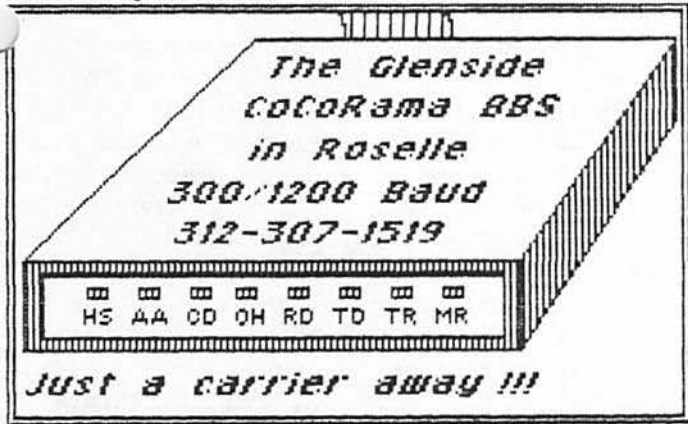


**NEXT MEETING OF  
THE GLENSIDE COLOR COMPUTER CLUB**

Thursday, September 11, 1987 - 7:30pm  
GLENSIDE PUBLIC LIBRARY  
25W. Fullerton Avenue  
Glendale Heights, IL.

**DIRECTIONS:** Glendale Heights is located between Glen Ellyn & Wheaton, IL and Bloomingdale, IL. Fullerton Ave. is West of Bloomingdale Road in Glendale Heights. The Library is about a half a mile down West Fullerton on the Left side from Bloomingdale Road. The meetings are open to all TRS-80 Color Computer 1, 2 & 3 users and owners.



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Tony Podraza

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Staff Artist Thomas Cassell (c)

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**AUGUST NEWSLETTER**

Can you believe it, just one short year has passed since Tandy announced the news of the long awaited CoCo III! I still remember that day as if it was yesterday. As the sun was cresting over the morning skyline of Chicago, I was on the phone with Club V.P. Joe Register making plans to gather as much information possible about the CoCo III. Joe was ready to go on Delphi and be apart of a National Conference hosted by Steve Bjork and I was able to get advance sales flyers about the CoCo III from our friends at the Radio Shack Computer Center in Lombard. In retrospect, it was a REAL EXCITING DAY! I believe one of the most rewarding aspects of all this activity was the ability to get all this new information out to you in a matter of a few days after it took place. The wheels of Glenside were really spinning!

Since it has been about one year since the CoCo III was released, you will find an article in this issue that will discuss just what has become available in the area of software for the CoCo III. I remember stating at our August '86 meeting that it would take a year for 'GOOD' software for the III to hit the streets and every indication seems to be holding true to these words.

Again, you will find the 'Q&A by Floyd' column in this issue. It seems from talking with you that this column was long overdue in making its way into our Newsletter. Another column that has surfaced again is, ONE TANDY CENTER. It has been awhile since we last had this column in the Newsletter, so something must be wrong!

As a reminder, during the September meeting, we will be holding elections. As was stated last month, if you are interested in holding an office position, let me know or line up someone to nominate you during the meeting. Just as a follow-up, there are plans in the making to hold a family outing. We are working with the Cook County Color Computer Club and the Illinois Color Computer Club of Elgin to make this outing

...Continued on next page

...Continued from Page 1

#### AUGUST NEWSLETTER

a GROUP affair. We have not set the date or location as of this publication, but with a little luck we should have this information for the next meeting.

In closing, I really need to pass along some very special thanks to some very special people. As most of you know, early this spring I had an addition put onto my house. The contract we set up called for the construction company to build the shell and we (my wife and I) would finish the balance. Now, I'm no stranger to the use of a hammer or saw, but I'm no card caring carpenter either. I am, however, blessed to have special friends who took the time away from their families to help out. I know that without Bruce Gilmore, Ron Steinberg, Joe Register and David Barnes this dream house addition would have turned into a 'MONEY PIT'! Thanks guys... You are all quite special friends.

