing your expectations fulfilled."

In 1970 Rhoads moved to upstate New York. There he began working closely with Bob McGuire who constructed the sculptures and installed them in such far-flung places as Guam, Seville, Kobe, and Seoul. Bob McGuire worked closely with George Rhoads over a thirty year period to develop the tricks and techniques for making reliable audiokinetic sculptures. Together they created over 250 such sculptures around the world, every one unique and virtually all of which are still in operation.

In 2007 Bob McGuire retired from making audiokinetic sculptures and invited Creative Machines to continue his partnership with George Rhoads. Creative Machines had its own history making interactive exhibits and public art and so welcomed the chance to take on this exciting work. Bob worked closely with Creative Machines for several months, training their people in his specialized techniques. Today, George Rhoads trusts Creative Machines to make his visions a reality as he continues to design new sculptures and new devices for the balls to interact with.



"We have found that a lot of people watch 'Archimedean Excogitation' for much longer than they do exhibits of the very same mechanical devices - gears, levers, pulleys, and the like - that are displayed elsewhere in the museum in a more didactic fashion."

Larry Bell, associate director
Boston Museum of Science

"There is no question in my mind that George Rhoads is the most appropriate work for public spaces being done in America today. I put them in shopping centers because it makes a better day for people no matter who they are - rich or poor, educated or not. They get enjoyment out of it, talk about it, and then others come out to see it, too."

David Bermant,
President, National Shopping Centers

"We want to thank George Rhoads...for the superb audiokinetic sculpture that you created and installed in the lobby of the Columbia Presbyterian Babies and Children's Hospital. The animal figures that you incorporated into the piece are sensational. I'm sure they will entertain and delight thousands of children, and their parents, in the years to come. A children's hospital is a perfect setting for this fun work of art."

John M. Franks
The Carmel Hill Fund





George Rhoads' Ball Machine Sculptures

2023

Mike Eisenberg Memorial Ball Machine

5' x 10" x 3'

University of Colorado Boulder
Boulder, Colorado

Midnight Odyssey

5' x 10" x 3'

Private Collection
Menlo Park, California

Summer Fantasy XIII

5' x 10" x 3'

Discovery Center Museum
Rockford, Illinois

Winter Fantasy IV

5' x 10" x 3'

Discovery Center Museum
Rockford, Illinois

2022

A Cleaner, Greener Grid

120" W x 105" H x 188" L

University of Arizona
Tucson, Arizona

Summer Fantasy XII

5' x 10" x 3'

Dayton Children's Hospital
Dayton, Ohio

Summer Fantasy XI

5' x 10" x 3'

Private Collection
Meeker, Colorado

Wallpiece LII

5' x 10" x 3'

Orlando Science Center
Orlando, Florida

2021

Summer Fantasy X

5' x 10" x 3'

Children's Museum Tucson
Tucson, Arizona

Baseball Fountain

3.75' L x 3.75' W x 26.5'H

The Rally Hotel
Denver, Colorado

2020

Summer Fantasy IX

5' x 10" x 3'

Akron Children's Health Center
Amherst, Ohio

Summer Fantasy VIII

5' x 10" x 3'

Akron - Canton Airport
North Canton, Ohio

Summer Fantasy VII

5' x 10" x 3'

Portage Medical Center
Ravenna, Ohio

2019

All Systems Go

108" x 58" x 82"

Cayton Children's Museum
Santa Monica, California

Winter Fantasy III

5' x 10" x 3'

Dayton Children's Museum
Dayton, Ohio**2018****Summer Fantasy VI**

5' x 10" x 3'

Cedar Pine Building, Akron
Children's Hospital
Akron, Ohio**Perpetual Nephron**

92" x 44" x 168"

Traveling

Cathedral Coaster

6.5' x 2.5' x 6.5'

American Memorial Hospital
Reims, France**2017****Incrediball Journey Through
Stanford Campus**

7.8' x 6.4' x 8'

Lucile Packard Children's Hospital
Palo Alto, California**Custom Summer Fantasy VI**

5' x 10" x 3'

Foundatin Pediatric Dentistry
New York, New York**Summer Fantasy V**

5' x 10" x 3'

