

MANFRED MOHR

b.1938 in Pforzheim, Germany

Lived in Paris 1963 – 1983

Lives and works in New York since 1983

Manfred Mohr is a leader within the field of software-based art. In the early 1960's he discovered Professor Max Bense's writing on information aesthetics. These texts radically changed Mohr's artistic thinking, and within a few years, his art transformed from abstract expressionism to computer-generated algorithmic geometry. Encouraged by the computer music composer Pierre Barbaud, whom he met in 1967, Mohr programmed his first computer drawings in 1969 after learning the Fortran IV programming language to create compositions that he executed as ink drawings on paper. He started his research in 1969 at the Faculty of Vincennes, Paris in the group "Art et Informatique," where he co-founded the seminar. Initially he did not have a plotter at this facility and had to draw his computer calculations as printed out xy points by hand on paper. Frustrated, he looked for a better solution.

He contacted the Institute of Meteorology in Paris which granted him access in 1970 to a Benson 1284 flatbed plotter and a CDC 6400 computer, the most powerful machines of that time. He worked there nearly each night between 1970 to 1983—combining research and programming to create his unique artworks. A logical and automatic construction of pictures, where he used algorithms to calculate the images.

Before he got access to the institute of Meteorology, some of his earliest drawings were executed on a light pen plotter (1969) and also on a large Zuse flatbed plotter at the University of Darmstadt in Germany (1970). Mohr's first major museum exhibition, *Une esthétique programmée*, took place in 1971 at the Musée d'Art Moderne de la Ville de Paris. It has since become known as the first solo show in a museum of works entirely calculated and drawn by a digital computer. During the exhibition, Mohr demonstrated his process of drawing his computer-generated imagery using a Benson flatbed plotter for the first time in public. Mohr's pieces have been based on the logical structure of cubes and hypercubes—including the lines, planes, and relationships among them—since 1973.

Mohr's work is in the collections of the Centre Pompidou, Paris; ZKM | Center for Art and Media, Karlsruhe; Whitney Museum of American Art, New York; Joseph Albers Museum, Bottrop; Mary and Leigh Block Museum of Art, Chicago; Victoria and Albert Museum, London; Ludwig Museum, Cologne; Wilhelm-Hack-Museum, Ludwigshafen; Kunstmuseum Stuttgart, Stuttgart; Stedelijk Museum, Amsterdam; Museum im Kulturspeicher, Würzburg; Kunsthalle Bremen, Bremen; Musée d'Art Moderne et Contemporain, Strasbourg; Daimler Art Collection, Berlin / Stuttgart; Musée d'Art Contemporain, Montreal; The Tel Aviv Museum of Art, Tel Aviv; Espace D'Art Concret (EAC), Mouans- Sartoux; Museum für Angewandte Kunst, Cologne; Borusan Art Collection, Istanbul; McCrory Collection, New York; Esther Grether Collection, Basel; Thoma Art Foundation, Chicago; Anne + Michael Spalter Digital Art Collection, Rhode Island; Fondation Guy & Myriam Ullens, Geneva.

Solo exhibitions and retrospectives of his work include ARC – Musée d'Art Moderne de la ville de Paris; ZKM, Karlsruhe; Joseph Albers Museum, Bottrop; Wilhelm-Hack-Museum, Ludwigshafen; Museum for Concrete Art, Ingolstadt; Kunsthalle Bremen; Museum im Kulturspeicher, Würzburg; and Grazyna Kulczyk Foundation, Poznan; Featured Artist at Art Basel, Basel, Switzerland ; Center for the Arts, Virginia Tech; Simons Center Gallery, Stony Brook.

Mohr's work has also been exhibited at ZKM, Karlsruhe; MoMA, New York; Centre Pompidou, Paris; Whitney Museum of American Art, New York; Grand Palais, Paris; Hamburger Bahnhof, Berlin; Whitechapel Gallery, London; Prague City Gallery (G HMP), Prague; Victoria and Albert Museum (V & A), London; CCCB, Barcelona; Kunstmuseum Stuttgart; Kunstmuseum Bremen, Bremen; Vasarely Museum, Budapest, Espace D'Art Concret (EAC), Mouans- Sartoux; Museum Ritter, Waldenbuch; Centro Cultural de la Villa, Madrid; MoCA, Los Angeles; National Museum of Modern Art, Tokyo; SFMOMA, San Francisco; Musée d'Art Contemporain de Montréal, Montréal; Muzeum Sztuki Lodz, Poland; Neue Nationalgalerie, Berlin; MoMA PS1, New York; Neue Nationalgalerie, Berlin; New Tendencias 5, Zagreb; Fundacion Banco Santander, Madrid; Leo Castelli Gallery, New York; and Galerie Paul Facchetti, both in Paris and Zürich.

Mohr is the recipient of an ACM SIGGRAPH Distinguished Artist Award for Lifetime Achievement in Digital Art; Golden Nica from Ars Electronica, Linz, Austria; the Camille Graesser-Preis, Zurich; D.velop Digital Art Award, Berlin, and a New York Foundation for the Arts Fellowship.

EDUCATION

- 1957-61 Kunst + Werkschule, Pforzheim - Gold and silversmith, painting
1964-66 Ecole des Beaux Arts, Paris - Lithography

SOLO EXHIBITIONS

- 2023 *Broken Symmetry*, DAM Gallery, Berlin, Germany
2022 *Liquid Symmetry*, bitforms gallery, New York, NY
2020 *Artists after Eighty: Manfred Mohr*, Galerie Linde Hollinger, Ladenburg, Germany
2019 *Manfred Mohr: A Formal Language. Celebrating 50 Years of Artwork and Algorithms*, bitforms gallery, New York, NY
2018 *Manfred Mohr | TRANSIT CODE*, DAM Gallery, Berlin, Germany
Manfred Mohr | 80th Birthday Celebration, Galerie Mueller-Roth, Stuttgart, Germany
2017 *Manfred Mohr | Vom Rhythmus zum Algorithmus / From Rhythm to Algorithm*, Museum Pforzheim Galerie, Pforzheim, Germany
2016 *Manfred Mohr : Artificiata II – Sonata Visuelle*, Galerie Charlot, Paris, France
Manfred Mohr | Visuell, Musikalisch, DAM Gallery, Berlin, Germany
Manfred Mohr: New Works, Carroll/Fletcher Gallery, New York, NY
2015 *Artificiata II*, bitforms gallery, New York, NY
Manfred Mohr: Pioneer of Algorithmic Art, Simons Center for Geometry and Physics, Stony Brook University, New York, NY
Manfred Mohr: Works from 2013-2015, Galerie Wack, Kaiserlautern, Germany
2014 *Evolving Geometries: Line, Form, and Color*, Center for the Arts at Virginia Tech, Blacksburg, VA
Artificiata I & II, Persistent Projects, open-ended (hi)stories, OEI Colour Project, Stockholm, Sweden
2013 *Der Algorithmus des Manfred Mohr, 1963-jetzt*, ZKM (Zentrum für Kunst und Medientechnologie), Karlsruhe, Germany
Manfred Mohr: Fifty Years - Réflexions sur une esthétique programée, 1963-2013, Art Basel, with bitforms gallery, Basel, Switzerland
Artificiata II, Galerie Mueller-Roth, Stuttgart, Germany
Artificiata II, Galerie [DAM], Berlin, Germany
2012 *One and Zero*, Carroll/Fletcher Gallery, London, England
2011 *1964-2011, Réflexions sur une esthétique programée*, bitforms gallery, New York, NY
parallelResonance, Galerie Wack, Kaisterslautern, Germany
parallelResonance, Galerie [DAM], Cologne and Berlin, Germany
Manfred Mohr with Jan van Munster (two-person), Galerie Linde Hollinger, Ladenburg, Germany
2009 *Generative Arbeiten*, Galerie Lausberg, Düsseldorf, Germany
2008 *Klangfarben*, bitforms gallery, New York, NY
Manfred Mohr | Installations et autres tableaux, Galerie Lahumière, Paris, France
Art Stations Preview – It from Bit, Grazyna Kulczyk Foundation, Poznan, Poland
Klangfarben, Galerie DAM, Berlin, Germany
Bildschirmarbeiten, Bilder & Zeichnungen, Galerie La Ligne, Zürich, Switzerland
Visuell Zuhören, Kunstverein Pforzheim, Germany
2007 *Klangfarben*, Galerie Mueller-Roth, Stuttgart, Germany
Broken Symmetry, Kunsthalle Bremen, Germany
Manfred Mohr, Landesvertretung Bremen in Berlin, Germany
2006 *Subsets*, bitforms gallery, New York, NY
2005 *Zeichnungen aus 30 Jahren*, Museum Kulturspeicher, Würzburg, Germany
subsets, Galerie Wack, Kaiserslautern, Germany
2004 *space.color.motion*, DAM, Berlin, Germany
2003 *space.color.motion*, Galerie Mueller-Roth, Stuttgart, Germany
2002 *space.color.motion*, bitforms gallery, New York, NY
space.color, Galerie Schoeller, Düsseldorf, Germany
space.color, Wilhelm-Hack-Museum, Ludwigshafen, Germany
2001 *space.color*, Museum für Konkrete Kunst, Ingolstadt, Germany
space.color, Galerie Wack, Kaiserslautern, Germany
2000 *Retrospective 1965 – 1999*, The Rave Internet Webmuseum, online
1999 Galerie Kaumkötter + Partner, Osnabrück, Germany
Bilder+Zeichnungen, Galerie Schoeller, Düsseldorf, Germany
1998 *Selected Works*, European Art Concrete, Berlin, Germany
Algorithmic Works, Josef Albers Museum, Bottrop, Germany
Retrospective 1968-98, Haus Kollmar & Jourdan, Pforzheim, Germany
1997 *Generative Arbeiten*, Galerie Wack, Kaiserslautern, Germany