OS-9

Lest I be accused of leaving out the Color Computer, the current version of OS-9 for the CoCo 2 is Lv. I, Ver. 2.00.00, and for the CoCo 3 it's Lv. II, Ver. 2.00.01. There are no anticipated new versions of either coming this year. CoCo 3 owners will be happy to hear, however, that the Lv. II development system is expected to be available in the next 60 days.

#### OTHER COCO MATTERS

I received a letter from a concerned CoCo owner recently. He actually wrote to a magazine, and they forwarded it to me.

The letter said that local computer departments had "shuffled" the CoCo to the back of the department and appeared to be placing all the emphasis on MS-DOS. He feared that this signaled the end of his favorite personal computer.

Our terminology "computer department" refers to the computer section or "Plus Computer Center" within a Radio Shack consumer store. If he's seeing the CoCo shuffled in those locations, something is wrong. Our merchandising plan for all consumer stores calls for the Color Computer to be just about the first item you find in the front of every store. That hasn't changed.

In my reply, I told the writer that the CoCo is one of those products that refuses to die... or even slow down. The heaviest sales, as you might expect, occur in the Christmas quarter of the year. But every year, we sell more units than the previous year. Last October -

December, according to InfoCorp, a Cupertino, California research firm, Tandy's share of the PC-compatible unit sales through retail channels was a staggering 41%! (The second place brand was Epson with 14%.) But you know what?? We still sold more Color Computers than MS-DOS machines.

The end of a computer's lifespan is almost exclusively up to you, the consumer. When you stop buying them, it's a pretty clear signal that the end has come. Until then, I told our friend, I don't think CoCo enthusiasts have much to worry about.

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#### REAL PROGRAMMERS DON'T EAT QUICHE!

From The Atlanta Ham, N4HJE-EDITOR

Real Programmers don't eat quiche. They eat Twinkles, Coke and palate-scorching Szechwan foods.

Real Programmers don't write application programs. They program right down to the base metal. Application programming is for dullards who can't do systems programming.

Real Programmers don't write specs. Users should be grateful for whatever they get; they're lucky to get any programs at all!

Real Programmers don't comment their code. If it was hard to write, it should be even harder to understand and modify.

Real Programmers don't draw flow charts. Flow charts are, after all, the illiterate's form of documentation. Cavemen drew flow charts, look how much good it did them.

Real Programmers don't read manuals. Reliance on a reference is hallmark of the novice and the coward.

Real Programmers don't write in FORTRAN. FORTRAN is for wimp engineers who wear white socks. They get excited over finite state analysis and nuclear reactor simulation.

Real Programmers don't write in BASIC. Actually, no programmers write in BASIC after reaching puberty.

Real Programmers don't write in PASCAL or any other sissy computer science languages. Strong typing is a crutch for people with weak memories.

## THE COLOR COMPUTER III

-ONE YEAR IN REVIEW -

As was mentioned, August 1987 marks the first anniversary of the CoCo III. The burning question back then was (and still is); "WHAT KIND OF SOFTWARE WILL BE AVAILABLE?" As we all know, a computer is only as good as the programs available for it. The general feeling a year ago was that it would take at least a year to see the kind of software that would best utilize all of the CoCo III's expanded power and graphics. Before we go into an outline of available programs, take into account the following statement.

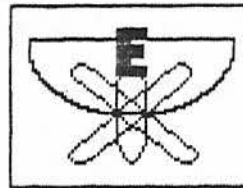
When the CoCo III first came out, the biggest cry was, COMPATIBILITY! Everyone wanted their favorite program ported over to the CoCo III format. Be that the 80 column screen or the expanded graphic palettes. So at first most of the programming activity was spent designing or re-designing programs we had enjoyed for the CoCo I & II. Just about everyone using ADOS wanted an ADOS 3. Anyone using either Telewriter 64 or Elite Word wanted it up-graded and probably the biggest request for a software patch came from CoCoMax users. Well, we got the patches and a new program called ColorMax to boot! So, in a very short year we have seen most not all popular programs either patched or re-designed and what the future holds seems promising.

