



# FALCON

**"FOR ALL COMPUTER NEEDS"**

**SALES • SERVICE • SOFTWARE • SUPPLIES**  
**PROFESSIONAL COMPUTER SYSTEMS**

**Let Falcon be Your source - If we Don't Have it -  
We Will Get it for You at the Best Possible Price.**

**WE'VE GOT IT!...THE**

## Leading Edge PC



**IBM COMPATIBLE SYSTEM**

**50% Faster than the IBM**

### SYSTEM I - \$1995 List

- Intel 8088-2 processor
- 7.16 or 4.77 MHz switchable clock speed
- Dual 320 or 360 Kb disk drives
- 128K bytes main memory
- Parallel port (Centronics compatible)
- Serial port with modem controls
- Time of day with clock with battery backup
- Cabinet with 7 option slots
- 10 amp power supply
- 12" monochrome monitor and controller
- IBM Format keyboard
- MS-DOS 2.11 or MS-DOS 1.25
- GW Basic 2.0
- 512K memory board
- 256K RAM - standard
- Leading Edge word processing

### SYSTEM II - \$2495 List

Dual Floppy System  
with color monitor and  
graphics controller

### SYSTEM III - \$2995 List

Monochrome System with 360 Kb  
floppy drive and internal 10 Mb Hard  
disk drive.

### SYSTEM IV - \$3495 List

Hard Drive System with color  
graphics monitor and controller.

**CALL FOR YOUR SPECIAL PRICE**

## NEC

PC 8800

PC 8201

## C.ITOH

PROWRITER

STARWRITER

## EPSON

PRINTERS

*Number one. And built like it.*

**SPECIAL PACKAGE DEALS**  
**Your Choice Of Printers, Monitors & Accessories**

**We Will Meet or Beat Any Authorized  
FULL SERVICE Dealer Package Price.**

**COMPUTERS**—IBM, LEADING EDGE, NEC,  
FRANKLIN, TELEVIDEO, EAGLE...

**PRINTERS**—EPSON, OKIDATA, C.ITOH, TTX  
PANASONIC, BROTHER...

**MODEMS**—HAYES, RIXON, U.S. ROBOTICS  
RACAL VADIC, NOVATION...

**SOFTWARE**—LOTUS 1-2-3, SYMPHONY, D BASE 3  
FRAMEWORK...

**SUPPLIES**—PAPER, DISKS, RIBBONS, FURNITURE

**PROFESSIONAL & PERSONAL ATTENTION**

**FULL LINE OF FRANKLIN, APPLE & IBM PERIPHERALS AND ACCESSORIES**

**PRINTER AND DISK DRIVE SPECIALISTS**

## FALCON

**(516) 938-8844**

Computer Corporation

**BUSINESS HOURS**  
11-5 Monday-Friday  
Evening and Saturday  
by Appointment

105 Broadway, Hicksville 2 Blocks South of SEARS

# PolyMorphic Editor

designed for CP/M and MSdos

Beta Test

Part 3

7/19/84

To answer the questions posed last time:

- a) Of what help would this be in normal writing?

ESCAPE sequences are great for saving paragraphs, headings, lists and anything else that you would type more than once.

- b) How can we extend the purpose of a sequence to more than capture and save a group of words?

I have used "key definitions" to create a file, print an envelope for a letter, run programs, set up printer parameters, copy files, setup screen displays and format print outs.

- c) How do I remember what I did? (could always buy a template)

The Poly/Editor has a few built-in functions which you cannot over-ride. One of these is ESCAPE + ?. Typing ESC/? all of your definitions are displayed.

- d) What if I change my mind?

Simple! Just redefine the key.

- e) What if I want different definitions at different times?

Also easy. Definitions can be saved to disk by typing the sequence ESC CTRL/W. The prompt "Key Definition Name:" appears and you name the file, not the extension.

Your file automatically receives an extension of .ED Many .ED files can be saved and then can be "swapped" by typing the sequence ESC CTRL/L. The prompt "Key Definition Name:" appears and you name the file, not the extension. Your "new" definition file is loaded.

## A Nice Feature

If you are editing a *text* file the TXed.ED is loaded automatically. If you are editing a BASIC program BSdef is loaded. So, for convenience I have a TAfed for tapes, Llfed for L.I.C.A., BBdef for the Bulletin Board and many others. My Bulletin Board files have a .BB extension, music files have .MU and tapes .TA

- Auto-load of def files doesn't work in CP/M environment!

- f) If I am editing a *text* file, why in blazes am I typing REM or PRINT or other BASIC commands.

As stated in other issues of *The STACK*, all files are compatible. This is one of the prices you pay when you cannot buy commercial software. Therefore, there are no problems when you edit PROGRAM.BS and then run the same program. This is true for FORTRAN, Little ADA, FORTH or any of the other languages available on the Poly.

I wrote the ALFA SORT BASIC program (elsewhere in *The STACK*) using CP/M - Microsoft BASIC. It worked. So apparently some "other software" will accept ASCII files.

- g) I what you see on the screen is not what you get on the printed page, how did I get *The*

*STACK* to look this way? (no fair looking at Michael Bonner's typesetting)

The Poly operating system contains a Universal Printer Driver, which allows the user to Setup a number of different printers. Each of the printers may be attached at any time. The Setup is accomplished by answering a series of questions in English. Included in the setup are page parameters (lines per page, characters per line, margins and offset for the left edge.) Some of the printers I use have strange names. Printer "15" (Diablo in disguise) prints 115 characters per line printing fifteen characters per inch. Printer "15/7" prints 115 characters per inch plus seven lines per inch (instead of the standard six.) Printer "CP/M" runs at 9600 baud (instead of 1200) and has 255 lines per page and 80 characters across. The protocol is changed from ETX/ACK to X on/X off. I use this for data transfer from the Poly to another machine. Printer "File" creates a disk file and I can PRINT to a disk file. (Faster, cleaner and less paper.)

In addition, a file can be edited with the extension .IN. The file with the .IN extension over-rides the printer specs. Margins can be set, Footers and headers can be defined, characters per inch, lines per page and other long-range format commands can be included. It is also possible to define the printer in this file.

Specific commands can be typed in the text-file. The commands are set by typing a curly bracket { to start a command, and a curly bracket } to end the command. PolyMorphic systems supplies TXfed with the commands defined. Center is `ESC C` and appears in your text as {cc}.

So, the printer can be set-up with SETUP, and modified with the command Printer SET (a temporary). The specs can be altered by the FORMAT.IN file. Many of these files co-reside on the disk. For the sake of avoiding confusion, LETTER.IN can reside with STATEMENT.IN and STACK.IN. The Poly Printer/driver works using CM/P just as easily as in its natural environment.

All of the DEFINE.ED files work fine in CP/M. No problem writing, loading, storing or swapping them. [\*Bug note: None of the xxx.ED files load automatically using the CP/M operating system.]

I have yet to find a way to use the FORMAT.IN files in the CP/M operating environment.

*Note: Most systems use for word FORMAT to clean a disk. Poly's Exec uses INIT for the same purpose. FORMAT in PolyTalk means "arrange the format of a printout."*

FORMAT.GO, (FORMAT.CON equivalent), is the disk program used for formatting a document at the system level. PR or PRINT (a resident command) will print the document literally (as typed).

I have not yet received the FORMAT.CON or equivalent for the CP/M version. My next tests will be trying to print a file using some CP/M program plus a Poly xxx.In file. (Don't think it will work, but it's worth a shot.)

—Submitted by Al Levy

# New Bulletin Board in Hicksville

by Al Levy

Innerlogic has recently put up a Bulletin Board for public access. It is speedy, easy to use, self prompting, and best of all, you can upload or download files.

In last month's issue of *The STACK*, I neglected to mention the telephone number. The Innerlogic Bulletin Board can be reached by dialing:

**(516) 822-5323**

This board now supports a complete bulletin board flea market (buy/sell/swap).

The store is featuring demos (hands on) of ENABLE. If you didn't get the whole picture at the last L.I.C.A. meeting, try stopping in at Innerlogic.

## Family Computing Hits Home

by Elsa R. Efran

*Family Computing* is the most user friendly publication about computers that I've seen since our family got serious about computers a year ago. We regularly see several other computer publications and have found *Family Computing* to be the most helpful in shopping for our computer; although it doesn't rate products a la *Consumer Reports*, it does publish fairly comprehensive charts comparing features, prices, etc., as well as more general articles about hardware, software and computing in general. Each issue has sprouted a forest of post-it-notes marking articles that we refer to frequently.

The magazine also contains many articles about how ordinary families use computers for their businesses, hobbies and daily lives. Some recent topics included: running a class reunion, starting a computer Word processing service, taking a robot to school, girls and computing and how to avoid becoming a computer widow - and the last one I particularly appreciated.