Dayton Children's Museum
Dayton, Ohio**2016****Summer Fantasy IV**

5' x 10" x 3'

Private Collection
Hong Kong, China**Winter Fantasy II**

5' x 10" x 3'

Cleveland Clinic
Cleveland, Ohio**Winter Fantasy I**

5' x 10" x 3'

Science Timmins
Timmins, Ontario, Canada**Din Don**

8' x 8' x 22'

Kobe Harborland umie
Kobe, Japan**Sound Machine**

7.5' D x 10' H

MOXI, The Wolf Museum of
Exploration + Innovation
Santa Barbara, California**2015****La Reve de Newton**

8' x 1.5' x 9.5'

Le Pass, Frameries, Belgium

Summer Fantasy III

5' x 10" x 3'

Crown Confectionary
Seoul, South Korea**2014****Summer Fantasy II**

5' x 10" x 3'

Private Collection
Toronto, Ontario, Canada**Summer Fantasy I**

5' x 10" x 3'

Upstate Golisano Children's Hospital
Syracuse, New York**2013****Dream About Shirasagi**

9.8' x 6.6' x 6.6'

Japanese Railway, Himeji Station
Himeji, Japan**Adcetris**

12' x 8' x 6'

Seattle Genetics
Bothell, Washington

2010

Calliope Borealic

14.5' x 9' x 3'

Anchorage Museum

Anchorage, Alaska

Globe Theater

5' x 5' x 2'

Shriner's Hospital for Children

Portland, Oregon

2009

Kinetic Ball Thearer

6'10" x 10' x 14"

Children's Hospital Boston

Boston, Massachusetts

Symphony of Spheres

6' x 9' x 3'

Private Collection

Naples, Florida

2008

Magic Menagerie

16' x 7' x 3'

National Taiwan University Hospital

Taipei, Taiwan

Life is a Ball

6'6" x 4'6" x 4'6"

WMS Gaming

Waukegan, Illinois

2007

Kugelarium

6'6" x 7' x 7'

Private Collection

Gentilino, Switzerland

Carousaball

16' x 15' x 3'

Children's Medical Center

Austin, Texas



2006

Minimenagerie

5'6" x 4' x 4'

Private Collection

West Simsbury, Connecticut

Lalaballoopa

7' x 20' x 3'

Reuter's Children's Outpatient Clinic

Asheville, North Carolina

Viewaball You

17' x 6'6" diameter

YouZeum

Colombia, Missouri

Festiball

6'6" x 7' x 7'

Shriner's Children's Hospital

Springfield, Massachusetts

2005

Tower of Sisyphus

40' x 10' diameter

Chesapeake Energy Corporation

Oklahoma City, Oklahoma

Ball Game II

6' x 5' x 2'

Joe DiMaggio Children's Hospital

Hollywood, Florida

Newton's Daydream

30' x 36' x 36'

Clark Planetarium

Salt Lake City, Utah

2004

Water Works Gizmo

8'6" x 12' x 18"

Flint River Center

Flint River, Georgia

Wallpiece LI

3' x 5' x 8"

Private Collection

Albuquerque, New Mexico

Poetry in Motion

7' x 7' x 18"

Comer Children's Hospital

Chicago, Illinois

Wallpiece L

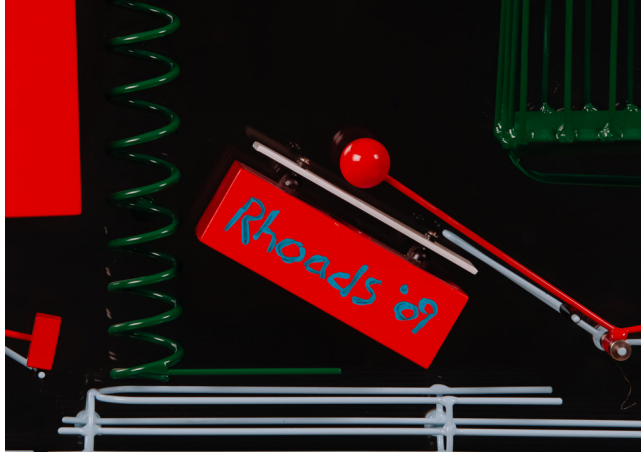
3' x 5' x 8"