Now that we understand what it took to get to this point, lets look at some of the different software that is available for the CoCo III.

To start off, we must place the OS-9 Level II Operating System high on the list of great new software. For you graphic nuts, ColorMax seems to be the standard for all others to follow. In the way of text processing programs, there is Telewriter 80 and Elite Word 80 available. For a top notch database program, Sculptor will perform and at times out-perform the best data base program on ANY computer! Currently, Tandy has released three space age graphic programs (Rogue, Koronis Rift & Rescue on Fractalus) that best use the CoCo III's enhanced graphics and speed. Other quality game type programs are Nuke the Love Boat & The Wild West. For a real super tele-communication program, The Wiz is fast becoming the standard for others to follow. The one area where the CoCo III is really shining is in the Public Domain or ShareWare programs. Every time I go onto either Delphi or CompuServe, there is always new programming available. Also, the increasing

number of programs found in Rainbow will show you that there is and will continue to be a great deal of interest for this new computer.

The best has yet to come! In the coming weeks/months there will be some REAL EXCITING programming available. Tandy will be releasing Multi-View (a user-friendly graphics interface for OS-9 Level II) and the OS-9 Development System (will include a complete editor/assembler with full screen editing and special I/O drivers). Multi-View will make using OS-9 VERY EASY and the Development System will enable programmers to produce high quality software without having to design all new commands. When it comes to future games for the III, look first at Diecom Products. It is our understanding that they have six all new game programs just about ready for retail sales.



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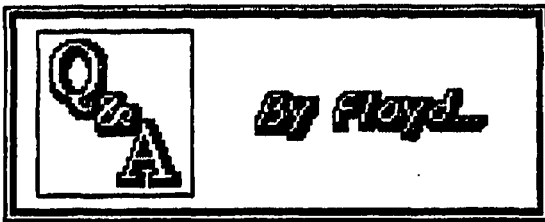
RUSH CALEY



In closing, I have to part a few words of wisdom upon you about up-coming software. With the advent of the expanded 512K memory, the price of software will also expand! The reason for this is quite simple. With added memory, programmers can create larger code and increase the programs function use (i.e. in memory help files, internal buffers, windowing, quick sorting and user-friendly functions). All of this extra activity will not be added into a program 'free of charge'. You as the end user will be paying for the extra bells and whistles. If the Color Computer's future is as bright as this past year has been then let your dreams be your guide...

Q: I am having problems BOOTing OS-9 Level II on my CoCo 3. I am using a Multi-Pak (not up-graded) and an old RS Controller under DOS-1.0. If the computer has been off for an hour or so, no problem, Level II works fine. However, once the computer heats up, Level II will not BOOT. Is the problem in the Computer, Multi-Pak, Controller or all of the above?

A: The OLD RS controllers are NOT reliable in their operation at 2 MHz, and there is no fix for them. It sounds like you need a newer disk controller to run OS9 Level II, for that runs at 2 MHz all the time. Note that MOST old RS controllers simply won't boot OS9 Level II on a Coco 3. Some appear to do so most of the time, but still are unreliable. Yours appears to be in the latter category. Still...if it is the old cat. #26-3022 controller that requires 12 volts, it CAN NOT be used (even with a Multi-Pak) with OS9 under Level II on a CoCo 3.  
—Marty Goodman, Delphi SIG



Q: I would like to be able to use the telecommunication program, GREG-E-TERM, in a computer to computer fashion. The problem is one of the computers is cassette based and none of the DISK TO TAPE copy programs I have will transfer a working copy. How can I get GREG-E-TERM onto tape?