The writing is clear, the layouts don't make life harder for you (a recent issue of *PC* had me flipping back and forth for 10 minutes trying to find out where the article ended and the sidebar began) and the coverage is comprehensive for anyone who wants a general view of computing.

Every issue has a section of BASIC programs you can type in for, say, a Christmas tree printout for the holidays, a thank you note or a Father's Day card. There are usually a couple of reader written games or programs, too, and the magazine is clear about changes you need to make for different computers, which peripherals you need (unlike *Compute!*, which didn't print out that we needed a

graphics card for a program that I spent an hour typing and which, of course, didn't run.) We've since dropped *Compute!*; there's no comparison with *Family Computing*, in my view.

It's also quite up to date; the June issue "announced" the Apple IIc; the August issue had a hands-on review of it.

Each issue also lists recently released software programs (home business and management, education/fun learning, games) and does rate those on ease of use, performance, documentation, etc., and gives short reviews of the most popular ones. There's always a report on new hardware and each issue contains "The Primer" - a handy reference guide to really basic (as opposed to BASIC) stuff and a mini-dictionary of frequently-used jargon.

Since the magazine is published by Scholastic, Inc., I was a little worried that it would be reminiscent of *My Weekly Reader*, but I have been consistently pleased with the quality of the magazine and would recommend it to parents who want to keep up with their kids, to beginners in the computer world, to business persons who want to be users rather than hackers and to educators who want to see what they can do with computers and what their students might be doing with them at home.

A year's subscription to *Family Computing* is \$19.97; write: *Family Computing*, P.O. Box 2512, Boulder, Colo. 80321.

By the way, since we have all the issues of *Family Computing* that have been published so far, I'd be willing to be available by phone (215-242-4234) to look up things for people. Let me know if you have any questions.

Reprinted from Philadelphia Area Computer Society Newsletter

# What's New in Telecommunications

Telephone communications equipment is undergoing substantial change to provide faster exchange among people and data-processing equipment, in any combination or direction. Here are a few of the innovative devices designed to help improve information flow in offices.

**Key + Telephone Systems**, long the standard system with push-button access to extensions, have been upgraded. Numbers can be programmed in a station or system memory for abbreviated dialing. Routing selects the least-expensive long distance carrier, and trunk cueing rings back when a trunkline is free. Automatic call-back eliminates redialing busy numbers, and speed dialing cuts dialing long access codes for common carrier networks. Many also provide for hands-off conversation with built-in speakerphones. Other features include call-forwarding and call-back request (incoming) when

you're on an important call.

**PBX** (Private branch exchange) is the most modern digital voice and data signal for transmission over conventional telephone lines, both simultaneously. PBX can interconnect telephones, data-processing and word-processing equipment. Added features include cueing, least-cost-routing and electronic mail with appropriate software programming in associated computers. Most also provide rapid dialing of programmed numbers, call-back, call-forwarding and similar features.

**Work stations** combine PBX with a CRT to provide both communications and data-handling capabilities. The work station is regarded as the office of the future, but for the most part, it exists today. Many financial firms and stockbrokers are able to call up and display individual portfolios, latest prices and activity of listed stocks, corporate news and other information from com-

puter memory banks. Businesses can access similar data on sales, production, invoices, shipments, etc. The information can be displayed, forwarded to other work stations via existing telephone lines or local area networks (LANs). The flexibility of computing is combined with all the most advanced communications techniques.

**LANs** permit high-speed data transfer between computers, work stations, or terminals via coaxial, fiber-optic or copper wire cables. Data streams are packaged with addresses of sending and receiving stations. LANs capabilities are used for data transfer only. Systems are provided by Xerox, IBM, Data-Point, Ungermann-Bass, Corvus Network Systems, Nestar, Sytek and others.

**Telephone By-pass** enables a user to circumvent local telephone company's lines for either local or long-distance networks. Private microwave transmitting equipment sends voice and data between dish antennae along line-of-sight transmission paths. High initial capital outlay for equipment and installation is said to be rapidly amortized by savings in rental/service charges of telephone companies.

Other bypass techniques include digital termination systems, end-to-end satellite links, cable TV two-way message transmission, cellular mobile telephone and teleports. Most are used by larger corporations.

**Telex.** New compact and quiet teletype machines are office compatible. They access Western Union, RCA, ITT and Graphnet lines through the phone system. Some can transceive with portable computers over standard public telephones or hotel-room receivers.

**Facsimile Transmission.** Text and graphics can be sent over telephone lines with improved speed and clarity from computer to computer or via third-party carriers such as MCI and Federal Express. With MCI, both sender and receiver must be subscribers and Federal Express guarantees two-hour delivery of copy brought to its offices.

**Cellular Mobile Telephones** are available from an increasing number of suppliers as rentals or outright purchase including installation. Phones access local telephone company lines through RF transmission to multiple stations.

## Attention Epson Computer Users

- ★ Need help with your hardware/software?
- ★ Frustrated over the lack of information?
- ★ Want to swap ideas and/or equipment?
- ★ Want a user group closer to home

We need nine people to form a SIG group under L.I.C.A. I have volunteered to initially chair this group until we can hold a formal election.

Please complete the form below and mail to:

Simon Lamhut  
2670 Ray Place, North Bellmore, N.Y. 11710  
or The Stack, P.O. Box 71, Hicksville, N.Y. 11802

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

### ♦ Important ♦

Where would you like to meet? \_\_\_\_\_

What is the best time for you to meet?

Month \_\_\_\_\_ Week \_\_\_\_\_ Hour of day \_\_\_\_\_

# basic BASIC PROGRAM

Here is a BASIC program which will alphabetize a group of words. The problem with many of these programs, there is no *error* checking.

My suggestion to the beginning programmer:

Type the wrong answer to line 30 INPUT "How many items are there to be alphabetized?".N Type a letter instead of a number.

Projects for *beginners* only!

- 1) Correct typos without disturbing the typist.
- 2) Find a way to end the program in a nicer fashion.
- 3) Try for better screen displays.

Send your answers to *The STACK*, Box 71, Hicksville, N.Y. 11802. I will publish all answers received with credit to the donors.

To convert the following from Poly BASIC

DIM A\$(N+1:20) means dimension a set of strings (N+1) times. If N=6 then seven times of seven different words such as "CABLE CAR DISK MOVIE PLAY COW ENGINEER." The colon is a delimiter. The number after the colon specifies the maximum length for any string. If an unknowing person types in "ANTIDISESTABLISHMENTARIANISM" as one of the answers, the computer will truncate the word to "ANTIDISESTABLISHMENT." People with other BASICS may only have to Dimension the strings to the number prior to the colon.

As in North-Star BASIC, a backslash is used to allow multi commands on a single line. The usual delimiter is a colon.

The word "LET" and letter after NEXT (as in NEXT I) are in the program for identification. They are *not* needed.

```
1 REM * Adapted from the book "SOME COMMON BASIC PROGRAMS"
2 REM * BY LONG POOLE AND MARY BORCHERS *
3 REM * Published by ORBORNE & ASSOCIATES, INC. *
10 PRINT TAB(20),"ALPHABETIZE"
20 PRINT\PRINT\PRINT
30 INPUT"How many items are there to be alphabetized?",N
40 DIM A$(N+1:20)\DIM B$(N+1:20)
50 FOR I=1 TO N
60 PRINT"ENTER ITEM NO. ",I,
70 INPUT A$(I)
80 NEXT I
90 FOR I=1 TO N
100 FOR J=1 TO N-1
110 LET A$=A$(J)
120 LET B$=A$(J+1)
130 IF A$<B$ THEN 160
140 LET A$(J)=B$
150 LET A$(J+1)=A$
160 NEXT J
170 NEXT I
180 PRINT\PRINT
190 FOR I=1 TO N
200 IF I<10 THEN T=2
210 IF I>9 THEN T=1
220 PRINT TAB(T),I,". ",A$(I)
230 NEXT I
```

## Discounts are Available to Our Members

L.I.C.A. membership card required as proof.

Store	Software Discount	Hardware Discount
COMPUTERLAND (Carle Place, Commack & Syosset .....	10%	5%
DATA ENTERPRISES .....	15%	15%
SUN COMPUTERS (E. Northport)	20%	other

# Complex Software? Blame "Power User"

by Harold L. Miller, Jr., *CL/NY Editor*

Adam Green stood right in the middle of a group of about 40 admitted "power users," his definition for the people who choose microcomputer software for large corporations, and told them they were at least partly to blame for the complexity of the software packages being foisted upon users.

Green's point was that the people in large corporations who end up making the purchasing decisions often are microcomputer enthusiasts who enjoy working with the products and who are, in his words, "techno-junkies" who need the fix promised by difficult, powerful software programs.

They decide what the rest of the users will have to work with and in many cases choose software packages such as dBase II that are complex, difficult to learn, and far more powerful than most users will ever need, according to Green.

