

onstrating that they have color and graphics capability in the same plane as many of the "high-end" manufacturers. Reinforcing the strength of Apple was ABW Corp. of Ann Arbor, MI. This company demonstrated a device called Teksim[®], which is a read-only-memory (ROM) that plugs into the Apple computer. The \$475 device makes use of the Apple's high-resolution plotting capabilities to emulate a Tektronix 4010-type graphics terminal, but with color.

To place this in perspective for you,

the Tektronix line of graphics terminals are those that virtually every company tries to equal. The Tek terminals are of the monochrome type, but exhibit various degrees of gray scale and high resolutions. Consequently, a device that permits emulation of a Tek terminal, on a raster scan system such as an Apple, is definitely an achievement.

There is a caveat, though. The device is only valuable if you can use it. I don't recommend buying the Teksim just to buy it, but if you are doing

computer graphics on the Apple, and need the enhanced functions that Teksim provides, then by all means add it to your system.

Following this philosophy of purposeful products is Godbout electronics. Bill's latest entry into the S-100 world is called Spectrum[®]. It is a board designed to give you color graphics capability for less than \$400. It can fit into any memory location you have available and delivers composite NTSC video. Although Godbout doesn't tout it, the board is capable of 2D transforms and simulated motion. Bill sees the Spectrum as an ideal board for use in process-control systems—specifically those controlled by an S-100 bus computer system.

MORE INFORMATION

For additional information about products and services mentioned here, contact the companies directly.

ABW Corporation
Box M1047
Ann Arbor, MI 48106
313-971-9364

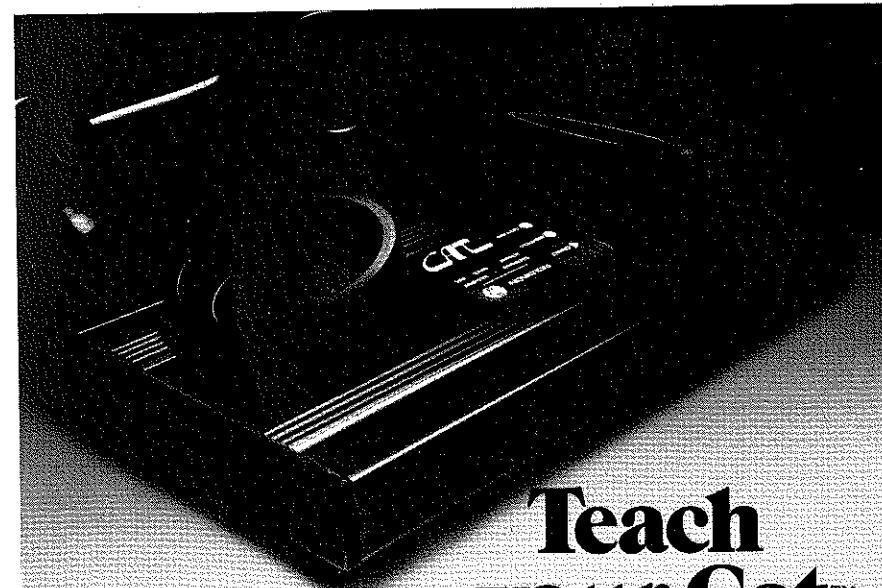
Dave Nutting Assoc.
527 West Golf Rd.
Arlington Hts, IL 60005
312-956-0710

Godbout Electronics
Bldg. 725, Oakland Airport
Oakland, CA 94614
415-562-0636

Microsoft, Consumer Products Div.
10800 NE 8th St., Suite 507
Bellevue, WA 98004
204-454-1315

Radio Shack
1800 One Tandy Center
Box 17180
Forth Worth, TX 76102
817-390-3700

I was under the impression that the Bally microcomputer system was no longer in existence, but at SIGGRAPH, Dave Nutting Assoc. was demonstrating a Bally with their Grafix image editor. This software was powerful and worked well with digitizer tablets and light pens. Nutting did have a machine called the UV1 ZGrass University Machine that is Z80 based and can work in a time-sharing environment. They quote a price of \$2395, but like many machines of this type it all depends on options. I don't know the price of the Bally or even if it was for sale. If you're interested, you might contact the company directly.