A: Plug your cassette into your disk based computer and LOADM"GREGTERM". DON'T EXEC THE PROGRAM! Once GREG-E-TERM is in memory type in CSAVEM"GREGTERM", &HEOO, &H66FE, &HEOO. This will save GREG-E-TERM to tape in a working format. There are a few draw backs. GREG-E-TERM does not have any cassette I/O functions and it will not produce a High Resolution Screen when used with a RS-232 Pak. However, you can get the HiRes screen when connected through the Serial Port in the back of the CoCo. By using this format, GREG-E-TERM makes a nice Terminal Program for running an OS-9 Shell from your CoCo 3 to your CoCo 2 in another room.

---Bob Sturnfield

Q: Lately I am experiencing quite a few I/O ERRORS when loading or saving a program to disk. I have cleaned the disk drives with the Disk Cleaning Kit from Radio Shack, but, I am still getting a lot of I/O ERRORS. Whats the problem?

A: Just cleaning the disk drives are not enough. Regular cleaning of the disk controller contacts is as important as using a Disk Cleaning Kit. You can clean your disk contacts in a number of ways. Un-plug your controller (make sure everything is turned OFF!) from the computer or Multi-Pak. Run a pencil eraser up and down the exposed contacts. This will clean the dirty contacts on your controller. Make sure that you wipe off all the eraser particles from the contacts. This should correct the problem and get you back on-line without errors. The reason you need to clean these contacts is because electricity is running through these contacts. Electricity loves to collect dust and dust will block or short out any contact.

Q: I love playing games on my CoCo. About 6 months ago, I bought a CoCo 3 and the three new game programs from Radio Shack (Rogue, Koronis Rift & Rescue On Fractalus) and enjoy playing them. My question is, "Who else will be selling game programs for the CoCo 3 other then Radio Shack?"

A: I the next issue of Rainbow, look at the Diecom Products ad. Diecom is releasing six (6) new game type programs for the CoCo 3. In addition to Diecom, we should be seeing some real good game programs from vendors currently not advertising in the Rainbow Magazine.

Q: Whats the difference between a Mouse and a Joystick?

A: The Mouse and Joystick work much the same as each other. Both will allow you to move the software cursor around the screen. If you want something just for game playing, then use a Joystick. It will give you the best control of the cursor. However, if graphics are your thing, then using a Mouse over a Joystick is like night and day! The Mouse will allow you to use it like a pencil and give you better control of the cursor when drawing a picture. If you like game playing and graphics, well, I would suggest getting both for the best performance with any software program you are using.

## ONE TANDY CENTER

By Ed Hathaway

About a month or so ago I was talking with club member Ray Grundy. Ray is a CoCo user and a Ham Radio Operator and he informed me that Tandy/Radio Shack will be selling Ham radios at their retail outlets. Understandably, Ray was real excited about this news and I too shared in his zest. It was not until a few days latter that I realized that current and future Ham Operators just might replace us Color Computer owners!

Just think for a second the last time you opened the doors of your local RS store with a question about the CoCo. Can you remember the blank look in the sales persons eye as he shrugged his shoulders and tried to tap dance around your question. I know we all have heard the official RS response to CoCo questions... "NEXT" ... or ... "I DON'T HAVE THE TIME TO LEARN ABOUT THE COLOR COMPUTER". Now this is just the response with hardware questions, software question, well, theres a completely different set of official answers!

Once RS stores start to sell Ham Radios and their related equipment, us Color Computer owners won't be alone when it comes to receiving blank looks. It will become our common bond with the Ham Operators, our link to yet another source of frustrated friends. As RS veterans in the RS Shuffle, we could even conduct seminars on how to react to the dreaded 'shrugging shoulder syndrome'. I can see it now, a potential Ham Radio buyer enters a RS store, asks a few questions, buys the radio (because it's on sale) and tries to use it like a CB! 'AUH... BREAKER BREAKER... AUH... HOW BOUT A RADIO CHECK... AUH... ANYONE GOT YOUR EARS ON...' Can you image someone in South America trying to figure if this is some kind of secret code or just another gringo under the influence of fire water. If the task of correctly plugging in a ROM cartage into a CoCo for a store demonstration is such a challenge, then you can well image how you will be introduced to all the Federal Rules & Regulations in operating a Ham Radio... "NEXT!"

