

## Technology: A Musical Explosion

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# Technology: A Musical Explosion

by Michael J. Wagner

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of long ago, students came to school without headphones attached. Cars did not have cassette players or radios. Music machines were called stereos, record players, Victrolas, or miracles. Many music teachers can remember when their school's record player was "state-of-the-art." Look at yours: Is it a "record changer"? Does it play in "living mono"?

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dig out favorite "45s" and pile a stack on your phone-changer, strap a nickel to the head of your tone arm, or put in an eight-track tape cartridge. If you've kept somewhat abreast of technology, you've probably adjusted both the tracking weight and the anti-skating force of your stylus, cartridge, and tone arm to reduce wear on your treasured records. You may even have set the controls on your stereo's graphic equalizer to enhance the sonic portions of your listening environment.

Yet, with the advent of compact discs (CDs), one has only to insert a disc and press a button for the most error-free sound reproduction imaginable. Simply stated, when sounds are recorded digitally, all changes in the range of 20 to 20,000 Hz and all levels of loudness cover- ing a hundred-decibel range are converted to "bits" (the kind of information computers understand) instead of the continuously fluctuating information that analog tape recorders store.

When you listen to your music, "platter" and wind up your Victrola, you no longer put on a hard rubber

**Digital recording**

have been happening all along. its creation and reproduction—both length away from our profession, some way electronic. Just an arm's alive and thriving, and all of it is in digital sampling? Whether you rec- cessor? What do you know about disc, a synthesizer, or a wind pro- you know how to play a compact how to turn these devices on. Do music teachers don't even know cated music processors. But many erts, equalizers, and even sophisti- tronic components such as amplifi- devices) now use complex elec- You won't find "our music" there the bin labeled "School Music?" ever is "current." Have you found excursion to browse through what- 40" to "Classical." Take a mental from "Pop" to "Jazz," from "Top reading the labels on the bins. Move and down the rows of records, local music store. Move mentally up ment, visualize the layout of your the "high tone" of that last state- 1990s. Now, before getting angry at for the children of the 1980s and students listen to), is a way of the school, read music (the stuff our then, Music (not what we teach in Does it have a "flip-over needle" and play at 78 rpm? Now all that is

**Smaller and better machines**

Today more people are hearing more contemporary music at higher fidelity than at any other time in history. They are playing their music on lighter, more compact, more portable, less expensive players than ever before. And they carry their music with them everywhere. Because of the availability of this technology, our school music curriculum may need to be examined in light of the broadened and increased music-listening habits of today's students. Although this learning sophistication generally occurs within a rather narrow range of contemporary popular music, to-

sumed." your students have already "con- unless you buy music that many of (devices) now use complex elec- You won't find "our music" there the bin labeled "School Music?" ever is "current." Have you found excursion to browse through what- 40" to "Classical." Take a mental from "Pop" to "Jazz," from "Top reading the labels on the bins. Move and down the rows of records, local music store. Move mentally up ment, visualize the layout of your the "high tone" of that last state- 1990s. Now, before getting angry at for the children of the 1980s and students listen to), is a way of the school, read music (the stuff our then, Music (not what we teach in Does it have a "flip-over needle" and play at 78 rpm? Now all that is



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chine that creates percussion sounds and has a computer memory string section (digitally sampled), sweep up to a chord, and then program that sound as a central progression of IV, V, and I at the end of your own composition. It's quite a sensation. The possibilities, the innovations, and the new musical frontiers are there to be used creatively. If you happen to like the sound of handbells or a handbell choir, "punch them up" on your keyboard and have a go at experimentation and composition.

**Computer interfaces**

You can create exceptionally clear and accurate music, and you can also record it by using a Musical Instrument Digital Interface (MIDI) controller. It is now possible to store your compositions in the computer's memory. Depending on the programs you have for your computer, you can write your sounds on a score, play them back, and edit your compositions more precisely than you ever imagined.

**A new beginning**

For a musical reeducation, take a tour of a music store that has these instruments and audio components on display. When you discover that your fondest audio dreams can be realized, you can begin to plan a curriculum that uses the technology to which so many of your students already have access. The educational ramifications are awesome and awe inspiring. The new school music center will combine the traditional stereo with CDs, DATs, MIDI technology, keyboards (possibly a whole guitar, drum, and key-board lab), and microcomputers. Technology has made music an even more intimate art than it was. Listen, and be amazed and dazzled by these technological innovations. Then, realize that understanding how these machines work can only increase your students' fascination with music. You need to learn about technology, enjoy it, and use it in your teaching. The future is beckoning!

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## READING

Thomas A. Harvey: 'How Sony Corporation became first with kids'

### Brand loyalty at a young age

After the first meeting the concept idea heated up very quickly. We got the design centre and advertising people involved. A product planning cycle that would usually take Sony fourteen months was harnessed to launch My First Sony in less than one year.