- Half Planes*, ACP Galerie, Zürich, Switzerland
 Galerie Mueller-Roth, Stuttgart, Germany
 Galerie Mathieu, Lyon, France
- 1996 Galerie Weiller / Chevalier, Paris, France
 1995 Galerie Weiller / Chevalier, Paris, France
 Galerie Jeanne Buytaert, Antwerp, Belgium
- 1994 Galerie Teufel-Holze, Dresden, Germany
Computer Arbeiten - Laserglyphs, Dürhammer Galerie, Frankfurt, Germany
 ACP Galerie, Zürich, Switzerland
 Galerie der Stadt Stuttgart, Stuttgart, Germany
- 1993 *Neue Arbeiten, with Cristoph Freiman*, Galerie Heinz Teufel, Bad-Münstereifel-Mahlberg, Germany
 1992 *Laserglyphs*, Galerie Mueller-Roth, Stuttgart, Germany
 Galerie Weiller / Chevalier, Paris, France
Laserglyphs, ACP Galerie, Zürich, Switzerland
- 1991 *Neue Arbeiten 1989/90*, Galerie Heinz Teufel, Bad-Münstereifel-Mahlberg, Germany
 ACP Galerie, Zürich, Switzerland
- 1990 *Manfred Mohr New York*, Dürhammer Galerie, Frankfurt, Germany
 1989 *Travaux Génératifs*, Galerie Jeanne Buytaert, Antwerp, Belgium
Dessins et Peintures Génératifs, Galerie Weiller / Chevalier, Paris, France
Computer-Related Geometric Works, Prakapas Gallery, New York, NY
- 1988 *Retrospective 1960-87*, Reuchlin Museum, Pforzheim, Germany
Zeichnungen + Bilder, Galerie Heinz Teufel, Cologne, Germany
- 1987 *Retrospective 1960-87*, Wilhelm-Hack-Museum, Ludwigshafen, Germany
 1986 *Divisibility III*, Galerie Mueller-Roth, Stuttgart, Germany
Travaux Récents, Galerie Weiller / Chevalier, Paris, France
Travaux Récents, Galerie Jeanne Buytaert, Antwerp, Germany
- 1985 *Divisibility II*, Galerie Heinz Teufel, Cologne, Germany
Selection of Important Works 1965-1985, Galerie Gilles Gheerbrant, Montréal
- 1983 *Hyper-Cube*, Art Research Center, Kansas City, KS
 1982 *Divisibilité*, Galerie Pierre Weiller, Paris, France
Neue Arbeiten, Galerie Mueller-Roth, Stuttgart, Germany
Premieren, Galerie Heinz Teufel, Cologne, Germany
- 1981 *Divisibility*, Galerie Gilles Gheerbrant, Montréal, Canada
 1980 *Werkübersicht von 1965-1980*, Galerie Heinz Teufel, Cologne, Germany
 1979 *Dessins Génératifs*, Galerie Pierre Weiller, Paris, France
Generative Works 1969-1979, Galerie Gilles Gheerbrant, Montréal
Dimensions, Galerie Mueller-Roth, Stuttgart, Germany
- 1978 *Generative Bilder und Zeichnungen*, Galerie Heinz Teufel, Cologne, Germany
Dessins Génératifs, Galerie S:t Petri, Lund, Sweden
- 1977 *Generative Zeichnungen*, Galerie Edith Wahlandt, Schwäbisch Gmünd, Germany
Cubic Limit II, Generative Drawings, Galerie Pierre Weiller, Paris, France
- 1976 *Dessins Génératifs*, Galerie Media, Neuchâtel, Switzerland
Cubic Limits, Galerie Gilles Gheerbrant, Montréal, Canada
Zeichnungen, Galerie Mueller-Roth, Stuttgart, Germany
- 1975 *Cubic Limit*, Galerie Hendrike Swart, Amsterdam, the Netherlands
Cubic Limit, Galerie Pierre Weiller, Paris, France
- 1974 *Drawings/Dessins/Dibujos*, Galerie Pierre Weiller, Paris, France
Drawings/Dessins/Dibujos, Galerie Gilles Gheerbrant, Montréal, Canada
- 1973 *Computer – grafik*, Galerie Edith Wahlandt, Schwäbisch Gmünd, Germany
 1972 *Denkbare kunst met de computer*, Galerie Hendrike Swart, Amsterdam, Holland
 1971 *Une esthétique programmée*, ARC, Musée d'Art Moderne de la Ville de Paris, Paris, France
 Galerie Mangelgang, Groningen, Holland
- 1969 *Galerie Anne-Marie Verna*, Zürich, Switzerland
 1968 *signes géométrique*, Galerie Daniel Templon, Paris, France

GROUP EXHIBITIONS

- 2023 *Coded: Art Enters the Computer Age 1952 - 1982*, Los Angeles County Museum of Art, Los Angeles, CA
On Balance: New Work from American Abstract Artists, Art Cake, Brooklyn, NY
- 2022 *From Net Art to Post-Internet*, Thomas Erben Gallery, New York, NY
- 2021 *Peinture: Obsolescence Déprogrammée*, Musée d'Art Moderne et Contemporain, Sables d'Olonne, France
- 2020 *Immaterial/Re-material: A Brief History of Computing Art*, Ullens Center for Contemporary Art, UCCA, Beijing, China; curated by Jerome Neutres

