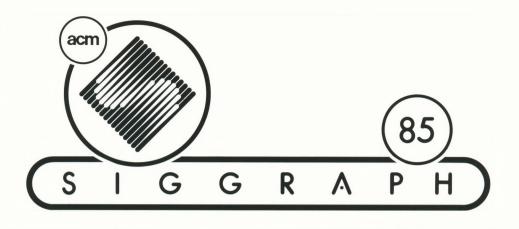


SAN FRANCISCO JULY 22-26

ART SHOW



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ACKNOWLEDGEMENTS: (Complete list will be displayed on site)

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INTRODUCTION

Historically, artists, designers and scientists in a society have combined their talents to produce the visual tools and language for their time, using all resources available to them.

Computer graphics' meteoric rate of growth is testimony to our continuing need for visual communication and to the inadequacy of mere words to satisfy that need.

This exhibition dramatically demonstrates how today's artists, in concert with designers and scientists, are redefining technology and art for all of us.

Louise R. Ledeen

Art Show Chair

SIGGRAPH '85 ART SHOW EVENTS AND LOCATIONS

- 1. **Moscone Convention Center Art Show** (July 22-26) This juried exhibition highlights the recent achievements of artists and designers around the world utilizing computer graphics technology in their work. The images, videotapes, prints, sculptures and interactive installations presented have been chosen from over 3000 entries. Visual documentation of the creative process and artists' statements add a new dimension to this year's art show.
- Student Poster Competition and Exhibition (July 18-26) Academy of Art College Gallery, 688 Sutter Street, San Francisco This premiere exhibition provides an excellent opportunity for exposure of student work. This collection is of interest to art educators wishing to broaden their understanding of computer graphics programs in schools nationwide.
- San Francisco Museum of Modern Art North Gallery (July 19-22) "Input/Output: Computer Graphics Festival" This event, held in conjunction with the San Francisco Museum of Modern Art, provides an opportunity to explore computer graphics processes in a hands-on environment. You will be able to participate in the creation of images at many levels of expertise.
- 4. Exploratorium Installations

Two installations are mounted at the Exploratorium in conjunction with the SIGGRAPH '85 Art Show and are featured at the Monday night course reception. "Frontiers of Chaos" features the work of mathematician Heinz-Otto Peitgen and physicist Peter Richter in experimental dynamic systems. This exhibit is made possible by the Goethe Institute and will be on display July 17-September 12. "Invisible Cities," an interactive computer graphics environment based on the Italo Calvino novel of the same name, will have its American premiere. This exhibit was conceived and created by Jeffrey Shaw and will be on display July 20-28.

5. Palace of Fine Arts – Adjacent to the Exploratorium (July 22)

During the Monday night course reception, the Rush Dance Troupe is presenting "RAB," a performance with choreography by Patrice Regnier and original score by Carter Burwell. This piece features computer modeling and animation by Rebecca Allen of the New York Institute of Technology.

DEDICATION:

To the memory of **Stan Van Der Beek**

FRONT COVER CREDIT

John Pearson "Reflections #12" © 1985 Chairman, Dept. of Art, Oberlin College, OH CATALOG DESIGN Light FX Richard W. Taylor II Lorraine Schweizer



Gardner, Geoffrey Y. "Cloudscape" 1985

On-line image Grumman Research Center

Hardware: Data General Eclipse, Genisco GCT3000, Matrix-2000 Software: G. Gardner

Kamins, David "Knoll" 1985

Print, 20 x 20 in. Boston University

Hardware: IBM 3081-D, VAX 11/750, Matrix Instruments QCR, Liacom Display Generator Software: Design-interactive scene simulation and animation software;

simulation and animation software; BUSMS-solids modeling system



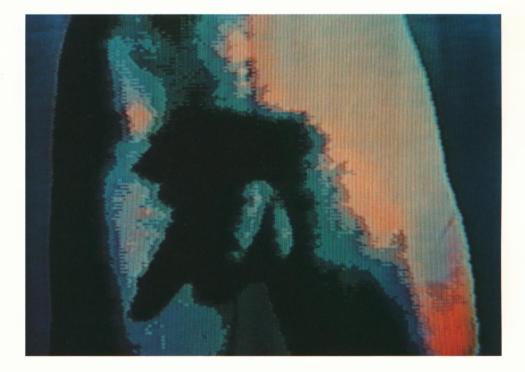




Gardiner, Jeremy "Celebes" 1983

Acrylic and graphite on canvas, 6.5x5.5 ft. Hirst Research Centre—General Electric City of London Polytechnic

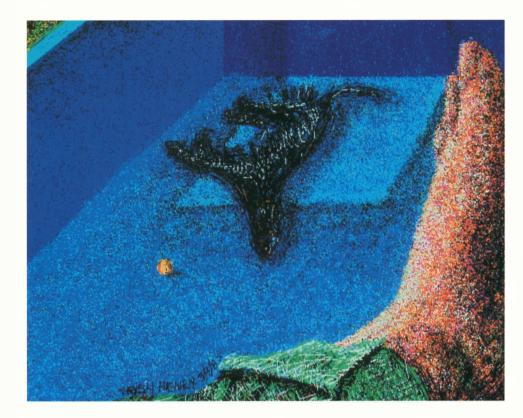
Hardware: Tektronix, Benson plotter, BBC Micro Model B Software: Picasso (Picture Algorithm Subroutine Oriented), TEGEA paint program Special thanks to Raster Technologies



Petrovic, Lucy Untitled, 1985

Print, 24x20 in.

Hardware: Datamax UV-1, Sandin Image Processor Software: Zgrass—T. DeFanti



Henry, Patricia C. "Foot and Dog" 1985

Print, 11x14 in. California College of Arts and Crafts, Oakland

Hardware: IBM PC Software: Time Arts—Easel

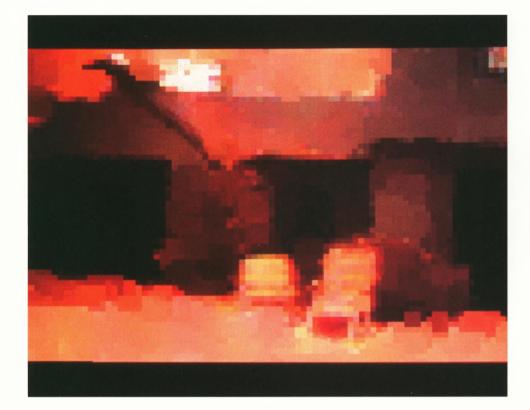
Kawaguchi, Yoichiro "Origin" 1985

Print, 16x20 in. Nippon Electronics College, Art and Science Lab, Japan

Hardware: Links-1 System directed by K. Omura developed at Osaka University Software: Links-1 System







Guillet, Guy "Chairs III" 1985

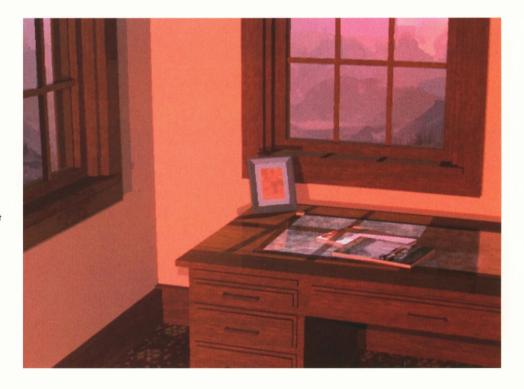
Print, 16x20 in. Visible Language Workshop, MIT

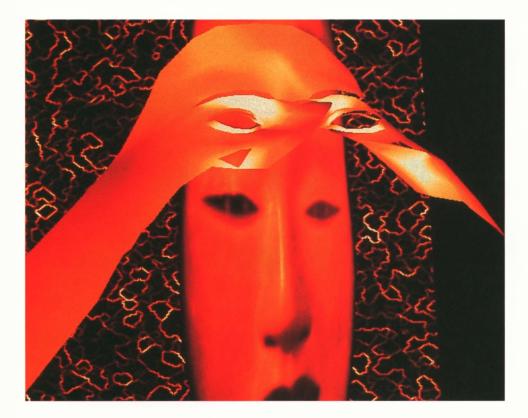
Hardware: Perkin Elmer 3220, Grinnell frame buffer Software: Visible Language Workshop

Carey, Rikk "Room With a View to the Castle of the Mad King" 1985

Cibachrome print, 16x20 in. Cornell University, Ithaca, NY

Hardware: VAX 11/780, Grinnell 27-bit frame buffer Software: Ray Tracing - R. Carey, R. Hall, C. Verbeck





