SIGGRAPH '85 Industry Slide Set Credits

Edited by: Randy Nickel and Gregory MacNicol

The industry slide set is composed of examples of applications, products and services offered by exhibitors at the 1985 SIG-GRAPH conference. The images and products shown represent the very latest technology available to the computer graphics industry. Each slide is printed here in black and white to facilitate locating information about the images. The full color 35mm slide set can be ordered from: ACM Order Department, P.O. Box 64145, Baltimore, MD 21264; 1-800-526-0359, ext. 75.

 Chorus Data Systems 6 Continental Blvd., P.O. Box 370 Merrimack, NH 03054 603-424-2900

Artist/programmer: R.A. Cornett.



This image was developed on the IMiGIT Plus Graphics System from Chorus Data Systems, Inc. incorporating Halo Graphics functions from Medias Cybernetics Inc. Photographic and drawn artwork was digitized through the PC-EYE Video Capture board and edited and collaged using the overlay, scaling and cut and paste capabilities in the IMiGIT Plus Graphics software. Slides were produced with a Lang Videoslide 35 Slide Camera looped to a Sony PVM 1271 Q RGB Monitor.

Chorus Data Systems, R.A. Cornett. See text for slide #1.



3. Chartpak 19700 Fairchild #230 Irvine, CA 92715 714-752-4999

Artist/programmer: Michael Deverich

This image was created using "Picture This" paint software and uses bars, rubber stamp, shading and rotation.

 Autographix Inc. 100 Fifth Ave. Waltham, MA 02154 617-890-8558

Artist/programmer: Nancy Palie

This image was digitized on an Autographix 200 and uses the

custom capabilities to create unique colors with the color palette feature.

Autographix Inc.
 Artist/programmer:
 Kathy McLeod, Larry Dick

This image was designed on the Autographix 200 using Polycurve software with optical camera work by Quali-Color Lab.



415-332-2344 Artist/programmer: Dennis Smith

This was produced on a Zenith Z-100 with AutoCad 1.4 software.

 Artronics/3M 300 Corporate Ct. P.O. Box 408 South Plainfield, NJ 07080 201-756-6868

Artist/programmer: Scott Lewczak

"The Leap" was created using Artronics/3M Merge Paint/Vector software. The background was done in 8-bit paint, the frog was done in vector, then merged together and output on a Matrix QCR.

8. Artronics/3M 300 Corporate Ct. P.O. Box 408 South Plainfield, NJ 07080 201-756-6868

Artist/programmer: Scott Lewczak



The Artronics/3M HVI Vector

Drawing Software with 4000 line resolution with 256 colors was used to create this image which was then output to a Matrix QCR.











Antics Enterprises Inc.
 175 Fifth Ave. Suite 1101
 New York, NY 10010

Artist/programmer: Alan Kitching, Nippon animation staff

Antics software was used by Nippon Animation on a VAX

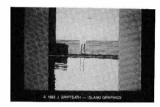
11/750 to create this image which was then captured on a Hitachi one inch video recorder.

10. Antics Enterprises Inc. See slide #9.



 Island Graphics Corp. One Harbor Drive, Suite 300 Sausalito, CA 94965 415-332-5400

Artist/programmer: Jeff Griffeath



"Egret" was created on an IBM PC AT using Island Graphics software and a #9 graphics board.

12. Island Graphics Corp. Artist/programmer: Erol Otus

This image was created on an IBM PC AT using Island Graphics software with a #9 board and a Summa tablet.

13. IBIS
 5775 Lindero Canyon Rd.
 Westlake Village, CA 91362
 818-706-2505



IBIS Model 1400: High capacity (1400 MB) High performance (12 MB/sec data transfer rate) disk system used in scientific computing and signal processing applications.



14. Symbolics Inc.9600 DeSoto Ave.Chatsworth, CA 91313-3578213-478-0681

This slide is titled: "Head and Pedestal in Park"

15. Symbolics Inc. This slide is titled: "Tank and Buds." See text for slide #14.





16. ISSCO 10505 Sorrento Valley Rd. San Diego, CA 92121 619-452-0170

Artist/programmer: Joseph Rauh

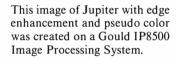
This image was created using ISSCO's DISSPLA/DYNA-MICS Software on a Tektronix 4125 and recorded on a Matrix QCR.

17. ID Systems 6175 W. Shamrock Ct. Dublin, OH 43017 614-766-0440

The ID-200 color graphics terminal is used for business and engineering and process control. Slide represents business graphics from General Motors Co.



18. Gould Electronics Gould Inc., Imaging and Graphics Division 1870 Lundy Ave. San Jose, CA 95131 408-263-7155





This enhanced X-ray photograph of a kidney uses pseudo coloring to show circulation and was created on a Gould IP8500 Image Processing System.