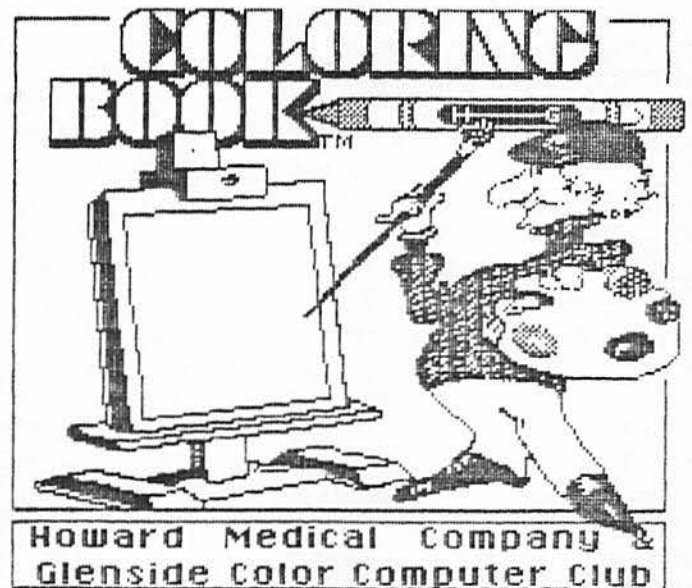
Since the cost of a Ham Radio and it's related equipment will equal that of a complete CoCo system, you have to wonder how much training the RS sales people will receive. Ham Radios can be compared in part to computers. You just can not buy the system, take it home, plug it in and use it as if it was just another electronic gismo. There are a number of guidelines YOU MUST FOLLOW before you can start to broadcast.

There are tests you must take for all the different broadcast levels you wish to be on. The equipment requires a little more skill to connect then just plugging it into an outlet. And all the different questions and support you will need after you make the purchase won't be found in a general electronics retail store. I don't have enough fingers to count how many CoCo cassette jacks I found crossed wired by a RS sales person and NOW they are going to sell Ham Radios! Is the Ham Radio community really ready for this? Just think of the disclaimer you might have to sign before you are able to buy a RS Ham Radio. Well by signing that disclammer, the sales person can then shrug his shoulders, LEGALLY!

After being in the CoCo community for over six years, some of the store reactions to my questions have become classic. Almost all came during the first year or two when help was really needed, but not found. It was not until the user group was formed did I realize that there was a whole different world out there ready to lend support. However, it took almost two years to find this world and I was persistent! I almost 'OD' or ROM cartage software! Now the same people will be selling Ham Radios! What will be next, Build your own Home Nuke Plants or Space Shuttle kits?

---

*Ed Hathaway, a Marketing Account Executive for a national publishing company is the President and Newsletter Editor for the Glenside Color Computer Club.*



## COMPUTERS and AVIATION

by Tony Podraza

### High Flight

by Maj. John Gillespie McGee, Jr.

Oh, I have slipped the surly bonds of  
earth,  
And danced the skies on laughter-  
silvered wings;  
Sunward I've climbed and joined the  
tumbling mirth  
Of sun-split clouds--and done a hundred  
things  
You have not dreamed of--wheeled and  
soared and swung  
High in the sunlit silence. Hov'ring  
there  
I've chased the shouting wind along and  
flung  
My eager craft through footless halls of  
air.  
Up, up the long delirious, burning blue  
I've topped the wind-swept heights with  
easy grace.  
Where never lark, or even eagle, flew;  
and, while with silent, lifting mind  
I've trod.  
The high untrespassed sanctity of space,  
put out my hand, and touched the face  
of God

