

LONG ISLAND COMPUTER ASSOCIATION

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CBBS (516) 561-6590	STACK ADDRESS: P.O. BOX 71	HICKSVILLE N.Y. 11801 (516) 997-3653	Editor, AL LEVY

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THE STACK

May 1982

PRESIDENT'S MESSAGE

Our present age is one characterized by extremely rapid change. One of the clearest demonstrations of that quality is to be found in last month's STACK where I noted that a Fall Flea Market was planned. The same day that Al Levy advised me the first thousand copies of the April issue were printed and going out to the various retail computer hardware and software stores, I was advised that our committee had established Saturday, June 19th as the firm date for what is hoped will be our first annual Flea Market.

The location will be the facilities of the AHRC at 115 E. Bethpage Road in Plainview, NY. Space for 124 sellers has been obtained, and reservations are being taken on a first-come, first-served basis at \$10 per space.

Both the Suffolk County Computer Club and the New York Amateur Computer Club will be participating jointly with LICA. Admission will be \$2.00 per person with unlimited in/out privileges. A portion of the gate will be donated to the Association for the Help of Retarded Children.

So come on down...enjoy the weather...turn your white elephants into greenbacks...pick up some real bargains...and support a truly worthwhile cause.

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MONTHLY MEETING

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LICA meets each month on the third Friday evening at 8:00 in Room 508, Building 500, The New York Institute of Technology, Old Westbury Campus. The MAY meeting will take place on the 21st.

The principal speakers at the May General Meeting will be from the Rockwell Corporation, discussing Rockwell's state-of-the-art chips, with special emphasis on modem circuits. The presentation should be both informative and entertaining, and some of the cobwebs in our members' minds concerning these important analog / digital / analog converters should be dispelled.

THE SECRETARY'S REPORT APRIL 16, 1982 MEETING

The monthly meeting of LICA showed that most of the user groups observed the spring holidays by not meeting. Some of those who attempted to meet gathered at New York Tech to find the buildings closed.

The LICA Flea Market will take place at the AHRC in Plainview Industrial Park on June 19, 1982.

Individuals who were present at the monthly meeting (about 100 people) showed an active interest in Ada. There appeared to be enough interest to start an Ada Language Users Group among the members. More information on this group can be expected in the future.

The April LICA meeting featured Ralph Kenyon, who has recently published a series of 4 articles in S-100 Microsystems entitled "Little-Ada". The subject of the meeting was the Department of Defense language, Ada. Ralph went into considerable detail on the background and the history of Ada. After hearing Ralph it was apparent that the DOD put a lot of thought and effort into doing the job right. Their process of language design and specification has gone on since 1974 and there is no doubt that the DOD intends to use its trademark and copyright position to exclude subsets of the language from becoming established. Al Levy's PolyMorphic provided a demonstration of the language and its use. From the brief discussion it appeared that the language was heading for international standardization. It is designed to be readable and small. Current work is in progress on the development of Input - Output packages for the language. Objections and corrections to the language continue through published exchanges in Journals such as Ada Letters and Ada Answers.

It should be noted that Ralph Kenyon has for sale, copies of the official DOD "MILITARY STANDARD - Ada Programming Language " manuals. He can be contacted at Abstract Systems, RFD Lower Prospect Hill, Chester MA 01011, or by phone at (413) 354-7750. For those who are interested, Ralph also has available a list of Ada Newsletters and publications.

The next meeting of LICA will feature the topic of Modem Technology. The speaker has been invited from Rockwell International and, among other things, he will tell us the differences between a 103 and 212 modem.

I.B.M. PERSONAL COMPUTER USERS' GROUP

Marvin Freifeld of 3 Lindron Ave., Smithtown, has formed an I.B.M. PERSONAL COMPUTER USERS' GROUP. It meets at 8:00 P.M. the 4th Friday evening of every month. At the first meeting, April 30th, the subject was the Baby Blue Z-80 card. Interested parties should call (516) 724 - 0574.

Members wishing to pay dues via the U.S. MAIL should send all checks to Aileen Harrison, 36 Irene Lane East, Plainview, NY.