 Focus Graphics Inc.
 Twin Dolphin Drive R303 Redwood City, CA 94065 415-595-6920



This image was produced on a Video Slide 35 film recorder from Focus Graphics.

21. Dicomed Corporation 12000 Portland Ave. Burnsville, MN 55431 612-885-3184



Artist/programmer: Mike Newman

This slide was created using the Dicomed Imaginator Design console and produced on a Dicomed D1485R Film Recorder at 4000 lines of resolution.

22. Evans and Sutherland 580 Arapeen Drive Salt Lake City, UT 84108 801-582-5847

Artist/programmer: Mike Grannan



Data used was originally taken from CT scan data and con-

verted into polygon format and displayed in wire frame on the Evans and Sutherland PS 340. The image was then rendered locally on the PS 340 static color raster display.

23. Evans and Sutherland Artists/programmers: Patty Vosgerau, Steve -Hallmark, Neil Mayer; Evans and Sutherland. Mike Pafford, Bruce Howie; Rediffusion Simulation Inc.



This visual from an Evans and

Sutherland CT5A flight simulation system shows F-15's over the North Carolina coast. Actual terrain is modeled and a 180 degree view is displayed. The CT5A is a real time raster system. Terrain was modeled by Evans and Sutherland. The F-15 was modeled by Rediffusion Simulation.

24. Datacube Inc. 4 Dearborn Road Peabody, MA 01960 617-535-6644 Artist/programmer:



Gloria Simmons

"MaxVideo" was created on a Datacube VG-128 video acquisition and display board at 384x485 resolution and 24 bits per pixel. Datacube Image Processing software with color enhanced northwest directional filter was used.



Artist/programmer: Peter J. deVroede



This image was created on an IBM PC and displayed using the Cubicomp frame buffer.

26. Cubicomp Corp. Artist/programmer: Wilson Burrows

Cubicomp PC-10 solid modeling software, Time Arts' Lumena software, terrain generating software by Peter deVroede, and an IBM PC/AT with a Cubicomp frame buffer were used to create this image.



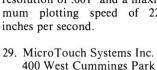
27. Cubicomp Corp. Artist/programmer: Jim Dixon, Amie Slate

Cubicomp PictureMaker software with full color rendering, texture mapping and transparency was used on an IBM PC/ AT to model this Sony video tape recorder.



28. Houston Instruments 8500 Cameron Road Austin, TX 78753 512-835-0900

The Houston Instruments DMP-51/52 MP is a 14 pen C and D size plotter featuring resolution of .001" and a maximum plotting speed of 22



Woburn, MA 01801

617-935-0080 Artist/programmer: Visage Inc.



is used for interactive training.



30. New England Technology Group

400 West Cummings Park Woburn, MA 01801 617-938-8833

Artist/programmer: D. Duplan

The Tech Graphics II Computer Graphics Design station using New England Technology Group's Artist/Illustrator "Paint" package was used to create this image.



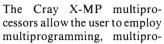
31. New England Technology Group Artist/programmer:

D. Duplan

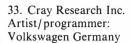
See slide #30.



32. Cray Research Inc. 1440 Northland Drive Mendota Heights, MN 55120 612-681-3073



cessing and multitasking techniques combined with vector processing to provide geometric increases in performance.

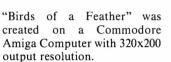


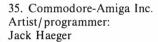
The finite element mesh of a Volkswagen Rabbit is displayed on a Ramtek 9400 using a CRAY X-MP/48. Movie BYU modeling software was used to create this image.



34. Commodore-Amiga Inc. 983 University Ave. Los Gatos, CA 95030 408-395-6616

Artist/programmer: Jack Haeger





"Four Byte Burger (Hold the Mayo)," created on a Commodore Amiga Computer.



36. Eikonix Corporation 23 Crosby Drive Bedford, MA 01730 617-275-5070

Eikonix digital imaging cameras can be used for a variety of applications.

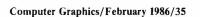
37. Lexidata Corporation 755 Middlesex Turnpike Billerica, MA 01865 617-663-8550 Artist/programmer:



Lexidata Corp.

The LEX 90 is a high performance, ergonomically designed

family of display processors featuring 1280x1024 60 Hz, SOLIDVIEW, and true color capabilities.



38. Ramtek Corporation 2211 Lawson Lane Santa Clara, CA 95050 408-988-2211

Artist/programmer: **Digital Productions**

This shaded model of a space station demonstrates the advance shading capabilities of the Ramtek 2020 Geometry Processing Terminal.



39. Ramtek Corporation Artist/programmer: **Digital Productions**

This slide demonstrates advanced surface shading techniques using the Ramtek 2020 Geometry Processing Terminal.



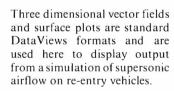
40. West End Film 2121 Newport Place NW Washington, DC 20037 202-331-8078

Artist/programmer: West End Film staff

Film.