I have tried for four months to continue in the genre of electronic humor to no avail. Since 'The Tonkin Reader' series was completed, I've not really had anything strike my fancy... until now. I'm sitting on the grounds of the Experimental Aircraft Association. Over the past five days, I have watched over thirty hours of aerobatics, high speed and photo passes by WWII aircraft, a 727 & a 747, civilian aircraft, rotorcraft, homebuilts and light commercial craft. I have witnessed a tribute to all the missing bomber crews that have fought for our freedoms. They were honored by the exhibition of "The Missing Man" formation with the EAA's B-17 taking the designated role of the 'missing man' (talk about 'easy grace'). With all of this fresh in my memory, you might think that computers would be the furthest thing from my mind. Well, I have to admit that they aren't #1, but they are in the 'Top Ten'. As long as man has seriously contemplated flight, he has been computing. I refer to items such as weight to lift ratios, stall speeds, fuel versus time factors, time to destination, fuel to destination, etc.; the list is endless. During the dawn of aviation, all of this computing was done by the human mind. Think

of it...the human mind...able to take into consideration hundreds of minutes and compute decisions that will accomplish the impossible...put a man in the sky like a bird, point him toward a destination, and against seemingly insurmountable odds (weather, wind, blinding sun, moonless night, mechanical failure) get him to that destination. And then get him back on the ground in one piece. "Hurrah for the human mind," you say, "What about the computers?" Consider this...with over 200,000 different aircraft registered with the FAA, and perhaps only 10% of those in the air at any one time, that's still 20,000 aircraft that are buzzing around up there. And that's only US registered craft. Sophisticated RADAR tracking systems help keep tabs on aircraft positions, dump that info to a screen, label the positions with altitude, airspeed, direction and ID. How? Our country entered WWI with aviators flying Nieuports, Spads, and Sopwiths after receiving flight training in JN-4 "Jenny's". In WWII, our airmen trained in "Link Trainers", an early flight simulator for instrument flight training, before they got their hands on AT-6's and SN-J's. Today, computer-controlled simulators not only allow the Guardians of our Skies to train for instrument flight, but also give them complete sensory input; audio, tactile, and visual (yes, visual); through computerized feedback from their controls and their graphic screens generating mock combat situations with images generated from RAM or LASER disc (remember the Firefox arcade game?). These simulations can be so realistic that the pilots sometimes emerge from the simulator dripping wet from adrenalin-induced cold sweats. How about the aircraft? The USAF's F-15 Eagle is actually flown by a computer. "Ha," you say. "There's a man in it." That's right, there is, but the plane is so responsive that if it responded to the pilot's input as fast and as violently as he threw the stick around, he would lose control of the craft in a hurry. The computer determines the complete status of the craft (airspeed, throttle position, control surfaces position, control stick position and relative change from the last position) and then proceeds to transmit the desired new control coordinates to the various points in the aircraft that will accomplish the pilot's wishes. And it will do it at a rate of speed that is fast enough to insure survival in the worst dogfight imaginable, but (and here's the reason for the computer interface) the computer will

not allow the pilot to fly the aircraft beyond it's limitations to the point where control is lost, and possibly the pilot as well. But what about you and me? There is now, for the private pilot or the aspiring pilot, a simulated cockpit for their home computer (I won't mention which brand is required). Instead of using the joysticks and keyboard, the user has an actual yoke and throttle similar to a light plane's cockpit layout, complete with navigational radio control inputs, landing gear position selectors, flap controls, etc. This interface is so realistic that, with it and the already existing flight simulator program, the manufacturer is hoping to get the FAA to certify it as a logable flight time simulator (best of luck). Unfortunately, the computer required is not the CoCo I, II, or III. But the program will operate on other Tandy computers that have the huge amounts of memory that the program devours. Besides, I can name five flight programs for the Coco that I think are pretty fair, one or two of which that are really quite good. What I am trying to say is just this: there are literally thousands of uses for the computer in today's high-tech world. Aviation is but one example. Without computer literacy, the following generations may well be held back from attaining their full potential in the career world. Any type of "hands-on" computer training will certainly be beneficial. For the money, the Coco has got to be one of the best entry-level computers on the market as well as an advanced-level machine that can and will help you learn to use spreadsheets, databases, CAD (computer aided design) programs, telecommunication packages, machine language programming, EPROM programming, the list goes on and on...

