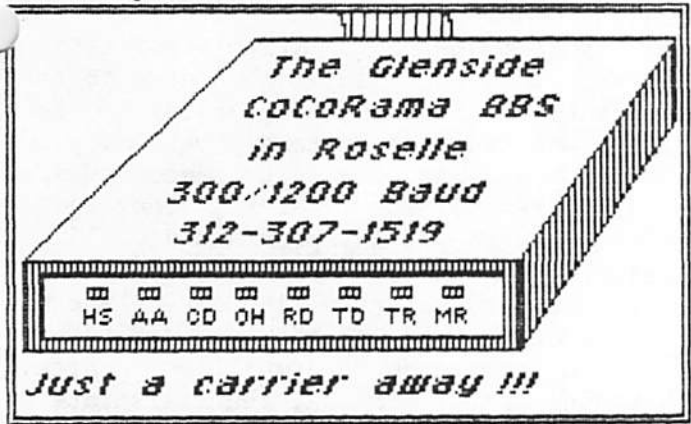NEXT MEETING OF
THE GLENSIDE COLOR COMPUTER CLUB

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

DIRECTIONS: Glendale Heights is located be-
tween Glen Ellyn & Wheaton, IL and Blooming-
dale, 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.

The Glenside
CoCoRama BBS
in Roselle
300/1200 Baud
312-307-1519

HS AA CD OH RD TD TR MR

Just a carrier away !!!

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

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.

December, according to InfoCorp, a Cupertino, California research firm, Tandy's share of the PC-compatible unit sales though 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.

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 -

REAL PROGRAMMERS DON'T EAT QUICHE!
From The Atlanta Ham, N4HJE-EDITOR

Real Programmers don't eat quiche. They eat Twinlkes, Coke and palate-scorcning 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 greatful 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 now); "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.
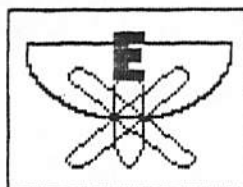
In closing, I have to part a few words of wisdom upon you about up-coming software. With the advent of the expanded 512K memory, the price of software will also expand! The reason for this is quite simple. With added memory, programmers can create larger code and increase the programs function use (i.e. 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...

3

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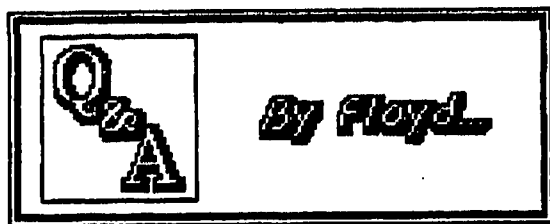
Q: I would like to be able to use the telecommunication program, GREG-E-TERM, in a computer to computer fashion. The problem is one of the computers is cassette based and none of the DISK TO TAPE copy programs I have will transfer a working copy. How can I get GREG-E-TERM onto tape?

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", &HE00, &H66FE, &HE00. 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 pencel 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. Electricty 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 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 pulgging in a ROM cartage into a CoCo for a store demonstration is such a challenge, then you can well image how you will be intro- duced 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.

Howard Medical Company & Glenside Color Computer Club
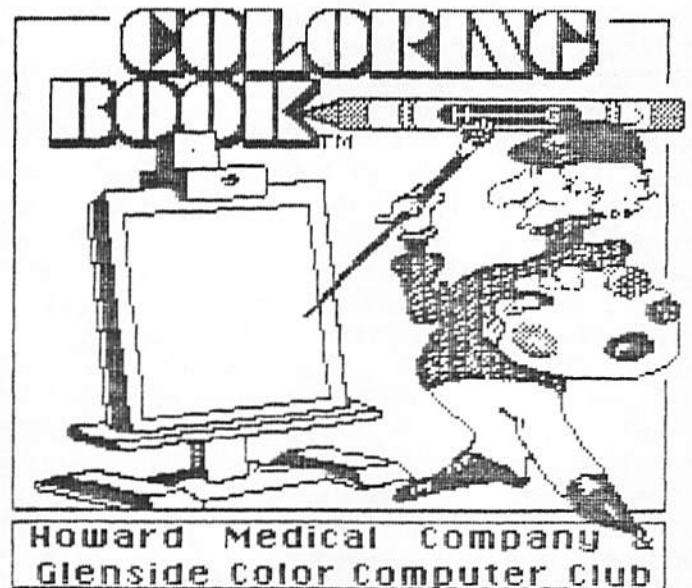
COMPUTERS and AVIATION
by Tony Podraza
High Flight
by Maj. John Gillespie McGee, Jr.

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
exihibition 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 minutae 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 simula-
tors 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 Enterprizes and a member of the Glenside Color Computer Club.

