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Making it in the '90s

CADKEY To Feature <u>CAD/CAM SOLUTIONS FAIR</u> At NDES '90

Third-party design and manufacturing solutions integrated with CADKEY's products will highlight the National Design Engineering Show '90 at Booth #218, McCormick Place North, Chicago, Illinois, February 26 to March 1, 1990. The **CAD/CAM SOLUTIONS FAIR** will provide participants with hands-on experience in CAD, CAE, CAM, and CIM through step-by-step demonstrations and tutorials using CADKEY's products and 22 third-party products related to surfacing, design analysis, networking, scanning, facilities management, sheet metal unfolding, conceptual design, plastics, stereolithography, numerical-control machining, quality-control inspection, reverse engineering, design-productivity tools, and more.

Among the third-party software products to be featured in integrated applications with CADKEY 3™ are:

- SURFCAM™ - surfacing software by SURFWARE, INC.
- VSA™ - simulation software for variation analysis by APPLIED COMPUTER SOLUTIONS.
- CADNET™ - networking software for DOS and UNIX CAD data bases and other productivity tools by CADNET, INC.
- ArborScan™ and LogoScan™ - raster-to-vector conversion software by ARBOR IMAGE CORPORATION.
- GeoPoint IV™, GEOCIM™, and GEONEST™ - sheet metal unfolding, numerical-control tool-path-generation, and fabrication software by ANDERSON-O'BRIEN, INC.
- RenderMan™ - Conceptual-design tools by Pixar.
- HI-PRO™ and PROFOLD™ - two, sheet metal application packages by APPLIED PRODUCTIONS, INC. HI-PRO is a machine-tool-independent, numerical-control programming system. PROFOLD is a sheet metal unfolding package.
- Acu-Carv™ - computer-aided manufacturing software by OLMSTEAD ENGINEERING.
- PROTOTYPE EXPRESS™ - stereolithographic prototyping services by PROTOTYPE EXPRESS.
- DesignView™ - Conceptual-design tools by Premise.
- INERTIA™ - a finite-element-analysis package by MODERN COMPUTER-AIDED ENGINEERING.
- CADJET™ - digitizer-tablet overlay and other productivity tools by HLB TECHNOLOGY.
- CADPUNCH™ - sheet metal unfolding and punch-press programming software by N/C SYSTEMS DESIGN, INC.
- CONCEPT™ - CNC and NC CAM software by PMX, Inc.
- TMconcept™ and faBEST™ - Plastics and injection-mold software by Plastics and Computer, Inc.
- CADView™ - Conceptual-design tools by Cubicomp.
- UNFOLD™, FabriCAM™, FabriVision™ - Quality-control, inspection, and sheet metal software by MetalSoft.
- CAM/TOOL™ - CAM software by Blue Chip Systems.
- SmartCAM™ - CNC programming system by Point Control Company, to be demonstrated by Ellison Machinery.

---- FASTSURF™, PS™, CK/MOLD™, RTBOM™ - FASTSURF is surfacing software by FASTCUT NC SERVICES. PS is software by Parametric Solutions for parametrically generating CADL™ (CADKEY Advanced Design Language) programs. CK/MOLD is software by Marketech Systems for parametrically creating injection-mold bases. RTBOM is real-time bill of material software by PFB Concepts, Inc. PFB Concepts will demonstrate all of these products.

Several manufacturers have contributed to the **CAD/CAM SOLUTIONS FAIR** by generously loaning equipment.

- ---- Computers courtesy of COMPAQ CORPORATION.
- ---- Digitizing tablets courtesy of Summagraphics.
- ---- Mice courtesy of Logitech.
- ---- CNC machining center courtesy of MHP.
- ---- Cyclone CNC lathe courtesy of Denford Machine Tools Ltd.
- ---- MicroVal Coordinate Measuring Machine courtesy of Browne & Sharpe Manufacturing Company.

CADKEY To Participate In Multi-faceted Program at NDES

In addition to the **CAD/CAM SOLUTIONS FAIR**, CADKEY and participating third parties, in association with the American Society of Mechanical Engineers and Cahners Exposition Group, will participate in four panel-discussion seminars.

On Wednesday, February 28, from 9:00 to 11:00 a.m., NDES Session 35, **CAD: Basics of Operations and Applications**, will include two seminars. One seminar, **From Decision to Drawing Board**, will discuss CAD versus conventional design, and the relative merits of the DOS and UNIX operating systems for the initial stages of computer-aided design and prototyping. A second seminar, **CAD Applications During the Design-Engineering Process**, will focus on the uses and advantages of implementing CAD for pre-production. Panelists will address low-end modeling, model analysis, rendering, and prototyping

From 2:00 to 5:00 p.m. on February 28, NDES Session 36 will present two seminars on the topic: **Integrating CAD into Corporate Operations**. One seminar, **Design to Manufacturing: the Translation**, will examine the advantages and limitations of the translation from computer-aided design to computer-aided manufacturing. The discussion will highlight the relative merits of direct translators and IGES translators between CAD and CAM, and emphasize practical applications of theory. In the second afternoon seminar, **The Corporate Decision: Converting to CAD**, the panelists will discuss how a company's selection of the most appropriate CAD system for its needs, and the use of scanning as an initiation into CAD, can produce an efficient conversion to CAD. Once again, the panelists will emphasize practical applications of theory.

Making it in the '90s **To Be A Special Show Attraction**

Cahners Exposition Group of Stamford, Connecticut, managers of the National Design Engineering Show, have adopted **Making it in the 90s** as a *special show attraction*. CADKEY's theme will be featured in Cahners' direct-mail campaigns, advertisements and press releases.