The result is that to make the volume sales to corporations, software developers "have to add complexity to satisfy the power users," he said. "I tell developers to go for the power users. My market is power users. The problem is, that's not really who's using the machines."

Green was speaking at the monthly meeting of the New York chapter of the Association for Computing Machinery. His topic: "Where is microcomputer software going, and will we be happy when it gets there?"

He founded the now-defunct Software Banc, a value-added reseller of software and publisher of books on dBase II and Framework. Green has held training seminars for corporate users of the dBase II database program and said he learned during these sessions that many of the people learning dBase II could get by with a *much easier filing program* such as PFS: File by Software Publishing Co.

He was interrupted more than once during his talk by ACM members pointing out the need for programs for programs that users could "grow into" as they developed more expertise. "These power users often go on the basis of their own experience," Green acknowledged, and hark back to their own evolution in microcomputers. But many users don't want to become microcomputer experts; they just want to get their jobs done as easily as possible, he countered.

*Reprinted from Computer Living/N.Y. October 1984*

Elaine Muraskin, an independent consultant with experience in microcomputers and mainframes in large corporations, agreed with Green's profile of what she preferred to call the "power techie," but said these youngish, enthusiastic microcomputer experts don't really have the buying influence Green attributes to them.

She said in a telephone interview after Green's talk that "I don't agree with him that large corporations are going to look to someone that young for large-scale buying decisions."

The people who really decide, she said, are higher up the corporate ladder, aren't that technically proficient and tend to choose what they think is best for the ultimate users.

The young enthusiasts she said Green referred to certainly exist, she said — "I've seen more than one — and usually are men who are indispensable in implementing microcomputers into the corporations."

According to Green, he knows first-hand that some software companies intentionally make their products overly complicated. He said he was involved in the development of the integrated software packages Framework, by Ashton-Tate, the developer of dBase II and dBase III, and Symphony by Lotus Development Corporation, makers of the enormously successful Lotus 1-2-3.

In both cases the developers made sure they could excite the power user by building in complexity, said Green.

"There's a backlash coming," said Green, by users who don't appreciate having to master complex software for simple tasks. "People are rebelling against Framework and Symphony before they even get (the software)."

---

*Mr. Miller has asked me to poll  
L.I.C.A. members for their feelings. I  
have already sent a letter to the editor.  
The address:*

**Harold L. Miller, Jr.  
Computer Living/N.Y.  
155 East 23rd Street  
New York, N.Y. 10010**

**COMPUTER  
LIVING** 

COMPUTER LIVING/New York is published semi-monthly by COMPUTER LIVING/New York, Inc., a subsidiary of Computer Journalism, Inc., and an affiliate of Meyer Publications, Inc. Address: 155 East 23rd Street, New York, N.Y. 10010. Phone (212) 505-2600. Officers: Sylvan Meyer, president; Robert Johnson, vice president; Anne Meyer, secretary.

Advertising rates upon request. No part of this newspaper may be reproduced without permission of the Editor. All logo types, column names, section titles or other special content headings copyrighted. Trademark COMPUTER LIVING/New York. COMPUTER LIVING/N.Y. registered.

Single copy price, \$1.50; subscription price, \$18 per year, \$30 for two years, \$40 for three years, in the U.S.A.; elsewhere by mail, \$125 per year. Bulk rate postage paid at New York City and other post offices; second class rates will be applied for. Postmaster please send form 3579 to COMPUTER LIVING/New York, Subscription Services, P.O. Box 1142, Dover, New Jersey, 07801.

# Computer – Friend or Foe?

by Dave Minott

Do I really need a computer? Does my child need a computer? Will computers eliminate my job? Are computers taking over the world?

Some pretty heavy questions, I'd say! Let's try and strip away the smokescreens, and supply some logical answers to these questions.

Before we delve into these four questions, a few preliminary remarks are in order.

What is a computer? Well, we all know the answer to that!! It's a black (grey, white, mauve) box with a keyboard and a screen, and it does magical things. Wrong!

*A computer is a tool.* I would like to repeat that several hundred times, but space doesn't permit me that luxury.

A hammer is a tool; it allows you to get the job of nailing done quickly and easily. A thermostat is a tool. It allows you to set the temperature in your home for a comfortable range, and repeats your wish endlessly, alleviating the boring task of resetting it each day. You don't think much about your thermostat, do you? Of course not . . . it's been around for a while.

Well, computers haven't visibly been around the general population for any length of time, and like most new, innovative things, people are skeptical, afraid, terrified, and awed. That has to change.

*The Computer is a tool.* Like the hammer, it allows you to get a job done quickly and easily, and much like the thermostat, it can repeat your wish endlessly, without inducing boredom. An example or two:

Computers have now been around for years in many gas pumps, usually the ones that have the dials that light up.

They calculate the flow rate of the fuel, multiply it by the current price per gallon, and adjust for the tax. They do this very efficiently and accurately. They are less prone to break down than wheels, gears mechanical dials. By the way, this was probably the first mass application of microprocessors (the "heart" of microcomputers) in the country. (The "chip" used for this application was the Intel 4004, the father of the 8008, 8080, Z80, etc.).

These, and similar microprocessors, are now found in washing machines, sewing machines, blenders, ovens, and myriad other appliances.

Let us now take this same "chip," and connect it to a screen and a keyboard. We now have a microcomputer! (slightly over simplifying, but still valid.)

We now have "control" of the computer. We can make it work for us. We can have it keep track of our financial records, indeed, we can even have it analyze our financial condition, and make predictions based upon changes in our financial situation.

Computerized budgeting, computerized tax preparation, general record keeping; sounds good . . . maybe too good. It is easier to find a telephone number in a book than it is to turn on the computer, load in a program, run the program, remove the disk, and turn off the computer.

We must learn that computers still need valid information fed into them in order for them to make accurate use of this information. (GIGO – pronounced GUY GO – Garbage In = Garbage Out!)

What else have I heard? Oh yes, "I am going to have my computer control my whole house – control the lights, heating, air conditioning, burglar alarm, fire alarm, etc."

Well folks, that falls into the category of the Swiss army knife with thirty-two blades and a toothpick. No one tool can do every job, and do it well. If this is your goal, you'd do better with separate, dedicated devices for each of those jobs.

You say you have an extensive record album

collection, stamp collection, book collection, mastodon collection, (or whatever) and you would like to catalog it, alphabetize it, collate it, and file it. That's a simple task for a computer, but not for a human. This still is not an easy task for a human with a computer, especially if he has already collected 1400 mastodons.

The problems are ones of logic and stamina. You must decide how you are going to organize your information. Shall I enter my pet names for each of the mastodons; the length of their tusks; their preference for vintage wines?

The choices are many, however, generally speaking, the more information you have stored, the easier it will be to extract the information you want, i.e., how many mastodons do I have that are between the age of 40 and 70, and have lost one tusk?

Possible a more valid question might be, "What record albums have songs on them whose titles refer to 'moon'?", or "Gee, I am making up a tape for a friend. Find me all combinations of songs that will exactly total 22 minutes."

That's all well and good, but remember, a human must still enter all of the information about those 1400 mastodons into the computer, and it must be done accurately!

Does Johnny (or Susie) need a computer at home? In my opinion, the answer is a qualified yes. The qualification is that you do not need to start with an expensive computer. There are a number of home computers available for under one hundred dollars that still do the job admirably.

I hear you ask "What is the job?". Well, the job is to allow your child to learn the rudiments of computing. What is a computer; how does it work; what is a program; how do I write a program; etc? You don't need a \$2000 blinking wonder with tailfins and a "mouse" to do that job.

If your child shows a sincere interest, and "stays with it," then you might consider replacing the computer with a more advanced model.

"They keep bringing more computers into my place of business. Pretty soon they won't need me." Well, that depends upon several factors, basically, you, and the company. Will the company teach me how to use the new computerized "whatever"???

Will I try to learn how this new device will make my job easier and more productive?

Let's face it, the company is trying to maximize their profit with computers and computerized equipment.

With adequate training, we will become an integral part of this evolution, and in the process, learn some new skills, and make our jobs easier.

We must get over our fears. What we do now, in all probability, can be done quicker, easier, and more efficiently, through the use of computers and computerized equipment.

Most of us will probably only come in contact with computerized equipment, not computers "in the raw," and as they became more sophisticated, so will the people who design them, and cause the equipment to conform to the way humans work and think. Computers create jobs, not eliminate them. What will happen, is that gradually, some of the current jobs will be replaced by newer ones. This is evolution.

Computers are taking over the world in much the same way as the telephone, or the automobile. They are becoming ingrained in our society, and are becoming a way of life. As the mystique and glamor wear off, we will finally get down to the business of learning to use our newest tool as we have learned to use all tools in the past.

# **FileDriver v 1.30 – Part 5**

## **Summary**

As L.I.C.A. grows we obtain more and more members who are not interested in learning CP/M commands but rather, using programs. These people are likely candidates for purchasing FileDriver.

