



6809

EXPRESS

The Official Publication of the
PENN - JERSEY COLOR COMPUTER CLUB

VOLUME 3 NUMBER 11

NOVEMBER 1985

OFFICER ELECTION IS FRIDAY, NOV. 29

The next meeting of Penn-Jersey Color Computer Club WILL be held Friday (day after Thanksgiving) November 29, 1985 at 7 p.m. although the Northampton County Community College will be closed for the holiday. Richard Kravitz has made arrangements to have the college let us use the rooms for the meeting.

IT IS A VERY IMPORTANT MEETING - ELECTION OF OFFICERS will be held that night so make sure you attend. ALSO for those members renewing their subscriptions to RAINBOW Magazine or RAINBOW on TAPE must bring their money and mail labels, from the magazine or tape envelope to the meeting so that Treasurer Clyde Gano can send in one order so that members can benefit from the club discounts. For more info on the RAINBOW subscriptions see story below.

Those members nominated for office at the last meeting are:

PRESIDENT - Roni DeGarmo
VICE-PRESIDENT - Don Lauer
SECRETARY - Sally Lanshe
TREASURER - Tom Castronuova
NEWS-LETTER EDITOR - Reinhold Radke
LIBRARIAN - Paul Eckhart, Robert Zugates
PUBLICITY - Mary Brown, Nelson Russell

Nominations for officer positions will be closed just before the voting at this Friday's meeting and any other member in good standing may be added to the list if their are willing to serve until the nominations are closed.

Members volunteering for several committees are:

CLEAN-UP - Eric Moyer, Dave Buss and Larry Swan
REFRESHMENTS - NO volunteers - we need some please.
EQUIPMENT - Richard Kravitz, Steve Pitino, Ricky Moyer, Jerry Behler and Jason Fox.

PLEASE ATTEND THIS FRIDAY'S MEETING, NOV. 29 7 PM

TIME TO RENEW RAINBOW SUBSCRIPTIONS

It is time for those members who subscribed or renewed their subscriptions to RAINBOW Magazine or Tape at this time last year to do so again. A letter received from RAINBOW by PJ-CCC in response to an inquiry by Treasurer Clyde Gano, stipulates the discounts available to the club members.

The discounts are: \$2 on each magazine subscription. Regular cost \$31 per year making the cost \$29 per member. \$5 discount for RAINBOW on TAPE, regular \$80 per year, making it \$75 per club member.

If you subscribe to either of them at this time or plan to renew YOU MUST BRING THE MONEY and YOUR MAILING LABEL (if a renewal) to the NEXT MEETING, NOVEMBER 29, 1985 so Clyde Gano can send in one check to cover ALL subscriptions in order to be eligible for the club discounts.

Those members who subscribed earlier this summer can wait till the same time next year when another mass subscription order will be made.

REMEMBER - BRING YOUR \$\$\$\$\$ and mailing label this week.

NEXT MEETING IS FRIDAY, NOVEMBER 29 7PM



Michael Skuczias demonstrates his 256K upgrade to interested members at the last meeting of PJ-CCC.



MEETING MINUTES OF OCTOBER 25, 1985

The October meeting of the PENN-JERSEY COLOR COMPUTER CLUB was opened by club President Roni DeGarmo at 7:27 p.m.

Roni welcomed the members, guests and new member Tony Titi.

No minutes from the previous meeting was available for review because the college was closed due to a hurricane and it is the club's policy of cancelling the meeting when NCACC is closed.

The August meeting minutes were approved after a correction was made by Robert Zugates. Bob indicated that the minutes did not indicate that Tom Castronuova gave a presentation of Music at that meeting. The minutes were

approved after the correction was noted.

Moving to the next topic, Roni asked for a Treasurer's report from club Treasurer Clyde Gano. In his report, Clyde indicated that PJ-CCC donated \$50 to the Northampton County Area Community College Foundation for its fund-raising effort. Clyde also reminded everyone that Rainbow and Rainbow on Tape subscriptions will be renewed at the next meeting. Please bring with you to the next meeting your money, the mail label from the magazine and/or tape mail label if you renew. This will allow for the correct subscription number transfer so you don't get duplicate issues.