- SUMMER SPLASH 6, DAM Gallery, Berlin, Germany
 Galerie Charlot 10-Year Anniversary Exhibition, Galerie Charlot, Paris, France
 Post Hoc, online exhibition; curated by Nick Monfort
 Traumreisen, Pforzheim Galerie, Pforzheim, Germany
 Homage to Heinz Teufel, Milan Dobes Museum, Ostrava, Czech Republic
 American Abstract Artists: Digital Prints, 2012 – 2019, Transmitter Gallery, Brooklyn, NY
- 2019 bitforms gallery LA, ROW DTLA, Los Angeles, CA
 Writing the History of the Future: The ZKM Collection, ZKM, Karlsruhe, Germany
 Sinnesrausch 2019: Kunst und Bewegung / Art and Movement, OÖ Kulturquartier, Linz, Austria
 Kunst + Design im Dialog: Die neue Dauerausstellung Design mit Sammlung Winkler, Museum für Angewandte Kunst, Cologne, Germany
 Sounds / Codes / Images: Acoustic Experimentation in the Visual Arts, Prague City Gallery, Prague, Czech Republic
 Chance and Control: Art in the Age of Computers, Chester Visual Arts, Chester, England
 Zwischen Schwarz und Weiss – Bestandsprobe V, Museum Pfalzgalerie, Kaiserslautern, Germany
 Calculated Chance, Société d'Électricité, Brussels, Belgium
- 2018 Programmed: Rules, Codes, and Choreographies in Art, 1965–2018, Whitney Museum of American Art, New York, NY
 The Transformation of Geometry / Collections Siegfried Grauwinkel, Berlin and Miroslav Velfl, Prague City Gallery, Prague, Czech Republic
 Art in Motion. 100 Masterpieces with and through Media, Center for Art and Media, ZKM, Karlsruhe, Germany
 Home Advantage, German Artists From The Collection Schaufler, Schauwerk Sindelfingen, Sindelfingen, Germany
 Thinking Machines, Ramon Llull and the ars combinatoria, ArtLab EPFL, Lausanne, Switzerland
 From Southern German Modernity to International Contemporary Art, The Daimler Art Collection, Stuttgart, Germany
 The Future of Drawing: Algorithm, Etzold Collection, Museum Abteiberg, Mönchengladbach, Germany
 Message from Our Planet, Thoma Foundation, Chicago, IL
 The Algorists, Thoma Foundation, Chicago, IL
 #Material4.0, Galerie Stadt Sindelfingen, Sindelfingen, Germany
 Apparative Kunst, Kabinette Lütze, Galerie Stadt Sindelfingen, Sindelfingen, Germany
 Heimvorteil: Deutsche Künstler aus der Sammlung Schaufler, Schauwerk
 Chance and Control: Art in the Age of Computers, Victoria and Albert Museum, London, England
 Programmierte Kunst. Frühe Computergraphik, Kunst Halle Bremen, Bremen, Germany
 OSAS – On The Road, Vasarely Museum, Bremen, Germany
 The Art of Transformation, Kulturhaus der BASF, Budapest, Hungary
 Pablo Picasso & la Donatoin Albers-Honegger: Picasso à tous les étages!, Espace D'Art Concret, Mouans-Sartoux, France
 Schwarz/Weiss, Kunstraum Stoffen, Stoffen, Germany
 Complexity, XXI Gallery, Warsaw, Poland; curated by Mark Starel
 Coding the World, Mutations/Créations #2, Centre Pompidou, Paris, France
 Geometry Transformations, Prague City Gallery, Prague, Czech Republic
 Zukunft, Kunsthalle Schlieren, Zürich, Switzerland
 Hello World. Revising a Collection, Hamburger Bahnhof - Museum für Gegenwart, Berlin, Germany
 AUTOMATA: Sing the Body Electric, BIAN - International Digital Art Biennial, 4th Edition, Arsenal Art Contemporain, Montreal, Canada
 Artistes & Robots, Grand Palais, Paris, France
 DIA-LOGOS, Ramon Llull and the ars combinatoria, ZKM | Center for Art and Media, Karlsruhe, Germany
 Chance and Control: Art in the Age of Computers, Victoria and Albert Museum (V & A), London, England
 THE FUTURE OF THE DRAWING: ALGORITHM, The New in the Etzold Collection - Episode 2, Museum Abteiberg, Mönchengladbach, Germany
 Twilight, Borusan Contemporary Art Collection, Istanbul, Turkey
 yes no maybe, Flowers Gallery, New York, NY
 Live and Let Live, Upstream Gallery, Amsterdam, Netherlands
 PREDSTAVUJE SA OSAS / INTRODUCTION TO OSAS, Galéria Z, Bratislava, Slovakia
 OSAS - Fuga, Vasarely Museum, Budapest, Hungary
 Dual Current: Inseparable Elements in Painting and Architecture, Sarah Moody Gallery, The University of Alabama, Tuscaloosa, AL
 Art Paris 2018, art fair B16, Galerie Charlot Paris, Paris, France
 OEI #79: edit/publish/distribute!, Moderna Museet, Stockholm, Sweden
 CONCRETE / DISCOURSE / ALGORITHM, Academic Gallery, Cieszyn, Poland, April 5 - 25, 2018; Galeria El Art Center, Elblag, Poland, June 28 – August 31 2018
 Computer-Grafik 1984: Herbert W. Franke's Survey of Digital Art, DAM Gallery, Berlin, Germany
 Dual Current: Inseparable Elements in Painting and Architecture, The Clara M. Eagle Galleries, Murray State University, Murray, KY

- 2017 *Electronic Superhighway (1966-2016)*, MAAT, Museum of Art, Architecture and Technology, Lisbon, Portugal
Drawn from a Score, Beall Center for Art + Technology, University of California, Irvine, CA
Algorithmic Signs, Galleria di Piazza San Marco, Insituzione Fondazione Bevilacqua La Masa, Venice, Italy
Virtual Views: Digital Art form the Thoma Foundation, Orlando Museum of Art, Lockheed Martin Gallery I & II, Orlando, FL
 OSAS – Found Geometry, Vasarely Museum Budapest, Budapest, Hungary
The Policeman's Beard is Half Constructed: Art in the Age of Artificial Intelligence, Bonner Kunstverein, Bonn, Germany
Beyond the lines: Manfred Mohr & Eric Vernhes, Galerie Charlot Paris, Paris France
Dual Current: Inseparable Elements in Painting and Architecture, Ewing Gallery of Art and Architecture and Downtown Gallery – College of Arts & Sciences, Univ. of Tennessee Knoxville, Knoxville TN
 OSAS come back, Vasarely Museum, Budapest, Hungary
Konkrete Anliegen, Sammlung Teufel, KunstMuseum Stuttgart, Stuttgart Germany
The Algorists, Orange Door Chicago, Thoma Art Foundation, Chicago IL
Discursive Geometry 7, Instytut Sztuk Pięknych, Kielce, Poland
The Ticklich Structure (Nepolapitelná struktura), Carlsbad Art Gallery (Galerie umění Karlovy Vary), Czech Republic
Auto Vision: Media Art from Nam June Paik to Pipilotti Rist, Kunsthalle Bremen, Bremen, Germany
Pioneers in Computer Art 1960s/70s, RCM Galerie, Paris, France
BIG - Sammlung Rainer Bartels, Galerie Brötzingler Art, Pforzheim, Germany
Opening Galerie Charlot Tel Aviv: The Artside of Algorithms, Tel Aviv-Yafo, Israel
Looking at one thing and thinking of something else: Part Four: Disrupt / Disorder / Display, Carroll / Fletcher Gallery, London, England
Modus Operandi, Société d'électricité, Brussels, Belgium
Werke aus dem Bestand der Galerie, galerie linde hollinger, Ladenburg, Germany
Este Arte art fair, Carroll / Fletcher Gallery London, Punta Del Este, Uruguay
- 2016 *bitforms gallery: Fifteen-Year Anniversary Exhibition*, Minnesota Street Project, San Francisco, CA
Shadow & Space, Thoma Art Foundation, Orange Door, Chicago IL
[UN]expected: The Art of Chance, KunstMuseum Stuttgart, Stuttgart, Germany
Chromatic Space, American Abstract Artists, Shirley Fiterman Art Center, New York, NY
The Thinking Machine, Ramon Llull and the Ars combinatoria, Centre de Cultura Contemporania de Barcelona, Barcelona, Spain
Deck Voyage, Borusan Contemporary, Istanbul, Turkey, curated by Necmi Sönmez
Stankowski & Co., Stiftung für konkrete Kunst, Reutlingen, Germany
Code + Poetry, DAM Gallery, Berlin, Germany
Current Evenst, Digital Art, Sony Center Screen, Berlin, Germany, in collaboration with DAM Gallery
Drawing after Digital, XPO Studio Projects, Paris, France, curated by Klaus Speidel
I Got Rhythm, Kunst und Jazz, seit 1920, Kunstmuseum Stuttgart, Germany
Electronic Super Highway, Whitechapel Gallery, London, England Mankind / Machinekind, CCC #4 (Collectors Curators Collaborations), works from the collections of Alain Servais, Hampus Lindwall, and Robert Bieleki, Krinzinger Projekte, Vienna, Austria, curated by Domenico Quaranta
The Onward of Art, 1285 Avenue of the Americas Gallery, New York, NY, curated by Karen Wilkin
- 2015 *Art + Computer / Time*, Brattleboro Museum and Art Center, Brattleboro, VT
Software, Hard Problem, Cubitt Gallery, London, England
Mankind/Machinekind CCC #4, Krinzinger Projekte, Vienna, Austria
DRKRM, DAM Gallery, Berlin, Germany
Ausstellung in progress: Neue Medien und Konkrete Kunst, Forum Konkrete Kunst Erfurt, Peterskirche, Erfurt, Germany
Luminous Flux 2.0, Thoma Foundation Art House, Santa Fe, NM
Rendezvous der Länder, Neuhängung der Sammlung Peter C. Ruppert - Konkrete Kunst in Europa nach 1945, Museum im Kulturspeicher, Würzburg, Germany
Ein Quadrat ist ein Quadrat ist ein Quadrat, Museum Ritter, Waldenbuch, Germany
How to Construct a Time Machine, MK Gallery, Milton Keynes, England
Rethinking Art and the Machine, Art Gallery of Nova Scotia, Halifax, Nova Scotia, Canada
Perspectives on Archeology: From Modernity to Present Day, D&F Contemporary, New York, NY
American Abstract Artists 75th Anniversary Print Portfolio, Vanderbilt Univ. Fine Arts Gallery, Nashville, TN
Short Cuts, CentrePasquart, Kunsthau Centre d'Art, Biel, Switzerland
Aesthetica: 50 Years of Computer Generated Art, DAM Gallery, Berlin, Germany
10 Print "Hello World", Videofag, Toronto, Canada
- 2014 *Konkret*, Milan Dobes Museum, Bratislava, Slovakia
Die Kunst des Weglassens, Sächsische Galerie, Museum für zeitgenössische Kunst, Chemnitz, Germany
Luminous Flux, Digital and Geometric Art from the Thoma Foundation, Art House, Santa Fe, NM
Weiss Inspiriert, Galerie Linde Hollinger, Ladenburg, Germany