Discounted admission tickets to the exhibit areas of NDES '90 will be available. Contact Danielle Cote, CADKEY's Events Manager, one month before the show. Telephone: (800) 654-3413 or (203) 647-0220. Admission to the exhibit areas does not include admission to NDES '90's conferences and seminars. For admission tickets to the conferences and seminars, contact Customer Service, Cahners Exposition Group, P.O. Box 3833, 999 Summer Street, Stamford, CT 06905. Telephone: (800) 255-7798 or (203) 964-0000.

Welcome New Dealers!

CADKEY takes great pleasure in announcing that four new dealers have recently joined us.

New CADKEY(R) Dealer
Micro Arts, Inc., Jerry Wetzel, CEO.

New DataCAD(R) Dealers
Logix Data Systems, Al Steiner, President.
Atlantic Computer Systems, Inc., Norm Savoy, Owner.
Computer Graphic Systems, Sam Baba, Owner.
Micro Arts, Inc., Jerry Wetzel, CEO.

We look forward to a long and mutually profitable relationship with each of you. And, if we may be of service to you, please do not hesitate to call us at (203) 647-0220.

DataCAD Adds New Drivers For Graphics Cards

DataCAD(R) now supports a vastly expanded number of graphic-display cards. The graphic-display cards are listed in alphabetical order with their maximum resolutions.

GRAPHICS ADAPTER	MAXIMUM RESOLUTION
ATI VIP VGA	800 x 560
Calcomp Drawing Card	1280 x 1024
DGIS Compatible Graphics Card	Variable
Metheus Models 1104, 1008, 1124, 1128	1024 x 768
NEC MVA 1024	1024 x 768
Orchid Prodesigner VGA	1024 x 768
Paradise VGA Professional	800 x 600
Pixelworks Clipper Series ***	1280 x 1024
STB VGA	1024 x 768
TIGA Compatible Graphics Cards	Variable
Video 7 VRAM VGA	1024 x 768
VMI Cobra Plus	1024 x 768

*** The Pixelworks device driver is a full display-list implementation that uses extended memory, hardware-expanded memory, or software-expanded Memory.

NOTE: In order to attain the maximum resolution, some of the graphics cards listed above must have additional RAM installed. Without being fully populated with RAM, the resolution will be limited.

Pixelworks, Inc. and CADKEY, INC. Announce Graphics Controller Promotion For CADKEY Dealers As Well As DataCAD Dealers

Effective immediately and through April 15, 1990, Pixelworks is offering a special, one-time DISCOUNT PURCHASE COUPON to all authorized CADKEY(R) dealers for a Pixelworks graphics controller of choice for demonstration of the latest CADKEY product. The COUPON also provides a free GEM and Microsoft Windows 286/386 driver that works with the graphics controller (a $190 value). These drivers allow you to run Desktop Publishing applications, such as Ventura Publisher™ and Aldus PageMaker™.

"Pixelworks graphics controllers provide unsurpassed performance, flexibility, and productivity enhancements for CADKEY users," said Richard Horowitz, Pixelworks' Vice President of Sales.

These controller families support multiple resolutions and colors. This approach allows CADKEY 3™ to handle large video screens and multiple views without limitation. Other benefits are:

- o   Uses system memory efficiently - 18K driver size.
- o   Direct non-HALO device driver.
- o   CADKEY certified.

- o   Compatible with CADKEY rendering module - CADKEY RENDER™.
- o   Integrated driver.
- o   Single/Dual monitor solutions.
- o   1280 x 1024 and 1024 x 768 resolutions with 256 colors.
- o   Support for both IBM PC/AT and IBM PS/2 Micro Channel (Bus master) and compatibles.
- o   The same product also provides maximal performance on the latest DataCAD(R) product.

"With this offer," Horowitz concluded, "CADKEY is providing CADKEY dealers an opportunity to demonstrate in-house performance with a state-of-the-art graphics controller."

CADKEY dealers, call Carol Stevens at CADKEY for your COUPON today!

TRAINING SCHEDULE AT CADKEY, INC.

We have Training dates at CADKEY's World Headquarters in Manchester, Connecticut, scheduled through February 1990. Please call Lisa Varvelli in the Product Support Department to register, (203) 647-0220.

Course	Jan.	Feb.
Introduction to CADKEY 3	8-10	12-14
Advanced Geometric Modeling	11-12	15-16
Introduction to CADL	15-17	
CADKEY SOLIDS	18-19	19-20
CADKEY Dealer Training		5-7
DataCAD Dealer Training	29-31	26-28

CADKEY/DataCAD TRADE SHOW UPDATE

See CADKEY 3™ and DataCAD(R) at these trade shows in early 1990:

NATIONAL ASSOCIATION OF HOME BUILDERS
Jan. 19-22, Georgia World Congress Center,
Atlanta, GA, Booth #3850.

NATIONAL DESIGN ENGINEERING SHOW
(NDES '90), Feb. 26 to Mar. 1, McCormick
Place, Chicago, IL, Booth #218.

Call Danielle Cote, Events Manager, for the availability of discounted admission tickets one month before the show.

CADKEY/DataCAD at International Trade Shows

CONSTRUCTA '90, International AEC Exhibition
and Congress, Feb. 1-7, Hannover,
Fed. Rep. Germany, SOFT-TECH.

CeBIT '90, World Center "Office-Information-
Communication," Mar. 21-28, Hannover Fair,
Hannover, Fed. Rep. Germany, SOFT-TECH.

MICAD '90, Feb. 13 -16,
Parc des Expositions, Halls 1/2,
Booth #B34, Paris, France, CADKEY, INC.

CAD/CAM '90, CAT and AEC Show, Mar. 27-29,
Birmingham, U.K., ECSL-CADKEY and SPIRIT
AEC Software Technology, Ltd. (Booth #129).

MICROTEX, Feb. 27 to Mar. 3,
Brussels, Belgium, Maxcom.