Community Hospital of Monterey

Monterey, California

Ball Zoo

6'6" x 4' x 4'
Driscoll Clinic
Brownsville, Texas



2003

Electric Ball Circus II

5'6" x 4' x 4'
ABT Electronics
Glenview, Illinois

Wallpiece XLIX

3' x 5' x 8"
Private Collection
Jacksonville, Florida

Kinetikon

7' x 9' x 9'
National Science & Education Museum
Taipei, Taiwan

2002

Carnival of the Animals

7' x 12' x 8'
Lincoln Children's Museum
Lincoln, Nebraska

La Maquina de Betancourt

3000mm x 2400mm diameter
Museo Elder
Las Palmas, Grand Canary Island

Cavortech

25' x 8' x 8'
Avampato Discovery Museum
Charleston, West Virginia

Ball Play

6' x 4' x 4'
Fukui Lions Club
Fukui, Japan

2001

Fun Ball Box

6'6" x 4' x 4'
Children's Memorial Hospital
Chicago, Illinois

Ballnasium

12' x 7' diameter
Explora
Albuquerque, New Mexico

Loopy Links

7' x 6' diameter
Adventure of the Seas
Royal Caribbean Cruise Lines

Peaceaball Kingdom

17' x 8' diameter
University Children's Hospital
Chapel Hill, North Carolina

2000

It's Only a Game

7' x 6' diameter
Explorer of the Seas
Royal Caribbean Cruise Lines

Funkinetic

8' x 12' x 6'
Singapore Science Centre
Singapore, China

Trophy Won

6' x 5' x 2'
West Palm Beach, Florida

Funball Box

6' x 4' x 4'
Children's Memorial Hospital
Chicago, Illinois

Eureka

8'6" x 8' diameter
Discovery Communications
Bethesda, Maryland

1999

Wallpiece XLVIII

3' x 5' x 6"
Private Collection
Rancho Palos Verdes, California

Ball Circus

6' x 4' x 4'
Tachikawa Medical Center
Nagaoka City, Japan

Gizmopolis

7' x 10' x 3'
The Hotchkiss School

Lakeville, Connecticut

Wallpiece XLVI

3' x 5' x 6"

Private Collection

Eastsound, Washington

Color Coaster

27' x 7' diameter

Stepping Stones Museum

Norwalk, Connecticut

Science Takes a Holiday

14' x 14' x 2'

Museo Interactivo Mirador

Santiago, Chile

S'marblous

6' x 6' x 5'

Museum of Glass

Corning, New York

1998

Vulcan's Dream

7' x 18' x 7'

McWane Center

Birmingham, Alabama

Based on Balls

41' x 10' x 10'

Chase Field Ballpark

Phoenix, Arizona

Main Street Ballroom

18' x 5' x 5'

Blue Cross Blue Shield,

Rochester, New York

Holiday for Technology

6' x 21' x 18"

Allen Bradley Company

Mayfield Heights, Ohio

Circus of Spheres

17' x 16' diameter

Sci-Port Discovery Center

Shreveport, Louisiana

Salubrifactorium

7' x 6' x 30"

Children's Hospital

New Orleans, Louisiana

1997

Creature Ball Circus

6' x 4' x 7'

Children's Hospital

Denver, Colorado

Odyssey of the Spheres

3' x 5' x 10"

limited edition (100)

Multiple Locations



Angel Music

7' x 8' x 2'

Los Angeles Int. Airport Tom Bradley Terminal

Los Angeles, California

Life Renews Itself

5' x 5' x 5'

Nanba Railway Station

Osaka, Japan

Melodious Menagerie

7' x 8' x 5'

Children's Hospital University of Kentucky

Lexington, Kentucky

Creative Caper

4' x 8' x 1'

Children's Hospital University of Kentucky

Lexington, Kentucky

Bippity Boppity Balls

6' x 7' x 7'

Children's Hospital Boston

Boston, Massachusetts

Homage to the Art of Science

11' x 24' x 5'

Imagination Station

Toledo, Ohio

Wallpiece XLVII

3' x 5' x 8"

Private Collection

New York, New York

Spirit of Technological Liberty

5'6" x 4' x 4'

Advanced Industrial Technologies

Cleveland, Ohio

Gizmonasium

17' x 20' x 3'