- Pencil / Line / Eraser*, Carroll / Fletcher Gallery, London, England
Common Ground: Earth, Borusan Contemporary, Istanbul, Turkey
Sensory Impact, Morgan Stanley & Co., Purchase, NY
American Abstract Artists 75th Anniversary Print Portfolio, Martin Art Gallery, Muhlenberg College, Allentown, PA; Ridderhof Martin Gallery, University of Mary Washington, Fredericksburg, VA
Manfred Mohr: Cubic Limit (1973-1974), Art Basel, Film, with bitforms gallery, Basel Switzerland
//the_ART_of_DATA, Boulder Museum of Contemporary Art, Boulder, CO
Licht und Energie, Galerie Linde Hollinger, Ladenburg, Germany
To Leo: A Tribute from American Abstract Artists, Sideshow Gallery, Brooklyn, NY
Grazyna Kulczyk Collection: Everybody is Nobody for Somebody, Fundacion Banco Santander, Madrid, Spain
- 2013 *Light. Art. Kinetics.*, Museum Ritter, Waldenbuch, Germany
On Abstraction III: At the Same Time, Elsewhere... Musée d'arte Contemporain de Montréal, Montréal, Canada
Digital Art (R)evolution, Spalter Art Collection, Dedee Shattuck Gallery, Westport, MA
No Message whatsoever: Frieder Nike and Friends, Galerie [DAM], Berlin, Germany
Zdenek Sykora: In Select Society, Galerie Mesta, Loun, Louny, Czech Republic
Eyeworks Festival of Experimental Cinema featuring "Cubic Limit" (1973-1974). Pioneer Works Center for Art and Innovation, New York, NY; Virginia Commonwealth University, Richmond, Virginia; Nightingale Cinema, Chicago, IL
Zeitzunder, Galerie [DAM], Berlin, Germany
Playing with Geometry, Dimensions of Imagination, Labyrinth, Slubice, Poland
American Algorists: Linear Sublime. Traveling exhibition with catalog. School of Visual Arts, New York NY; Lebanon Valley College, Annville, PA;
 Art Basel, Atelier-Editions Fanal, Basel, Switzerland
Sammlung Grauwinkel 1982-2012, 30 Jahre Konkrete Kuns, Vasarely Museum, Budapest, Hungary
B.A.B.E, Immanance, Espace d'art Contemporaine, Paris, France
Mathematical Rythmes, Boston Cyberarts Gallery, Boston, MA
Dynamic Invention: American Abstract Artists at 75, Brattleboro Museum and Art Center, Brattleboro, VT
American Abstract Artists: A Selection, School of Art Gallery, Kent State University, OH
American Abstract Artists: 75th Anniversary Print Portfolio Exhibit, Ewing Gallery, University of Tennessee, Knoxville, TN; Sarah Moody Gallery, University of Alabama, Tuscaloosa, AL
Back to Back, Galerie [DAM], Frankfurt, Germany
6th Annual Imagine Science film festival, New York, NY
- 2012 *Jubilaumsfeier: 10 Jahre Galerie Bernd A. Lausberg*, Galerie Lausberg, Düsseldorf, Germany
position konkret, K16 am Rhein, Duisburg, Germany
Chance as Strategy, Vasarely Museum, Budapest, Hungary
Künstler der Galerie und Neuentdeckungen, Galerie Linde Hollinger, Ladenburg, Germany
Rasterfahndung. Das Raster in der Kunst nach 1945, Kunstmuseum Stuttgart, Germany
Visionary Collection Vol. 18: The artist's house, Haus Konstruktiv, Zürich, Switzerland
L'art concret né en Europe, Collection Ablers-Honegger. Espace de l'Art Concret, Moans-Sartoux, France
Drawing is coming back in a big way, Galeria Arsenal, Bialystock, Poland
Minus Space, Instituto de Artes Graficas de Oaxaca (IAGO), Oaxaca, Mexico
American Abstract Artists International, 75th Anniversary, ParisCONCRET, Paris, France
géométrique/agéométrique, Musée d'Art Moderne et Contemporain, Strasbourg, France
gruppe.konkret, Galerie Wack, Kaiserslautern, Germany
Meine Wunderkammer, Galerie [DAM], Berlin, Germany
Hot Cold Cool, Art Museum at the University of Memphis, Memphis, TN
- 2011 *Aufbruch, Malerei, und Raum / Awakening Painting and Real Space*. Traveling exhibition with catalog. Situation Kunst, Bochum, Germany; Kunsthalle Rostock, Germany; Museum Kulturspeicher Würzburg, Germany; and Museum Pfalzgalerie Kaiserslautern, Germany (2011-2013)
Drawing With Code: Works from the Anne and Michael Spalter Collection, DeCordova Museum, Lincoln, MA
Works from the Borusan Contemporary Art Collection, Istanbul, Turkey
Spot-On, Segment #1A, Borusan Contemporary Art Collection, Perili Kösk Museum, Istanbul, Turkey
RAM – Rethinking Art and Machines, THEMUSEUM, Waterloo, Ontario, Canada
Winter Group Show, Galerie La Ligne, Zürich, Switzerland
Algorists, Kavli Institute for Theoretical Physics, Santa Barbara, CA
American Abstract Artists International 75th Anniversary, OK Harris, New York, NY, and Galerie Ogbo and Deutsche Künstlerbund, Berlin
Construction In Process 1981, Muzeum Sztuki Lodz, Lodz, Poland
Quadratisch-Praktisch-Kunst, Museum im Prediger, Schwäbisch Gmünd, Germany
Transparency – Looking Through, Vasarely Museum, Budapest, Hungary
 Galerie Linde Hollinger, Ladenburg, Germany
Konkret – Sammlung Heinz und Annette Teufel – Stuttgart, Panstwowa Galeria Sztuki, Sopot, Poland
Geometries of the Sublime, ISEA2011 Istanbul, Museum of Contemporary Art Zagreb, Croatia
notConcrete, Black Box Gallery, Copenhagen, Denmark

- 2010 *Think Line 2*, [DAM], Berlin, Germany
Bense and the Arts, ZKM, Karlsruhe, Germany
Escape From New York, Massey University, Wellington, New Zealand
Beyond Painting, Galerie Lausberg, Toronto, Canada
E-volve, [DAM]Gallery, Cologne, Germany
Positionen, Forum Konkrete Kunst Erfurt, Germany
Think Line, [DAM]Gallery, Cologne, Germany
Global Art In A Global World, Heungkuk Life Building, Seoul, South Korea
100 Jahre Konkrete Kunst, Kunsthalle Rehau-Art, Rehau, Germany
- 2009 *Digital Pioneers*, Victoria and Albert Museum, Julie and Robert Breckman Prints and Drawings Gallery and Gallery 88a, London, England
Arbeiten auf Papier – Konkret, Galerie St. Johann, Saarbrücken, Germany
Das Quadrat in der Sammlung, Stiftung für konkrete Kunst, Reutlingen, Germany
Entwicklungen, Galerie Hoffmann, Ossenheim-Friedberg, Germany
GAMESnogames, Gesellschaft für Kunst und Gestaltung, Bonn, Germany
Art and Electronic Media, bitforms gallery, New York, NY
Reconnaitre, Museum Paksi Keptar, Paks, Hungary
Die Farbe Blunt, Galerie Lausberg, Düsseldorf, Germany
L'Oblique: un regard sur la géométrie contemporaine, Musée Chateau de Montéliard, France
Konkret, Die Sammlung Heinz und Anette Teufel, Kunstmuseum, Stuttgart, Germany
STRP Art & Technology Festival, Eindhoven, The Netherlands
Escape From New York, RMIT University, Melbourne, Australia
Klein Format, Galerie La Ligne, Zürich, Switzerland
ARTWARE5 biennial, Galerie Miro Quesada Garland Miraflores, Lima
Line + Concept, MediaRumte, Brussels, Belgium
ARTWARE5, Peruvian North American Cultural Institute, Lima, Peru
Gruppenausstellung, Galerie Wack, Kaiserslautern, Germany
Alles, Wilhelm-Hack-Museum, Ludwigshafen, Germany
Regard 06: Quand la géométrie devient Art, Espace de l'Art Concret, Mouans-Sartyoux, France
- 2008 *Edition Fanal*, Paksi Keptar Museum, Paks, Hungary
Gegenstandslos, Gesellschaft für Kunst und Gestaltung, Bonn, Germany
bit international. [Nove] tendencije | Computer und visuelle Forschung | Zagreb, 1961 – 1973, ZKM, Karlsruhe, Germany
Minus Space, P.S.1 Contemporary Art Center/MoMA, Long Island City, NY
Höhe-Breite-Tiefe, Galerie Mueller-Roth, Stuttgart, Germany
Richtig Farbe, Galerie Linde Hollinger, Ladenburg, Germany
American Abstract Artists: A Tribute to Esphyr Slobodkina, Painting Center, New York, NY
Wegbereiter der Avantgarde, Galerie Schlichtenmaier, Stuttgart, Germany
Kunst Werk, Sammlung Alison und Peter Klein, Hängung #2, Eberdingen-Nussdorf, Germany
Bildertausch 3 – Neupräsentation der Sammlung Marli Hoppe-Ritter, Museum Ritter, Waldenbuch, Germany
To Infinity and Beyond: Mathematics in Contemporary Art, Heckscher Museum, Huntington, NY
Space, Color, and Motion, Block Museum, Northwestern University, Evanston, IL
Imaging by Numbers, Block Museum, Northwestern University, Evanston, IL
Ausgerechnet... Mathematik und Konkrete Kunst, Museum in Kulturspeicher, Würzburg, Germany
Sammlung Gutmann, Haus Konstruktiv, Stiftung für konstruktive and konkrete Kunst, Zürich, Switzerland
Art Basel with Galerie Lahumière, Paris, France
Art Chicago with Galerie Lahumière, Chicago, IL
- 2007 *Die Neuen Tendenzen*, Leopold-Hoesch-Museum, Düren, Germany
ARCO'07, Madrid Art Fair, bitforms gallery
Ex Machina, Frühe Computergrafik bis 1979, Kunsthalle Bremen
The Algorists, DAM, Berlin, Germany
Bit International, Neue Galerie Graz, Austria
Feedback, Laboral Centro de Arte, Gijon, Spain
Atelier, Editions Fanal, Chuv, Vaudois, Switzerland
Continuum, American Abstract Artists, St. Peter's College, Jersey City, NJ
Die Sammlung – Neue Ansichten 2, Staedtische Galerie Pforzheim, Germany
- 2006 *Cybernetic Sensibility*, Daelim Museum, Seoul, South Korea
20th Century Computer Art, Beginnings + Developments, Tama Art University Museum, Tokyo, Japan
Pulse, Miami Art Fair, bitforms gallery, New York, NY
ARCO'06, Madrid Art Fair, bitforms gallery, New York, NY
Anfänge Der Computergraphik: Aus Der Sammlung Etzold Museum Abteiberg, Städtisches
D.velop Digital Art Award: Five Nominees, DAM, Berlin, Germany
Strictly Geometrical, Wilhelm-Hack-Museum, Ludwigshafen, Germany
Scratch Code, Sonic Acts Festival, Amsterdam
- 2005 *Prelude*, Galerie Lahumière, Paris, France

