

## Getulio Alviani

b. 1939 Udine, Italy. Lives and works in Milan,  
Italy

### *Disco, 1965*

Steel plate

Archivo Alviani

**Marina Apollonio**

b. 1940 Trieste, Italy. Lives and works in Padua,  
Italy

***Dinamica Circolare* [Circular Dynamics], 1968**

Painted wood disk, motorized

Archivo Alviani

**Davide Boriani**

b. 1936 Milan, Italy. Lives and works in Milan,  
Italy

***Superficie Magnetica* [Magnetic Surface],  
1961–65**

Mixed media, electric motor  
Archivo Alviani

**Pol Bury**

b. 1922 Haine-Saint-Pierre, Belgium–d. 2005  
Paris, France

***Melangeur, 1968***

Wood, electric motor  
Archivo Alviani

**Gego**

b. 1912 Hamburg, Germany–d. 1994 Caracas,  
Venezuela

***Ocho Cuadrados, 1961***

Painted iron

Colección Patricia Phelps de Cisneros

**Karl Gerstner**

b. 1930 Basel, Switzerland. Lives and works in  
Basel, Switzerland

***Auto Vision I, 1964***

Boxed TV set on Miller foot, six lunettes  
Collection of the artist

## **Toni Costa**

b. 1935 Padua, Italy. Lives and works in Padua,  
Italy

### ***Visual Dynamics, 1963***

Polyethylene on wood

Archivo Alviani

## **Hans Haacke**

b. 1936 Cologne, Germany. Lives and works in New York, NY

### ***Blue Sail, 1964–65***

Blue chiffon, oscillating fan, fishing weights, and thread

San Francisco Museum of Modern Art



## **Julio Le Parc**

b. 1928 Mendoza, Argentina. Lives and works in Paris, Argentina, and Cachan, France

### ***Instability through Movement of the Spectator,* 1962**

Synthetic polymer paint on wood and polished aluminum in painted wood box  
Museum of Modern Art, New York

## Heinz Mack

b. 1931 Lollar, Germany. Lives and works in  
Mönchengladbach, Germany, and Ibiza, Spain

### *Transparente Stele, 1966/2010*

Plexiglass, motor

Courtesy of Sperone Westwater, New York

**Manfredo Massironi**

b. 1937 Padua, Italy–d. 2011 Padua, Italy

***Fotoriflessione Variabile* [Variable  
Photoreflexion], 1964**

Wood, mirror, glass, lamps, electric motor

Archivo Alviani and Archivo Manfredo Massironi

**Hans Haacke**

b. 1936 Cologne, Germany. Lives and works in New York, NY

***Kugel in schragen Luftstrahl* [Sphere in Oblique Air Jet], 1964–2011**

Weather balloon, helium, fan, laminate, wood, airjet

Courtesy the artist and Paula Cooper Gallery, New York

## **François Morellet**

b. 1926 Cholet, France. Lives and works in  
Cholet and Paris, France

### ***Sphère-trames*, 1962**

Welded steel rods, stainless steel

Courtesy the artist and Galerie Hervé Bize,  
Nancy, France

**Jesús Rafaël Soto**

b. 1923, Ciudad Bolívar, Venezuela–d. 2005,  
Paris, France

***Spirale* [Spiral], 1955**

Plexiglass, wood, enamel, and metal  
Archivo Alviani

**Jean Tinguely**

b. 1925 Fribourg, Switzerland–d. 1991 Bern,  
Switzerland

***Meta-Malevic, 1959–60***

Iron, wood, electric motor

Archivo Alviani

**Günther Uecker**

b. 1930 Wendorf, Germany. Lives and works in  
Düsseldorf, Germany

***New York Dancer IV, 1965***

Nails, cloth, metal, electric motor

Private collection. Courtesy Austin Desmond  
Fine Art, London



## **Grazia Varisco**

b. 1937 Milan, Italy. Lives and works in Milan, Italy

### ***Schema Luminoso Variabile* [Variable Bright Scheme], 1962–63**

Plexiglass, bulbs, electric motor

Archivo Alviani

**Yvaral (Jean-Pierre Vasarely)**

b. 1934 Paris, France–d. 2002 Paris, France

***Acceleration 19, Series B, 1962***

Plastic cord, Plexiglas, and wood

Museum of Modern Art, New York

## **Gianni Colombo**

b. 1937 Milan, Italy–d.1993 Melzo, Italy

### ***Spazio Elastico* [Elastic Space], 1967–68**

Elastic cord, black light, electric motor

Galleria Nazionale d'Arte Moderna e

Contemporanea, Roma. Courtesy Archive

Gianni Colombo, Milan

**Emery Blagdon**

b. 1907 Garfield Table, NE–d. 1986 Garfield Table, NE

***Untitled #327, ca. 1955–86***

Steel wire, plastic, tin foil, mixed media  
Courtesy Cavin Morris Gallery, New York