Children's Hospital of Philadelphia

Philadelphia, Pennsylvania

Pythagorean Fantasy

7' x 10' x 3'

College of Engineering University of Colorado

Boulder, Colorado

1996

Science in Recess

14' x 7' x 6'

Indianapolis Children's Museum

Indianapolis, Indiana

Zippy Zoo

7' x 6' x 30"

Columbia Presbyterian Babies

& Children's Hospital

New York, New York

Fantasia de Ferrocarril

6' x 5' x 3'

Department of Transportation

San Juan, Puerto Rico

Wallpiece XLV

3' x 5' x 8"

Private Collection

Ithaca, New York

1995

Highball

29' x 8' x 12'

Ogden City Mall

Ogden, Utah

Zippo on the Go

7' x 7' x 7'

Zippo Manufacturing Co.

Bradford, Pennsylvania

Bolas Bulliciosas

6.6m x 2.2m x 2.2m

Parque Plaza Sesamo

Monterrey, Mexico

Softopia

20' x 5' x 5'

Softopia Information Center

Gifu City, Japan

1994

Wallpiece XLI

3' x 5' x 8"

Ithaca, New York

Woody

32" x 48" x 2"

collection of the artist

Ithaca, New York

Quantum's Last Leap

17' x 6' diameter

Sciencenter

Ithaca, New York

The Roll of Balls in Therapy

7' x 4' x 14"

Columbia-Presbyterian Hospital

New York, New York

Celestial Ball Garden

10' 6" x 5' x 5'

Green Mall

Kouzu, Japan

Wallpiece XLII

3' x 5' x 8"

Private Collection

Taipei, Taiwan

Wallpiece XLIII

3' x 5' x 8"

Private Collection

Ithaca, New York

Gateway VI

5'6" x 3' x 3'

Private Collection

Ithaca, New York

1993

Incrediball Circus

6' x 4' x 4'

San Diego Children's Hospital

San Diego, California

Sweet Morning Love Tower

41' x 10' x 10'

Aekyung Department Store

Seoul, Korea

Make a Joyful Noise

18' x 7' x 7'

Rubenstein Yoav Properties Golden Mall

Rishon Lezion, Israel

Mauina de Vacilon

6' x 10' x 5'

Museo del Nino

Mexico City, Mexico

Incrediball Circus II

9' x 20' x 1'6"

Akron Children's Hospital

Akron, Ohio

Wallpiece XL

3' x 5' x 6"

M. H. Segan

New York, New York

Celestial Balldergarten

7' x 7' x 7'

Philadelphia International Airport

Philadelphia, Pennsylvania

Gravitational Synergistic (Kinetic-Acoustic)

Narrow-Parameter Fractal Paradigm

7' x 10' x 5'

Science Spectrum

Lubbock, Texas



1992

Wallpiece XXXVI

3' x 5' x 6"

Devereux Foundation

Goleta, California

Osaka Piece

6'6" x 5' diameter

Osaka Science Museum

Osaka, Japan

Harborland

28' x 8' x 8'

Harborland Development

Kobe, Japan

Circus of the Spheres

6'6" x 5' x 7'

Rainbow Babies & Children's

Hospital Cleveland, Ohio

Uridice

5'6" x 3' x 3'

Discovery Science Center

Costa Mesa, California

Moballization

3' x 12' x 1'

College of Engineering Boston University

Boston, Massachusetts

Global Energy

7' x 12' x 1'

Future Energy Pavilion Expo 92

Seville, Spain

1991

Gateway III

5'6" x 3' x 3'

Tokyo, Japan

Gateway IV

5'6" x 3' x 3'

Private Collection

Tokyo, Japan

Wallpiece XXVII

3' x 5' x 6"

Private Collection

Ithaca, New York

Super Ballpark

10' x 6' diameter

Kwasha Lipton Corporation

Fort Lee, New Jersey

Super Ballpark

10' x 6' diameter

Kwasha Lipton Corporation

Fort Lee, New Jersey

Bodyworks

16' x 5' diameter

Ibaragi Prefecture Health Center

Ibaragi, Japan

Wallpiece XXXVII

5' x 3' x 6"