- Konkret Kunst in Europa*, collection Ruppert, Museum Kulturspeicher, Würzburg, Germany
Form-Esprit, Gallery Schlichtenmaier, Stuttgart, Germany
Collection Marli Hoppe Ritter, Inaugural exhibition, Museum Ritter, Waldenbuch, Germany
Inaugural exhibition, bitforms gallery, Seoul, South Korea
Art Cologne, Art Fair in Cologne, Germany, with bitforms gallery, New York, NY
Papier + Metall, Galerie Wack, Kaiserlautern, Germany
Angekommen, im eigenen Haus, Kunstmuseum Stuttgart, Germany
Sechzehn Sechzehn Plus, Galerie Mueller-Roth, Stuttgart, Germany
The Algorithmic Revolution, ZKM, Karlsruhe, Germany
ARCO '05, Art Fair in Madrid with bitforms gallery, New York, NY
Experiment Konkret, Museum für Konkrete Kunst, Ingolstadt, Germany
Optical Simulation, American Abstract Artists, Yellowbird Gallery, Newburg, NY
The Algorithmic Revolution, Museum ZKM, Karlsruhe, Germany
- 2004 *Scratch Code*, bitforms gallery, New York, NY
Szöllösi-Nagy-Nemes Collection, MűvészetMalom, Szentendre, Hungary
Art Cologne, Art Fair in Cologne, Germany, with bitforms gallery, New York
Digital Art, Kendall College of Art+Design, Grand Rapids, MI
Sammlung Daimler Chrysler, Galerie der Stadt Sindelfingen, Germany
Digital Move, Software screening at the Sony Center, Berlin, Germany
Pour An Art Concret, Château de Mouans-Sartoux, France
Art Basel, Galerie Lahumière, Paris, France
Aussenwelt-Innenwelt, Volksbank Haus, Pforzheim, Germany
Integrating the Digital Consciousness, Deborah Colton Gallery, Houston, TX
Hubertus Schoeller Stiftung "...stets konkret", Leopold Hoesch-Museum, Düren, Germany
25 Jahre Wilhelm-Hack-Museum -- 25 Jahre Sammeln, Ludwigshafen, Germany
German Accents, Long Island University, Brooklyn, NY
Digital Selection, Schick Art Gallery, Skidmore College, Saratoga Springs, NY
Women Choose Men, A.I.R. Gallery, New York, NY
Byte, Nassau County Museum Of Art, Roslyn, New York, NY
- 2003 *Multiple Grafik und Objekte*, Galerie St.Johann, Saarbrücken, Germany
Art Cologne, Galerie Mueller-Roth, Stuttgart, Galerie Lahumière, Paris, France
FIAC, Galerie Lahumière, Paris, France
Letzte Ausstellung der Galerie Schoeller - ein Rückblick als Stiftung, Galerie Storms, Düsseldorf, Germany
Wege zur Abstraktion II, Form & Struktur, Kunstverein Schloss Plön László Vass Collection, Gallery of Modern Art, Veszprém, Hungary
Art Basel, Galerie Lahumière, Paris, France
Sammlung Holze-Konkrete Kunst, Von Der Heydt Museum, Wuppertal, Germany
Konkrete kunst-einheit und vielfalt, Kunsthalle Villa Kobe, Halle (Saale), Germany
- 2002 *Group-Show*, Gutmann Galeria, Budapest, Hungary
La Rigueur Du Hasard, Galerie Lahumière, Paris, France
FIAC, Galerie Lahumière, Paris, France
Kunst Auf Zeit/Art For a Time, Kabinett Burghardt Leitner, Stuttgart, Germany
Abstract Dilemma, American Abstract Artists, Allentown, PA
Art Cologne, Galerie Lahumière, Paris, Galerie Wack, Kaiserslautern, Germany
Art Basel, Galerie Schoeller, Düsseldorf, Germany
15 variations sur un même thème, Château de Mouans-Sartoux, France
DAM, Lady Margarete Hall College, London, England
- 2001 *Pioneers of Digital Art*, DAM @ Unit 2, Guildhall University, London, England
Konstruktiv-Konkrete Kunst, Josef Albers Museums, Quadrat, Bottrop, Germany
Art Cologne, Galerie Lahumière, Paris and Galerie Wack, Kaiserslautern, Germany
AAA-DAL 1976 al 2001, Galerie Sincron, Brescia, Italy
Art Basel, Galerie Schoeller, Düsseldorf, Germany
Relationen, Galerie Wack, Kaiserslautern, Germany
- 2000 *Ligne(s) de Conduite*, Château de Mouans-Sartoux, France
Art Cologne, Galerie Lahumière, Galerie Wack, Mueller-Roth Gallery, Stuttgart, Germany
8th Annual Digital Salon, School of Visual Arts, New York, NY
American Abstract Artists, Hillwood Art Museum, Brookville, NY
Arte Contemporanea di Pforzheim, Palazzo Trissino, Vicenza, Italy
Von Albers Bis Paik, Stiftung für Konkrete Kunst, Zürich, Switzerland
Computer-Codes, Kunstverein Bad Dürkheim, Germany
30 Jahre Sammlung Etzolde, Städt. Museum Abteiberg, Mönchengladbach, Germany
- 1999 *Hommage à Vordemberge-Gildewart*, Kunsthalle Dominikanerkirche, Osnabrück, Germany
30x30x30, 30 Jahre Galerie St. Johann, Saarbrücken, Germany
La Nature Imite L'art, Château de Mouans-Sartoux, France
Pure Abstract Art, Mondriaanhuis, Amersfoort, The Netherlands