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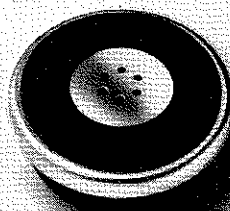
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Record Care, Part 1:
Aqueous Cleaning vs. Organic Solvents

Electron microscopy (Figure 1) shows the principal cause of record wear: small particles of microdust, deposited from the air by gravity, are ground along the record groove by the stylus. Surface noise goes up. Sound quality goes down.

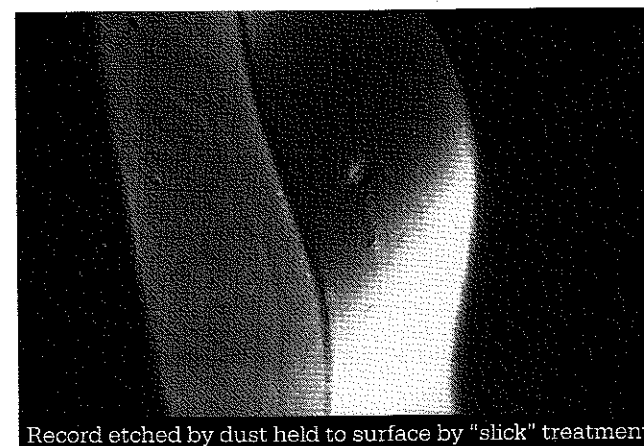


Figure 1

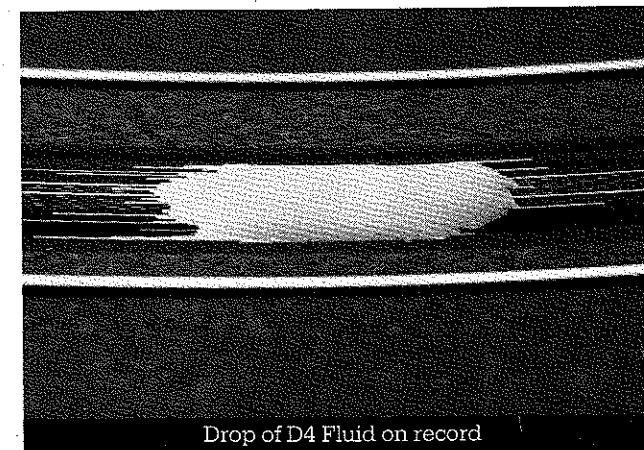


Figure 2

Figure 2 shows a drop of the aqueous Discwasher D4 Fluid, literally lifting dust and contamination out of record grooves. The extraordinarily complex D4 Fluid uses water pure enough for kidney dialysis, along with eleven chemically engineered additives that still results in lower dry-weight residue than most tap water. This formula is amazingly high in cleaning activity, uniquely safe for vinyl and vinyl additives, and preferentially "carries" contamination into the new Discwasher D4 pad.

In some record care products, organic solvents are used rather than water. Organic solvents such as ozone-gobbling chlorofluorocarbons, petroleum distillates (hexane, heptane) and alcohol concentrates are indeed speedy extractors and delivery solvents. They evaporate fast. Some organic solvents can dissolve vinyl stabilizers. Organic solvents may leave a "slick" looking record by treating the disc with other compounds carried in the solvent mix. In doing so, record contamination may also be dried back onto the disc in a nice even layer. Dust is often "held" to the record surface by "treatment."

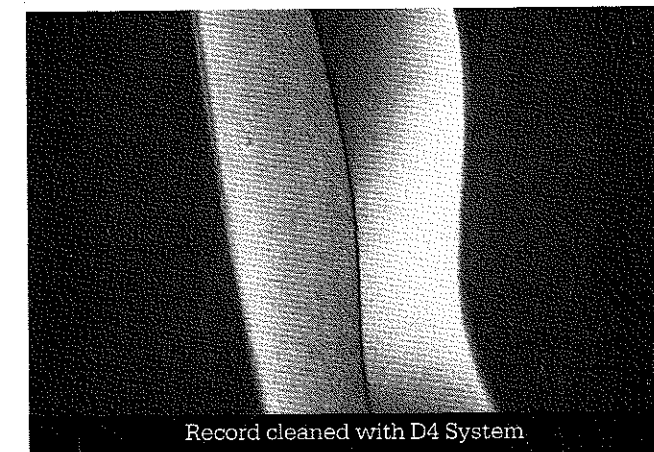


Figure 3

Electron micrograph (Figure 3) shows a record cleaned with the Discwasher D4 System. High technology record care leaves only a clean surface.



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