41. Visual Intelligence 33 Boston Post Road West Marlboro, MA 01752 617-485-6092



42. Westward Technology Inc. 90 Montvale Ave. Stoneham, MA 02180 617-438-6623

Artist/programmer: PDMS, CAD Center



Westward Technology's ultrahigh performance 3219W com-

bines advanced raster technology with superior ergonomics and product design. When coupled with Westward's Graphics Manager, the 3219W becomes a powerful graphics processor. This model was generated using PDMS software.

43. Megatek Corporation 9645 Scranton Road San Diego, CA 92121 619-455-5590

Artist/programmer: Roman Kuchkuda

"Refractions and Revolutions" was produced on the Megatek Merlin using experimental ray tracing software.



44. Megatek Corporation Artist/programmer: Roman Kuchkuda

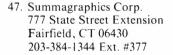
"Christmas Chess" was produced on the Megatek Merlin using experimental ray tracing software.

45. Versacad 7372 Prince Dr. Suite 106 Huntington Beach, CA 92647 714-847-9960

This is a standard Versacad system using the IBM PC/AT computer.



This slide shows a sample drawing created using Versacad on a Hewlett Packard 200 series computer.



The MM1812 is the newest addition to Summagraphics line of digitizers. It offers high resolution, ergonomic packaging and superior reliability with a full 18"x12" active area.

48. Summagraphics Corp.

The ICON 2000 Computer-Aided Design System is a complete turnkey system for producing finished drawings.

49. Polhemus Navigational Sciences P.O. Box 560 Colchester, VT 05446 802-655-3159

The 3Space Digitizer uses magnetic transducing technology to precisely measure the

x,y,z position of any point on a non-metallic model plus the orientation angles of the digitizer stylus.

50. Printronix, Inc. 17500 Cartwright Rd. Irvine, CA 92713 714-863-1900

The Graphprint 4160 is a high resolution matrix line printer for CAD/CAM/CAE output and bar codes. When the PI-80 interface and Versaplot or equivalent software is used, it is compatible with the Versatec V-80 plotter.















51. Peritek Corp. 5550 Redwood Road Oakland, CA 94619 415-531-6500

Artist/programmer: Peritek staff

Landsat data is displayed using the Peritek VCH-Q frame buffer with 512x512x8 display, running on a Perigraf variable architecture graphics system.

52. Peritek Corp. Artist/programmer: Robert Black

"Sombrero" was created using a Peritek VCH-Q frame buffer running on a Perigraf variable architecture graphics system.



Artist/programmer: Frank Croft



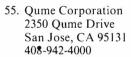
MODRECTIVE VIEW OF YOSEPITE WALLEY

© 1985 F CROFT — I²S

This image perspective was created using a Model 75 Image Processor with the System 600 software package.

54. International Imaging Systems Artist/programmer: Arif Janjua

Image enhancement on digital X-rays was performed using a Model 75 image processor and S600 software.



Qume Corporation manufactures a full line of graphics terminals designed for business, engineering, scientific and CAD/CAM applications.

56. General Electric Co.
Projection Display
Products Operation
Electronics Park
Bldg. 7-205
Syracuse, NY 13221
315-456-2152

General Electric "Talaria" projection TV system.







Benson Inc.
 2690 Orchard Park Way
 San Jose, CA 95129-2059
 408-945-1000

The Benson Colorscan 800, a high-resolution ink-jet plotter, and the Color Image Processor combine to give you pixel-for-

pixel color duplication of the entire CRT screen image. No additional software or controllers are needed.

 Silicon Graphics Inc.
 630 Clyde Court Mountain View, CA 94043 415-960-1980

Artist/programmer: University of California, San Diego

Molecular models of Cytochrome P450 modeled on the Iris 2400 workstation.

59. Silicon Graphics Inc. Artist/programmer: Creative Visual Software

Aircraft model data was provided by Replicore from Creative Visual Software and displayed on the Iris 2400 workstation.

60. Adage Inc.
One Fortune Drive
Billerica, MA 01821
617-667-7070
Artist/programmer:

Tim Van Hook

This slide was produced on the Adage 3000 Display System

with experimental ray tracing microcode. Data is courtesy of Matra-Datavision and consists of 9300 polygons.

61. Adage Inc. Artist/programmer: PDA Engineering

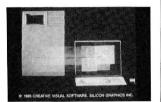
Data from PDA Engineering software consisting of 426 bicubic surface patches is displayed on the Adage 3000 Display System using experimental ray tracing microcode.

62. Hewlett-Packard 16399 West Bernardo Dr. San Diego, CA 92127 619-487-4100

This slide was created using HPDraw software and an HP 3000 computer system. The drawing was stored on a magnetic tape and sent to an independent DICOMED service bureau for processing.