***Cascade #384, ca. 1955–86***

Steel wire, plastic, tin foil, wood, paper, tape, mixed media  
Collection Marc and Kathryn LeBaron

***Untitled #390, ca. 1955–86***

Steel wire, copper, mixed media  
Courtesy Cavin Morris Gallery, New York

***Untitled, ca. 1956–84***

Steel, copper wire, tin foil, paper  
Collection Selig Sacks, New York

***Untitled, ca. 1955–86***

Recycled wire, copper wire, masking tape, aluminum foil, metal  
Courtesy Cavin Morris Gallery, New York

***Untitled #284, ca. 1955–86***

Steel, copper wire, wood, cans, mixed media  
Collection Karen and Robert Duncan, Lincoln, Nebraska

***Untitled #337, ca. 1955–86***

Foil, tape, wire, found objects  
Collection Marc and Kathryn LeBaron

***Untitled, ca. 1956–84***

Steel, copper wire  
Collection Selig Sacks, New York

***Untitled, ca. 1955–86***

Steel wire, plastic, paper, tape, mixed media  
Courtesy Cavin Morris Gallery, New York

**Robert Gie**

b. 1869 Solothurn, Switzerland–d. Unknown

*Untitled (Distributeur d'effluves avec machine centrale et tableau métrique* [Distribution of gases with the central machine and metric table], 1916

Colored pencil on tracing paper

*Untitled (Trois personnages parcourus d'effluves)* [Three characters walking through gases], ca. 1916

Graphite and ink on tracing paper

Collection de l'Art Brut, Lausanne, Switzerland

# Joey the Mechanical Boy

Untitled, ca. 1959

Reproductions of drawings

**Emma Kunz**

b. 1892 Switzerland–d. 1963 Switzerland

*Work No. 094, n. d.*

*Work No. 356, n. d.*

*Work No. 075, n. d.*

*Work No. 086, n. d.*

Pencil and crayon on white scale paper  
Emma Kunz Museum, Würenlos, Switzerland

## James Tilly Matthews

b. 1770 Wales–d. 1815 London, England

Engraving of the Air Loom, from John Haslam's  
*Illustrations of Madness*, 1810

Ink on paper

Collection Bethlem Art and History Collections  
Trust



**Jakob Mohr**

b. 1884–d. 1935

***Beweise* [Proofs], ca. 1910**

Pencil and black pen on record paper

Sammlung Prinzhorn, Heidelberg

## **Henrik Olesen**

b. 1967 Esbjerg, Denmark. Lives and works in  
Berlin, Germany

### ***Some Illustrations to the Life of Alan Turing,* 2009**

30 framed computer collages, 6 unframed text  
collages

Kunstmuseum Basel, Switzerland

Unattributed

*Orgone Energy Accumulator, 2012*

Invented by Wilhelm Reich in 1940

Upon board, galvanized sheet iron, glass wool,  
steel wool, plywood, and pine

**Johanna (Jeanne) Natalie Wintsch**

b. 1871 Warsaw, Poland–d. 1944 Lausanne,  
Switzerland

*Je suis radio, 1924*

*L'ange unique, 1923*

Embroidery

Sammlung Rheinau

**Paul Sharits**

b. 1943 Denver, CO–d. 1993 Buffalo, NY

***Epileptic Seizure Comparison, 1976***

Two 16mm films, color, sound, trapezoidal  
walls, aluminum paint

Courtesy Anthology Film Archives and Greene  
Naftali Gallery, New York

**Otto Piene**

b. 1928 Bad Laasphe, Province of Westphalia.  
Lives and works in Düsseldorf, Germany, and  
Groton, MA

***Lichtballett, 1961***

Mixed media  
Kravis Collection

***Light Ballet on Wheels, 1965***

Aluminum drum, four wheels, glass, flat black  
paint  
Courtesy Sperone Westwater, New York

***Electric Anaconda, 1965***

Brass globes, flat black paint, glow lamps  
Courtesy Sperone Westwater, New York

***Hängende Lichtkugel, 1972***

Mixed media  
Courtesy Sperone Westwater, New York

**Harold Edgerton**

b. 1903 Fremont, NE–d. 1990 Cambridge, MA

***Atomic Bomb Explosion before 1952, ca. 1952***

Gelatin silver print

***Light Ballet on Wheels, 1965***

Aluminum drum, four wheels, glass, flat black paint

Courtesy Sperone Westwater, New York

***Baton Multiflash, n.d.***

Photograph

***Death of a Light Bulb, 1936***

Gelatin silver print

***Water from a Faucet, 1932***

Gelatin silver print

© The Edgerton Foundation. Courtesy Palm Press, Inc.