- Pixelart.01*, Page Galerie, Zürich, Switzerland
Geometrie Als Gestalt, Neue Nationalgalerie, Berlin, Germany
- 1998 *Le Droit De Rêver*, Château de Mouans-Sartoux, France
 Art Basel, Galerie Lahumiere, Paris, France
 Gallery SPACE 504, New York, NY
A Correlative History of Art and Computers, Kentler International Drawing Space, Redhook, Brooklyn, NY
Kunst + Computer, März Galerien, Ladenburg, Germany
Immerzeit II, Forum Konkreter Kunst, Erfurt, Germany
Art Construit Estampes, Atelier Fanal, Fondation Louis Moret, Martigny, Switzerland
Fanal, 30 ans d'atelier 20 ans d'edition, Basel, Switzerland
Abstraction And Algorithms, The Williams Gallery, Princeton, NJ
- 1997 *Movement - Bewegung*, European Art Concrete, Berlin, Germany
5th Annual New York Digital Salon, School of Visual Arts, New York, NY
Zeichnen Konkrete, Galerie Grewenig, Heidelberg, Germany
Geometric Abstraction 1937-1997, Snyder Fine Art, New York, NY
Magie Der Zahl, Staatsgalerie Stuttgart, Germany
Zeichnungen, Galerie Wack, Kaiserslautern, Germany
COMPAREZ POUR VOIR, L'Espace de l'Art Concret, Mouans-Sartoux, France
- 1996 *Confronto Internazionale 1996*, Centro Culturale Sincron, Brescia, Italy
Zeichnen Konkret, Galerie St. Johann, Saarbrücken, Germany
Immerzeit, 10 Jahre, ACP Galerie, Zürich, Switzerland
Works On Paper, Space 504, New York, NY
Exposition Collective "Parcours", Galerie Mathieu, Lyon, France
Creativity & Cognition II, Loughborough, England
- 1995 *In Teilen*, Stiftung für Konkrete Kunst, Reutlingen, Germany
Konkrete Malerei Im Deutschen Sudwesten, Kreissparkasse Esslingen, Germany
Reliefs et Decoupe, Galerie Lahumière, Paris, France
Forum Konkrete Kunst, Erfurt, Germany
Reconstructivism, New Geometric Paintings, Curator Peter Frank, Space 504, New York, NY
Black & White I, Galerie Reckermann, Cologne, Germany
Literapparatur, Galerie im Prediger, Schwäbisch Gmünd, Germany
Laszlo Moholy-Nagy: Idee Und Wirkung, Kunsthalle Bielefeld, Germany
3rd Annual New York Digital Salon, School of Visual Arts, New York, NY
L'art Concret Aujourd'hui, Château de Mouans-Sartoux, France
- 1994 *Aspects Actuels De La Mouvance Construite*, Musée Royal des Beaux-Arts, Antwerp, Belgium
Vue Du Collectionneur, Espace de l'Art Concret, Château de Mouans-Sartoux, France
30x30, Wilhelm-Hack-Museum, Ludwigshafen, Germany
25 Jahre Galeriearbeit, Galerie Schoeller, Düsseldorf, Germany
Konkrete Kunst Internationaal, IDAC, Den Haag, Germany
Konstruktiv-Konkret, Kunstverein Wolfsburg, Wolfsburg, Germany
- 1993 *Interface II*, Die präziesen Vergnügen, Galerie Meissner, Hamburg, Germany
Aspects Actuels De La Mouvance Construite, Musée Beaux-Arts, Verviers, Belgium
Output, 20 Jahre Galerie Mueller-Roth, Stuttgart, Germany
'68 Kunst und Kultur, Museum Gladbeck, Gladbeck, Germany
33 Pforzheimer Künstler, Rathaus Pforzheim, Germany
Konstruierte Unregelmässigkeit, Galerie Schoeller, Düsseldorf, Germany
Art Cologne, Galerie Teufel, Galerie Mueller-Roth, Galerie Schoeller, Düsseldorf, Germany
Forum Konkrete Kunst Erfurt, Museum der Künstler, Erfurt, Germany
Streifzug Durchs Depot, Wilhelm-Hack-Museum, Ludwigshafen, Germany
- 1992 *Calculated Images*, Robert Hull Fleming Museum, Burlington, VT
Regard Multiple, Musée National de l'Art Moderne, Paris, France
Zufall Als Prinzip, Wilhelm-Hack-Museum, Ludwigshafen, Germany
New Realities, Museum für Gestaltung, Zürich, Switzerland
Konkrete Kunst Internationaal, IDAC, Den Haag, Holland
- 1991 *3rd Emerging Expression Biennale*, The Bronx Museum of the Arts, New York, NY
Confronta 91, Centro Culturale Sincron, Brescia, Italy
- 1990 *Preisträger Der Camille-Graeser-Stiftung Zürich*, *Böhm, Brand, Mohr*, Galerie Teufel Cologne, Germany
Europa 90, Centro Culturale Sincron, Brescia, Italy
Universal Progression, Manezh, Moscow, Russia
Mathematics and Modern Art, Univeristy of Leicester, England
Universal Progression, Maneh, Moscow, Russia
- 1989 *Aus Dem Würfel Museum*, Karl-Ernst-Osthaus Museum, Hagen, Germany
Gedanken, Galerie Mueller-Roth, Stuttgart, Germany
Simposium De Arte Sistemica Y Constructiva, La Reina Sofia, Madrid, Spain
Computer Art in Context, Siggraph, Boston, MA

- Konkrete Und Kinetische Kunst*, Sammlung Etzold, Moers, Germany
Constructivism Versus Computer, WTC, Rotterdam, The Netherlands
Printmaking - At The Speed Of Thought, Printclub, Philadelphia, PA
Electronic Print, Arnolfini, Bristol, England
- 1988 *Seven Artists Using The Computer*, University of Connecticut, Storrs, CT
Crash, Wright Museum of Art, Univ. of Wisconsin, Madison, WI
Null-Dimension, Galerie New Space, Fulda, Germany
Computers And Art, IBM Gallery, New York, NY
Kunst In Der Provinz, Städt.Museum Schwäbisch Gmünd, Germany
- 1987 *4th Biennale D'arte Contemporanea*, Comune di Marostica, Marostica VI, Italy
Artists In The Computer Age, MIT Museum, Cambridge, MA
Artware, Hanover Messe, Hanover, Germany
Mathematik In Der Kunst Der Letzten 30 Jahre, Wilhem-Hack-Museum, Ludwigshafen, Germany
Kalkulierte Kunst, Galerie Teufel, Cologne, Germany
2nd Emerging Expression Biennale, The Bronx Museum of the Arts, New York, NY
Digital Vision, Everson Museum of Art, Syracuse, NY
- 1986 *The Computer As An Art Tool*, Hurlbutt Gallery, Greenwich, CT
Galerij '86, Hessenhuis Antwerp, Antwerp, Belgium
Konkret VI, Kunsthaus Nürnberg, Germany
Siggraph Art Show, Dallas, TX
Images Du Futur, Vieux Port, Montréal, Canada
Bilder Digital, Galerie der Künstler, Munich, Germany
Ein Zeitdokument, Sammlung Etzold, Abteiberg, Germany
Digitart, Szepmuveszeti Muzeum, Budapest, Hungary
Von Zwei Quadraten, Wilhelm-Hack-Museum, Ludwigshafen, Germany
- 1985 *Les Vingt Ans Du Musee A Travers Sa Collection*, Musée d'Art Contemporain de Montreal, Montréal, Canada
Emerging Expression - Computer Generated Imagery, The Bronx Museum of the Arts, Bronx, NY
La Peinture Pousse A Bout, Galerie Weiller, Paris, France
Vom Klang Der Bilder, Staatsgalerie Stuttgart, Germany
Siggraph 85 Art Show, Mosconi Center, San Francisco, CA
Computer Generated Images, William Patterson College, Wayne, NJ
- 1984 *A Point - 1984*, Galerie Mueller-Roth, Stuttgart, Germany
Mathematics And Twentieth Century Art, Baruch College, New York, NY
Die Sprache Der Geometrie, Kunstmuseum Bern, Bern, Switzerland
Constructivism And The Geometric Tradition, 3rd Wanderausstellung der McCrory Collection, Germany
Constructivism And The Geometric Tradition, National Museum of Modern Art, Tokyo, Japan
Constructivism And The Geometric Tradition, Hokkaido Museum of Modern Art, Sapporo, Japan
Neue Konkrete Kunst In Deutschland, Galerie Schoeller, Düsseldorf, Germany
- 1983 *The Computer And Its Influence On Art And Design*, Sheldon Memorial Art Gallery, Lincoln, NB
Zeichnen Konkret, Pfalzgalerie, Kaiserslautern, Germany
Constructivism And The Geometric Tradition, San Antonio Museum of Art, San Antonio, TX
Electra, Musée d'Art Moderne, Paris, France
- 1982 *Die Handzeichnung Der Gegenwart II*, Staatsgalerie Stuttgart, Germany
Deutsche Zeichnung Der Gegenwart, Museum Ludwig, Cologne, Germany
- 1981 *Constructivism And The Geometric Tradition*, 2nd Wanderausstellung der McCrory Collection, Germany
Ars + Machina I, Institut Franco-Americain, Rennes, France
Artiste et Ordinateur, Centre Culturel de Seclin, France
Konstrukcja W Procesie, Lodz, Poland
- 1980 *Constructivism And The Geometric Tradition*, Wanderausstellung der McCrory Collection, Germany; MoMA
Museum of Modern Art, New York, NY
Fine Arts Dallas, TX; Museum of Modern Art, San Francisco, CA; Museum of Contemporary Art, San Diego
Printed Art, A View Of Two Decades, Museum of Modern Art, New York, NY
Konstruktion, Struktur, Konstellation, Galerie Teufel, Cologne, Germany
- 1979 *Cybernetic Symbiosis*, University of Berkeley, CA
Künstlerbücher, Galerie Lydia Megert, Bern, Germany
Artiste Et Ordinateur, Centre Suedois, Paris, France
Constructivism And The Geometric Tradition, Wanderausstellung der McCrory Collection, Germany
Albright-Knox Art Gallery, Buffalo, NY
- 1978 *Recherche et Creation*, Centre Pompidou, Paris, France
Numerals, Leo Castelli Gallery, New York, NY
Systemes et Series, Club 44, La Chaux-de-Fonds, Switzerland
Lettres, Signes, Ecritures, Malmö Konsthall, Sweden
System Und Zufall, Landes pavillion, Stuttgart, Germany
Artwords - Bookworks, LAICA, Los Angeles, CA
Art Of The Space Era, Huntsville Museum of Art, Huntsville, AL