We need volunteers to help man the booths etc. at the up-coming Flea Market. Any member who feels like donating some time, please call (516) 997 - 3653. Speaking of volunteers, I think it is appropriate to thank those people, (behind the scenes), who help in compiling and assembling The Stack. Especially a thank you to Leonard Prinz and Roger Van Ghent for their efforts.

NOTICES

While browsing at Trenton I met Stewart Neufeld of NEWTECH COMPUTER SYSTEMS. Stewart spoke to us last year about the RHYTHM BOX and MUSIC BOARD that he designed and demonstrated them on a TRS-80. Boards are also available for S-100 machines. Stewart asked me to mention that his software for editing, compiling and playing music is now in the Public Domain and is available in the CP/M Users' Library. I saw the system in action and was very impressed. It won't get you to Carnegie Hall nor even a job at the local pub, but it sure is a lot of fun.

April was a busy month. First I was contacted by a reporter from Newsday who mentioned LICA in the special Computer issue promoting the show at the collesium. Then, in addition to our regular mailing I distributed 1000 copies of The Stack, to local merchants who were kind enough to place the copies on counters in the stores. The Stack will here after be available at the following locations:

Future Visions	70 Broad Hollow Rd (Rte 110), Melville
ComputerLand	79 Westbury Ave., Carle Place
Computerifics	14 Cold Spring Road, Syosset
Programs Unlimited	20A Jericho Tpke, Jericho (Westbury Shopping Ctr.)

As a result of the above, I received more than 15 calls each day asking for more information about LICA. When it was a caller who had seen the Newsday article, I was happy to tell them that they could pick up a copy of the Stack at one of the above mentioned stores. The feedback from Mike at Future Visions was that the Stack was gone (250 copies) within one week after I had left it on the counter. He wished I had left more copies.

PLEASE, if you purchase any thing from these dealers, mention that you are a member of LICA. The Stack is looking for ads, the dealers are looking for customers. The members of the Long Island community should support local merchants who in turn help support the community. In fact, one of the programmers at Computerifics offered to speak on, and demo the new ATARI computer for LICA if a date can be set. I was shown various GRAPHICS programs and my suggestion, if you are interested in computer graphics, is RUN don't walk, to see this demo 'cause, "You Aint Seen Nothin Yet !"

I am pleased to announce that the STACK is now back on the Bulletin Board, (516) 561-6590. If you have anything to contribute to the Stack, messages can be left on the CBBS and I will get back to you.

There is a new Electronic magazine (similar to Buy-Lines), called AD-LINE which carries ads for electronics in general, and computers in particular. It is a classified magazine run by a computer. The New Jersey based phone number is 1-(215) 462-4415. It runs at 300 baud, 6 PM to Midnight, seven days a week. AD-LINE will answer all your questions and take subscription information.

FROM LEO TAYLOR - CONNECTICUT COMPUTER CLUB

There are many devices that can be attached to a computer & most all COULD be handled from BASIC. Some more common devices are CRT displays, printing terminals, line printers, daisy wheel devices, & floppy discs.

A common BASIC for personal computers is written by Microsoft. The people at Microsoft seem to think all computers have only one interactive device (a printing terminal) & one printer. The TRS-80 Model 1 has a line editor built in for changing a line in a BASIC program. Though the computer uses a video display the Microsoft BASIC editor is written for a TELETYPE; it proceeds from left to right since a printing terminal cannot backspace. The characters you are editing are invisible, only the characters you have retained can be seen. This is somewhat backwards but not unusual. A better editor would be video oriented.