Denker, Amber "Nagasaki I" 1985

Print, 20x24 in. NYIT Computer Graphics Lab

Hardware: VAX 11/780, Genisco frame buffers Software: P. Heckbert, F. Parke

Maguss, Martin "Sushi To Go" 1985

Print, 16x20 in. Visual Images

Hardware: Genigraphics 100C Software: System







Corpaci, Renato "Beerplane Flying Over an Iced Beer Landscape" 1984

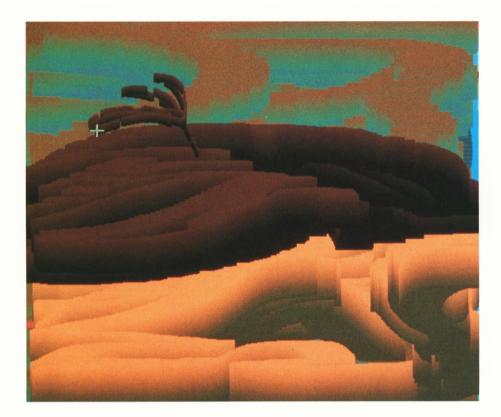
Print, 20x24 in. Academy of Art College, San Francisco

Hardware: Digital Graphics System Cat 800 Software: Time Arts—Easel

Moran, Robert E. "Progressions IV" 1985

Computer collage, construction with Cromoplex paper, 3D Computer Graphics images, 20x27x1.25 in.

Hardware: Compaq PC, Cubicomp frame buffer, Lang film recorder Software: Cubicomp PC10, Time Arts-Easel



Mao, Yuan-Lin "Alfalfa" 1983

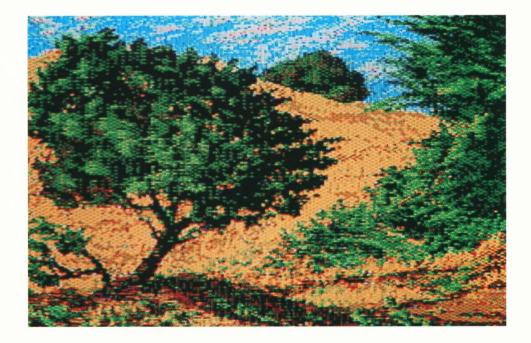
Print, 11x14 in.

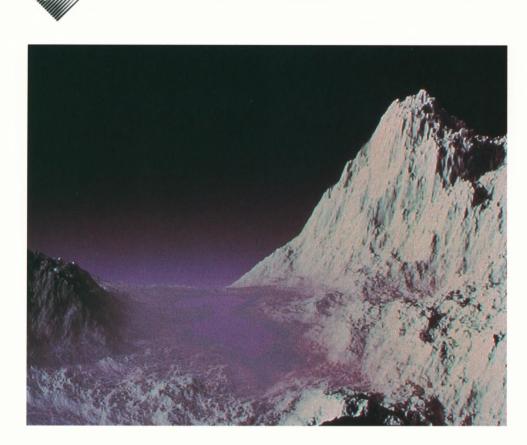
Hardware: Perkin Elmer 3220, CPU/Grinnell GMR 27 frame buffer Software: In-house PL/1

Coons, Russ "View from Paseo Miramar Road" 1985

Print, 11x14 in. Orange Coast College, Costa Mesa, CA

Hardware: Apple IIE Software: Penguin, 15 color version





Voss, Richard "Fractal Valley Cubed" 1983

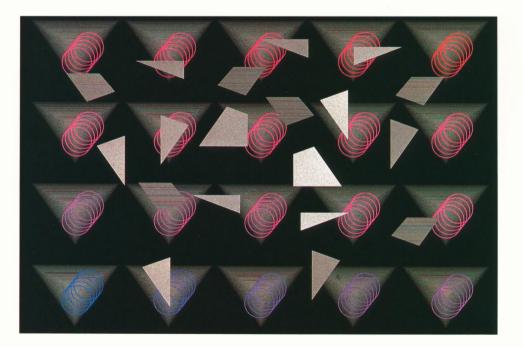
Print, 11x14 in. IBM Research—Yorktown, NY

Hardware: IBM 3083/4381, Celco film recorder Software: Special fractal – R. Voss

McEachern, Janda "Mindbender" 1985

Print, 11x14 in. Durham College, Ontario, Canada

Hardware: Dicomed Imaginator Software: System





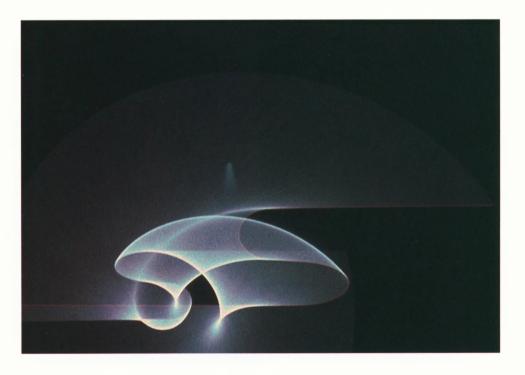
Adell, Carrie "Solar Wind" 1983

Three-way neckpiece, 16x8x.5 in. Silver, copper, gold electroplate Inspired by NASA images of heat zones of electromagnetic field of the sun

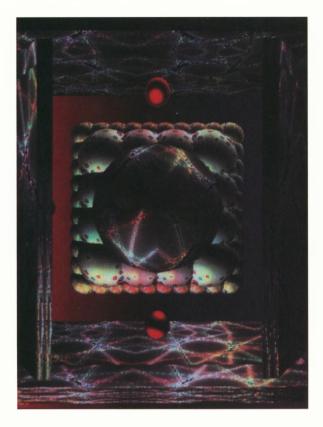
Dolberg, Kathleen M. "Gossamer" 1984

Print, 16x20 in. Los Alamos National Lab

Hardware: Tektronix 4015/FR80 Camera Software: Mapper







Debuchi, Ryoichiro "Solid Chaos I" 1985

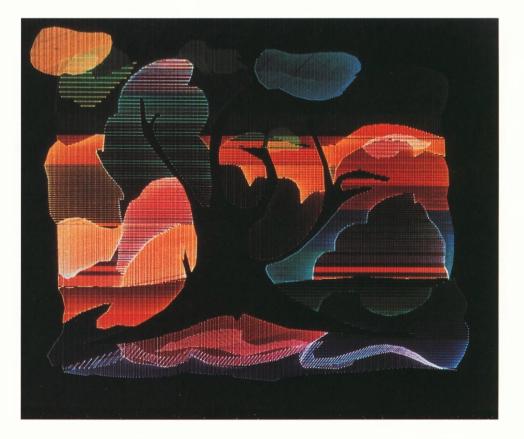
Print, 14x11 in. ASCII HighTech Lab

Hardware: VAX 11/750, Imapro QCR **Software:** R. Debuchi

Richard, Annick Cavadia, Christian "Paysage Nocturne" 1983

Plotter print, 26x38 cm. A.R.T.A., Paris

Hardware: Tektronix 4052, digital plotter 4662, tablet 4956 Software: Original





Mayes, Steven L. "Compu-scape" 1984

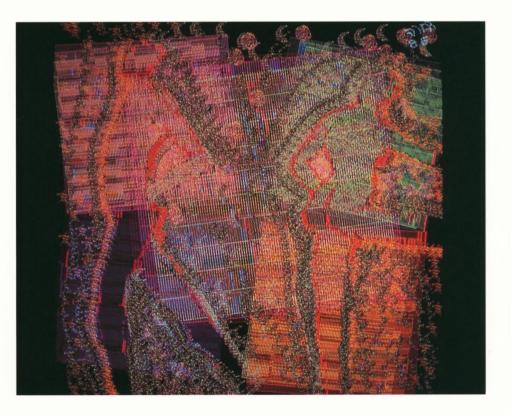
Photo etching mono-print, 18x20.5 in.

Hardware: Tektřonix 4027A Software: System

Colman, Deborah S. "Pas de Deux but..." 1985

Print, 14x14 in. West Coast University, Los Angeles

Hardware: VAX 750, Ramtek 9200 Software: WCU Paint—G. Walker







Reed, Vernon "Comet Zero" 1985

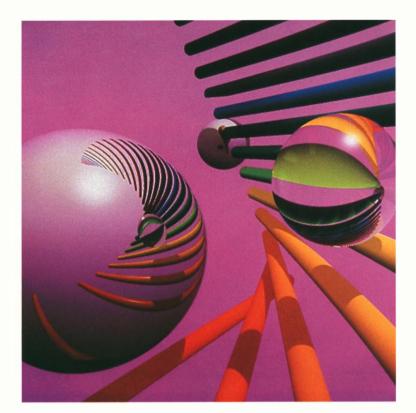
Cybernetic neckpiece, $9x6x\frac{1}{2}$ in. (with on-board microcomputer)

Hardware: MC 1468705G2 micro, LCDs Software: Assembler — V. Reed

Leich, Donald R. "Clouds in the Head" 1985

Cibachrome print, 20x20 in. Digital Effects Inc.