- 1977 *Art Generatif*, Galerie Gilles Gheerbrant, Montréal, Canada
12th Biennale, Ljubljana, Slovenia
Rationale Konzepte 77, Galerie Pa Szepan, Gelsenkirchen, Germany
World Print Competition 77, Museum of Modern Art, San Francisco, CA
Decada 70, São Paulo, Brazil
25 Jahre Baden-Württemberg, Landes pavillon, Stuttgart, Germany
MEDIARAMA, Sony Exhibition Hall, Ginza, Tokyo, Japan
Serielle Konzepte, Galerie Mueller-Roth, Stuttgart, Germany
03 23 03, Montreal(BR) Grafik Biennale, Vienna, Austria
The Museum of Drawers, Wanderausstellung, Germany
- 1976 *Anamorphoses*, Musée des Arts Decoratifs, Paris, France
Systemes et Series, Musée des Beaux-Arts, Besançon, France
Canadian Computer Show, Montréal, Canada
Generative Computergraphik, Gesellschaft für Informatik, Universität Stuttgart, Stuttgart, Germany
Art et Ordinateur, Galerie D'Art, Centre Culturel, Université de Sherbrooke, Canada
- 1975 *Grafik Biennale*, Vienna, Austria
ICCH/2, Museum of Modern Art, Los Angeles, CA
11th Biennale, Ljubljana, Slovenia
The Western Australian Art Gallery, Perth, Australia
International Drawing Biennale, Cleveland, OH
- 1974 *Cybernetic Artrip*, Tokyo, Japan
Young German Artists, New School Art Gallery, New York, NY
Le Musée Cybernetique, Musée d'Art Contemporain, Montréal, Canada
Instituto Alemão, Lisbon, Portugal
Miedzynarodowe Biennale Grafiki, Krakow, Poland
- 1973 *10th Biennale*, Ljubljana, Slovenia
Programm - Zufall - System, Städt.Museum Mönchengladbach, Germany
World Print Competition 73, Museum of Modern Art, San Francisco, CA
Sigma, Musée des Beaux-Arts, Bordeaux, France
CIRCUIT, Bloomfield Art Association, Birmingham, MI
Ordinateur et Creation Artistique, Espace Cardin, SESA, Paris, France
FolioSeventyThree, WORLD PRINT COMPETITION 73, San Francisco Museum of Art, San Francisco, USA
Grenzgebiete Der Kunst, Städt. Museum Schwäbisch Gmünd
Tendencije-5, Zagreb, Germany
- 1972 *Computerkunst und Musikalische Texturen*, Staatsgalerie Stuttgart, Germany
Impulsos, Instituto Alemán, Madrid, Spain
Buchleiter/Mohr/Mürle/Treiber, Reuchlinhaus Pforzheim, Germany
L'art Et Les Technologies Industrielles, Vitry-sur-Seine, France
- 1971 *Arte Y Cibernetica*, Universidad de Buenos Aires, Argentina
Arteonica, Universidade de São Paulo, Brazil
Kunstzone, Munich, Germany
2nd Biennale, Nürnberg, Germany
- 1970 *Generacion Automatica De Formas Plasticas*, Universidad de Madrid, Madrid, Spain
Computer Graphics 70, Uxbridge University, Uxbridge, England
Computer and Automation, Newtonville, Massachusetts, USA
Premi Diboux Juan Miro, Foundation Juan Miro, Barcelona, Spain
Computer Graphics, Bührmann-Papier, Amsterdam, Holland
- 1969 *Salon De Mai*, Musée d'Art Moderne de Paris, Paris, France
Intermedia 69, Edition Tangente, Heidelberg, Germany
Salon Realites Nouvelles, Musée d'Art Moderne de Paris, Paris, France
- 1968 *Poesie Visuelle*, Galerie Sincron, Brescia, Italy
Sechs Pforzheimer Künstler, Reuchlinhaus Pforzheim, Germany
Salon Les Grand et les Jeunes, Musée d'Art Moderne de la Ville de Paris, France
- 1967 *Concordancia De Arte*, Galeria Juana Mordo, Madrid, Spain
1966 *Divergenzen 66*, Galerie Lauter, Mannheim, Germany
1965 *Blanc Et Noir*, Galerie Paul Facchetti, Paris, France

SELECTED AWARDS

- 2013 ACM SIGGRAPH Distinguished Artist Award for Lifetime Achievement in Digital Art
2006 d.velop Digital Art Award
1997 Artists' Fellowship, New York Foundation for the Arts
1990 Golden Nica (Computer Graphics), Prix Ars Electronica, Linz
Camille Graeser Prize, Zürich, Switzerland

SELECTED BIBLIOGRAPHY

- 2020 Mason, Catherine. "Digital and networked art in lockdown: how can we be creative in new ways?," *Studio International*, May 29
Arapoglu, Firat. "Manfred Mohr: A Digital History," *Borusan Contemporary*, February 17
Kent, Charlotte. "Art and Algorithms: The Work of Manfred Mohr," *Litro*, December 25
Downey, Walker. "Surveying Manfred Mohr's Five-Decade Collaboration with the Computer," *artnews*, October 10
Kent, Charlotte. "Manfred Mohr: A Formal Language," *Brooklyn Rail*, October
Schwamb, Laura. "[Collaboration of Interests: P61 VMAG Issue 28: Manfred Mohr](#)," *P61*, October 8
Taylor, Grant, D. *Curating The American Algorithmists: Digital Art and National Identity*. Art Curation: Challenges in the Digital Age, 8(3), 106; August.
Frey, Madeline. *#material4.0*, Galerie Stadt Sindelfingen; Sindelfingen, Germany.
Hailzl, Désirée. Sensory intoxication: art and movement: from point to line and over the roofs of Linz, *artmagazine*, July 16
Adamovic, Ivan. "Exhibiting computer art in the 1970s was like showing pornography, says Manfred Mohr, a pioneer in this direction.," *Denik N*, March 26
- 2018 Crowther, Paul. "Digital Art, Aesthetic Creation." Routledge Publishing. Florence, KY: Taylor & Francis Group LLC
Editors. "A History of Digital Art in 30 Works, Part 1," *Snark.Art*, August 21
Mason, Catherine. "Chance and Control: Art in the Age of Computers," *studio international*, July 7
"Artists & Robots – Artificial Imagination," *orange*, June 1
Hénon, Pierre. "A French history of digital animation," *les presses du réel*, May
Dorléac, Laurence Bertrand. "'The works presented testify to the limits of Artificial Intelligence'," *Le Journal des Arts fr*, May 14
"Discover Artists and Robots," *Grand Palais*, May 4
De Loisy, Jean. "When artists create robots," *france culture*, April 8
"At the Grand Palais, robots think they are artists," *le Monde Arts*, April 6
Pernet, Diane. "Artists & Robots at the Grand Palais April 5 – July 9," *A Shaded View on Fashion*, April 4
- 2017 "Until 3.12.2017 Algorithmic Signs, Bevilacqua La Masa, Venice," *exibart*, November 24
Veneruso, Valerio. "The genesis of generative art. Computer art on display in Venice," *Artribune*, November 18
"Algorithmic Signs Ernest Edmonds, Manfred Mohr, Vera Molnár, Frieder Nake, Roman Verostko," *Cit of Venice*, October
Dorsen, Annie. "Algorithm, composition, and metaphor," *et-cetera*, August 18
Van Eck, Cathy. "Fifty years of loudspeakers and ping pong balls," *Between Air and Electricity*, May 2
Martinique, Elena. "Digital Artists hose Art You Should Definitely Follow," *Widewalls*, April 16
Pfäfflin, Sandra. "Exhibition 'From Rythm to Algorithm' opens," *Pforzheimer Zeitung*, April 9
Pfäfflin, Sandra. "Exhibition opening with works by Manfred Mohr," *Pforzheimer Zeitung*, April 7
Baumgardner, Julie. "A Guide to America's Next Great Art Neighborhood," *The New York Style Magazine*, January 11
"Extended until March 4: bitforms fifteen-year anniversary exhibition at Minnesota Street Project," *Art Daily*, January 7
- 2016 "Galerie Charlot – Manfred Mohr," *NewsArtToday TV*, September 21
Rauth, Andreas. "My life revolves around this point.," *Jitter Magazine*, July 14
Stakemeier, Kerstin. "'Electronic Superhighway (2016-1966),' Whitechapel Gallery, London," *Artforum*, May 2016
Fullerton, Elizabeth. "Winding Back in Time: Electronic Superhighway at Whitechapel Gallery, London," *ARTnews*, June 10
Davidson, Laura. "Manfred Mohr | Artificiata II | Carroll / Fletcher, 56 – 57 Eastcastle Street, London W1W 8EQ," *Saturation Point*, March 30
Parsons, Elly. "Tech-tonic: 'Electronic Superhighway' charts the shifting landscape of computer-art," *Wallpaper**, April 9
Visnjic, Filip. "Manfred Mohr: Artificiata II at Carroll Fletcher/ 12 Feb – 2 Apr," *Creative Applications*, April 3
Longstreth, Helen. "Musical Dimensions," *Post Matter*, February 25
Siddons, Edward. "what's happening to internet art?," *i-D Vice Magazine*, February 23
Pangburn, DJ. "50 Years of Media Art Collide in 'Electronic Superhighway,'" *Creators Project*, February 22
Rhodes, Margaret. "Tracing the 50-Year Love Affair Between Art and Computers," *Wired*, February 16
Whelan, David. "I Went to an Art Show About the Internet to See if I'd 'Get' the Internet Art," *Vice*, February 2
Fowler, William. "Manfred Mohr – the groovy German who taught computers to make art," *The Guardian*, February 12