Private Collection

Manhattan Beach, California

Wallpiece XXXVIII

3' x 5' x 6"

Magic House

St. Louis, Missouri

Wallpiece XXXIX

3' x 5' x 6"

Private Collection

Nokomis, Florida

American Dream

6' x 3' x 3'

Sanyo Railways Himeji Station

Himeji, Japan

Lalaballoosa

6'6" x 4' x 4'

St. Louis Children's Hospital

St. Louis, Missouri

1990

Newton's Dream

14' x 14' x 5'

Franklin Institute

Philadelphia, Pennsylvania

Hail to the Victor

5' x 1' x 1'
 Bruce Zenkel
 New York, New York

Science on a Roll

16' x 12' x 4'
 The Tech Museum of Innovation
 San Jose, California

**Magic Clock**

7'6" x 7'6" x 6'
 Japan Retailing Center
 Tokyo, Japan

Wallpiece XXXI

3' x 5' x 6"
 The Tech Museum, San Jose Airport
 San Jose, California

Gateway II

5'6" x 3' x 3'
 Private Collection
 Tokyo, Japan

Wallpiece XXXII

3' x 5' x 6"
 Private Collection
 Brentwood, California

Wallpiece XXXIII

3' x 5' x 6"
 O'Brien Energy Systems
 Philadelphia, Pennsylvania

Wallpiece XXXIV

3' x 5' x 6"
 Private Collection
 Tokyo, Japan

Wallpiece XXXV

3' x 5' x 6"
 Private Collection
 Tokyo, Japan

1989**Wallpiece XXV**

3' x 5' x 6"
 Private Collection

Having a Ball

14' x 14' diameter
 Ontario Science Center
 Toronto, Ontario

Wallpiece XXVI

3' x 5' x 6"
 Private Collection
 St. Louis, Missouri

(untitled)

5'6" x 6' x 3'
 Private Collection
 Philadelphia, Pennsylvania

Wallpiece XXVIII

3' x 5' x 6",
 Japan

Programaball

5'6" x 3' x 3'
 Gateway Design Development
 Lowell, Massachusetts

Incrediball Clock

28' x 10' x 10'
 Plaza Camino Real
 Carlsbad, California

(untitled)

10' x 19' x 2'
 Private Collection
 David Sharps, Jersey City, New Jersey

Global Circus II

7' x 10' x 4'
 Rockingham Center
 Rockingham, Western Australia

Wallpiece XXIX

3' x 5' x 6"
 Private Collection
 Greenwich, Connecticut

Wallpiece XXX

5' x 3'6" x 6"
 Private Collection
 Atlanta, Georgia

1988**Wallpiece XVI**

3' x 5' x 6"
 Private Collection

Wallpiece XVII

3' x 5' x 6"

Moore International
Great Neck, New York**Wallpiece XVIII**

3' x 5' x 6"

TASC, Inc.
Reading, Massachusetts**Ball Game**

30' x 15' x 8'

Forest Fair Mall
Cincinnati, Ohio**Chockablock Clock**

46' x 13' x 9'

Strawberry Square
Harrisburgh, Pennsylvania**Wallpiece XXIII**

3' x 5' x 6"

New York, New York

Wallpiece XXIV

3' x 5' x 6"

Private Collection

Pelota Pagoda

26' x 10' x 10'

Micronesia Mall
Tamuning, Guam**1987****Wallpiece XX**

3' x 5' x 6"

Private Collection
St. Louis, Missouri**Archimedean Excogitation**

27' x 8' x 8'

Museum of Science
Boston, Massachusetts**Wallpiece XXI**

3' x 5' x 6"

Private Collection
Las Vegas, Nevada**Wallpiece XXII**

3' x 5' x 6"

Private Collection
New York, New York**Wallpiece XIV**

3' x 5' x 6"

Private Collection

Watchamaballit

26" x 8' x 8'

Champlain Center
Plattsburgh, New York**Global Circus**

7' x 10' x 4'

Northland Shopping Centre
Melbourne, Australia**Wallpiece XIX**

3' x 5' x 6"

Private Collection
Washington, DC**Wallpiece XV**

3' x 5' x 6"

Private Collection

1986**Goldberg Variations**

6'6" x 7' x 7'