Once we had the name My First Sony we asked ourselves: why should we send a message to a child that Sony manufactures cheap radios? If we could create a product that made a long-term, favourable impression on children and be comparable in quality with the rest of the Sony line Americans know so well, we'd be building brand loyalty at a young age.

### The target audience

Our target market is adults, generally working couples who are reasonably affluent. Sony is a brand name parents recognize and it connotes a quality image to them. Purchasers of children's products divide into two groups, those who are brand conscious and those who are price conscious. If parents are price conscious, they'll buy an inexpensive toy for their child and if it breaks in two months they'll throw it away. But price sensitivity wasn't our biggest concern - product quality was. If we put out a product that didn't work well, we'd lose a lot of adult confidence that we'd spent years building up.

### Saving for the kids

In focus groups, parents agreed with our premise that there was a niche for quality electronics for kids. But they were sceptical about pricing - most of the products range from \$34.95 to \$89.95. The CD player introduced this year costs \$199.

But quite frankly, even if parents had told us the idea was terrible, we'd still have gone ahead with it. Years ago, when Sony first showed the Walkman to dealers here in the US, they thought the company was crazy trying to sell a \$200 stereo that didn't even record. But the company has a long history of

### Shopping trips

The first thing we did when we started designing the product was to visit toy stores and buy as many electronic toys as we could find. Many manufacturers simply take a well-known character like Mickey Mouse and put his picture on a tape recorder. We wanted My First Sony to look more like electronics products that already existed in the adult market, with special adaptations for kids. For instance, the radios and tape recorders for children had to be more durable and the corners rounded so they weren't sharp.

We also noticed during our store visits that toys for boys tended to be orange and black and toys for girls were pink and purple. We wanted something that would appeal to both sexes and age levels from four to eleven. So we decided to go for bright primary colours with universal appeal for children - red, blue, green and yellow.

### A see-through package

The design team also spent several days in toy stores watching parents buying toys for their children. That led to an important decision about our packaging. We noticed that even though there were signs saying 'Don't Open the Packages' parents always ripped the boxes apart. Parents really wanted to hold and touch the product. So we used a see-through window on the front of the box that allows them to see the entire product without having to touch it.

### Mother knows best

When children's products in toy stores and department stores are produced below \$100, mothers make over sixty per cent of the purchasing decisions. Once you reach \$100, the fathers start getting involved. Children have direct involvement in purchasing when the parent is buying something like an action figure or a GI Joe doll, but not with a product perceived as educational. So we advertise on national television to reach both parents, but

Paul du Gay, "Sony Cultural Studies: the story of the Sony walkman"

avoid Saturday morning cartoon shows which only kids watch. We also run print ads in women's magazines.

### The advertising strategy

We spent about \$2-to-\$3 million to build awareness for the line. Your average toy commercial is a real

fight of fancy for the child. Our commercials are

aimed at parents. We asked our ad agencies to come

up with spots that would assail mom's emotions

rather than her mind. We wanted embraceable kids

from a cross-section of America rather than highly

stylized, up-scale children. The agencies came up

with two variations of the song 'I like pizza pie, I

like macaroni, but what I love is My First Sony.

Print ads show a group of children holding and

### The retail environment

My First Sony has created a new merchandise

category for toy stores and also helped attract a more

affluent customer. We started out selling My First

Sony to up-scale department stores and toy stores

like Toys R Us and Child's World. Toy stores are the

best vehicles for us. They attract customer traffic on

a regular basis and kids drag their parents to them

on the weekends. Now we're also expanding into

some key electronics-retailers like Circuit City and

selling in Europe and Japan.

### Not a toy company

Sony does not want to be in the toy business,

because it's very competitive and price sensitive.

Once someone comes up with a new idea for a toy,

another manufacturer will knock it off and steal

market share like crazy. We're competing for shelf

space with a lot of toy manufacturers, but we see the

toy market as very different than ours. My First Sony

is an electronics line for children. Adult electronics

is gimmicky — we're pre-conditioned to look every

year for a new model of the product we own. But

with children, as long as the product meets their

demands, they won't need another one for four or

five years.

### Expanding the line

This year we introduced five new products. These

include the first CD player for children, a cassette

tape-recorder and a wrist walkie-talkie. Our original

products were versions of our adult products for

### Music and software promotions

product for children.

move into higher-end educational electronics

and record their own voices. In the future, we may

children to sing along with their favourite music

child. For instance, the new cassette-recorder allows

present much more of a learning experience for the

sophisticated and offer interactive capabilities. They

kids. The second generation products are more

We launched a joint promotion with A&M Records.

for example, this fall. It is a sampling program

designed to help build awareness of compact discs

for children. A CD of children's recordings is

packaged inside about 10,000 My First Sony CD

player boxes. We also launched a promotion this

September with Peter Pan Industries. Consumers

who purchase any of the My First Sony tape player

will also receive two free sing-along cassettes.

Source: Harvey, 1988, pp. 34-35