UNDER OLD BUSINESS-

Tom Roginski asked for an explanation as to why PJ-CCC

(Continued on page 6)



FOR CLUB MEMBERS ONLY

35% DISCOUNT ON ALL OWLWARE SOFTWARE

DRIVE 0	DRIVE 1
\$179	\$89
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HARD DRIVE 5 MEG \$450 interface included

Fabulous EPSON Drives Double Sided are now available.

FOR CLUB MEMBERS ONLY

SEE TOM ROGINSKI at meeting or CALL (215)682-6855

OWL-WARE P.O. Box 116-F Mertztown, Pa. 19539

6809 EXPRESS
 PENN-JERSEY COLOR COMPUTER CLUB

The "6809 EXPRESS" is the official monthly publication of the PENN-JERSEY COLOR COMPUTER CLUB. The club is based in the greater Lehigh Valley area of Northeastern Pennsylvania including sections of Northwest New Jersey. Any club or non-profit organization may reprint any part of the newsletter as long as credit is given. PJCCC will gladly exchange newsletters with any other computer club. For any written correspondence send your request to EDITOR, 6809 EXPRESS, Penn-Jersey Color Computer Club, P.O. Box 2742, Lehigh Valley, Pa. 18001.

President	- Roni DeGarmo
Vice Pres.	- Phil Herman
Editor	- Reinhold Radke
Secretary	- Tom Castronuova
Treasurer	- Clyde Gano
Librarian	- Paul Eckhart
Publicity	- Nelson Russell
Bulletin Bd.	- Jim Mangan
West Coast Correspondent	- Tony Cappellini

PJCCC assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of any information contained in this newsletter.

NEW SOFTWARE BAR CODE INVENTED TO ENTER DATA

The Cauzin "Softstrip" System is a completely new way for personal-computer users to receive, enter, store and manipulate software and data - including graphics and sound.

The data is encoded as a dense pattern of tiny black and white rectangles (see illustration) and printed onto ordinary paper five-eighths inch wide and up to 9 1/2 inch long. This size was chosen to conform to the requirements of most magazines, two strips side by side can store the equivalent of 5,000-plus characters. A letter size piece of paper covered with such strips could hold close to 50,000 characters, the equivalent of 30 double-spaced typed pages. Furthermore, unlike the traditional bar codes which require good paper, the Softstrip can be used with almost any type of paper, including newsprint.

The fact that a Softstrip using ASCII data files could be read into a CoCo as easily as into an I.B.M. is in theory a further convenience, in that it would make possible the printing of one version of a given set of data for all its potential "readers." A motorized Softstrip reader is expected to sell for under \$200 and several professional magazines are planning to print a Softstrip.

The system was developed by Cauzin Systems Inc. of Connecticut, which was founded by two ex-Xerox officers. Cauzin will license the strip technology, one of the top 100 innovations as selected by Science Digest Magazine, to magazines, banks, book publishers - anyone who wants to transfer large amount of information directly into customer's computers.

M a c I n k e r

Review by: Jim Mangan Nov. 11, 1985

From: Computer Friends
6415 SW Canyon Ct. Ste. 10
Portland, OR 97221
As noted in RAINBOW OCT. 85 "Pipeline"

As a heavy user of my printer for word processing, mailing list labels, graphics, etc., I have been on the look-out for some way to re-ink my worn out printer ribbon cartridges. Lo & behold I found a reference to what I was looking for in my favorite magazine, "RAINBOW". They gave the above address in the pipeline article. So being anxious to see what they had to offer I wrote to them inquiring about their product.

I was very pleased to get a prompt reply from Jimmie A. Moglia, Director, Computer Friends. He sent me quite a long letter explaining what they had to offer. What impressed me was that Jimmie said that the letter I was reading was printed out on a Prowriter with a ribbon that had been re-inked 29 times. Imagine that! Not having to go out and buy 28 more ribbons. Along with the letter, he sent me a catalog.

Computer friends had a lot to offer. First they have

PJ-CCC WELCOMES NEW MEMBER

PJ-CCC welcomes the newest member into our family. He is Tony Teti of 219 Plymouth Court, Quakertown, Pa.