Microsoft fares no better when it comes to printers. The TRS-80 has the non-standard BASIC statements of LLIST & LPRINT. The LPRINT is used for those lines that you want to go to a (the) printer. Unfortunately, if you do not have a printer & run a program that uses LPRINT the computer hangs up when LPRINT is encountered. The only way to convert the program to CRT is to edit every line that uses LPRINT & convert it to PRINT. The reverse can happen; if the program only uses the CRT & you own a printer you have to edit the PRINT statements. This scheme makes it difficult to redirect output such as to first display the output then print after correction. Also, what do you do for people with two printers? Microsoft BASIC's LPRINT does not allow for printer selection. I have a program written in TSC BASIC that I use for mail order forms. It prompts me for a part number, price, etc. then prints out an order form. I always want to review the order on the CRT before printing. I print a 'good' copy on the Selectric for mailing & a quick copy on the line printer for my records. Sometimes I will output a copy to disc since one disc is easier to store than dozens of printed copies. The way I did it:

```
9000 REM GET OUTPUT PORT NUMBER
9020 PRINT "PRESS RETURN FOR CRT"
9030 PRINT "PRESS P FOR CENTRONICS"
9040 PRINT "PRESS T FOR SELECTRIC"
9050 PRINT "ENTER NAME FOR DISC FILE"
9060 PRINT:P=0
9070 INPUTLINE X$
9080 IF X$="" THEN 9200:REM TERMINAL
9090 IF X$="P" THEN X$="PRINT.SYS":GOTO 9120
9100 IF X$="T" THEN X$="SELOUT.CMD":GOTO 9120
9110 P=1
9120 OPEN NEW X$ AS P:REM OPEN OUTPUT CHANNEL
9200 RETURN
```

After this subroutine is executed, all letter printing is done with PRINT #P,"ORDER FORM" etc. In TSC BASIC (& DEC BASIC), port zero has special meaning. If channel zero is never opened output will go to the terminal (Line 9080). If the channel is opened with the name of a device driver, output will be to that device. PRINT.SYS (Line 9080) is my system print driver that defaults to the line printer. SELOUT is a command that loads my SELECTRIC output driver. Finally if a disc output is desired I must use a channel other than zero (Line 9110).

Leo

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100 REM"J" = HOME CRSR AND CLEAR SCREEN"
110 REM"K" = CRSR DOWN (PRINT)
120 REM"CHR$(13)" = RETURN KEY
130 PRINT"J FIND COST OF ONE KILOWATT HOUR
140 INPUT"K TOTAL COST FOR ONE MONTH":A
150 :
160 INPUT"K ENTER KILOWATT HOURS USED":B
170 C1=A/B
180 PRINT"K COST PER KILOWATT ="C1
190 :
200 PRINT"K COST TO OPERATE AN APPLIANCE"
210 PRINT"K AMPERES TO WATTS
220 INPUT"K HOW MANY AMPERES":A
230 C=A*120
240 PRINT"K A" AMPERES = "C" WATTS @ "C/1000*C1" PER KILOWATT HOUR."
250 PRINT"K IN"1000/C" HOURS THIS APPLIANCE WILL USE ONE KILOWATT HOUR"
260 PRINT"K TO QUIT HIT RETURN - TO CONTINUE ANY OTHER KEY"
270 GETA$:IFA$=""THEN270
280 IFA$=CHR$(13)THEN300
290 GOTO140
300 PRINT"J THE END"
READY.

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Philip Cochems
4/17/82 -
Commodore Pet
4.0

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110 INPUT"WALL LENGTH AND WIDTH (IE..12,18 FT.)":L,W
115 INPUT"FLOOR TO CEILING MEASUREMENT IN INCHES":N :N=N+4
120 PRINT
130 INPUT"ENTER PATTERN REPEAT":R%
140 IFR%=0THEN110
150 A%=N/R%
160 IFA%*R%< N THENA%=A%+1
170 B=A%*R%
180 PRINT"EACH SHEET MUST BE CUT-----"INT(B+.5)
190 PRINT"PATTERN REPEAT-----"R%
200 PRINT"NUMBER OF REPEATS PER SHEET-----" A%
210 TX=540/(A%*R%)
220 DX=360/(A%*R%)
230 PRINT"NUMBER OF SHEETS PER DOUBLE ROLL----"DX
240 PRINT"INCHES LEFT OVER-----"360-(DX*INT(B+.5))
250 PRINT"NUMBER OF SHEETS PER TRIPLE ROLL----"TX
260 PRINT"INCHES LEFT OVER-----"540-(TX*INT(B+.5))
410 LW=(L+W*2):LW=LW*12/27
415 PRINT"TOTAL NUMBER STRIPS NEEDED"LW
420 X=LW/D%
435 X$=STR$(X)
436 PRINT"NUMBER OF DOUBLE ROLLS NEEDED"LEFT$(X$,5)
437 PRINT"(FRACTIONS UNDER .50 NEED 1 S/R EXTRA)"
438 PRINT"(FRACTIONS OVER .50 NEED 1 D/R EXTRA)"
450 PRINT"TO CHANGE WALL MEASUREMENT HIT '0'"
700 GOTO130