Hardware: Harris 800 computer, Dicomed D48 Software: DEI's proprietary Visions



Sciulli, Michael Arvo, James "Rainbow" 1984

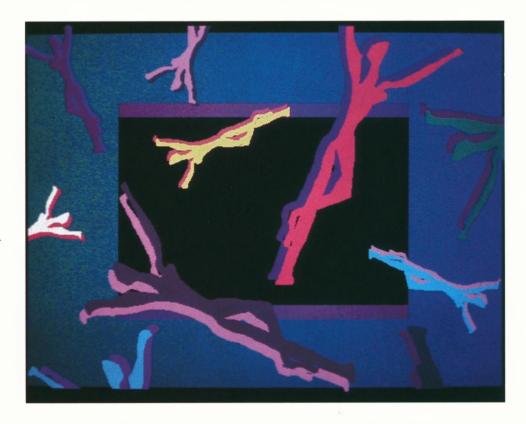
Print, 11x14 in. Apollo Computer, Inc.

Hardware: Apollo DN660, Domain Network Software: In-house ray tracer

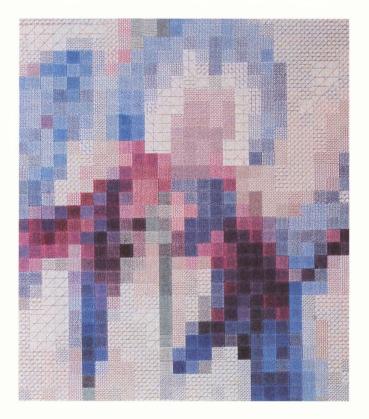
Gellman, Rachel "Figures" 1985

Wool rug, 6'7.5" x 8'6.5" Handmade at Spinning Wheel Rugs

Hardware: IBM PC, Scion frame buffer Software: Time Arts—Easel







Brown, Susan "Flower" 1984

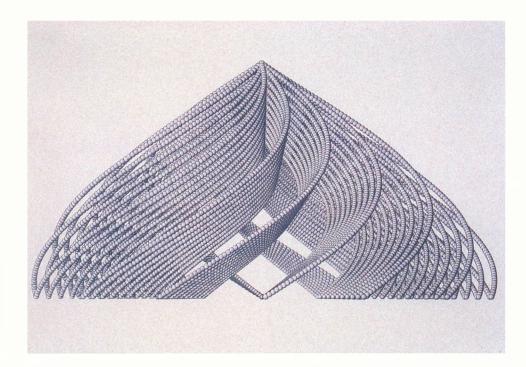
Plotter print, 36x31 in.

Hardware: CDC855, Nicolet Zeta plotter **Software:** S. Brown

Lovejoy, Margot (by invitation) "Azimuth I" 1983

Serigraphs (one of two) 30x40 in.

Hardware: IBM 3380 Software: System



Heller, Martin "Homage a' Bill Max" 1984

Plotter print, 13.5x22 in.

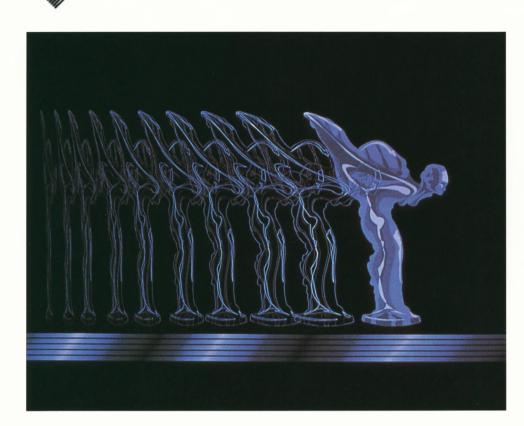
Hardware: Prime 250, Calcomp plotter **Software:** Invisicalc

Cooper, Daniel "Echoes of Forgotten Ancestors" 1984

Serigraph, 19x26 in.

Hardware: Apple II, Grappler, IDS Microprism Software: D. Cooper





Weekly, Greta "Ecstasy" 1984

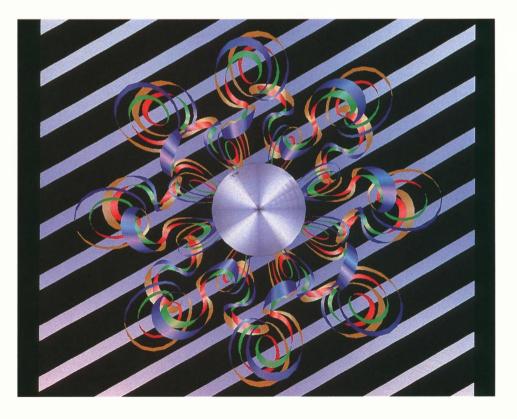
Cibachrome print, 14x21 in. Vucom Graphic Systems

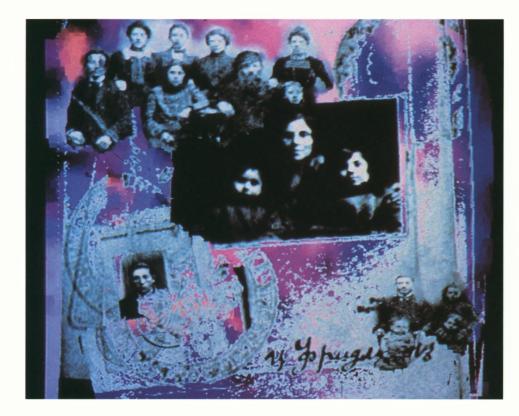
Hardware: Dicomed D-80 Software: Dicomedia II

Yamada, Midori "Midora" 1984

Print, 11x14 in. Far East Lab Video Center

Hardware: VAX 11/780 Software: 3-D Animation





Rosenzweig, Elizabeth "Tzvia/Eliazer" 1985

Print, 16x20 in. MIT Visible Language Workshop

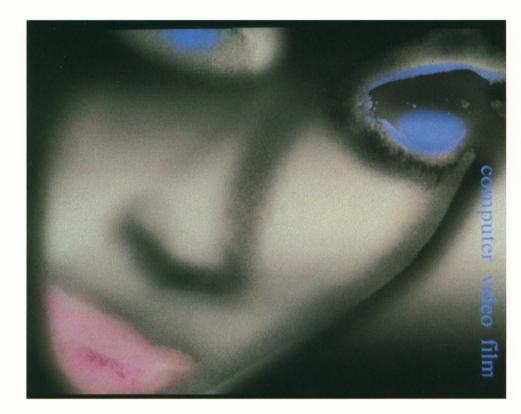
Hardware: Perkin Elmer 3220, Grinnell GMR27 Software: In-house



Bramble, William C. III "Statica" 1984

Print, 30x40 in.

Hardware: Apple IIE Software: System



Boeri, Chiara "Blue Dream" 1985

Cibachrome print, 80x60 cm. Computer Video Film, Paris

Hardware: Quantel Paint Box Software: Quantel

Winkler, Dean Sanborn, John "Luminare" 1985, 5:45

Videotape Computer Graphics Center, VCA Teletronics

- Hardware: MCI/Quantel DPB7000 Grass Valley GVG-300, Ampex Digital Optics real-time image processors, Quantel DPE5000 + with frame store, Teletronics VI Square Communications control system.
- Software: Quantel VER. 3.2 Ampex, VER. 4.2, Quantel VER. 4 with enhanced BBC teletrack Teletronics VI Square Operating System VER. 12.3-R. Lund.





Smith, Gregg "Willoughby Sharp" 1985

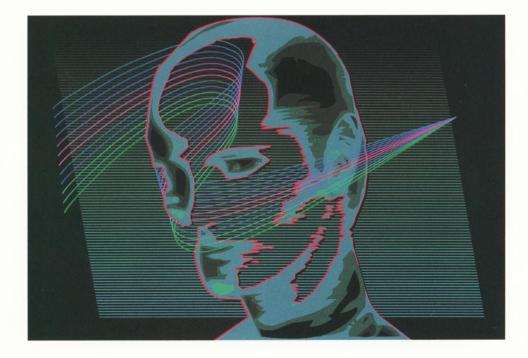
Ink jet print, 11x15 in.