Now Clyde Gano has someone to travel to the meetings with and maybe help him carry his TV (Club's CoCo monitor)?

Mac Inkers for almost any brand of printer, both the cartridge and spool type. Second, they have quite a list of supplies that can be used with the Mac Inker. These supplies consists of: ink, ink kits, uninked cartridges, and

(Continued on page 8)

AUTO-DIAL MODEMS AFFECTED BY NEW FCC RULES

Auto-dial modems, where the computer dials the phone number, will be restricted to dialing the same number only 15 times in a row according to new rules by the Federal Communications Commission issued last month.

It seems that telephone lines are being jammed with the automatic redial phones and auto-dial computers making a mess of the telephone network where people making regular phone calls can't seem to get onto the trunk lines of the phone system.

When Bruce Springsteen tickets went on sale in Washington in July, the phone system was messed up for hours and this forced other callers to wait to get through to other numbers.

The FCC blames redial saying it lets us buzz the same number hundreds of times with little or no effort.

The rule also covers computers but won't affect existing equipment according to news reports. The FCC is asking for public comment by January 10, 1986 on regulating computer redials. So write to the FCC in Washington and let them know how you feel.

NEXT MEETING IS FRIDAY NOVEMBER 29 7 PM

Granular Allocation Table

By Jerry Behler

Since November's meeting is on "Disk Basic", the following article covers that topic. It is to be used in conjunction with an article I wrote in the April 85 issue of "6809 EXPRESS". I was reminded by Robert Zugates that I forgot to include part 2 in the following month! So Bob here it is, and thank you for reminding me.

The Granular Allocation Table (GAT) is located on track 17, sector 2. It contains the information needed by the computer and disk controller to find and load the full program.

From the directory (byte 13) the controller determines the starting point of the program. The GAT will inform the controller which gran to go to next after loading the previous gran.

The GAT is all stored on one sector, (256 bytes) but only 68 (hex 43) are used. Since each track contains 2 grans or a total of 68 grans a code will be assigned in the table to each gran to determine if it is used.

The value stored in the GAT will be from 0 to 67 in decimal or 0 to 43 in hex, representing the 68 possible grans. A value of 255 (hex FF) indicates that the gran is not being used and is available. It may contain a value of C0 thru C9, this number tells the controller two important things. First, the C indicates that it is the last gran of the program. Second, how many SECTORS are used in the gran (Nine sectors = 1 gran).

For example, the directory tells us that program, "XYZ" starts on relative gran 10 (hex 0A). Also from our directory, we know how many BYTES ARE USED IN the LAST SECTOR (byte 14 & 15). If you were to look at the GAT, go to box for relative gran 10, if the program is more than 1 gran long, it will have a value stored there as to which gran to go to next. When it reaches the final gran it will contain a value of C0 to C9.

One final note, the GAT does not contain any information about the directory track (track 17). Therefore, it can be quite confusing as to granular to track conversion.

The first step in all manipulations is to convert all

numbers into decimals, this will make it easier to work with.

When converting from granulars to track conversion, divide the number by two. If it is less than 17, it is your track number. If the result is over 16, add one to your result for your track number. If the remainder after dividing is 0, then go to the first sector of the track. If the remainder is 1, then go to the tenth sector of the track. (One gran equals 9 sectors).

When converting from TRACK to GRANULAR, the procedure is the opposite. If the track number is less than 17, multiply by 2 to get the gran number. If your file goes into sector 10 of your last track, you must add 1 more gran to your total. If the track number is greater than 17, multiply by 2 and ADD 2 to your total.

I hope this may help some members out there, between the two articles it will better arm you to recover a crashed disk. There are several programs available that could provide you with the information from the directory and granular allocation table. It will take some practice and a thorough understanding of its function.

NEW BBS IN EASTON

Charter member of PENN-JERSEY COLOR COMPUTER CLUB, Bill Jones has announced that he will begin operation of a second club BBS with the help of the official PJ-CCC SYSOP Jim Mangan.