Logan Airport, Terminal A
Boston, Massachusetts**Wallpiece IX**

3' x 5' x 6"

Private Collection
New York, New York**Blue Shamrock**

40" x 8" x 50"

Private Collection
Santa Barbara, California**Excercise in Fugality**

6'6" x 7' x 7'

Logan Airport, Terminal E
Boston, Massachusetts**Wallpiece X**

3' x 5' x 6"

Private Collection
Paris, France**Perpetuball Motion Machine**

26' x 8' x 8'

Salmon Run Mall
Watertown, New York

(untitled)

9' x 10' x 10'
West Edmonton Mall
Edmonton, Alberta

Wallpiece XI

3' x 5' x 6"
Private Collection
Rye, New York

Wallpiece XII

5' x 5' x 6"
New York, New York

Wallpiece XIII

3' x 5' x 6"
Butler Institute of Art
Youngstown, Ohio

1985

Ball City

27' x 10' x 10'
West Edmonton Mall
Edmonton, Alberta

Magic Clock (Slim Clock)

6' x 4' x 2'
David Bermant Foundation
Santa Barbara Airport
Santa Barbara, California

Wallpiece VIII

3' x 5' x 6"
Private Collection
New York, New York

Tower of Bauble

32' x 10' x 10'
Move: Science World
Vancouver, B.C. Canada

1984

Wallpiece IV

3' x 5' x 6"
Asahi Shimbun Newspaper
Tokyo, Japan

Sakane Piece

3' x 5' x 2'
IBM Corporation
Tokyo, Japan



Wallpiece V

3' x 4' x 6"
Private Collection
New York, New York

Wallpiece VI

3' x 5' x 6"
Malcolm Forbes Museum
New York, New York

Wallpiece VII

3' x 5' x 6"
Private Collection
New York, New York

1983

42nd Street Ballroom

8' x 8' x 8'

Port Authority Bus Terminal
New York, New York

Having a Ball

12' x 8' x 1'
Move: Don Harrington
Discovery Center
Amarillo, Texas

Wallpiece III

3' x 5' x 6"
Private Collection
Greenwich, Connecticut

Magic Clock - West Erie

6' x 4' x 2'
West Erie Plaza
Erie, Pennsylvania

1982

Wallpiece II

3' x 5' x 6"
Private Collection
Rye, New York

Good Time Clock

6' x 4' x 2'
David Bermant Foundation
Port Authority Bus Terminal
New York, New York

1981

Wallpiece I

3' x 5' x 6"
Private Collection
Santa Barbara, California

Magic Clock - Cermak

6' x 4' x 2'
Cermak Plaza
Chicago, Illinois

1980

Magic Clock - Hamden

6' x 4' x 2'
Move: Durango Discovery Museum
Durango, Colorado

Splendule

12" x 12" x 7"
Collection of the artist

1979

Kinetic Fountain

5' x 12" x 12"
Private Collection

1975

Marttian Clock

18" x 8" x 16"
Private Collection

1974

Electric Ball Circus

12' x 8' x 8'
Long Ridge Mall
Rochester, New York

1970

City of Destiny

12" x 30" x 36"
Private Collection

1969

Chrysalophony

26" x 8" x 8"
Private Collection

Adventures in Materiality

5' x 3' x 4'
Westinghouse Corporation

1968

Homage to Ludwig

26" x 10" x 10"
Private Collection



ONE MAN SHOWS

- Sola Gallery, Ithaca, NY, 1997
- Ruth Siegal Gallery, NYC 1992
- Queens Museum, Queens, NY, 1988
- Kornblee Gallery, NYC, 1979
- Theo Portnoy Gallery, NYC, 1978
- Everson Museum, Syracuse, NY, 1976
- Arnot Museum, Elmira, NY, 1975
- Dobrick Gallery, Chicago, 1971
- Chakrian Gallery, NYC, 1969
- A. C. A. Gallery, NYC, 1966
- Terry Dintenfass, NYC, 1963-64
- Gallery Huit, Paris, 1952