FileDriver is also useful to the seasoned people. It makes life easier and may be utilized in any of five modes.

**Mode 1** is the menu mode (outlined last issue).

**Mode 2** Command Line Mode allows you to access a utility by entering the utility name followed by command line arguments on your operating system's command line. CLM allows you to take full advantage of all FileDriver utilities.

**Mode 3** Argument List Mode gives you the ability to execute the same utility multiple times without re-loading the associated "COM" file, decreasing the amount of time it takes to process each command. Just enter the utility name followed by a Return and the internal ALM prompt will be displayed. At this prompt all you need to enter are the command arguments.

**Mode 4** Multiple Command Mode puts you in the utility environment that provides for rapid transition between utilities in situations when you

need to issue several different utility commands consecutively.

**Mode 5** Command File Mode gives you the capability to batch process frequently used groups of commands.

FileDriver information may be obtained from:  
**COMMERCIAL DYNAMICS CORP.**  
102 Sterling Court  
Syosset, N.Y. 11791

It is my understanding that FileDriver may be purchased in any of 40 different disk formats. I have found it useful and easy to use. The manual is a work of art. It is in English and the novice has only to scan the first chapter before installing the system.

There are step by step instructions throughout the manual and samples of test programs. The user is encouraged to try all tests and sample programs.

There are cross referenced listings in the Index plus a glossary of computer words. Add to this Default samples, a good "cheat sheet" (command summary), a Task Index, and you have a manual from which any user can select those sections which are needed at the time they are needed.

—Submitted by Al Levy

## **More on Loaning Programs**

from Small Computers in Libraries, April 1984

A California firm, United Computer Corp., began in 1983 to rent copies of commercial programs, such as WordStar, for seven days for a fee of 20-25 per cent of the normal purchase price. This caused great alarm among the publishers, since it was obvious that the renters could make a duplicate of the loaned copy and the manuals, then return the original. In effect, they'd pay only 20-25 per cent for their copies. Of course, the United Computer sales people informed the renters this was illegal, but . . .

There are a number of very murky legal issues in this matter. The fine print on the contract you get then you buy software says you are buying a "license" rather than the program, but the legality of that contract has never been tested in court. At any rate, MicroPro, publishers of WordStar, sued United Computer to get them to stop this rental system. Unfortunately for those who hoped there would be a definitive judgment on the matter, the suit has been settled out of court. United now has a license to rent MicroPro software, for which it will pay a royalty. In

addition, all rental copies will be protected with PROLOK disks.

This latter point is the important one for libraries. It would appear that if a library did loan copyrighted programs, using the PROLOK system, there would be little risk of being sued. MicroPro apparently felt that it will be protected by this arrangement at any rate. So it would seem that if a library used this same scheme, it would be showing at least a good faith effort to protect the original copyright holder's rights. Of course the issue of paying a royalty for each loan of such a program is a different matter. This controversy has been going on for years with regard to ordinary monographs. In some countries, authors do get royalties from library circulations. There has been some effort to establish that law in the U.S., but so far without success. The royalty issue, is, in any event, separate from the program copying itself. PROLOK seems to offer a fairly good solution to the latter.

# Free Software

Review by Al Levy

*The Free Software Catalog and Directory* will soon be available in book stores. It was written by our own Robert A. Froelich.

The book is for all computers capable of running CP/M operating system including Atari, Apple, Commodore, Digital Equipment, IBM PC and PC Jr. with a Z-80 board plus 250 other computers using CP/M.

In other words, the majority of computers in use today.

The book is 475 pages fat and sells for \$9.95 list. This comes to two cents a page (or less than it costs to copy!)

There is a printed Tab Index on the back cover which guides the reader to the appropriate section at a glance.

The first few pages describe uses of the book and the software. This is broken down into sub-sections for the newcomer to micros up-to and including the seasoned programmer.

There is a chapter on *Free Software and Its Sources*. This includes guides to useful magazines, user groups, library announcements. Full credit is given to the various groups and people responsible for the Public Domain concept in computer programming.

Many addresses are given including user groups, copying services, rental services and more.

There is a lovely section describing a computer club meeting. (Sounds like a group I know.)

Many people will enjoy the section on Bulletin Boards which describes other sources of *Free Software* and has a complete rundown on accessing a Bulletin Board with a step by step procedure. There are even a few sample programs in the book.

Chapter three deals with program documentation and how to read it. Many of the public domain programs are listed with examples of their usage.

One hundred plus File types are described by extension. Each has a line or more of descriptive text.

There are seven directories within the book. The first is a directory listing of the CM/Mug library. The second is a listing of the SIG/M library.

A very handy section is the *Keyword* directory. I found it helpful in finding bulletin board software for friends. Just look up "bulletin" and on pages 263/64 you will find forty-three sub-headings each with references to disks which contain the appropriate software. There are even references to magazine articles!

The language directory is an alphabetic listing of all source files in the catalog by the programming language in which they were written. This helps in finding the exact source codes for which you are searching.

The Author directory provides an alphabetic listing of the authors and revisors of all the files presented in the catalog. I found Jeff Kravitz (former L.I.C.A. president), Ralph Kenyon (good friend and speaker at L.I.C.A.), Mark Zeiger (former L.I.C.A. president) plus many other familiar names.

The file name directory will probably be the one you will use the most. All files are listed in alphabetic order and helps to find other (related) files with similar names.

The bulletin board directory has ten pages stuffed with phone numbers. Thank you Robert (they are in Area Code order for a change!) Bob lists two bulletin board numbers in Jericho so that other numbers may be added or corrections made for wrong numbers in the next edition of the book.

At 300 baud, dial (516) 496-4432 or at 1200 baud, dial (516) 496-4434 to access these systems.

The last directory in the book is a listing of Computer Club User Groups (in ASCII order). Each club is listed with an address.

Unlike most computer books, this one is reasonably priced. My feeling "buy it when it is released." You can't lose.

I am in the process of contacting the publisher to see if L.I.C.A. can bulk order the books for resale to members and other computer clubs. For more information, contact:

**CROWN PUBLISHERS**

One Park Avenue  
New York, N.Y. 10016  
(212) 532-9200

## L.I.T.R.U.G.

The TRS-80 Users Group meets on the second Friday of each month in the 500 Building in Room 508. The meetings start at 8:00, but most members start showing up at 7:00. Members also gather together at 7:00 on the third Friday, just before the L.I.C.A. meeting.

## L.I.T.R.U.G. Bulletin Board

Racs I BBS will now be used as the official L.I.T.R.U.G. BBS as well as being a general purpose/all computer

**The BBS telephone number is (718) 343-2307**

**24 Hours - 7 Days - 300/1200 Baud**

**THE  
FREE  
SOFTWARE  
CATALOG  
AND  
DIRECTORY**

THIS BOOK IS FOR ALL COMPUTERS  
CAPABLE OF RUNNING CP/M OPERATING SYSTEM,  
INCLUDING ATARI, APPLE, COMMODORE, DIGITAL EQUIPMENT,  
IBM PC AND PC JR. WITH A Z-80 BOARD  
AND 250 OTHER COMPUTERS USING CP/M—  
THE MAJORITY OF COMPUTERS IN USE TODAY.

**ROBERT FROEHLICH**

Cover design for THE FREE CATALOG AND DIRECTORY by  
Robert Froehlich, published by Crown Publishers, Inc., 1984.

## Sanyo User's Group

The Sanyo User's Group will have its first meeting on November 16 at 7 p.m. before the general L.I.C.A. meeting in Bldg. 500 at the Old Westbury Campus. There will be a demonstration, lecture and comparison between the Sanyo 555-2 and the IBM PC Jr. and points of superiority of the Sanyo over the PC Jr. Judith A. Picard, Secretary of the L.I.C.A. SIG is owner-operator of a successful computerized mail order business, a teacher and lec-

turer on computer use. Judy will discuss the virtues and shortcomings of Easywriter, WordStar, InfoStar, and MBasic. Judy will also talk on the availability of domain software and the L.I.C.A. bulletin board. Beginners will find the lecture-demonstration invaluable; more advanced computernicks will find it informative.

—Submitted by Herbert Jaffe



## MacIntosh SIG

The first meeting of the MacIntosh SIG started at 7:15 p.m. on October 19 before the L.I.C.A. general meeting with a gathering of seven MacIntosh enthusiasts.

Since this was the first meeting, no old business was conducted. A selection of club history was presented. A general discussion of the MacIntosh computer and programs took place after an introductory survey to break the ice.

The general feeling about this first meeting is

that the time went very fast.

Next month we will have a MacIntosh machine on hand. Being demonstrated will be *DB Master* by Stoneware, as well as a comparison between *PFS File* and *DB Master*.

Anyone — without a Imagewriter Printer (and a Macintosh computer) — group will make printouts. Nominal price, cover costs. See Donald Hennessy.