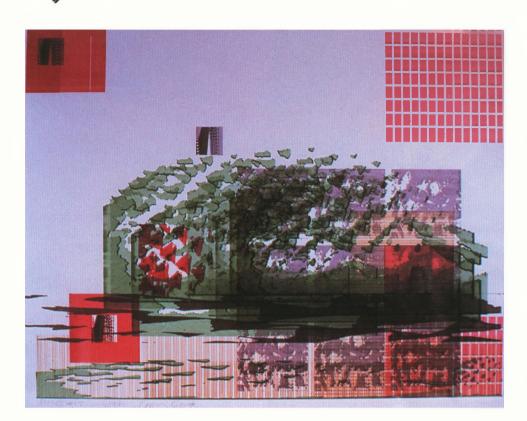
Hardware: Artronics PC2000 Studio Computer, ACT-II Chromajet Software: System

Thornton-Dibb, Mark "Face Scan 3" 1984

Print, 16x21 in. Ideadata (Pty) Ltd., South Africa

Hardware: Dicomed D80 Imaginator Software: System





Giloth, Copper "Fields #17" 1984

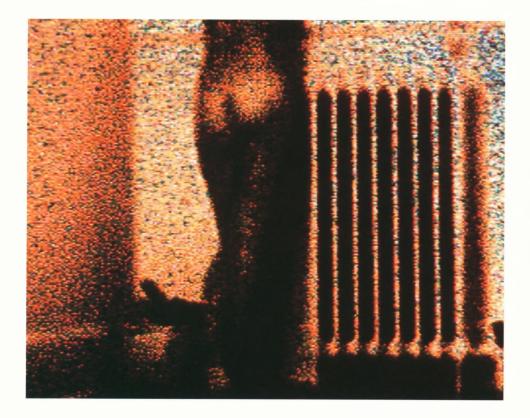
Ink plotter print, 23x29 in. Real Time Design, Inc.

Hardware: Datamax UV-1, VAX11/750, HP7580A Software: UV-1 Paint System, plotter software – P. Caldes, C. Giloth

Greene, Angela "Platypus Room" 1984

Print, 11x14 in. Via Video

Hardware: Via Video System IE Software: Time Arts



King, Robin (by invitation) "Figure #34" 1985

Cibachrome print, 10x13.5 in. Sheridan College Computer Graphics Lab, Ontario, Canada

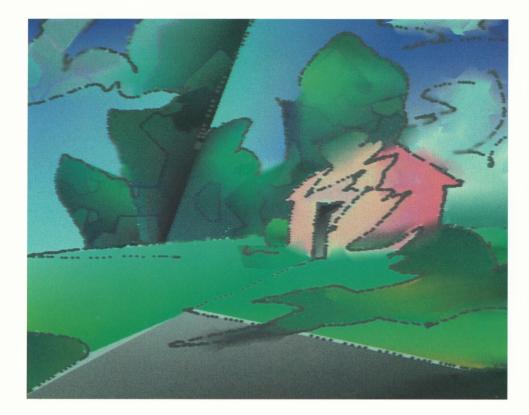
Hardware: NYIT Images II Software: NYIT Images II



Janicot, Christian "Windows" 1985

Cibachrome print, 80x60 cm. Computer Video Film, Paris

Hardware: Quantel Paint Box Software: Quantel



Brice, Jeff "Ohio" 1984

Cibachrome print, 20x30 in.

Hardware: DEC PDP-11 Software: Images II

Nappi, Maureen "Jouir de la Jouet" 1985

Print, 16x20 in. Computer Graphics Center, VCA Teletronics

Hardware: Quantel DPB7000 Paintbox, Dunn film recorder Software: Quantel DPB7000 Paintbox Operating System 3.1





Leeser, Tom "Small Object" 1984-5

Photo, 20x24 in. Digital Effects Inc.

Hardware: DEC 11/34, Summagraphics BitPad, Lexidata frame buffer Software: Digital Effects Video Pallette III

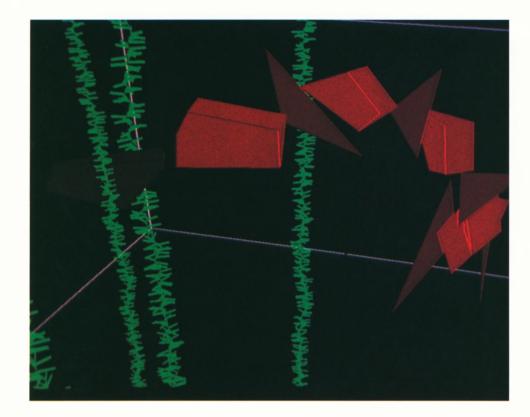
Contract 20

Smadja, Yves "Black" 1985

Cibachrome print, 60x80 cm. Computer Video Film, France

Hardware: Quantel Paint Box Software: Quantel





Myers, Rob "Plasm: Fish Sample" 1985

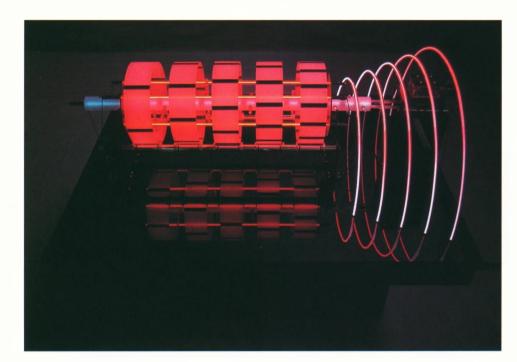
Interactive environment, 6x10 ft.

Hardware: Silicon Graphics Iris 2400 Software: Homebrew object-oriented constructs in "C" under UNIX. Collaborators: R. Myers, P. Broadwell, R. Schaufler

Komisar, Milton "Four of a Kind" 1985

Light sculpture

Hardware: Apple II + Software: Custom FORTH – M. O'Malley Collaborator: W. Harvey



Marshall, Alan "Luminous Erototron" 1984

Kinetic light sculpture, 36x48x36 in.

Hardware: Zilog system controller Software: J. Watkins

Nygaard, Marsha (by invitation) "Computer Orchestrated Light, Glass and Metal Sculptures" 1985

Light (LEDs, lasers and neon), aluminum and glass (colored, clear and dichroic)

Hardware: Commodore 64 Software: Custom – C. Charboneau Collaborators: C. Charboneau, K. Herrick





Lindquist, Mark "Day Dreams: Scenes from a Nightmare" 1984

Print, 16x24 in. Digital Effects Inc.

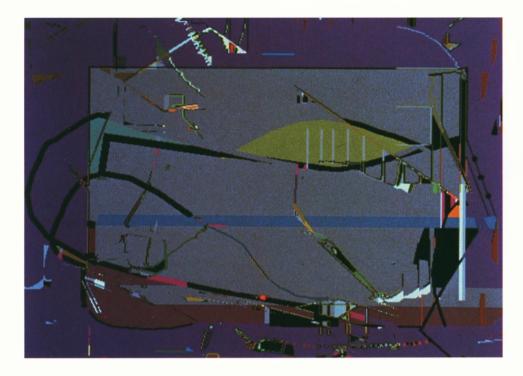
Hardware: PDP 11/34, Lexidata frame buffer, Dicomed film recorder Software: Custom C – G. Miller

Dearing, Mark "Apartment Dwellers" 1985

Print, 16x20 in. Digital Images

Hardware: Digital Graphics Systems Cat 1600-31 Software: Cat Pallette





Gerbarg, Darcy "Concession to SCIFI" 1984

Wool carpet, 24x24 in. Sample corner of 2.45x3.37 m.

Hardware: NYIT Software: A. R. Smith paint program ca. 1980

Nessim, Barbara "Two Shadows Outside Two Women" 1985

Print, 16x20 in.

Hardware: IBM PC, Scion PC640 Software: Time Arts—Easel





Chu, Polly "River" 1984

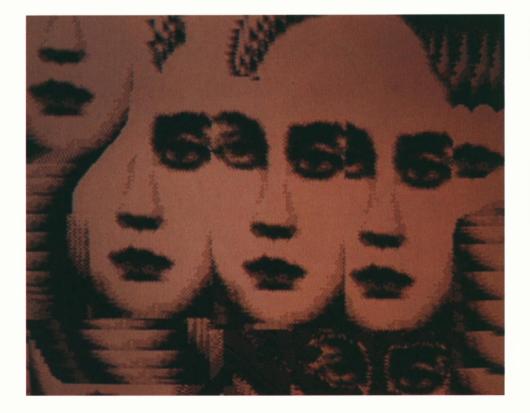
Plotter, foil, 52x2 in.