- McGregor, Rhiannon, and Elly Parsons, "Algorithmic art: Manfred Mohr talks remix, revolution and fixing radios," *Wallpaper * Magazine*, February 4
- Bishop Elizabeth, J. "Experience the Internet as Art at this New East London Exhibition," *Hunger TV*, January 29
- Wilmetts, Simon, "When the internet got nasty: art on the electronic superhighway," *The Conversation*, January 29
- Hegert, Natalie, "Electronic Superhighway 2016-1966: Digital Art in Historic Context," *MutualArt.com*, January 27
- Firth, Lewis, "NEW EXHIBITION 'ELECTRONIC SUPERHIGHWAY' TRACKS IMPACT OF TECH ON ART," *Garage Magazine*, January 27
- Poole, Steven, "Together in electric dreams: how the art world embraced modern technology first," *The Guardian*, January 8
- Gabert-Doyon, Josh, "In Pictures: How do you tell the story of the Internet? Electronic SuperHighway show," *Huck*, January 8
- 2015 Ainley, Nathaniel, "Computer-Generated Art Captures a Hypercube in 2D," *The Creators Project*, November 7
- "Whitechapel Gallery: Exhibition Electronic Superhighway Shows Impact Of Technology On Artists," *Artlyst*, November 12
- Gamwell, Lynn. *Mathematics and Art: A Cultural History*, Princeton University Press, 576 pp
- Shanken, Edward. *Systems*, Whitechapel: Documents of Contemporary Art, MIT Press
- Rauthe, Andreas "Reise zum Hyperwürfel: Margit Rosen, Ed, Der Algorithmus Des Manfred Mohr, Texte 1963-79", *Jitter Magazin für Kunst und Visuelle Kultur*, May 28
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 Manfred Mohr and the Technological Avant Garde presented by Laura Blereau and ICI, "Saturday Morning
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MONOGRAPHIC EXHIBITION CATALOGS AND BOOKS

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- 1980 *Werkübersicht 1965-80*, Galerie Teufel, Cologne, Germany, March 1-April 20, 21 x 21 cm, 34 pgs
- 1979 *Dimensions*, Galerie Mueller-Roth, Stuttgart, March 4-April 22, 21 x 26 cm, 32 pgs
- 1978 *Generative Bilder, und Zeichnungen 1977-78*. Galerie Teufel, Cologne, Germany, April 7-June 9, 21 x 15 cm, 16 pgs
- 1977 *Dessins Génératifs*, Galerie Weiller, Paris, October 18-November 19, 21 x 26 cm, 32 pgs
- 1975 *Cubic Limit*, Galerie Weiller, Paris, May 29-June 28, 21 x 26 cm, 24 pgs
- 1974 *Dessins / Drawings /, Zeichnungen / Dibujos*, Galerie Gilles Gheerbrant, Montréal, March 13-April 13, 24 x 21 cm, 24 pgs
- 1971 *Computer Graphics, Une esthétique programmée*, ARC - Musée d'Art Moderne, Paris, May 11-June 6, 22 x 20 cm, 48 pgs
- 1969 *Suite visuelle Artificiata I*, Edition Agentzia, Paris, 20 x 12 cm, 38 pgs
- 1968 *Signes géométrique*, Galerie Templon, Paris, November 5-November 30. 21 x 21 cm, 12 pgs

SELECTED COLLECTIONS

Aargauer Kunsthaus, Aarau
Art House, Thoma Foundation, Santa Fe, NM
Art in Embassies Collection, Department of State, Washington D.C.
Art Museum, University of Memphis, Memphis, TN
Bibliothèque de Valenciennes
Bibliothèque Nationale du Quebec, Canada
Biblioteca Nacional de Portugal, Lisbon

Bibliothèque Nationale, Paris, France
Borusan Art Collection, Istanbul
BP America - Amoco Collection, Chicago, IL
Cabinet des Estampes, Genève
Carleton University Art Gallery, Ottawa, Canada
Centro de Arte Moderna, CAM, Fundação Calouste Gulbenkian, Lisbon
Centre Pompidou - Musée National d'Art Moderne, Paris, France
Daimler Contemporary, Berlin, Germany
Espace de l'Art Concret, Donation Albers-Honegger, Mouans-Sartoux
Esther Grether Collection, Basel
Fairbanks Gallery Fine Arts Collection, Oregon State University, Corvallis, Oregon
Fine Arts Museums of San Francisco, California
Forum Konkrete Kunst, Erfurt
Grazyna Kulczyk Collection, Poznan
Haus Konstruktiv, Stiftung für Konkrete Kunst, Zürich
Hungary Museum of Fine Arts, Szepmuveszeti Muzeum, Budapest
Jean et Colette Cherqui Collection, Paris
Kunsthalle Bremen, Bremen
Kunstmuseum Bonn, Bonn
Kunstmuseum Stuttgart, Stuttgart
KUNST WERK, Sammlung Alison und Peter Klein, Eberdingen-Nussdorf
Kunstsammlung der Sparkasse Pforzheim-Calw, Pforzheim
Kupferstichkabinett, Staatliche Museen Preussischer Kulturbesitz, Berlin
Leopold Hoesch Museum, Düren
Mary and Leigh Block Museum of Art, Northwestern University, Evanston, Illinois
MAMCS, Musée d'Art Moderne et Contemporain, Strasbourg
McCrary Corporation Collection, New York
McGill University, Montréal
Metropolitan Museum of Art, New York, NY
Ministère des Affaires Culturelles, Paris
Modern Gallery, László Vass Collection, Veszprém
Mondriaanhuis, Amersfoort
Musée d'Art Contemporain de Montréal
Musée de Grenoble, Grenoble
Musée Jenisch, Collection de l'Etat de Vaud, Vevey
Musée de L'Elysée, Lausanne
Museum Abteiberg, Sammlung Etzold, Mönchengladbach
Museum im Kulturspeicher, Sammlung Ruppert, Würzburg
Museum für Angewandte Kunst, Cologne
Museum of Contemporary Art, Zagreb
Museum für Konkrete Kunst, Ingolstadt
Museum Ludwig, Cologne
Museum of Modern Art, Library Special Collections, New York, NY
Museum Pfalzgalerie, Kaiserslautern
Muzeum Sztuki, Collection "Solidarity", Lodz
Museum Ritter, Sammlung Marli Hoppe-Ritter, Waldenbuch
New York Public Library, Special Collections, New York, NY
Otis Collection, Otis College, Cleveland, Ohio
Phillips Collection, Washington D.C.
Progressive Art Collection, Cleveland, Ohio
Quadrat Bottrop - Josef Albers Museum, Bottrop
Ronald S. Lauder Foundation, Budapest
Sammlung der Kreissparkasse Stuttgart, Stuttgart
Sammlung zeitgenössischer Kunst der Bundesrepublik Deutschland, Bonn
Schauwerk-Sindelfingen, Sammlung Schaufler, Sindelfingen
Schweizerische Nationalbibliothek, Bern
Spencer Museum of Art, University of Kansas, Lawrence, Kansas
Staatsgalerie Stuttgart, Stuttgart
Städt. Galerie Pforzheim, Sammlung der Stadt Pforzheim
Stadtbücherei Stuttgart, Stuttgart
Stedelijk Museum, Amsterdam
Stiftung für Konkrete Kunst, Sammlung Manfred Wandel, Reutlingen
The Montreal Museum of Fine Arts - Musée des Beaux-Arts Montréal
The Tel Aviv Museum of Art, Tel Aviv
Ulmer Museum, Ulm

University of Iowa, Libraries Special Collection and University Archives, Iowa City, Iowa
Victoria & Albert Museum - V&A, London
Von Der Heydt-Museum, Wuppertal
Wilhelm Hack Museum, Ludwigshafen