By the time you receive this newsletter, the BBS should be in operation at (215) 253-6743. Jones said he plans to have the BBS in operation 24-hours a day as soon as everything is set up. Although it will be independent of Jim Mangan's "COCO DEN" it will serve those club members living in western New Jersey and those in the Easton phone exchange that they do not have to make toll calls in order to use the club's BBS "COCO DEN."


Jones said he and Jim Mangan plan to exchange part of the message base so those members using Jones "Colorama" BBS will know what's going on at the CoCo DEN BBS.

It is hoped that the two BBS'S will better serve the PJ-CCC membership and more members will end up using it. Reports from Jim Mangan indicate few members are utilizing the club's "COCO DEN" although they have modems. If all members with modems sign on at least once or twice a week, maybe we can really have a great exchange of communication via the CoCo.

SYSOP Mangan is waiting the arrival of an updated version of his BBS software in order to serve the club members with a better variety of features and less chance of crashes that some users are always trying to create.

DON'T FORGET -- COCO DEN (215) 866-1805 and the new BBS in Easton at (215) 253-6743.

Software buying is up over last year according to a recent survey. Increases were in purchases for personal finance and word processing software. Educational software remains the top choice for those planning to buy software.

SPRING CLEARANCE	
GEMINI 10X ★ 80 columns ★ 120 cps ★ tractor & friction ★ 1-yr. warranty  \$215⁰⁰	GEMINI 15X ★ 132 columns ★ 120 cps ★ friction & tractor ★ 1-yr. warranty \$299⁰⁰
A.C.E. SYSTEMS 100 E. BROAD ST., BETHLEHEM (215) 867-5066 Mon. 9-7, Tues.-Fri. 9-5	

"HUMAN" COMPUTER CREATED BY SCIENTISTS

Research scientists and computer programmers at the Los Alamos National Laboratory have created the "research rat" of the future, a computer program that duplicates the complex systems of the human body.

The program is called "HUMTRN" (pronounced HYOOH-tran), short for human transport. It is a "living," or dynamic, computer data bank that gives simultaneous access to 10 million pieces of information on what happens when any chemically identified substance is taken into the human body.

Since the human body is constantly changing, so does the HUMTRN. It is programmed to eat, breathe, work, perspire, eliminate waste, grow, develop sexually, age and die.

Anything put into the system - food, water and air for example - involves another set of computer duplicates, the scientist say, creating an elaborate, computerized version of the food chain and the air and soil. HUMTRN uses computer models of cattle, plants, farms and climates.

HUMTRN, which was developed at the Los Alamos laboratory in 1974, began as a modest project. The laboratory commissioned Dr. Anthony Gallegos, a scientist at Los Alamos at that time, to determine how radioactivity would affect

the human body in a theoretical accident at a nuclear arms assembly plant.

Dr. Gallegos said that a hand-calculated risk analysis would have been worthless because it would have been one-dimensional and primitive. "A thousand factors can be involved," he said. "What if it rained or the wind changed directions? What if the population were young or old? What if cattle were shipped from one part of the country to another part of the country? What about the body?"

HUMTRN's software was slowly developed and arrived soon afterward. They included CLIMAT, a climate model; AIRAC, a model showing radiation release into the atmosphere; WTLX, a soil profile, PLTGRO, a plant duplicate; RMNANT, a beef steer or cow; FORMAN, a forest, and AQAT, a deep-water algae-producing lake.

Dr. Jay Wenzel, a health physicist at the laboratory and who is a member of the team that developed the project said. "But here it is, a stupendous video game, and in terms of that, I'll tell you what: the 21st century is going to be wild."

Because Los Alamos is a national laboratory, owned and operated by the Department of Energy through the University of California, HUMTRN's programming is available to the public.

The address is National Technical Information Service, United States Department of Commerce, 5285 Port Royal Road, Springfield, Va., 22161.

EDITOR'S NOTE: The above article was re-written and condensed from a story in the New York Times, Nov. 12, 1985.

COMPUTER MAGAZINE CEMETERY GETTING CROWDED

The number of computer magazines is dwindling with the latest announcements that POPULAR COMPUTING by McGraw Hill Information System Co. will stop publishing after December. Ziff-Davis Publishing Co. also announced that CREATIVE COMPUTING will also stop publishing.