Hardware: Apple II, HP plotter Software: A. Somen

Papier, Bruce L. "Clown Crowd I" 1985

Electrostatic print, 40x60 in. Arizona State University

Hardware: Datamax UV-1 Software: Modified Paint





Drebin, Bob "Self Portrait" 1985

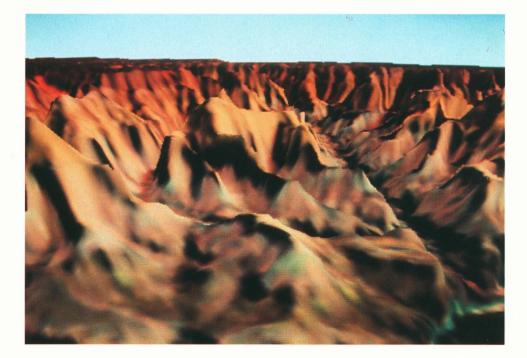
Photographic print, 20x24 in. Lucasfilm Ltd. Computer Division

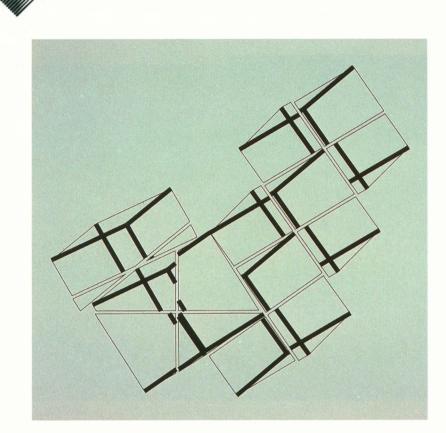
Hardware: Pixar Image Computer Software: In-house

Johnson, Grant Driscoll, Ted Hanson, Glenn "Bright Angel Canyon from Dana Butte" 1985

Cibachrome print (detail) 16x26 in. International Imaging Systems

Hardware: 12S Model 75 Software: 12S System 575 version 3.1





Mohr, Manfred "P-361-C" 1984-1985

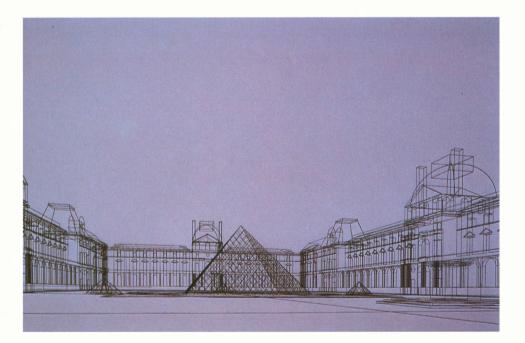
Acrylic on canvas (one of four) 24x24 in. Manfred Mohr Studio, NY

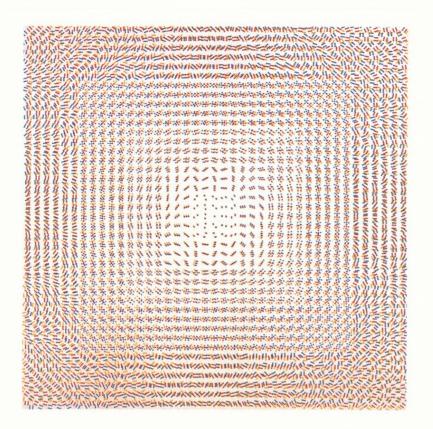
Hardware: PDP 11/23, Alphamerics plotter Software: M. Mohr

Pei, I. M. Associates "Louvre Project" 1984

Design study (one of four) 11x14 in. Computervision Corp. , Bedford, MA

Hardware: CV CDS 4000 Software: CV CADDS-4X Collaborators: I.M. Pei Associates — S. Oles, Y. Weymouth Computervision — W. Murphy, O. Buchholz





Fischer, Jürgin Lit "Big Dice" 1984

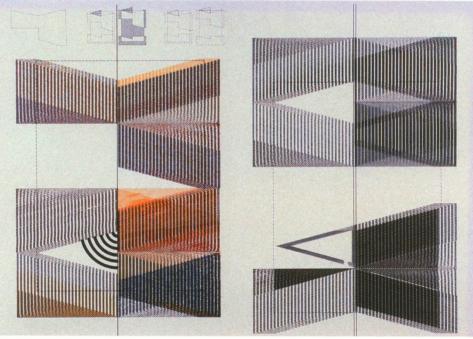
Print, 39.5x39.5 in.

Hardware: Prime 9950/55-II, Benson 1222 Aristomat 8320, DIN AO Software: FORTRAN

Hushlak, Gerald "...or, The Structure of a Building is Sometimes More Beautiful than the Building" 1983

Flatbed vector plots (one of two) 22x30 in.

Hardware: IBAS — Calcomp 718 Software: Intergraph





Franke, Prof. Dr. Herbert W. "C11d Buehnenhild" 1984

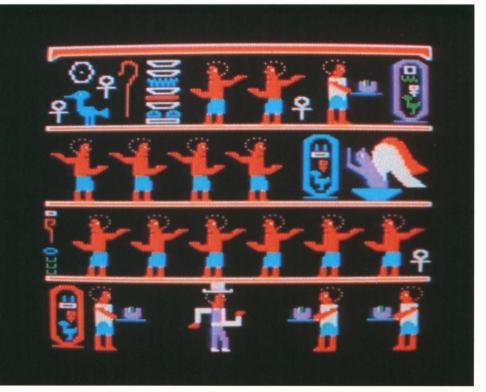
Cibachrome print, 20x20 in. D.F.V.L.R.

Hardware: Perkin Elmer Software: DIBIAS

Beck, Stephen "The Lone Breaker" 1985, 4:40

Videotape

Hardware: Apple II Software: Illustrator Paint Program, Beck-Tech custom animation Collaborators: V. Collins, H. Spragens Music: B. Fasman





Veeder, Jane "Vizgame" 1985

Environment

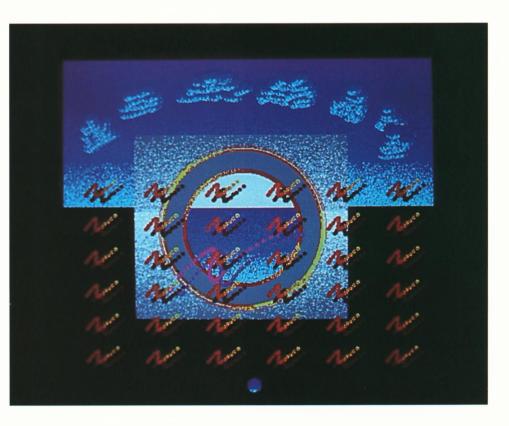
Interactive computer graphic installation

Hardware: Datamax UV-1 Graphics Computer Software: Zgrass Language Interpreter Custom VIZGAME Software

Gambino, Donald "Caribbean Dream" 1985

Print, 20x24 in. School of Visual Arts, New York **Hardware:** IBM PC, GTCO Graphics

Tablet Software: Time Arts—Easel





TWO DIMENSIONAL WORK: Contributing Artist Index

Arguello, Carlos "Faces" 1984

Cibachrome print, 62x36 in. Hardware: Synthetic Video EX2 Computer Choreographer Software: Synthetic Video Graphics

Bartz, Janet "Post Card" 1985

Cibachrome print, 11x14 in. Sheridan College Computer Graphics Lab, Ontario, Canada **Hardware:** Genigraphics 100C

Blum, Terry "Ellipse Series #2" 1985

Cibachrome print, 16x20 in. Hardware: Cromemco Software: Slidemaster

Boeri, Chiara (p. 20) "Circus" 1985

Silkscreen, 60x80 cm. Computer Video Film, Paris **Hardware:** Quantel Paint Box **Software:** Quantel

*Bramble, William C. III (p. 19)

*Brice, Jeff (p. 24)

*Brown, Susan (p. 16) "Puzzle Piece C17BU" 1984

Plotter print, 24x20 in. Hardware: CDC855, Nicolet Zeta plotter Software: S. Brown

Burrows, Wilson "Still-Life" 1985

Inkjet print, 8.5x25.5 in.
Cubicomp
Hardware: Cubicomp Polycad-10 frame buffer, IBM PC, Diablo C150 inkjet printer
Software: Cubicomp Polycad-10 Solid Modeler, Time Arts—Lumena, Diablo printer driver — J. Schier