Uh oh, the airshow announcer just let slip that there will be a complete squadron of 16 Merlin-powered North American P-51's making a fly-by in 15 minutes. I've got to get that on film. If you'll excuse me, perhaps we can continue this discussion later. Until then.. whether in the air or on the screen... keep'em flying.

*Tony Podraza is the Treasure and past President of the Illinois Color Computer Club of Elgin. In addition, he is the president of Skyhawk Enterprises and a member of the Glenside Color Computer Club.*

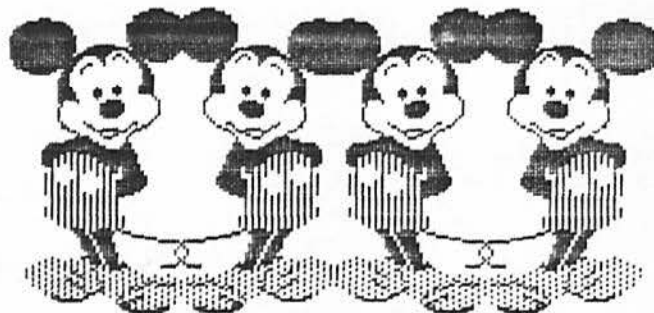
OOOPS !

Just to prove that when WE make a mistake, we set our records straight. Here are two examples...

Ed Hathaway of the Glenside CoCo Club of Illinois was kind enough to call a typo to my attention. In last month's newsletter, I quoted three CoCo "system prices". The first contained the error. Individual pricing should have been \$399.90, and the system price 329.95. Sorry about that... I and all my proof-readers missed it.

Ed also questioned the fact that there have recently been some sales which resulted in an even lower price than the system prices listed. Gee, I hope so! The system prices are on-going "everyday" prices. A sale wouldn't be much of a "sale" if it didn't represent a better value than the "everyday price" on a product or system. Thanks, Ed!

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\* Tandy's ELEXTRONIC BOOK (Cat#26-3141) SERIES with 4 cassette programs, \$20. ART GALLERY ROM PAK with 2 picture tapes, \$10. ROGUE (Cat#26-3297) for CoCo III, \$22. Mark Data Video Driver for color or monochrome output, call for price. For any or all above, call Dave Lucas at 478-1398. 'All software programs are original and come with manual(s)'.  
8

**TID-BITS**

\* A few issues ago, we told you about a video camera that will sell for \$150.00. Below is a picture of this camera and a little bit of information on it. This picture appeared in the August issue of Self Magazine and is reprinted with permission.