GROUP EXHIBITIONS

- New York Hall of Science, Corona, NY, 1991
- "Playing Around: Toys by Artists," De Cordova Museum
- Group Exhibition, Jacksonville Art Museum, 1991
- P.U.L.S.E. II, Santa Barbara University Art Museum 1991
- List Visual Arts Center, MIT, Cambridge, MA 1989
- Expo '88, Brisbane, Australia Interaction Light, Sound, Motion
- Group Exhibition, The Wadsworth
- Antheneum, Hartford, Connecticut, 1984
- Beethoven," (exhibition of Beethoven memorabilia) Aachen, Germany, 1970
- "An Exhibition of the Art of Paper Folding,"
- Cooper Union, NYC, 1959
- "Painters of the City," (touring exhibition in the USA and Europe), organized by the
- Art Institute of Chicago, 1956
- Aldrich Museum of Contemporary Art, 1988

ARTICLES & REVIEWS

- Morning Edition. National Public Radio, August 15, 2002
- Dictionary of the Avant Garde. Richard Kostelanetz. 1993, 2000
- Artforum, April 1992. Reviewed by Justin Spring
- Art in America, April 1992. Reviewed by George Melrod
- "Clumper upper to wok dumper" Smithsonian Magazine, Oct. 1988
- "Krazy Kinetic Kontraptions," The Christian Science Monitor, Feb. 5, 1988
- "Timely Projects," The New York Times, Dec. 1988
- "Sculpture Fun House," New York Time Magazine, May 31, 1987
- This Morning show, ABC TV, June 30, 1997

EDUCATION

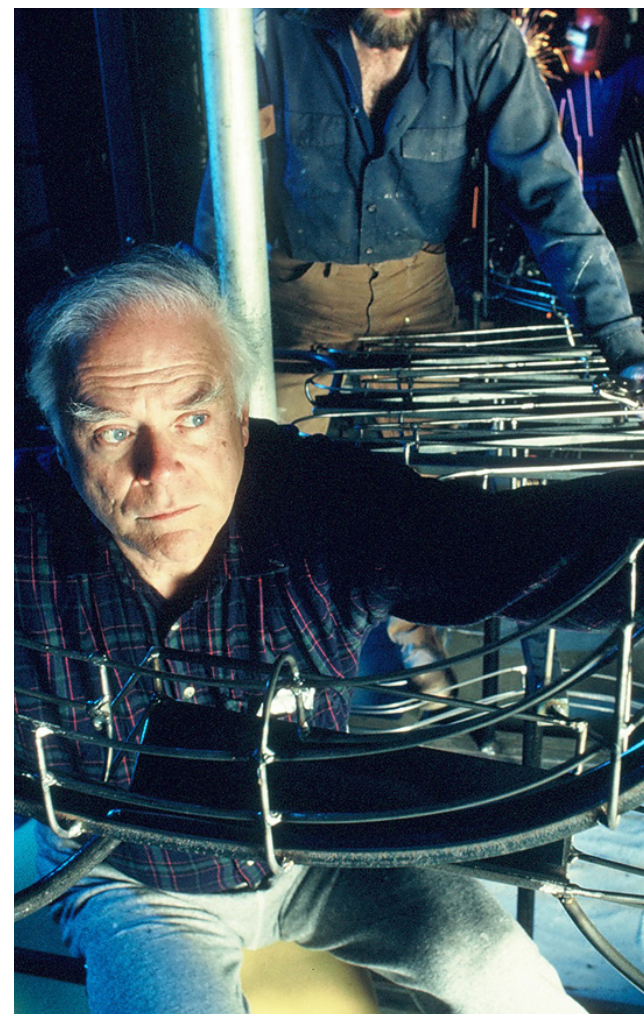
- Academie de la Grande Chaumiere, Paris 1951-52
- University of Chicago, A.B. degree, 1946
- Art Institute of Chicago, Painting and Drawing, 1945

MUSEUMS

- Museum of Modern Art, NYC
- The Art Institute of Chicago, Illinois
- The Butler Institute of American Art, Youngstown, Ohio
- The Wadsworth Atheneum, Hartford, Connecticut

COLLECTIONS

- Leonard Bernstein
- Malcolm S. Forbes
- Lawrence Tish
- David Elliot
- Herbert Adler
- Yevgeny Yevtushenko
- David Bermant
- William Marsteller
- American Scientific Company
- Westinghouse Electric Company





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