## **João Maria Gusmão**

b. 1979 Lisbon, Portugal. Lives and works in  
Lisbon, Portugal

## **Pedro Paiva**

b. 1977 Lisbon, Portugal. Lives and works in  
Lisbon, Portugal

## ***Eye Model, 2006***

Camera obscura system with table, ostrich  
eggs, lens, and spotlight  
Flavio Albanese Collection



**Jean Ferry**

b. 1906 Capens, France–d. 1974 France

*L'Afrique des Impressions: Petit Guide  
pratique à l'usage du voyageur* [Impressions  
of Africa: A Brief Guide for the Traveler], 1910

Reproductions of illustrations from printed  
book

## **Jeff Koons**

b. 1955 York, Pennsylvania. Lives and works in New York, NY

### ***New Shelton Wet/Dry 5-Gallon, New Hoover Convertible Doubledecker, 1981–87***

One Shelton Wet/Dry, one Hoover Convertible, acrylic and fluorescent lighting

Private Collection

**Ulf Linde**

b. 1929 Stockholm, Sweden. Lives and works in Stockholm, Sweden

**Pontus Hultén**

b. 1924 Stockholm, Sweden–d. 2006  
Stockholm, Sweden

**P. O. Ultvedt**

b. 1927 Kemi, Finland–d. 2006 Stockholm,  
Sweden

**Study for reconstruction of *Marcel Duchamp:*  
*La mariée mise à nu par ses célibataires,*  
*même 1915–1923, 1959–60***

Moderna Museet, Stockholm

**Herbert Marshall McLuhan**

b. 1911 Edmonton, Alberta, Canada–d. 1980  
Toronto, Ontario, Canada

*The Mechanical Bride: Folklore of Industrial  
Man*, Beacon Press, 2nd printing, 1967

Printed book

**Robert Smithson**

b. 1938 Passaic, NJ–d. 1973 Tecovas Lake, TX

***The Eliminator, 1964***

Exhibition copy produced in 2004

Steel, mirrors, neon

Original work, dated 1964, in the Collection of Sylvio Perlstein, Antwerp. On view, exhibition copy: The Estate of Robert Smithson. Courtesy James Cohan Gallery, New York/Shanghai

## Unattributed

### **Reconstruction of the machine from Franz Kafka's "In the Penal Colony," 1914**

Realized in Ateliers des Grands Magasins Loeb SA, Bern (Werner Huck and Paul Gysin, in collaboration with Harald Szeemann) for the exhibition "The Bachelor Machines," 1975–77, initiated by Harald Szeemann

Collection Ingeborg Lüscher and Una Szeemann

**Marc Adrian**

b. 1930 Vienna, Austria–d. 2008 Vienna, Austria

***CT 6/66, 1966***

Graphic (Computer: IBM 1620/II)

***CT 3/66, 1966***

Graphic (Computer: IBM 1620/II)

***CT 2/66, 1966***

Graphic (Computer: IBM 1620 Model II, IBM 1443 printer)

Collection MSU Archive, Zagreb, Croatia

**Konrad Klapheck**

b. 1935 Düsseldorf, Germany. Lives and works  
in Düsseldorf, Germany

***Die Erotische (Erotic Woman), 1966***

Oil on canvas

Private Collection

***Reife (Maturity), 1986***

Oil on canvas

Collection David Zwirner, New York

***Die Mütterliche Freundin (Motherly Girlfriend),  
1966***

Oil on canvas

Collection David Zwirner, New York



**Henrik Olesen**

b. 1967 Esbjerg, Denmark. Lives and works in Berlin, Germany

***Apple (Ghost) (1), 2008***

Box, adhesive tape, rope, padding material, blanket

Collection Alexander Schröder, Berlin

***Imitation/Enigma (2), 2008***

Box, adhesive tape, rope, padding material, blanket

Collection Alexander Schröder, Berlin

**Henrik Olesen**

b. 1967 Esbjerg, Denmark. Lives and works in  
Berlin, Germany

***The Body is a Machine, 2010***

Oil on canvas

Kunstmuseum Basel, Switzerland

**Ulla Wiggen**

b. 1942 Stockholm, Sweden. Lives and works in Sweden

*Trask (portrait of computer parts), 1967*

Acrylic on board

Moderna Museet, Stockholm

**Philippe Parreno**

b. 1964 Oran, Algeria. Lives and works in Paris,  
France

***The Writer, 2007***

Video, color, sound, 3:58 min

Courtesy the artist and Friedrich Petzel Gallery,  
New York

## Christopher Williams

b. 1956 Los Angeles, CA. Lives and works in Cologne and Düsseldorf, Germany, and Amsterdam, the Netherlands