This comes on the heels of the latest in the CoCo field that Hot CoCo will cease in the early part of next year although those are only strong rumors. Hot CoCo subscribers are getting special letters from the publisher to renew their subscription at a \$2 discount. Well then look at Rainbow - which keeps on growing and getting to be a "slick" publication.

Wonder what the Color Computer Magazine subscribers will get after that folded and they were getting Creative Computing to fill their subscriptions?

A BYTE OF INFO by Roni DeGarmo

What does the K behind the 16, 32 or 64 mean? It's a computer shorthand term equalling the quantity 1024 and generally used as a measurement of computer memory capacity. So?

So what does 1024 mean? A kilobyte equals 1024 bytes so K is a kilobyte that equals 1024 bytes.

So what's a byte? A grouping of adjacent binary digits operated on by the computer as a unit.

So what's a binary digit? It's a number system using two symbols either 0 or 1 or one bit.

So what's a bit? The smallest unit of information that the computer recognizes. A bit (binary digit) is represented by the presence or absence of an electronic pulse, 0 or 1.

OH, so what does the K behind 16, 32 or 64 mean?

PLAY TV "GAME SHOW" ON COMPUERVE

CompuServe Inc. and Hallmark Cards, Inc. have developed a program called YOU GUESSED IT, a "television game show" on CompuServe's mainframe computer in Columbus, Ohio. The entire game appears in the form of text on the screen. During the game you compete against other computer users connected via their modems. A winning player is one whose answers most closely match those of previously surveyed audiences. Prizes range from a \$3 scuba diving light to \$700 worth of videocassettes offering gambling advice. After each game, players are invited into the "studio lounge," where they can meet such computer generated personalities as the Bartender, Aida Glottis the Torch Singer or Hostess Connie La Bomba. Cost to play the game is \$3 an hour according to a news article.

GENERIC COMPUTER?

Two Oregon entrepreneurs are selling the latest in computer "hardware" - THE GENERIC COMPUTER - only \$5.95. For that price you get a complete "system" ala a cardboard box with a picture of a keyboard on the front, a pencil (the computer "printer"), a small dictionary (the "word processor") and crayons (the "color graphics"). If you are interested in this "gag" gift idea write to INTEC INC. 676 Polk St., Eugene, Ore. 97402. Include 50 cents for shipping.

did not go through with co-sponsoring the RAINBOWfest as planned.

Tom Castronuova, a RAINBOWfest committee co-chairman, responded saying the reason was printed in the last issue of the newsletter. Roginski said he did not see many PJ-CCC members there and asked to find out how many attended. A hand count was taken indicating that many members did attend the fest despite the fact that the club did not co-sponsor the event.

Roni asked for a report from publicity chairman Nelson Russell. Nelson discussed some of the mail offerings available to the club members among them a control program from Titan software. See Nelson or Reinhold Radke for more details.

Jerry Behler indicated that Jim Mangan's BBS (CoCo Den) the official club BBS - was not being used by club members and that he and Jim would like to see an increase of its use. Jerry said that the new BBS will be up shortly and will have more features and special commands to make it more difficult for hackers to crash the system as they have done in the past.

UNDER NEW BUSINESS-

Under new business, nominations of officers were made. They are:

PRESIDENT

Roni DeSarno --Open

SECRETARY

Sally Lanshe -- Open

VICE PRESIDENT

Don Lauer --- Jerry Behler --- Al Kraft

NEWSLETTER EDITOR

Reinhold Radke -- Open

TREASURER

Tom Castronuova -- Open

LIBRARIAN

Paul Eckhart --- Robert Zugates

PUBLICITY

Mary Brown --- Nelson Russell

Volunteering to serve on committees were:

CLEAN-UP

Eric Moyer --- Dave Buss --- Larry Swan

REFRESHMENTS

No volunteers

EQUIPMENT

Steve Pitino --- Richard Kravitz --- Rickey Moyer ---
Jerry Behler --- Jason Fox

Nominations were tabled until the next meeting and are open until the nominations are closed before the voting.

In other new business, Don Lauer indicated he had a public domain version of "Kermit" a communications program with documentation. Tom Roginski has offered to modify the program to run on the CoCo.