Burson, Nancy "Lion/Lamb" 1984

B & W Photograph, 9³/₆x9¹/₈ in. Hardware: PDP 11-780, AED frame buffer **Software:** Custom C – R. Carling, D. Kramlich

Carey, Rikk (p. 6)

Cavadia, Christian "Patchwork" 1983

Plotter output, 26x38 cm. A.R.T.A., Paris Hardware: Tektronix 4052, digital plotter 4662 Software: C. Cavadia

*Indicates image reproduction in catalog

Cohen, Elaine "Portrait" 1984

Print, 11x14 in. Sheridan College Computer Graphics Lab, Ontario, Canada **Hardware:** Dicomed D38 **Software:** System

*Colman, Deborah S. (p. 13)

Colonna, Jean-Francois "Summer" 1985

Print, 60x40 cm. Lactamme-Ecole Polytechnique, France **Hardware:** J. F. Colonna **Software:** J. F. Colonna

Cook, Robert L. "Road to Point Reyes" 1983

Print, 16x24 in. (4Kx4K 24 bits resolution)
Lucasfilm Ltd. Computer Division
Hardware: Ikonas graphics processor and frame buffer scanned on Fire 240 courtesy of MacDonald Dettweiler & Associates Ltd.
Software: R. Cook, L. Carpenter, T. Porter, B. Reeves, D. Salesin, A. R. Smith

*Coons, Russ (p. 9)

*Cooper, Daniel (p. 17)

*Corpaci, Renato (p. 8)

Culver, Joanne "Oranges" 1984

Print, 19x20 in. No Coast Design Hardware: DEC/Sandin Image Processor Software: J. Culver

Daoust, Johanne "The Kids" 1983

Cibachrome print, 11x14 in. Sheridan College Computer Graphics Lab, Ontario, Canada Hardware: Norpak IPS2, Videotex Page Creation System Software: 699 Telidon

*Dearing, Mark (p. 28)

*Debuchi, Ryoichiro (p. 12)

*Denker, Amber (p. 7)

DeWitt, Tom "Quake" 1985

Photographic print, 16x20 in. RPI Image Processing Lab **Hardware:** IBM 7350, IBM 4341 Host **Software:** APL/APLIAS System — G. Savary (IBM France)

*Dolberg, Kathleen M. (p. 11)

Donkin, John C. "Cherry Cola" 1985

Cibachrome print, 16x20 in. Cranston/Csuri Productions, Inc. Hardware: VAX II/780, Sun Microworkstation, Custom frame buffer Software: Cranston/Csuri Proprietary

*Drebin, Bob (p. 31)

Eitzen-Jones, Marilyn "Cosmos" 1984

Collage, photo and watercolor, 23x30 in. Hardware: Commodore 64, Supersketch graphics tablet Software: Graphics Master

Feder, Eudice "Wind-Warn" 1985

Plotter print, 9x18 in. California State University, Northridge Hardware: CDC Cyber 750 Software: Simplot, R. J. Abbott

*Fischer, Jürgin Lit (p. 33)

*Franke, Prof. Dr. Herbert W. (p. 34)

*Gambino, Donald (p. 35)

Gardiner, Jeremy (p. 4)

*Gardner, Geoffrey Y. (p. 3) "Quadric Clouds" 1985

Print, 8x10 in. Grumman Research Center Hardware: Data General Eclipse, Genisco GCT3000, Matrix-2000 Software: G. Gardner

*Giloth, Copper (p. 22)

Gorchos, Deborah "Seeing Thru" 1985

Heat transfer onto polyester, 24x25 in. Hardware: Cygnos I Video Digitizer, Terminex 200 Software: System

*Greene, Angela (p. 22)

*Guillet, Guy (p. 6)

Haveman, Josepha "Four-Four" 1984

Silkscreen print, 20x25 in. Hardware: Atari/Gemini printer Software: Graphic Master

*Heller, Martin (p. 17)

Helmick, Richard "Shadows of a Runner" 1984

Plotter print, 4.5x9 in. Hardware: Apple IIE, Koala Pad, Sweet-P plotter Software: R. Helmick

*Henry, Patricia C. (p. 5)

Hunsburger, David Peter "Strung Together" 1984

Plotter print, 44x42 in. University of Waterloo, Ontario, Canada Hardware: Ikonas, Versatec Software: Paint Program

*Hushlak, Gerald (p. 33)

Janicot, Christian (p. 23)

Jankovic, Josef (by invitation) "The Expansion" 1985

Serigraph, 27x32 in. Bratislava, Czechoslovakia Hardware: PDP 11/34, Tektronix 611 display Software: Custom Fortran, Algol and Basic Collaborator: I. Bertok

Johnson, Grant Driscoll, Ted Hanson, Glenn (p. 31)

Jones, Lauretta "Home Again, Home Again (Higgeldy Jig)" 1984

Cibachrome and linen cord, 16.75x12.25 in. Hardware: Apple II + , Number Nine Board Software: V-Paint Plus

Joyce, Don "Over the Edge" 1985

Photographic print, 11x14 in. Unison World Inc. Hardware: Sharp MZ-5000 PC 8086 Software: Unipaint, F. Fischer

*Kamins, David (p. 3)

Kaprow, Alyce "Face" 1984

Cibachrome print, 16x20 in. MIT Visible Language Workshop Hardware: Perkin Elmer 3220, Grinnell frame buffer Software: VLW "SYS"

*Kawaguchi, Yoichiro (p. 5)

Kerlow, Isaac Victor "Pyramid in Black and White Number Five" 1985

Etching, 20x16 in. Hardware: DEC VAX 11/780 and Apple II + Software: Cantos and Software by artist

King, Robin (by invitation) (p. 23) "Untitled 13" 1985

Cibachrome print, 8x8 in. Sheridan College Computer Graphics Lab, Ontario, Canada **Hardware:** NYIT Images II **Software:** NYIT Images II

Lalvani, Haresh "Into Tesspoly" 1985

Photographic print, 11x14 in. NYIT Computer Graphics Lab Hardware: Ikonas & VAX 11/780 Software: Solid Modeling System, Quadric Rendering Software

*Leeser, Tom (p. 25)

*Leich, Donald R. (p. 14)

*Lindquist, Mark (p. 28)

Lovejoy, Margot (by invitation) (p. 16) "Azimuth II" 1983

Serigraphs (two of two) 30x40 in. Hardware: IBM 3380 Software: System

MacKay, Don "Mess" 1985

Photographic print, 16x20 in. University of Waterloo, Ontario, Canada Hardware: IBM PC with Lumena System Software: Time Arts—Lumena

*Maguss, Martin (p. 7)

*Mao, Yuan-Lin (p. 9)

Martino, Steve "New Vision" 1985

Cibachrome print, 16x20 in. Cranston/Csuri Productions, Inc. Hardware: VAX 11/780, Pyramid Technologies Mainframe, Marc III frame buffer Software: Cranston/Csuri proprietary Collaborators: Cranston/Csuri hardware and software teams

*Mayes, Steven L. (p. 13)

McDevitt, Marsha J. "Sundays" 1985

Photographic print, 16x20 in. Cranston/Csuri Productions, Inc. Hardware: VAX 11/780, Evans & Sutherland PS300, Custom-built frame buffer Software: Cranston/Csuri proprietary

*McEachern, Janda (p. 10)

McInnis, Karen "Anniversary" 1985

Print, 16x20 in. Computer Graphics Center, VCA Teletronics Hardware: Quantel DPB7000 Paintbox, Dunn film recorder Software: Quantel Operating System 3.1

Migliore, Susan "Pixelated" 1985

Cotton fabric, 30x30 in. Hardware: Apple MacIntosh Software: MacPaint

Miller, John Jay "R. 1" 1984

Cibachrome print, 16x20 in. Computer Graphics Research Group Ohio State University Hardware: VAX 11/780 Software: Scene Assembler and other

Mitsui, Hideki "Planets-4" 1983

Photograph and gouache, 90 sq. cm. University of Tsukuba, Japan Hardware: FACOM M-200 Computer Software: Custom FORTRAN

Mohr, Manfred (p. 32) "P-370-G" 1984-1985 "P-370-I" 1984-1985 "P-370-J" 1984-1985

Acrylic on canvas (three of four) 24x24 in. Manfred Mohr Studio, NY Hardware: PDP 11/23, Alphamerics plotter Software: M. Mohr

*Moran, Robert E. (p. 8)

Nahas, Monique Huitric, Herve "Turn Right" 1984

Print, 20x26 in. University of Paris-ATI, France Hardware: VAX 780 Software: In-house "Rodin2"