63. Summagraphics Corp. 777 State Street Extension Fairfield, CT 06430 203-384-1344 Ext. 377

The SummaMouse is a low cost, high reliability digital mouse for menu selection, graphics and text.



64. Evans and Sutherland 580 Arapeen Drive Salt Lake City, UT 84108 801-582-5847

Artist/programmer: Russ Athay and Eric Swanson



Adenosine Monophosphate model displayed on the Evans

and Sutherland PS 330 color shadow mask calligraphic display demonstrates the outstanding graphics of the MOGLI molecular modeling software package.

65. Eikonix Corp. 23 Crosby Drive Bedford, MA 01730 617-275-5070

Product: Eikonix E-Z Scan Model 4434



The Eikonix E-Z Scan Model 4434 is a large format scanner

for inputting drawings up to 36"x46" in size in less than 4 minutes and without electronic seaming.

66. Ramtek Corp. 2211 Lawson Lane Santa Clara, CA 95050 408-988-2211 Artist/programmer: **Digital Productions**



This screen image taken from the Ramtek 2020 Geometry

Processing Terminal demonstrates local 3D surface shading and hidden surface removal using 2020 hardware.

67. Gould Electronics Gould Inc., Imaging and Graphics Division 1870 Lundy Ave. San Jose, CA 95131 408-263-7155



This synthetic digital terrain model was created on the Gould IP8500 Image Processing System.



68. Houston Instrument 8500 Cameron Road Austin, TX 78753 512-835-0900

"Plotter graphics ends boardroom boredom." Use of Houston Instrument's PC Plotter, a four pen digital plotter, has helped managers present cumbersome statistical data in an easy to understand fashion.



69. Dicomed Corporation 12000 Portland Ave. Burnesville, MN 55431 612-885-3184

Artist/programmer: Mike Newman



This image was created on the Dicomed Design System and imaged on the Dicomed D148SR film recorder at 4000 lines of resolution.

70. Dunn Instruments 544 Second Street San Francisco, CA 94107 415-957-1600 Artist/programmer: Joni Carter



This image was created on an Aurora System and captured with the Dunn Instruments film recorder

71. Westward Technology Inc. 90 Montvale Ave. Stoneham, MA 02180 617-438-6623

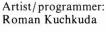
Artist/programmer: Applied Research of Cambridge Ltd.

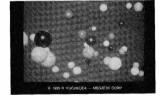


Westward's high performance

3220W color graphics display offers 256 colors from a palette of 16 million hues. The non-interlaced screen provides remarkable stability and clarity. When combined with the Westward Graphics Manager, the 3220W becomes a highly intelligent graphics processor with its own local storage. This image is from Applied Research of Cambridge Ltd.

72. Megatek Corp. 9645 Scranton Road San Diego, CA 92121 619-455-5590





"Reflecting Balls" was produced on the Megatek Merlin using experimental ray tracing software.

73. ISSCO 10505 Sorrento Valley Rd. San Diego, CA 92121 619-452-0170

Artist/programmer: John Huszar

This slide was produced using ISSCO'S DISSPLA software and processed at MAGI on a Celco film recorder.

Benson Inc.
 2690 Orchard Park Way
 San Jose, CA 95152-2059
 408-945-1000

Benson was the first to produce both the 400 d.p.i. and 508 d.p.i. electrostatic plotters. Because of Benson's exclusive quadrascan head, it is now possible to get final-drawing quality at electrostatic speed.

75. NEC Electronics 401 Ellis St. Mountain View, CA 94039 415-960-6000 Ext. 6184 Artist/programmer: Chris Cross

NEC Dual Port Video RAM.



D-PICT Software running on a VAX/VMS system was used to create this image.

Litsa Parker

Silicon Graphics Inc.
 630 Clyde Court
 Mountain View, CA 94043
 415-960-1980

Artist/programmer: Paul Haeberli

The Iris 2400 engineering workstation is designed for interactive color graphics and computing applications.











78. Adage Inc.
One Fortune Drive
Billerica, MA 01821
617-667-7070
Artist/programmer:

Artist/programmer: PDA Engineering

Data from PDA Engineering consisting of 720 bicubic surface patches is displayed on an Adage 3000

face patches is displayed on an Adage 3000 Raster Display System with experimental ray tracing microcode.

79. GTCO Corporation 1055 First Street Rockville, MD 20850 301-279-9550

The Macintizer (Macintosh integrated digitizer) plugs into the Macintosh mouse port allowing absolute input without software modification.



80. Nicolet Computer Graphics Division 777 Arnold Drive Martinez, CA 94553 415-372-7568



The Nicolet Zeta 836 8-pen plotter features an integral controller with RS-232 and/or

IEEE 488 interfaces and speeds to 25 ips, 2g acceleration. Push button scaling, windowing and liquid ink options are available.