—Submitted by Donald Hennessy



## Fran-Apple SIG

The Fran-Apple group meets regularly during the hour before the general L.I.C.A. meeting, from 7 to 8 p.m. on the third Friday of the month.

In October, Fred Piscop demonstrated Apple Logo, ably assisted by Dina Cohen. Apple Logo requires 64K and one disk drive. It offers full text, full graphics or split screen options. Using simple instructions, which can be combined in structured programs, it is possible to create complex graphic

representations.

Marty Steinberg announced that his Smithtown Apple Franklin Users group has just produced its first publication. Congratulations. This group meets on the third Thursday of each month.

Next month our group will discuss modems, hopefully with a demonstration.

—Submitted by Susan Heimlich

## Beginner's Group

Rob Fishbein of the L.I.T.R.U.G. Special Interest Group (SIG) is leading a beginner's group question and answer round table at the L.I.C.A. general meetings. At these round tables, he will field any and all questions.

## Bits and Bytes

One of the best-kept secrets of computer salespeople is that there are megabytes of free programs available for personal computers from computer clubs. Last week the Long Island Computer Association, LICA, — took a much deserved swipe at firms that are selling this freeware for as much as \$15 a disc — legal but unethical, according to LICA's newsletter. Why not join LICA (\$12 per year) and copy the stuff yourself? Write to LICA, Box 71, Hicksville, N.Y. 11802. . . Check out Borland International's Sidekick program. For \$49.95, it does windows. ■■■



**L.I.C.A.**

**Special Interest Group Forming**

**MacIntosh**

Meets monthly  
on 3rd Friday from 7-8 p.m.  
at the Old Westbury Campus

**Chairman: Donald Hennessy  
(516) 541-3186**

## **RANDY TELLS ALL — "THE INNERMOST SECRETS OF THE T.I. 99/4A"**

By popular demand, COMPUTER SHOPPER has compiled Randy Holcomb's series, "The Innermost Secrets of the T.I. 99/4A" into book form. We are offering our readers the opportunity to purchase this "must have" book for 99 users.

Over the past several months, Randy has explored the TI 99/4A in detail. He explained the innerworkings of the 99, the architecture of the TMS 9900 microprocessor, gives assembly language programming tips and much more.

Hundreds of requests have come into the office for reprints of these information packed articles. Use these "secrets" to expand your T.I. 99/4A. Order the book "Innermost Secrets of the T.I. 99/4A" by mailing the coupon below to our offices today!

YES, rush me my copy of Randy Holcomb's "Innermost Secrets of the T.I. 99/4A" for \$5.95 a copy.

I have enclosed a check or money order for \$5.95.  
Please bill my  Mastercard,  VISA.

Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_

Name on card \_\_\_\_\_

Signature \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please allow 6 to 8 weeks for delivery.

COMPUTER SHOPPER • P.O. Box F • Titusville, FL 32781

A REFURBISHED DAISY WHEEL PRINTER  
FOR PERSONAL COMPUTER USERS AND SMALL BUSINESSES.

## **Three-In-One Offer! Just \$598 (Includes On-Site Warranty)**

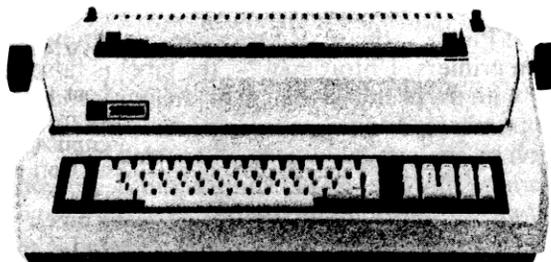
- A 30 cps letter-quality printer
- A timesharing keyboard terminal (when modem equipped)
- A Selectric\*-style keyboard typewriter

All daisy wheel printer terminals are renowned for exceptional performance, high reliability, and applications versatility. Now you can have all this for only \$598\*\* in our special limited offer.

- 30 cps letter-quality printing
- Changeable type faces
- Full ASCII keyboard with numeric pad
- High resolution X-Y plotting
- Complete electronic forms control
- 128-character buffer
- Asynchronous RS-232 interface
- Printwheel, ribbon cartridge, and cable included
- 30-day parts/labor warranty

And you can choose from a list of options including forms tractor, pin-feed platen, paper trays, side shelves, extra printwheels, APL keyboard and 2K buffer.

For information telephone Ted Friedman  
201/794-9300



\*\*Suggested selling price, excludes options and is subject to change without notice. Model shown includes certain options. Offer available only in the contiguous U.S.

\*Selectric is a trademark of IBM.

**ANDERSON  
JACOBSON**  
12-01 Pollitt Drive  
Fair Lawn, NJ 07410

We service IBM personal computers and peripherals at your home or office.

# ***In the Land of the Blind***

by **Burton Bhavisyat**

This is a reader-participation column. Each month I discuss a series of good questions that have been posed by individuals in users groups across the country. AND I give the answers that have been sent in by other users, i.e., *you!*

This is the second monthly column. In the premiere column, a number of questions were asked for which some of the answers will be releaved later in this month's column. But first, let's consider some new questions that have been asked since last month's column appeared. These questions need answers. If you are so fortunate as to know any, please write and share your knowledge – you may be sure that each answer will be fully credited.

## **No. 1 from Dr. Charles Hedbring of New York City . . .**

“Would you please tell me what the ‘basic’ differences are between GW-Basic, BasicA, and Basic-86. You don't have to be technical . . .”

—*Just the basics, please. (Maybe someone could take a basic survey to determine how many people are basically offended by this base pun).*

## **No. 2 from Tech. Sgt. Kenneth Lee at Loring AFB, Maine . . .**

I'm in the Air Force... in northern Maine, a remote area with few stores much less any computer stores . . . I have orders to Shemya, Alaska . . . one of the last islands on the Aleutian chain with NO stores – so no advice and no service. I'm interested in buying a micro-computer to help pass the year away. I enjoy computer games, I want to learn how to program, I want to use the computer for educational exercises for my three kids, and for other uses – finance, letter writing, storing info, etc. So . . . what computer do I choose?”

—*When you're sitting at a comfortable desk in a cozy office, it's hard enough to make a good decision about a new computer. How about if you're going to be stranded thousands of miles from anywhere on a frozen island? How's THAT affect the decision? Think about it.*

## **No. 3 from Al Kirschenbaum of Kagel Canyon, California . . .**

“I'd like to know if there's a practical way (plug-in, preferably) to allow an IBM PC to read from, write to, and work with my Apple CP/M text files . . . Dealers I've spoken with don't seem to think any of this is possible, much less practical. What's the word?”

—*Dealers have a terrible reputation when it comes to providing answers for customer's questions. It's probably the biggest complaint I hear. Do any of you readers want to show up Mr. Kirschenbaum's dealer?*

## **No. 4 from Skillman Hunter of Mission Viejo, California . . .**

“Can you tell me why the computer industry has never implemented a data structure of TYPE MONEY? When I was an engineer, I appreciated TYPES INTEGER, SINGLE PRECISION, DOUBLE PRECISION, LOGICAL, COMPLEX, and STRING . . . Now I am a manager and deal only in Dollars and Cents, variables of TYPE MONEY.

Engineers design computers. So it is easy to understand why this mode has been ignored. (Everyone knows that engineers have fundamental lack of interest in money). But businessmen are the current prominent purchasers of computers . . . can you tell me of anyone anywhere who provides a software operating system/compiler/programming language/application program that provides a data structure of TYPE MONEY . . . which will add/subtract/multiply/divide/exponentiate in a rounded manner that does as well as my \$19.95 calculator? (COBOL is an unacceptable answer to these questions).”

—*Now that seems like a reasonable request. And I agree totally with his comment about COBOL. Any of you programming types know about a MONEY TYPE?*

## **No. 5, and last, from Theresa M. Mullarkey of Locust Valley, New York . . .**

(Questions of this kind have been bothering a lot of people for a long time. Perhaps someone has some good ideas how a company can sell its products in a secure manner, without running the risk of offending the customer).

“I recently purchased VisiTrend/Plot . . . the sealed package containing the program indicated the program was compatible with Epson printers. Unfortunately, the label is false. The manual specifically says the program is compatible only with the printers listed in the manual, and Epson is not listed . . . I am terribly disappointed with this new purchase. Would your magazine address the problem faced by consumers who must rely on information printed on the outside of a sealed box?”

—*If you have a similar complaint to this one, let me know about it. If I can get enough replies, I've got a few ideas about what can be done . . . more on this, later.*

Before getting into some replies for questions from the previous column, I'd like to personally reply to one that is asked quite frequently (by the way, your replies have not exactly flooded my mailbox – maybe you readers aren't as knowledgeable as I thought – how about proving me wrong?)

**From Gilbert Yamamoto of Honolulu, Hawaii . . .**

"I am curious to know if there are add-on boards which will enable me to run PC-DOS or MS-DOS software in my 8-bit machines? (A Basis-108 and a NEC PC-8000)."