*Nappi, Maureen (p. 24)

Nessim, Barbara (p. 29) "Staircase of Men" 1985

Print, 16x20 in. Hardware: IBM PC, Scion PC640 Software: Time Arts—Easel

Oppenheimer, Peter E. "Views from My Window" 1985

Photographic print, 16x20 in. NYIT Computer Graphics Lab Hardware: VAX 11/780 Software: NYIT 3D Graphics System

O'Rourke, Michael "St. Slucid" 1985 (back cover) "Bucks County Slucid" 1985

Photographic prints (two), 40x45 in. NYIT Computer Graphics Lab Hardware: VAX 11/780, Genisco and Ikonas frame buffers, Dicomed D48 Software: NYIT proprietary

Papier, Bruce (p. 30)

Pearson, John (front cover) "Reflections #12" 1984

Pastel, charcoal, conte, pencil, 50x38 in. Oberlin College, OH; VAX Research Center, University of New Mexico **Hardware:** Comtal Vision II

Software: Technical assistance — David Gold; Directed by Ed Angel; Assisted by John Brayer



TWO DIMENSIONAL WORK: Contributing Artist Index

*Pei, I. M. Associates (p. 32)

*Petrovic, Lucy (p. 4) Porett, Thomas "Totem #5" 1984

Color inkjet print, 48x15 in. Hardware: Symtec PGS III, ACT II Chromojet printer Software: D. Turner

Porter, Thomas "1984" 1984

Cibachrome print, 8.5x11 in. Lucasfilm Ltd. Computer Division Hardware: VAX 11/750, MacDonald Dettweiler Fire 240 Software: Ray tracing — T. Porter based on code by T. Duff

Pryor, Sally (back cover) "Trompe l'Oeil II" 1984

Print, 20x16 in. Cranston/Csuri Productions, Inc. Hardware: Pyramid, Marc III frame buffer, Celco film recorder Software: CCP Collaborators: J. Berton, S. Dyer, J. Light, S. Ho, T. Tran, R. Chung

*Richard, Annick Cavadia, Christian (p. 12)

*Rosenzweig, Elizabeth (p. 19)

Schwartz, Lillian F. "Big MOMA" 1984

Photographic print, 8x4 ft.

"Museum of Modern Art Poster" 1984

Poster, 36.5x27 in. IBM—Thomas J. Watson Lab Hardware: IBM 4381, Celco color film recorder, Raster Technologies frame buffer Software: Prototype—R. Voss

*Sciulli, Michael; Arvo, James (p. 15)

Search, Patricia "Spirit Two" 1984

Print, 16x20 in. Rensselaer Polytechnic Institute, Troy, NY Hardware: Data General MV4000 Software: Barr-Edwards-Lorig ray tracer

Sheridan, Sonia Landy "Light Plane" 1985

Print, 11x14 in. Hardware: Cromemco Z-2D, Cat 400 Software: Time Arts—Easel

Slayton, Joel A. "LJ3" 1984

Print, 40x60 in. CADRE/Grinnell Systems Hardware: VAX 11/780, Grinnell frame buffer Software: IPEX *Smadja, Yves (p. 25)

*Smith, Gregg (p. 21)

*Thornton-Dibb, Mark (p. 21)

Truckenbrod, Joan (by invitation) "Lattice Vibrations" 1985

Cibachrome prints (three) 11x14 in. Hardware: Apple It+, Syntec PGS-III Software: J. Truckenbrod

Valesco, Frances "Deep Water Test #4" 1985

Silkscreen-marbling (mixed-media) 26.5x40 in. Hardware: Apple II, IDS Microprism printer, Koala Pad Software: Micro Illustrator

Voss, Richard (p. 10) "Fractal Valley Cube-Root" 1983

Print, 11x14 in. IBM Research—Yorktown, NY Hardware: IBM 3083/4381, Celco film recorder Software: Special fractal—R. Voss

Weekly, Greta (p. 18) "Rousseau Dreaming" 1984

Cibachrome print, 21x14 in. Vucom Graphic Systems Hardware: Dicomed D-80 Software: Dicomedia II

Wilson, Mark "Skew-B12" 1985

Ink on paper, 20x60 in. Hardware: IBM PCjr. , Tektronix 4663 plotter **Software:** M. Wilson

*Yamada, Midori (p. 18)

INSTALLATIONS:

Contributing Artist Index

*Adell, Carrie (p. 11)

Arguello, Carlos "Vino" 1984

Wine labels (two) 4.25x6.75 in. Hardware: Synthetic Video EX2 Computer Choreographer Software: Synthetic Video Graphics

Bell, Bill "Untitled as of this Moment" 1985

Light emitting diodes and computer memory chips, 72x5x2 in. Hardware: Proprietary **Software:** Proprietary—B. Bell

Chu, Polly (p. 30)

Dosch, Diana "Cheri 2" 1984

 Ink-jet print, 72x72 in.
 Hardware: IBM PC, Cubicomp frame buffer, Diablo C150 printer
 Software: Time Arts-Easel, dithering software by J. Schier

Em, David (by invitation)

Design Study of Architectural Installation INFOMART—Dallas, TX 1985 Two Cibachrome photo murals 6x25 ft; 6x8 ft. Computer graphics images 1979-1981. Hardware: DEC PDP 11/55, Evans & Sutherland 8-bit buffer Software: J. Blinn Technical Production Collaborators: J. Seligman—Production Manager,

Colorhouse, Burbank, CA M. Wilder—Photo retouching

Gardiner, Jeremy "The Panopticon" 1985

Mirrored mylar, 20 ft. dia. New England Arts Biennale Hardware: Volpi Lens Software: Anamorphic mapping

Gartel, Laurence M. "Paradise Jgungle" 1985

Photostat of B & W printout, 40x50 in. Hardware: Apple, Imagewriter printer Software: MacPaint

*Gellman, Rachel (p. 15)

Gerbarg, Darcy (p. 29) "Map 1" 1984

Ceramic tile, 24x24 in. One of nine tiles Hardware: Gould SEL, Celco film recorder Software: MAGI Synthavision

Greene, Ned "Inside a Quark" 1984-85

Print, 20x20 in. with 3D viewer NYIT Computer Graphics Lab Hardware: VAX 11/780, Ikonas frame buffer, Dicomed film recorder Software: NYIT Animation System Collaborators: P. Heckbert, J. Bloomenthal, L. Williams

Hamilton, Bruce and Susan "Medusa" 1984

Sculpture, 24x18x22 in. Hardware: Tektronix 4051, 4662 plotter Software: B. Hamilton

Higgins, Mike (by invitation) "Flying Saucer Lamp" 1980

Glass lampshade/oak stand, 60x30 in. dia. Hardware: PDP11/45, Zeta plotter Software: Custom FORTRAN—M. Higgins

Hohn, Hubert "Untitled Binary Dump" 1985

Dot Matrix Digital Ideogram, 8x32 ft. Banff School of Fine Arts, Banff, Canada **Hardware:** Apple II + , Epson MX-80 printer **Software:** 6502 Assembler—H. Hohn **Collaborators:** R. Reynolds, C. Lewis

*Komisar, Milton (p. 26)

Krueger, Myron W. "Videoplace" 1984-85

Interactive computer environment Hardware: National 16000 controlling six microcoded processors Software: Custom "C," LISP Collaborators: K. Hinrichsen, T. Gionfriddo, J. Rinaldi, B. Shay

Marion, Ann "Artificially Motivated Objects" 1984

Interactive sprite graphics, on-line display Atari Research Hardware: Atari 800 Software: Custom Assembly Language Collaborator: W. Harvey

*Marshall, Alan (p. 27)

Max, Nelson L. "Carla's Island Revisited" 1983

Interactive installation Hardware: Apollo DN660, Cray I Software: Custom FORTRAN – N. Max Collaborator: J. Poduska Jr. Special Thanks: Lawrence Livermore Lab

"Stereo Ice Crystal" 1984

Kodachrome print, 30x30 in. Fujitsu Limited, Tokyo **Hardware:** Fujitsu M380 mainframe, Panafacom U-1200, Dicomed D48R **Collaborators:** F. Hirata, M. Takakuwa

Myers, Rob (p. 26) "Plasm: Fish Sample" 1985

Interactive environment, 6x10 ft. Hardware: Silicon Graphics Iris 2400 Collaborators: R. Myers, P. Broadwell, R. Schaufler

Nisselson, Jane (by invitation) "Model 2" 1983

Print, 16x20 in. with 3D viewer Architecture Machine Group, MIT **Hardware:** PLZT glasses, Polhemus tracking device, Ramtek frame buffer **Software:** Model Kit — J. Nisselson