**EDITOR'S PICK**



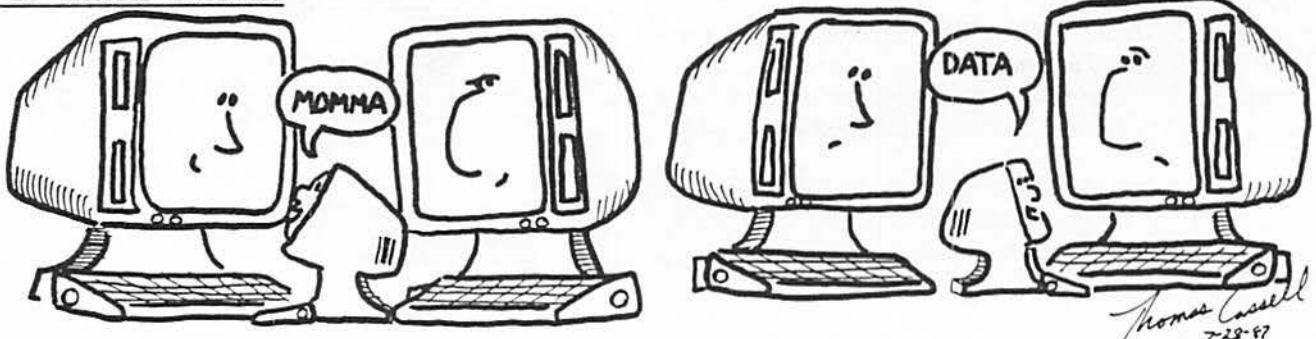
**FUN-PRICED VIDEO**

Suppose you're not even semi-rich. And you'd like a camcorder but can't quite spare a month's take-home. Solution: Steal from the kids: Fisher-Price's new child- (i.e., fool-) proof videocamera, the PXL 2000, above, is pint-size priced—under \$150—but records for real: 10 minutes of black-and-white, sound included, indoors or out. And it needs no VCR. The quality? Amateur, sure (very grainy), but great for fun—and the money. *By Catherine Clifford*

\* According to the W5YI REPORT, don't be surprised if you have to pay an additional \$2 hourly charge for accessing CompuServe or The Source information service via your home computer. The FCC believes that everybody who uses a local telephone exchange for interstate service should help pay for it. Latest information is that the charge may be "phased in" starting January 1988. The rationale behind the new on-line access service charge is that MCI and Sprint now pay an access charge to hook their long distance service to local phone lines. Information providers are very concerned about the possibility and are campaigning to block the FCC proposal. At present, information-retrieval systems are exempt from access charges.

\* Also according to the W5YI REPORT, IBM has stopped taking orders for their PC-XT computer (and has reduced the price of their XT-286 from \$2,810 to \$2495) as they begin to place emphasis on their new PS/2 systems.

CARTOON BY THOMAS CASSELL





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	CEITHAML, GEORGE	905 CHERRY LN	LOMBARD, IL	60148 312 620-7489
	GRAHAM, STEVE			
	HATHAWAY, ED	8 WEST STEVENSON DR	GLENDALE HTS, IL	60137 312 462-0694
	HYDEN, FRANK	623 NASH RD	CRYSTAL LAKE, IL	60014 815 459-1849
	JANKOVIC, BOB&CATHY	5333 BENTON	DOWNERS GROVE, IL	60515 312 810-9196
	KETCHIK, CHARLES	5812 N HOODY	CHICAGO, IL	60646 312 792-0781
	KOSIROG, MIKE	812 FEISMOOTH RD	HAMPSHIRE, IL	60140 312 683-3503
	KRACK, RAY	1117 HUNTER DRIVE	ELGIN, IL	60120 312 741-3217
	LA SOTA, KENNETH	5332 CINEMA DR E	HANOVER PARK, IL	60103 312 830-1692
	MEREL, HERBERT	8118 KEATING	SKOKIE, IL	60076 312 676-3987
	O'GRADY, RICH	308 PRAIRIE ST	ELGIN, IL	60120 312 742-4473 695-7100
	PEARSON, ROBERT E. & PAMELA	307 HIAHATHA	LITH., IL	60102 312 658-9188
PRES	PODRAZA, TONY	119 ADOBE CR	C'VILLE, IL	60110 312 428-3576
	POWERS, JOHN & NANCY	28715 OAKLAND TERRACE	ELBURN, IL	60119 312 557-2295
	ROBERTS, GREG	316 DORCHESTER LN	ELK GROVE VIL., IL	60007 312 364-4336
	SCHRODER, JOHN	1342 REBECCA RD	LOMBARD, IL	60148 312 495-9673
	SCHWEISS, BILL & NANCY	1507 AMARILLO	C'VILLE, IL	60110 312 428-0138
SEC.	SMEJKAL, RALPH	1865 PIERCE RD	HOFFMAN ESTATES, IL	60195 312 885-7692
	STROUD, STEVE	1098 FLORIMOND	ELGIN, IL	60120 312 695-3186
TREAS	SULLIVAN, DAVID & ROBIN	25.550 CYNTHIA DR	WARRENVILLE, IL	60555 312 393-3752
	VEENEMAN, STEVEN	1150 MANITOU TRAIL	ALGONQUIN, IL	60102 312 428-3475