My reply to Dr. Yamamoto: "Try writing:

HSC, Inc.  
262 East Main Street  
Frankfort, N.Y. 11340 — (315) 895-7426"

They claim to have a "attached resource processor" which will "dynamically upgrade a CP/M-80 system to process under CP/M-86, MS-DOS (2.11), or CP/M-68K with no programming effort." And listen to this — they will give you an 8086, with 256K RAM, the MS-DOS system, plus software to turn the 256K into a RAM disk for the old (but still useable) Z80 system — and all for the incredible \$650 selling price! Let's see now — where's my checkbook?

As you all remember from last month (right?), Michael Kaill of Anchorage, AK wanted to know about a program called "UniForm." Well, Mr. William Hutchinson of Exton, PA states that "UniForm is a program that allows a computer to format (initialize), read, and write disks in 18 formats, including IBM PC-DOS. It is not a copy-protected program, and is available for the Osborne I, and KayPro 2, 4, and 10 from . . .

Algorithmic Technology  
P.O. Box 278  
Exton, PA 19341

*—I guess we should assume that UniForm will work on any of the 18 formats once you copy UniForm using UniForm.*

Remember Alan Pratt who was looking for a program that could create "uncopyable copies" so he could lend out programs from a software library? It so happens that a package commonly available called "PROLOK" is all you need to do that trick (and a bunch of others).

*—Please direct all questions and all replies to:*

Land of the Blind  
c/o Burton Bhavisyat  
Route 1, Box 318  
Moundsville, WV 26041

Replies will appear either in this column, or back to you, if you send SASE. Thanks.

### ***Another Way to Look at It***

Have you ever noticed how dry computer magazines tend to be? I find that rather strange because most of the computer people I know have personalities that are definitely not standard. Computer types are actually pretty funny (you can take that any way you like). I get amusing stories, anecdotes, and various witticisms coming my way all the time. Here's a few I'd like to pass on to you (maybe you have some to pass on to me):

Q: How many programmers does it take to change a light bulb?

A: None. That's a hardware problem!

(Programmer ethnic jokes, now?)

Q: What's the worst austerity for a programmer?

A: Trying to keep a straight face when listening to the glories of COBOL.

(Sorry . . . that's a personal opinion).

Here are some wise sayings that I stole from other sources:

- ☞ *If a listener nods his head when you're explaining your program, wake him up.*
- ☞ *Every program has (at least) two purposes: the one for which it was written and another for which it wasn't.*
- ☞ *Once you understand how to write a program, get someone else to do it.*
- ☞ *Everyone can be taught how to sculpt: Michaelangelo would have had to be taught how not to. So it is with the great programmers.*
- ☞ *It is easier to change the specifications to fit the program than vice-versa.*
- ☞ *Fools ignore complexity. Pragmatists suffer it. Some avoid it. Geniuses remove it.*
- ☞ *When someone says: "I want a programming language in which I need only say what I want done," give him a lollipop.*
- ☞ *Computer Science is embarrassed by the computer!*
- ☞ *It goes against the grain of modern education to teach children to program. What fun is there in making plans, acquiring discipline in organizing thoughts, devoting attention to detail, and learning to be self-critical?*

I stole the above from the ACM SIGPLAN of August 1982, an article by Alan J. Perlis.

# Morse Code Data Handler

by Dave Bushnell (L.I.C.A.), PolyMorphic SIG

Here is a Morse Code data handler first presented by Bruce Filgate, an engineer at Digital Equipment Corp., in *Byte* magazine, October 1976 (an issue totally devoted, by the way, to hams and the personal computer).

The source code was converted for use on an 8K Poly-88, and several improvements were added. A quick perusal of the source code will reveal many inefficiencies, because this was the current author's first crack at 8080 assembly language programming. The project was intended as a self-learning device, in both software and the necessary hardware interfaces.

Some of the features of this extremely useful package:

- ◆ Speeds from 5 to 50 wpm, selectable in nine 5-wpm steps. A tenth option will select the exact speed of the incoming signal.
- ◆ The speed of the received signal is automatically noted. Any variable is detected and tracked within seconds.
- ◆ Noise pulses out of sync with the incoming baud rate are ignored.
- ◆ Weighing is 1 dash to 3 dots.
- ◆ Pauses produce 1 space, enhancing readability of received text.
- ◆ Internal buffers for messages (CQ de Callsign).
- ◆ Display of message buffers after loading but prior to being sent.
- ◆ A buffer may be repeated constantly in a 'test' mode.
- ◆ The program may be easily converted for RTTY use.

The program displays whenever it receives: a poor fist is likely to result in NNQ rather than CQ. The human ear has no substitute, it seems. The higher, machine-generated speeds is where the program shines, however. It is a real pleasure to be able to sit back and copy the fast ones!

The Poly's printer board was already cut for current loop modem processing (CLO & CLI) and subsequently altered slightly for the proper digital signals in keying and receiving CW (DTR- & DSR-). Operation of the input circuit and software logic may be tested by handkeying (grounding) DSR- (pin 6) of the printer board. After a moment's lock-on, the letters will march across the screen.

In addition to the printer board considerations, a transceiver interface must be provided. Whereas to key the transmitter requires no more than a simple 3-transistor switching circuit for a choice of positive or negative keying, converting the audio is a more involved affair. The essential areas are filtering and amplification.

The author's notes on the interfaces are sketchy but usable after seven years in the files. They have been passed along to *The STACK* Editor for anyone interested. The input circuit was gleaned from three separate QST articles in the previous ten years. Circuit values were 'cut and paste' using an oscilloscope and audio signal generator.

As mentioned at the outset, this was a learn-while-doing project, and the reader is challenged to pick up the ideas presented here and improve on them. I look forward to ragchewing with any member using this or a similar package - at a very high speed, of course! 73 de Dave K2DZ.

PROGRAM LISTING Starts Next MONTH !  
INTERFACE DIAGRAM →

## Commercial Advertising Policy

In an effort to cover our costs of duplication and mailing, and to provide a more extensive monthly edition of *The STACK*, commercial display ads are accepted in 1/4, 1/2 and Full Page sizes. Minimum participation is for three months.

The monthly rates are \$150, \$175 and \$225 respectively. Copy need not be the same each month. Camera-ready preferred. Typesetting and layout work available at additional charge. All checks should be made payable to L.I.C.A.

*The STACK* is mailed to other computer clubs on an exchange basis as well as to various technical publishers.

Permission for reprinting or quoting items in *The STACK* is granted, providing that credit is given and a copy of the reprint is sent to *The STACK*.

Member articles and other data affecting *The STACK* must be received by the first of any month, to be published in the following issue. All copy should be sent to:

Al Levy, P.O. Box 71, Hicksville, N.Y. 11801  
(516) 293-8368



# Officers and Services of the Long Island Computer Association

President—Michael Hofer ..... 822-8171  
 Vice President—Dave Minott ..... 825-2282  
 Secretary—Josh Weinberg ..... 626-9706  
 Treasurer—Stan Misel ..... 798-5214

**CBBS – L.I.C.A. Bulletin Board System – (516) 561-6590**  
 24 HOURS EVERY DAY

**STACK Address and Phone**  
 Box 71, Hicksville, NY 11802 – (516) 293-8368

**L.I.C.A. UNIX (XENIX) Bulletin Board – (516) 451-7949**  
 Weekends — 7 p.m. – 10 p.m. — Weekdays  
 L.I.C.A. Membership only                      Password Required

**L.I.C.A. Hotline – (516) 579-8447**

5000 copies of *The STACK* are distributed throughout the U.S.  
 35 copies of *The STACK* are distributed  
 to each of the libraries in all Nassau and Suffolk counties.

## THE STACK STAFF

Editor ..... Al Levy  
 Mail Distribution ..... Dick Nicewicz  
 Library Distribution ..... Josh Weinberg  
 Contributor ..... Susan Heimlich  
 Cartoons ..... Mel Cooperman  
 Typesetting ..... Michael Bonner  
 Advertising ..... Al Levy

## Long Island Computer Association Inc. Special Interest Groups

Sub-Group	Chairperson	Phone (516)	Meetings Each Month
6502	George Carlson		3rd Friday, 7:00
Atari	Michael Grussel	794-4895	3rd Friday, 7:00
'C'/UNIX/XENIX	Juan C. Villar	334-0176	
Commodore	Julie Schwartz	575-9368	3rd Friday, 7:00
Fran/Apple	Susan Heimlich	759-9716	3rd Friday, 7:00
IBM—Suffolk	Arthur Skopec	(212) 359-0425	2nd Friday, 8:00
IBM—Nassau	Arthur Skopec	(212) 359-0425	1st Friday, 8:00
Kaypro	Kenneth Blair	878-6631	Last Monday, 8:15*
NEC	Jerry Worthing	735-2952	Call for information
PolyMorphic	Al Levy	293-8368	3rd Friday, 7:00
S/100 CP/M	Bob Sewall	541-4837	2nd Friday, 8:00
TRS-80	Rob Fishbein	(212) 631-9642	2nd Friday, 7:00

\* Plainview/Old Bethpage Library – 999 Old Country Road, 8 15

### Now Forming

Business & Finance	Needs Chairperson	
Epson	Simon Lamhut	785-3337
Lawyers User Group	John P. Reali	
Sanyo	Herb Jaffe	868-7461
Timex-Sinclair	P. J. Donnelly	
Wang	Needs Chairperson	

## MONTHLY MEETINGS

All meetings are held at the New York Institute of Technology, Old Westbury Campus. L.I.C.A. general meetings are on the third Friday evening at 8:00 in Room 508, Building 500.