*Kiev 88, 4.6 lbs. (2.1 kg) Manufacturer: Zavod Arsenal Factory, Kiev, Ukraine. Date of production: 1983-87. Douglas M. Parker Studio, Glendale, California. March 28, 2003 (NR. 1, 2, 3), 2003*

Dye transfer prints

Courtesy David Zwirner, New York

**Peter Fischli**

b. 1952 Zurich, Switzerland. Lives and works in Zurich, Switzerland

**David Weiss**

b. 1946 Zurich, Switzerland–d. 2012 Zurich, Switzerland

***Der Lauf der Dinge* [The Way Things Go], 1987**

Color laserdisc, 30 min

Courtesy the artists and Matthew Marks Gallery

**6 Petar Milojević**

b. 1936, Kosovo. Lives and works in Toronto, Canada

***Eye, 1965***

Computer graphic  
Collection MSU, Zagreb, Croatia

**7 Alan Mark France**

b. 1943 London, England. Lives and works in London, England

***Cycle One, 1968***

Computer graphic, paper (computer: ICL 1900, series 1905, external device: CalComp graph plotter 363 ICL 1934/4)  
Collection MSU, Zagreb, Croatia

**8–12 Petar Milojević**

b. 1936, Kosovo. Lives and works in Toronto, Canada

**“Flora NT” (also: “Floral Design or Seasons”), 1969**

Computer-generated graphics, ink on paper (IBM 360, CalComp 565); Programmed in FORTRAN, Produced at McGill University, Montreal  
Collection MSU Archive, Zagreb, Croatia

***Floral Design 14A, 1969***

***Floral Design 17, 1969***

***Floral Design 14D, 1969***

***Floral Design 15, 1969***

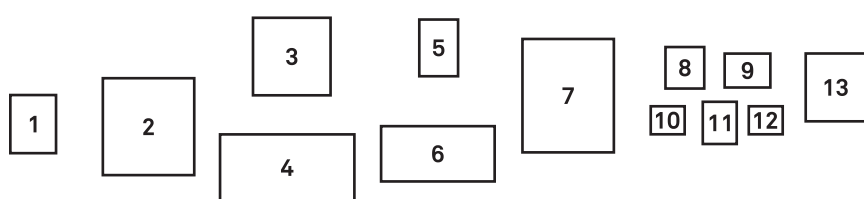
***Floral Design 16, 1969***

**13 Petar Milojević**

b. 1936, Kosovo. Lives and works in Toronto, Canada

***A Sea Star, 1965***

Computer graphic, paper (computer IBM 360/75 external device: CalComp plotter 565)  
Collection MSU, Zagreb, Croatia



**1 Georg Nees**

b. 1926 Nuremburg, Germany. Lives and works in Erlangen, Germany

***Bild 3, ca. 1969***

Computer graphic (computer: Siemens, external device: Zuse Graphomat)  
Collection MSU Archive, Zagreb, Croatia

**2 David R. Garrison**

b. 1929 Buenos Aires, Argentina. Lives and works in Buenos Aires, Argentina

***Hypothetical Surface No. 1, 1968/9***

Computer-generated design, computer prints, ink on paper (IBM 6400, IBM 360/20, External devices: CDC printer, IBM printer; 029 keypunch (IBM); Produced at State University of New York at Buffalo)  
Collection MSU, Zagreb, Croatia

**3 Sylvia Roubaud**

b. 1941 Munich, Germany. Lives and works in Munich, Germany, and Italy

***Explosion of Ordered Structures, 1972***

Computer graphic, silkscreen  
Collection MSU Archive, Zagreb, Croatia

**4 Alan Mark France**

b. 1943 London, England. Lives and works in London, England

***Three Experiments, 1969***

Computer graphic, paper (computer: ICL 1900, series 1905, external device: CalComp graph plotter 364)  
Collection MSU, Zagreb, Croatia

**5 Computer Center Boris Kidrič Institute, Vinča**

b. 1929 Buenos Aires, Argentina. Lives and works in Buenos Aires, Argentina

***Selected Time Function, 1967***

Photograph of computer graphic  
Collection MSU Archive, Zagreb, Croatia