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FUTURE VISIONS COMPUTER STORE/Open 10 A.M. - 5 P.M.

70 Broad Hollow Road - Melville, N.Y. 11747
1/4 Mile South of Northern State on Rte. 110 (516) 423-7820
Welcomes L.I.C.A. Members

***** SPECIALS THIS MONTH *****
VERBATIM 5" SS-DD \$37 DS-DD \$51
LIBRARY CASES (5) \$3.85 @

Call Our Newly Installed Bulletin Board For Other Specials
7 days a week 6:PM to 10:AM 300 BAUD

In the spirit of good clean fun, I offer the following: I know that cryptography is an integral part of computer programming. In addition, it is my belief that most people involved in writing software consider themselves capable of breaking just about any code, given enough time. So, here is the challenge. The following paragraph can be translated to normal English in one very easy move. The question "What is the easiest method to produce the English translation?" To get a free mention in next month's STACK, you must be the first to produce the correct answer plus a complete translation of the paragraph.

→¶← ∇ΣΔ+Θ ∇Σ Τ+Ε ¶∇α+ <+Ε∇φ +Ε→ ↑Σ" °Ψ¶∇Λ+ →¶← λΘ↑∇→ Δ¶←+Ω~° +οο εαυ
υοξ σαυ ∫ Δηυ φο δε ηαχε το λετ ηενλ ξερ ον αωλοθηυτημο δηνεν α μεψηανιψαω φεχιψε
διωω φο ασ δεωω ∫ →ηισ σιμρωε μετθοφ ψαν βε γξειτε ψονιξισινλ δηνεν υοξ τηθοδ ιν
τηε εντιθεσ ψηαθαψτεθ σετ σεψηη ασ¹ 2345 6 7890 √+π°{ }± {÷} ∫ °γΔεθ +υΕ ι+ρ|
°λο+ξΤτ Θ+δΓαζ σχφψ(×λβ η ν,μ κ ω[~]1 ^ →ηε σραψεσ αθε ,ξστ ιοθ (ξν~+Π∫θλω ΨΞζ
Ωκ>¶Λ<§ φσΣα∇π

CONVERSION CHART

128	64	32	16	8	4	2	1	Dec.	Hex	Binary
[]	[]	[]	[]	[]	[]	[]	[]	=0	0	0000 0000
[]	[]	[]	[]	[]	[]	[]	[X]	=1	1	0000 0001
[]	[]	[]	[]	[]	[]	[X]	[]	=2	2	0000 0010
[]	[]	[]	[]	[]	[]	[X]	[X]	=3	3	0000 0011
[]	[]	[]	[]	[]	[X]	[]	[]	=4	4	0000 0100
[]	[]	[]	[]	[]	[X]	[]	[X]	=5	5	0000 0101
[]	[]	[]	[]	[]	[X]	[X]	[]	=6	6	0000 0110
[]	[]	[]	[]	[]	[X]	[X]	[X]	=7	7	0000 0111
[]	[]	[]	[]	[X]	[]	[]	[]	=8	8	0000 1000
[]	[]	[]	[]	[X]	[]	[]	[X]	=9	9	0000 1001
[]	[]	[]	[]	[X]	[]	[X]	[]	=10	A	0000 1010
[]	[]	[]	[]	[X]	[]	[X]	[X]	=11	B	0000 1011
[]	[]	[]	[]	[X]	[X]	[]	[]	=12	C	0000 1100
[]	[]	[]	[]	[X]	[X]	[]	[X]	=13	D	0000 1101
[]	[]	[]	[]	[X]	[X]	[X]	[]	=14	E	0000 1110
[]	[]	[]	[]	[X]	[X]	[X]	[X]	=15	F	0000 1111
[]	[]	[]	[X]	[]	[]	[]	[]	=16	10	0001 0000
[]	[]	[]	[X]	[]	[]	[]	[X]	=17	11	0001 0001