*Nygaard, Marsha (by invitation) (p. 27)

Oppenheimer, Peter "Views from My Window II" 1985

Print, 16x20 in. with 3D viewer NYIT Computer Graphics Lab Hardware: VAX 11/780, Dicomed film recorder Software: NYIT 3D Graphics System

*Reed, Vernon (p. 14)

Sandin, Dan Kauffman, Louis Day, Don "Array of Julia Set Images" 1985

Thermal printout, 47x56 in. Electronic Visualization Lab University of Illinois at Chicago Hardware: Datamax UV-1, Mitsubishi printer Software: Zgrass — T. DeFanti; Assembly Language — R. Lee

Sandin, Dan Sandor, Ellen "Hedgehog I" 1985

Integral photographic print, 14x11 in. (Art)ⁿ Inc. **Hardware:** Datamax UV-1 **Software:** Zgrass—T. DeFanti

Sorensen, Vibeke (by invitation) "Microfishe" 1985

Color stereoscopic prints, 40x50 cm. California Institute of Technology, Pasadena, CA Hardware: VAX 11/780, Raster Technologies frame buffer Software: B. Vonherzen, D. Whelan

*J. Veeder (p. 35)

Wilson, Stephen (by invitation) "Parade of Shame" 1985

Interactive videotext installation **Hardware:** Apple II + , Vynet Telephone, PacTel Telephone System

EXPLORATORIUM INSTALLATIONS: Artists Index

Peitgen, Heinz-Otto Richter, Peter "Frontiers of Chaos" 1985

Prints, transparencies and videotapes Studies of transitions from order to chaos, ferromagnetic phase transitions and lattice models

Collaborators: MAPART (Center for Complex Dynamics – University of Bremen, West Germany) Sponsored by: Goethe Institute, San Francisco

Shaw, Jeffrey "Invisible Cities—A Narrative Landscape" 1985

Interactive computer graphics work Hardware: IBM PC, Time Arts—graphics subsystem, audio digitizer

- Software: Lumena; special applications software – L. Abel
- Based on the novel of the same name by Italo Calvino

PALACE OF FINE ARTS PERFORMANCE

Rush Dance Group "RAB" 22 min.

Dance with state-of-the-art computer animation Choreography: Patrice Regnier Computer Animation: Rebecca Allen, NYIT Original Score: Carter Burwell

VIDEO ENVIRONMENT:

Contributing Artists Index

Athanas, Charlie Horn, Johnie Hugh "Ralph the Punk" 1985, 1:35

Dark Future Hardware: Datamax UV-1 Software: Zgrass—T. DeFanti

*Beck, Stephen (p. 34)

Blumenthal, Lyn Klonarides, Carol Ann "Arcade" 1984, 9:30

School of the Art Institute, Chicago Hardware: ADO, Quantel DVE & Paintbox, ESS2—Bosch, Sandin Image Processor Software: System Collaborator: E. Paschke

Cotten, Michael (by invitation) "Piece by Piece" 1985, 4:00

Hardware: Ampex ADO, Vectrix, Atari Software: System Collaborators: P. Prince, K. Barbour, P. Knotter, The Tubes

Cuba, Larry "Calculated Movements" 1985, 6:00

Hardware: Datamax UV-1 Software: Zgrass—T. DeFanti

Cubacub, Arturo "La Ci Darem La Mano" 1985, 4:06

Hardware: ADO Software: ADO

Eidos (Milan, Italy) "The Eidomatics Tie" 1984, 2:07

Hardware: Computervision CV CGP 200X, CGP 4000

Software: Proprietary Eidos Animation

Gillerman, JoAnn "Orchid" 1985, 2:00

Aurora Systems Hardware: Aurora 100 Videographics System Software: Aurora

Jonas, Joan "Double Lunar Dogs" 1984, 25:00

CATFUND, Institute of Contemporary Art and WNET-TV Lab Hardware: ADO/Quantel Software: System



Lindquist, Mark (by invitation) "Daydreams" 1985, 6:30

Digital Effects Inc. Hardware: DEC 11/34, Lexidata frame buffer, Dicomed film recorder Software: "C"—G. Miller Collaborator: K. Sebek

Lyon, Douglas "Baby Sphere" 1984, 0:36

Image Processing Lab, Rensselaer Polytechnic Institute, Troy, NY **Hardware:** DeAnza IP5532, Prime 750 **Software:** FORTRAN 77, Straw Raytracer—M. Potnesil

Nakajima, Ko "Mt. Fuji" 1985, 10:00

SEL Video Center, Tokyo Hardware: ACME II, DVE, Ampex ADO, DMO Software: System

Ono, Marilyn "CRT Scenes" 1985, 5:00

Digital Visuals, Inc. Hardware: IBM PC, Dunn film recorder Software: Time Arts—Easel

Schwartz, Lillian F. (by invitation) "Museum of Modern Art Poster— PSA" 1984, 0:30

IBM—Thomas J. Watson Lab Hardware: Proprietary system Software: Prototype program by R. Voss

Snyder, Bob "Spectral Brands" 1984, 15:30

School of the Art Institute, Chicago Hardware: Mirage, EMU Systems microprocessor keyboard Software: In-house

Tannenbaum, Ed "Viscous Meanderings" 1985

Live Performance, 3:40 Hardware: Proprietary image processor Software: E. Tannenbaum Dancer: Marci Jarvil

Vasulka, Woody (by invitation) "The Commission" 1984, 45:00

Hardware: Digital image articulator designed by J. Schier Software: Custom — W. Vasulka

*Winkler, Dean; Sanborn, John (p. 20)

ON-LINE IMAGES: Contributing artists index as of 5/29/85. Complete index will be displayed on site.

Abel Image Research, Hollywood, CA

Clark Anderson Richard Baily Steve Beck Roy Hall Rich Hoover Forrest Leathers Kenny Mirman Randy Roberts Ron Saks Frank Vitz

Art Center College of Design, Pasadena, CA

Charles Esrock Susan Gipson/Robert Schaff Dennis Hudson Koji Kato Sharman Liao Keri Lipshutz Kamran Moojedi Frank Tamura Karen Theusen Rebecca Wilmot Kuei-Ting Yang

California Institute of Technology, Pasadena, CA

Vibeke Sorensen

Cranston/Csuri Productions, Inc., Columbus, OH

John Andrew Berton, Jr.	Marsha McDevitt
Jose Garadis	Sally Pryor
John C. Donkin	Susan VanBaerle
Steve Martino	

Digital Pictures, London, England

Chris Brisco

Grumman Research Center, Bethpage, NY

Dr. Geoffrey Y. Gardner

Independent

David Em, artist Sierra Madre

Lucasfilm Ltd., San Rafael, CA

Loren Carpenter	David Di Francesco	Tom Noggle
Ed Catmull	Tom Duff	Eben Ostby
Don Conway	Craig Good	William Reeves
Rob Cook	John Lasseter	David Salesin

MAGI Synthavision, Elmsford, NY

Darcy Gerbarg, artist-in-residence

New York Institute of Technology, Computer Graphics Lab, Old Westbury, NY

Ned Greene Paul Heckbert Harresh Lalvani Peter E. Oppenheimer

Ohio State University, Computer Graphics Lab, Columbus, OH

Bob Bowers Ruedy Leeman John C. Donkin John J. Miller Anne Seidman Chris Wedge

University of North Carolina, Chapel Hill Dept. of Computer Science, Chapel Hill, NC

Stephen Pizer

Julian Rosenman

George Sherouse

Greg Abram Henry Fuchs Charles Mosher Edward Staab Brian Whitney

West Coast University, Los Angeles

Deborah Sokolove Colman Greg Turk Loura Glusha

ON-LINE ANIMATION: Contributing Artist Index as of 5/30/85. Complete contributor list will be displayed on site.

D. Biedney	S. Fisher	K. Mitchell	J. Sanborn
D. Blake	L. Gartel	B. Monroy	J. Schwartz
D. Bowers	C. Giloth	C. Murphy	S. Sharpe
S. Brennan	A. Greenwald	E. Neumann	B. Shedd
D. Canter	L. Grossberger	T. Onli	G. Smitherman
M. Canter	P. Harrison	M. Pierce	V. Sorensen
J. Casey	K. Hauser	R. Pinciotti	B. Steinberg
C. Cassidy	C. Ludlam	J. Prieboy	J. Veeder
D. Cohen	E. Martin	B. Regardz	L. Weinman
	C. McCormack	M. Saenz	R. Wiggins

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