**The Long Island Computer Association, Inc.** is open to everyone, amateur or professional with an interest in computers, computer applications, programming, or related subjects. Dues are \$12.00 per year which includes monthly issues of this publication.

**Business Card Advertising**

The STACK will be printing a page of business cards. Yours can be included. Cost to members is \$25 per year, non members \$50 per year. Your business may be computer related or not.



(212) 465-8529



**Compu-Aid**  
MICRO-COMPUTERS  
SALES - SERVICE - SUPPLIES

H. ROMERO  
Engineer

222-68 BRADDOCK AVE.  
QUEENS VILLAGE, NEW YORK 11428



**COMPUTERS  
VIDEO**

**SPECTRUM PROJECTS**

93-15 86th DRIVE  
WOODHAVEN, N.Y. 11421

(212) 441-2807 (VOICE)  
(212) 441-3766 (DATA)

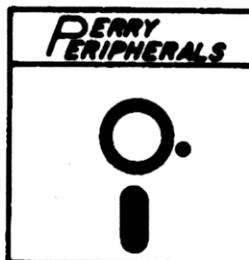


BRUCE E. BARCHAK  
JOHN P. GRECO  
COMPUTER SYSTEMS CONSULTANT

**Business  
Operating  
Support  
Group**

(516) 889-8779

4584 AUSTIN BLVD.  
ISLAND PARK, N.Y. 11558



STEVEN E. PERRY

BOX 924  
MILLER PLACE, N.Y. 11784  
(516) 744-8482

PERIPHERALS and SOFTWARE  
for 8502 MICROCOMPUTERS  
an HDE DISTRIBUTOR

Programming and  
Repair Service



ELECTRONIC ORDERING  
1-516-293-5519  
CBBS

DAVE SCHWARTZ, OWNER  
1-516-293-5698  
VOICE

**EDBM Enterprises**  
315 NORTH UTICA AVENUE  
NORTH MASSAPEQUA, N.Y. 11758

TELEPHONE, MAIL & ELECTRONIC ORDERING OF:  
COMPUTER PERIPHERALS, SUPPLIES, ACCESSORIES  
AND OTHER ASSORTED GOODIES

Robert Bernstein, CLU, ChFC  
**HOME COMPUTER INSURANCE**



Insurance & Investments

**Royal Brokerage**

330 Motor Parkway  
Suite 203  
Hauppauge, NY 11788  
516 - 435-1666  
Hicksville  
516 - 935-7002  
West Islip  
516 - 669-6667



**Watkins**

Since 1868  
Famous for Watkins Vanilla, Extracts and Spices  
Add a Little Spice to Your Life

**MARY and MICHAEL BONNER**

17 Kenilworth Drive  
East Northport, New York 11731  
(516) 754-1427



ASSOCIATED  
PHOTOGRAPHERS  
INTERNATIONAL



MEMBER

James M. Walsh  
Freelance Photography  
28 Birchwood Pk. Dr.  
Syosset, N.Y. 11791  
(516) 433-3592

Special Projects / Portfolios / Copying



## INNERLOGIC COMPUTER CENTER

15 W. Marie Street • Hicksville, N.Y. 11801

☎ 516/931-5505-6

# Getting Down to Business

We have Long  
Island's largest  
selection of  
Commodore software

Computer classes  
on premises

### BBBS-WATCH (Bulletin Board System)

**(516) 822-5323**

has a complete listing of other Bulletin Board phone numbers

### SPECIAL THIS MONTH: PROFESSIONAL PACKAGES

**SPECIAL**  
**INNERLOGIC 5 1/4" DISKS**  
Package of 10  
**\$13<sup>95</sup>**

**PANASONIC 1091**  
**\$399<sup>00</sup>** ✓ this Price  
☎ 931-5055

### INTERNAL 20 MEG. HALF HEIGHT HARD DISK

IBM PC compatible

**\$1595<sup>00</sup>**  
*with this ad only!*

### DATA GENERAL DG1 PORTABLE (9 1/2 lbs.)

*Come In for Demo*

### MAXELL MD1 DISKS

Package of 12

**\$21<sup>95</sup>**

TRIVIA FEVER available for all computers

**IBM PC**  
2 drives. Monochrome monitor.  
Display/Printer card.

**\$2499**

We have **ENABLE**

- ▶ Spread Sheet
- ▶ Data Base Management System
- ▶ Word Processing System
- ▶ Graphics
- ▶ Telecommunications

### ◆ NOTICE ◆

IBM, APPLE, COMMODORE repairs done on premises

### Super Sale Special

COMMODORE/64 • Disk Drive • Printer  
Word Processor • Data Base

**\$819<sup>00</sup>**

*We pin Commodore drives*

**CLASSIFIED ADS****CLASSIFIED ADS****POSITION(S) WANTED – EQUIPMENT TO TRADE – OFFERS OF HELP OR HELP NEEDED – NO CHARGE**

Non-member ads 50c a word. \$10.00 minimum.

Members: \$5.00 per issue. If a classified ad is particularly lengthy, there will be additional charges.

**POSITION WANTED:** Computer Science instructor and consultant with 14 years experience on various mainframes, minis and micros. (IBM 4341, IBMS34, Apple, Corvus networks, etc.) Seeking challenging employment opportunity. (1284)  
Marty Cooper, (516) 363-7430 after 6 p.m.

**CERTIFIED PUBLIC ACCOUNTANT.** Business/Individual accounting. Computerized tax service. Microcomputer Consultation. Custom programming. Training in the business application of desktop computers. Helen Silva, (516) 589-5223. (1284)

**APPLE II + (64K)** 13 months old. Disk II with controller (new), and Apple II monitor. Asking \$1240. (1284)  
Contact: Mark Saidons, (516) 928-0812.

**IBM 5120** with dual 8-inch disk drives and printer. Best offer. Call Bill McNiff, (516) 567-3200. (1284)

**DON'T THROW THEM AWAY!** I'll buy any and all PolyMorphic boards or parts. Also looking for NEWTECH music board. (1284)  
Call Al Levy, (516) 293-8368

**FOR SALE – TRS Color Computer.** 32K, disk control, 2 disk drives, joy sticks, much software and ROM packs. \$400. (1284)  
Call Eleanor Pettaway, (212) 289-6444.

**FOR SALE Video Monitors –** 12 inch, 19 inch and 21 inch, like new or new. Composite video input, monochrome (Apple compatible) \$75 and up. Intelligent CRT terminal. ADDS Regent 60, excellent cond. Sold new for over \$800, asking \$250. Computer power supply – input: 115/220 VAC. Output: 5V (α 30A, +12V (α 2A, 12V (α 4A, 24V (α 3A. 15.5" x 11 5.75, \$35. APPLE II +, 64K, CP/M card/Z80, 80 column, dual disk drives, game controller, parallel printer interface (no printer), 12" monochrome monitor and a library of games on diskette. \$1,500 takes it! 5 1/4" drives, floppy 48 tpi \$125, 96 tpi \$150, 5 MB Hard \$250 (ST 506 interface). 5 1/4 MB Hard Disk with Konan controller, adapter, cables and software for APPLE II ready to plug in. Comes with documentation. Like new. Orig. cost over \$1700, now \$750. 300 baud Omnitech modem with following features: acoustic coupler, DAA, RS232, current loop, \$75. (1284)  
Call George, after 6 p.m., (516) 249-1670

**PROGRAMMERS!** Interested in sharing a co-op office? Great address, phone answering, eight K in software, 24 hour access, limited openings. Micro Computer Associates, Inc., 60 Broadhollow Road, Melville, NY 11747. (516) 361-5700. (1284)