Clyde Gano wanted to know if anyone was a member of Elite Users Group.

Motion was made to adjourn the meeting and seconded. Topic for the evening was Adventures and graphics.

Submitted by
Tom Castronuova,
Secretary

HOME SHOPPING VIA YOUR COCO

A new on-line service has recently begun from Canton, Ohio providing International Home Shopping from your CoCo keyboard and your modem. If you don't have a computer they will sell you a Radio Shack Color Computer with modem for \$249 which also includes the start-up fee.

IHS On-Line is a new electronic information and communication network. You can participate in special events like electronic auctions, where brand name merchandise is auctioned and sold to the highest bidder.

IHS On-Line also features an electronic encyclopedia, loaded with information and available 24 hours a day; a shopping district where you can place an order for an item and have it delivered to your house.

Registration for IHS On-Line is \$39 as a start-up fee and standard connect time per hour is \$6.50 at 300 baud between the hours of 6 p.m. and 7 a.m. Monday thru Friday. Saturdays, Sundays and Holidays are considered standard connect time. Holidays are defined as New Year's Day, July 4th, Labor Day, Thanksgiving and Christmas.

Prime time connect time at 300 baud is \$16 per hour and is defined as Monday thru Fridays, 7:01 a.m. - 5:59 p.m.

If interested write to Gordon Gregg, Field Representative, P.O. Box 564, Decatur, IN 46733 or call (219) 724-2341.

Or see Nelson Russell or Reinhold Radke at the next meeting for the IHS On-Line brochure.



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see Nelson Russell at

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Rainbow's CoCo SIG on Delphi

The RAINBOW and the Delphi Information Utility have joined together to allow CoCo owners all over the world to connect with one another.

DELPHI is a full-service information utility. It offers everything from up-to-the-minute news stories from the Associated Press to electronic mail services. But, best of all, it now has a special forum for Color Computer owners and it's operated by the people of RAINBOW Magazine.

The CoCo Special Interest Group (SIG) features a variety of services, including an open forum where you can send and receive messages from CoCo owners all over the world. It also has several databases to which you can upload your favorite programs and from which you can download programs written by other CoCo enthusiasts. Some of these databases are BASIC programming, OS-9 and home appliances.

The CoCo SIG's conference feature allows you to meet electronically with other members of the CoCo Community. Conference schedules will appear monthly in the RAINBOW.

On DELPHI you are also able to renew your RAINBOW subscription, order Rainbow on Tape, download an individual program immediately, order software and hardware from various CoCo vendors, or inquire about products on the CoCo SIG.

COMPUTER BRIEF

According to a recent survey of 2,000 consumers for Family Computing Magazine, printer ownership showed a 45 per cent increase of a similar survey done last year. It also reports that 39 per cent of those home computer owners plan to purchase a printer this year.

HARDWARE, PASCAL SIG's ON HOLD

The Hardware and Pascal Special Interest Groups (SIG's) conducted by Jerry Behler at his house have been temporary put on "hold" due to Jerry moving into Bethlehem as soon as all arrangements are made. The meetings which were held Tuesday evenings (Pascal) and Saturday (Hardware) in the Behler's "CoCo Den" can't be held at this time since the Behlers basically have almost everything packed and ready to move at the moments notice. Once they move, I know Jerry and Paula will again be into the swing of things in relation to PJ-CCC.

ENCYCLOPEDIA LASER DISK READ BY COMPUTER

Grolier Electronic Publishing Inc. will begin selling the electronic encyclopedia on a laser disk known as CD-ROM (for compact disk, read only memory) in the next month. The \$199 disk holds the 21-volume Academic American Encyclopedia and is read on a personal computer through a special optical disk reader. It works the same way as a floppy disk does on a computer, but the silvery platter (laser disk) can't be erased or record over it. You simply insert the disk into an optical reader- there are several on the market now - and look up a subject by requesting a search for particular words or groups of words. Total elapsed time: Three to five seconds.

RAINBOW is offering magazine subscribers a free lifetime subscription to DELPHI (\$29.95 value) and a free hour of connect time (\$6 value) at either 300 or 1200 Baud during evening, holiday and weekend hours.

For more information on DELPHI see the current issue of RAINBOW Magazine.

GORILLA BANANA PRINTER FOR \$89.90

DAK Industries Inc. of Canoga Park, California, is having a special "close-out" sale of Gorilla Banana printers for \$89.90 plus \$8.00 shipping charge for anyone looking for an in-expensive printer.

The printer is a discontinued item by Leading Edge which is bringing out new printers under new names. The Banana handles standard fanfold pin feed computer paper from 4.5" to 9.5" wide with its built-in tractor pin feed drive. Also, the letters g, j, p, q and y are level with other letters of the alphabet, in other words that they would look like this, G, J, P, Q, Y. If you don't want letters that look like they were printed by a computer, this printer isn't for you. But if you need something to just print out a listing or occasional correspondence, this is a cheap alternative.

The printer is \$89.90 plus \$8 for shipping charge. For the Radio Shack Color Computer, there is a special printer with a built-in serial interface for the same price. Order no. 4102. Also you need a serial cable which DAK sells for \$18 plus \$2 handling charge (Order no. 4109). So for just a total of \$129.00 you can make you computer complete. DAK Industries 1-800-325-0800.

OFFICER
ELECTION
IS
THIS MEETING
FRIDAY, NOVEMBER 29

reload ribbons. The ink comes in 7 colors, black, blue, green, red, brown, yellow, and purple. The ink kits are for each color listed above. This kit consists of a two ounce bottle of ink and an ink roller. The cartridges are uninked and therefore can be inked to any desired color. Uninked reloads are available and with these come instructions on how to open cartridges, mount a reload and wind the ribbon inside.

So using the this information, I sent in my order for a Mac-Inker and four color kits (black, blue, green and red). In a short time I received my order by UPS blue. Upon opening and inspecting what I had just purchased, I found out that I first had to saturate each roller with its specific colored ink.

Each roller has an ink reservoir at the top. At the bottom of each reservoir are three apertures thru which the ink flows onto the felt pads of the rollers. It takes about three reservoir fillings to properly condition the roller. I conditioned all four rollers at the same time. Just by refilling the reservoirs as they emptied of ink. In due time I had all four rollers ready to go so choosing the black inked roller I placed it on the Mac Inker. Then I placed the worn out threadbare cartridge that came with my printer on the Mac inker, looping the ribbon around the roller and then filling the ink reservoir. Now the moment I was waiting for so long was now at hand. I switched the Mac Inker (it is motor driven) to the on position and slowly the ribbon was passed over the inked felt pads of the roller. As the cartridges are of a continuous loop similar to an 8-track tape, you can leave it run as long as you want. As this cartridge was completely dry it took awhile before the ribbon was inked properly. After I tested this re-inked cartridge, I was so please with the resultant

print-out I got so carried away I started to re-ink all the cartridges I had on hand in four different colors. I also get cartridges from Jerry Behler and I proceeded non-stop to re-ink them also. It also looked as if I was also trying to re-ink my fingers.

So now I can proceed with a lot of projects I have in mind without fear of getting unsuitable printouts because of ink depleted ribbons. So if anyone has a heavy load of printing to do whereby they have to frequently buy ribbons, the answer is the Mac Inker which in the long run can save a considerable amount of money. Upon further reading the literature I received, it was stated that an RS DMP 2100 ribbon was re-inked 80 times. wow!!! whoopee!!! oh joy!!! just think of the savings this had.

I am now going to order the remaining color kits that I do not have and an extra supply of black ink. By having all these different colored cartridges on hand and with re-ink capability for all, I can now plan and execute a lot of new and exciting projects.

So if anyone who does a lot of printing and is always buying new cartridges, I would strongly suggest that they look into what a Mac Inker could do for them. For example, with just two cartridges in black ink a person can always have a freshly inked cartridge on hand and never have to put up with any delays in printing.

To sum it all up, I think this is a very excellent & useful product and after awhile it pays its own way. So check it out, you may be glad you did. Take it from one who is hooked by the Mac Inker.

"COCO DEN"

215-866-1805

NEXT MEETING IS FRIDAY NOVEMBER 29 7 PM



P.O. BOX 2742 LEHIGH VALLEY, PA 18001