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!
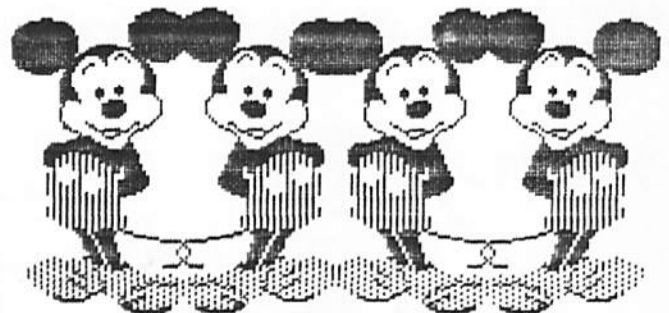
** FOR SALE **

* MASTER KEY II w/EXTENDED CABLE. This is the baby that has brought many copy protected programs to their knees! Asking $95 - Contact Tony Belehradek at (312) 788-2805
* SPEECH SYSTEMS STEREO PAK. Asking $25 - Call Orville Prehn at 690-0318
* AVATEX 300 BAUD MODEM. This is a direct connect modem compatible with the Color Computer. There are a few left at $28 so place your order today. CALL JOHN CHASTEEN AT 860-2580
* Complete CompuServe Starter Kit with $25 of FREE on-line time. This is a $40 retail package, sale price $25. Call RICH EKSTROM at 885-2573.
* DISTO - DISPLAY 80 SUPER CARD. Complete add-on board w/80 column; Real Time Clock & Parallel Printer Interface. Also, comes w/Basic & OS-9 Drivers. Asking $50 (advertised price is $139.95). Call RICH EKSTROM at 885-2573
* 64K COCO 2: HIGH PROFILE KEYBOARD, W/ MANUALS & HOOK-UPS CALL CARL DIRECT @ (815)568-6746
* CGP 115 W/ DUST COVER CALL LARRY PANTYKA (312)837-4201 ASKING $30.00

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************SKYHAWK ENTERPRIZES*************
            CUSTOM E-PROM BURNING
            SUBMIT YOUR BINARY FILE
   (READABLE BY TRS-80 COCO, TAPE OR DISK)
            SPECIFY E-PROM TYPE
   (2716, 2732, 2764, 27128, 27256, 68766)
      CALL TONY PODRAZA AT (312) 428-3576
           FOR CURRENT CHIP PRICES
      IF YOU HAVE YOUR OWN CHIP, WE WILL
   ERASE, BURN, AND VERIFY FOR ONLY $5.00
*******************************************
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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 monocrome 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)'.

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 possiblity 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

8
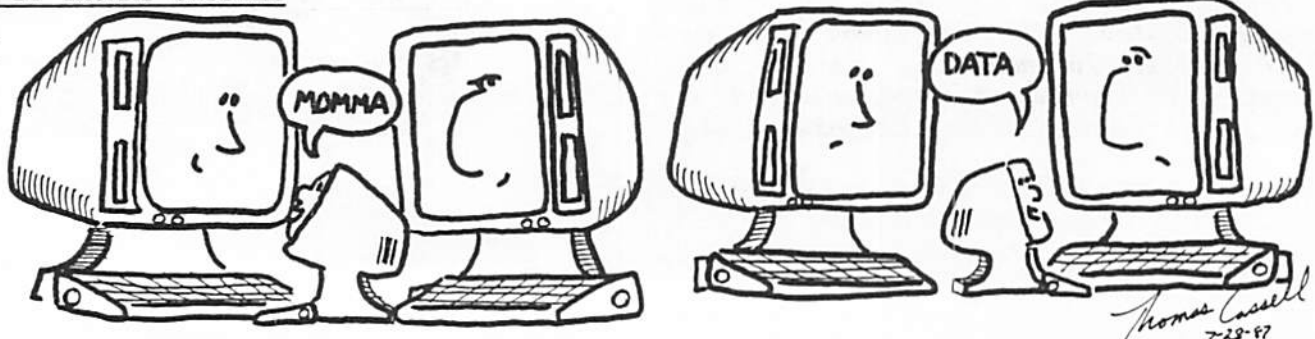
```
ICCCE MEMBERSHIP
    NAME
=====================================================================================================
V.P.   BARNES,LARRY             1108 LINCOLN AVE      STREAMWOOD, IL       60103 312 830-1945
       BEATTY,DON
       BLOODWORTH,WILLIAM H      919 DIVISION ST       SOUTH ELGIN, IL      60177 312-697-3316
       CAILLIAU,BILL            119 E. MAIN           ST. CHARLES, IL      60174 312 584-1593
       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 MOODY          CHICAGO, IL          60646 312 792-0781
       KOSIROG,MIKE             812 FEISMITH 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 HIAWATHA          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     2S.550 CYNTHIA DR     WARRENVILLE, IL      60555 312 393-3752
       VEENEMAN,STEVEN          1150 MANITOU TRAIL    ALGONQUIN, IL        60102 312 428-3475
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