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CLASSIFIED ADS

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ACCOUNTING, record keeping & Tax Services provided weekly, monthly, or quarterly (basis to suit). Sales Tax, Employer Wage Forms, Bank Records, Cash Receipts and Disbursement Journals, General Ledgers etc. Small business and personal accounts invited. AILEEN HARRISON (516) 938-6769

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FOR TRADE: Back issues of Creative Computing Magazine for any other magazine or computer book. AL LEVY (516) 997-3653

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DISC DRIVES FOR SALE 5" MPI model #52 Double Sided Double Density, 40 track/side Two of these can be connected on TRS-80 and similar DOS to appear like 4, 40 track single sided drives. Price \$196 with 30 day guarantee or \$160 as is. Call Don Hess days 212 947-6027 after 8 pm 516 744-6462

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FOR SALE OR TRADE Toolkit for original roms pet. 200 8k programs on tape. Old copies of MICRO MAG., CREATIVE COMPUTING, BYTE, PEOPLES COMPUTING & DR DOBB'S JOURNAL. CALL Phil Cochems (516) 333- 4213

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ALKEN Selectric I/O writer with parallel interface, driver software and yellow formica deep-well table.

AL STONE (516) 731-1649

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REPAIR SERVICE: KIM, SYM, AIM-65 Single Board Computers. STEVE PERRY (516) 744-6462

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FOR SALE: Amateur RTTY Equipment. Model 28 KSR, Model 28 three speed typing reperf., Model 14 T.D. Also, complete set of cables and controls; TTL/2 MAIN LINE Terminal Unit and Main Line AFSK generator. For Details call (516) 744-6462

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OHIO SCIENTIFIC CSP COMPUTER FOR SALE. 8K with BASIC in ROM, 8 slot BUS. Can be expanded to discs, printer, ext. memory etc. Cost \$1300 asking \$600. Call (516) 746-1079

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COMMERCIAL ADVERTISING POLICY

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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 three month rates are \$45, \$65, and \$100 respectively. Copy need not be the same each month. Camera ready preferably. Type setting & layout work available at additional charge.

All checks should be made payable to LICA

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The Long Island Computer Association 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.

The STACK is also 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 & a copy of the reprint is sent to The STACK.

Members can vote in club elections, & place non-commercial classified ads (at no charge) and commercial ads at nominal cost.

Member articles and other data affecting The STACK must be received by the 15th day 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. 11802 (516) 997-3653

SUB-GROUP	CHAIRMAN	PHONE (516)	Meetings Each Month
S-100	Richard Wilson	747-4241	2nd Friday 7:30
TRS-80	Bob Zito	822-4031	2nd & 3rd Friday 7:00
6502	Steve Perry	744-6462	
680X	Roger Kaucher	796-8764	

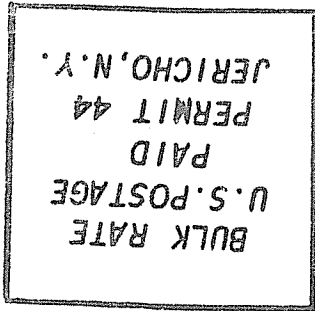
ATTENTION ALL MEMBERS OF L.I.C.A. WHO OWN THE RADIO

J SHA COMPUTER

Please let S. PERRY JENKINS, P.O. BOX 62, SOUTHAMPTON, N.Y. have your name and address. He is compiling a list of all RSCC owners. It is certainly in your best interest to contact him either by mail or at the meeting.

SAUL WEISSMAN
22 LOCUST LANE
ROSLYN HIGHTS, NY 11577

ADDRESS CORRECTION REQUESTED



The Stock
LONG ISLAND
COMPUTER ASSOCIATION
PO BOX 71 - HICKSVILLE, NY 11802