**FOR SALE Eagle Spirit PC –** 2 drives, color/mono card, serial and parallel ports, MS-DOS, BASIC-A and CP/M 86, 9" green screen, a portable IBM-pc, beautiful, new, in box, manufacturer's warranty; (list \$2495), \$1885. **Okidata 84 serial printer,** latest e-proms, mint, in box; (list \$1100), \$850. **(Step-2 e-prom upgrade for your older 84 printer with instructions, \$45.)** **SemiDisk S-100** one megabyte RAM disk card with CP/M and TurboDos software, mint; (list \$1695), \$1285. **California Digital S-100,** 256k RAM disk card, mint, can replace 64k chips with 256k chips for two megabytes on one card; (list \$695), \$399. **Epson Print Buffer:** Quadram parallel-to-parallel 8k (user expandable to 64k), mint, in box; (list \$169), \$99. **US Robotics 212A** 1200/300 baud modem, Hayes SmartModem compatible, auto-originate, answer and dial, mint, in box, one year manufacturer's warranty; (list \$599), \$375. **Qume QVT-102** green screen terminals (2 available), mint, in box, manufacturer's warranty; (list \$695), \$399. **Xerox 820-1** upgrade to double-sided, double-density drives from SWP. Both 8" and 5 1/4" models available, mint; (list \$200), \$140. **MPI B-52 5 1/4" DS DD 40 track Disk Drives,** excellent condition, \$125. **TEAC 80 track DD single-sided Drive,** excellent condition, \$125. **Diablo Metal 88 character Print Wheels,** many styles from. Titan 10-pitch to Roman PS, used, excellent condition, \$20 each. **Vista rack-mount** and table top horizontal two full size 8" drives (floppy or hard) case with power supply. Drives mount on an internal cage sliding cage which allows access to the drive and its options areas without dismantling, mint, beautiful design; (list \$529), sell \$350. **Tigertronics** serial-to-parallel converter (no character buffering) with parallel cable, mint; (list \$102.50), \$79. (1284)  
Call Bob, (516) 921-1465.

**QMT Tri-Writer card** for installation into your Silver Reed typewriter (EX 42, 43 or 44) a like-new QMT Tri-Writer card which provides both advanced word-processing functions for the typewriter and a computer interface w/cable for Kaypro or other like parallel port. \$185. (1284)  
Harvey J. Gardner, (516) 271-6263

**HELP!** I have a Xerox 820 with a dual 5 1/4 disk drive Single density. I am looking for manuals or primers for the following software:

1. NAD (Structure Systems Group, Inc.)
2. Q SORT (Structure Systems Group, Inc.)
3. ANALYST 1,2,3 (Structure Systems Group, Inc.)
4. DATASTAR (Micropro International Corp.)

I have the following brand new software, "**Microlife Abscom & Syscomm**" communication software to be used with the following computers: IBM-PC, Columbia data products MPC & VP, Eagle PC with 128K bytes of memory. I can not use them on my Xerox 820. The retail is about \$195; will sell for best offer.

Contact Mel J. Patto, 14 Comet Road, Syosset, NY 11791. (516) 681-2566. (1284)

**APPLE II +, 48K, DOS 3.3, mon + RF mod.** Accounting, Data Management software included (and integrated with) Visicalc. Many extras. \$1300. (1284)  
Days: (212) 488-2403; Eves.: (212) 474-8456.

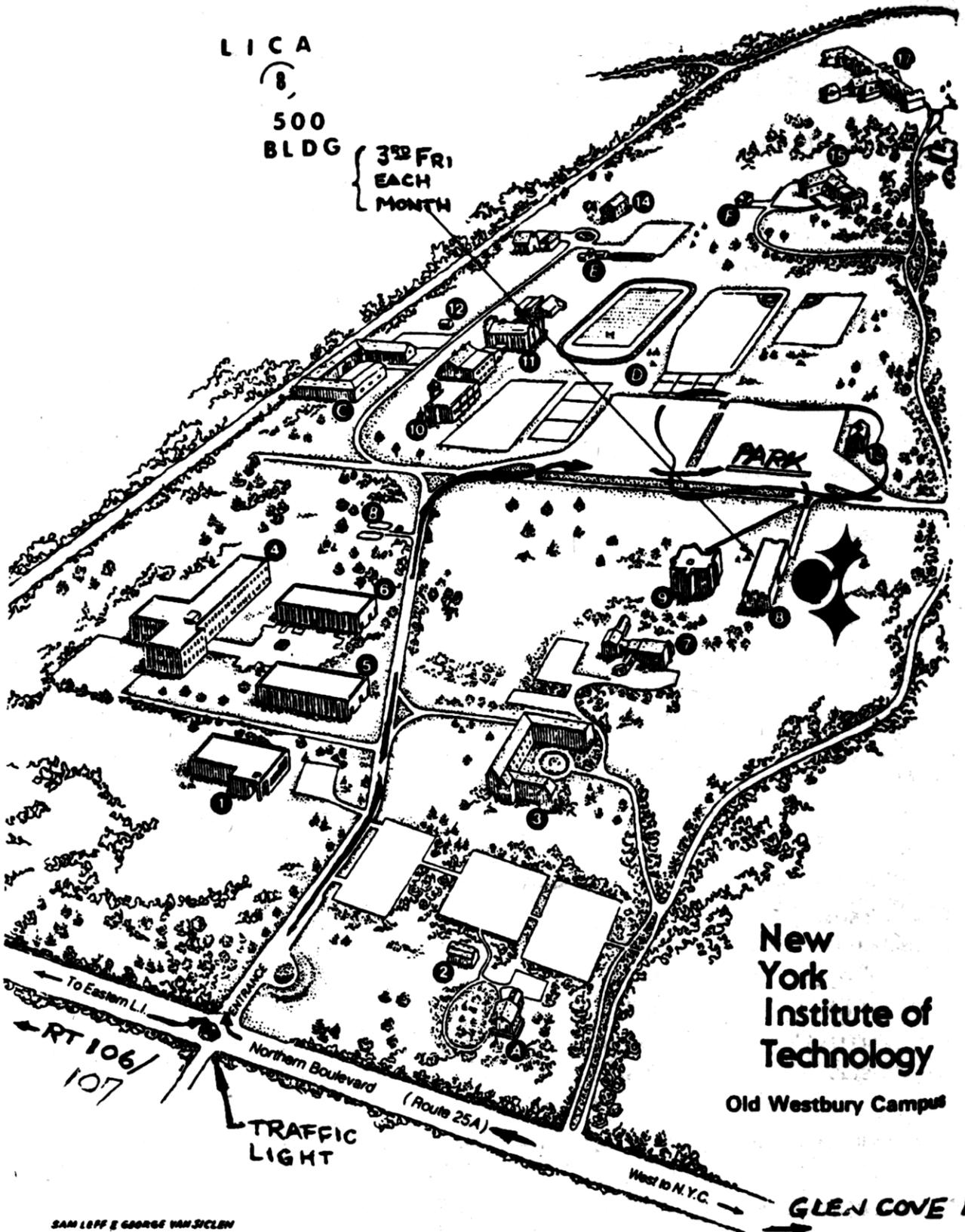
**FEDERAL, NEW YORK STATE TAX RETURN** for any CP/M-80, CP/M-86, MS-DOS, PC-DOS micro computer system. 4 print options. Client letter – next year organizer. 1983 Tax Year demos available. Federal (\$50) State (\$50), credited to 1984 purchase. Prints all federal and state schedules and forms. Written by CPA. (1284)  
Henry Seufert, 2 Walton Way, Coram, N.Y. 11727. (516) 928-3498.

L I C A

8

500  
BLDG

3<sup>RD</sup> FRI  
EACH  
MONTH



New  
York  
Institute of  
Technology

Old Westbury Campus

To Eastern L.I.  
RT 106/  
107

ENTRANCE  
Northern Boulevard  
(Route 25A)

TRAFFIC  
LIGHT

West to N.Y.C.

GLEN COVE RD

# 1984 Application for Membership

Name \_\_\_\_\_

Address \_\_\_\_\_

City / State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_ Date \_\_\_\_\_

## PLEASE CHECK ONE

Renewal       New Member

Computer equipment owned (optional) \_\_\_\_\_

Recommended to LICA by \_\_\_\_\_

## DUES POLICY

**NEW MEMBERS ONLY:** \$12 in January, \$11 in February, etc. Annual fee is TWELVE dollars. Deduct one dollar for each month that you have missed. A new member joining after August will pay the current year's dues and also the next year's dues.

**RENEWALS:** \$12.00 any month. There are no exceptions.

**STUDENTS:** \$6.00. If a student should join after June of the current year, he or she will pay the non-student price for the first year only.

Send all checks to  
**L.I.C.A.**  
**Box 71**  
**Hicksville, N.Y. 11802**

**the Stack** LONG ISLAND  
COMPUTER ASSOCIATION  
P.O. BOX 71, HICKSVILLE, N.Y. 11902

NORTHERN BLVD. (25A)



C.W. Post  
College

NY Institute of Technology

PARKING LOT

500 Bldg.

Route 107

Green Cove Road

BULK RATE  
U.S. POSTAGE  
**PAID**  
Permit No. 44  
Jericho, N.Y.

Address Correction Requested

Please **Ryush** to:

