



LONG ISLAND COMPUTER ASSOCIATION

President, AL STONE Vice President, BOB KOWITT Secretary, JACKIE TULUMELLO Treasurer, AILEEN HARRISON
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

March 1982

PRESIDENT'S MESSAGE

We often hear the words "State Of The Art" when the speaker is referring to some particular aspect of computer/electronics communication/information theory technology. What is frequently overlooked is that these States (statuses, actually), are our bailiwick as hobbyists. Ham radio enthusiasts have shown us the way. There are no forbidden realms as far as the clever experimenter is concerned. Our devices do not have to be commercially salable (cost-effective) or optimally sized. The only requirements we place on our forays to the fringes of cybernetic science is that our experiments "work" in some way or another.

Please don't think I'm referring to physical devices (hardware). The limitless freedom to create, to try, to experiment correctly should include hobbyist software. There are monetary and temporal restrictions on programmers in an industrial or commercial environment that simply don't apply to us. We can modify, enhance, append, rewrite to our hearts' content - and we can stay with the same project as long as we desire.

What I'm muttering about here is that we computer hobbyists are in a unique set of circumstances that define an environment for creativity and invention that simply doesn't exist in the typical research establishment. Whereas corporate "think tank" operations can occasionally brainstorm worthwhile technological advances by the "brute force" application of more people and more money, it is equally likely that some independent tinkerer in an attic, den or basement computer room will produce the next universally acceptable advance in the "State Of The Art."

Don't keep your work a secret. We all continue to learn from one another. We may even occasionally have something to teach the "big boys."

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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 MARCH meeting will take place on the 19th. The speaker will be RON RICHARDS. Mr. Richards will be speaking about "rotating media, the hard disk."

THE SECRETARY'S REPORT FEB. 1982 MEETING

At the meeting this month, Arthur Shebar demonstrated the small single board Sanyo computer. It has 64K memory, 320K 5" double sided double density soft sector disk drive and a beautiful display. It will come with CP/M and Sanyo BASIC (a superset of a well known BASIC whose compiler compiles it). It will be serviced by board swaps.

Mr. Shebar learned some interesting things about the Japanese small computer industry from his recent trip to Japan. He is convinced that within the year, the 16 bit machine will be a Japanese computer industry standard. He noted that there are no computer stores in Japan, but small computers are sold in appliance and department stores. He insists that he saw a hand held computer with 64K memory and a built in modem.

Our proposed flea market soon may become a reality. Phil Cochems, Aileen Harrison and Larry Adkins volunteered to serve as a committee to find a suitable time and place. This flea market will be sponsored jointly by LICA and The Suffolk County Computer Association (SCCA).

Jim Edwardson announced that we could call the SCCA bulletin board at 924-8115.

Dave Minott has tabulated the results of INSTAPOLL. It seems that most people are satisfied with the Bulletin Board and would like a printed manual of instructions for using it. This manual will be written soon, and sold at cost. The response in favor of a flea market was overwhelming. Dave asked for suggestions for suitable INSTAPOLL questions.

In other business, we voted to buy a Scitronics real-time clock board for the LICA Bulletin Board (\$100). We also agreed to buy a LEX 11 acoustically coupled modem to rent to our modemless members. (\$125)

Richard Zahler from Systematic Computer Services spoke briefly about PROXY-80, a board which enables OSI computer owners to operate under CP/M and run Z80 programs. It comes with CP/M , WORDSTAR and MAILMERGE.

It is the opinion of several members of LICA that the STACK needs more content. The editor wants contributions of articles and short computer programs. This is your newsletter and it should reflect your enthusiasms.

RADIO SHACK COLOR COMPUTER (RSCC) OWNERS are requested to send their NAME, ADDRESS and TELEPHONE NO. to: PERRY JENKINS, P.O. BOX 62, SOUTHAMPTON NY 11968. All LICA members will receive a copy of the list.

NEWS RELEASE: Radio Shack, a division of Tandy Corporation, offers protection against potentially damaging power line voltage surges. The Archer Voltage Spike Protector (61-2790) is available for \$9.95 at Radio Shack stores. The Voltage Spike Protector plugs into any 15A, 125V outlet, and the protected equipment plugs into it.

My thank you goes to Phil Cochems for submitting the following programs for use on the COMMODORE PET. My printer will not produce the needed characters so let's hope this 'paste up job' is good enough.(AL)

```

100 PRINT"***** MENU "
110 PRINT"KEY IN THE LARGEST NUMBER YOU WANT.";
120 INPUT K
130 INPUT"*****HOW MANY PROBLEMS DO YOU WANT";V
140 I=INT(K*RND(1)+1)
150 J=INT(K*RND(1)+1)
160 PRINT"*****";
170 IFS1=VTHEN310
180 FORRR=1TOI:PRINT"♦";NEXT:PRINT
190 FORRR=1TOJ:PRINT"♦";NEXT:PRINT:PRINT
200 FORRR=1TOI*J:PRINT"♦";NEXT:PRINT
210 PRINT"♦I"TIMES"J"="";INPUTX
220 IFX=I*JTHENGOSUB250
230 IFX<>I*JTHENPRINT TAB(15)"***** WRONG *****";FORZ=1TO1000:NEXT:GOSUB272:GOTO1
240 GOTO140
250 PRINTTAB(7) "***** YOU GOT IT RIGHT!!!! *****";S1=S1+1
260 FORZ=1TO1000:NEXT
270 RETURN
272 INPUT"*****DO YOU WANT TO SEE ANSWER (Y/N)";Z1$:IFZ1$="Y"THEN280
274 RETURN
280 PRINT"*****"TAB(20)I"TIMES"J"=I*J:FORZ=1TO1500:NEXT
290 S=S+1
300 RETURN
310 PRINT"*****YOU GOT"S1-S"PROBLEMS RIGHT"
320 PRINT"AND"S"PROBLEMS WRONG"
330 PRINT"TOTAL PROBLEMS"V
340 PRINT"TOTAL ATTEMPTS"S+V
348 IFS<=0THENPC=100:GOTO350
349 P1=S/S1*100:PC=100-P1
350 PRINT"THAT'S"INT(PC)"PERCENT"
355 PRINTTAB(7) "***** HIT ***** <SPACE> ***** TO CONTINUE"
360 GETY$:IFY$=""THEN360
370 IFY$=CHR$(32)THENRUN

92 REM:"***** CLEAR SCREEN ***** CRSR RIGHT
93 REM:"***** CRSR LEFT ***** CRSR DOWN
94 REM:"***** REVERSE ON ***** REVERSE OFF
100 REM TERM OF A LOAN OR WHAT IF..
120 INPUT"*****MONTHLY PAYMENT";R
140 INPUT"*****PRINCIPAL";P
160 INPUT"*****INTEREST RATE";I
180 N=12
200 Y=-((LOG(1-(P*(I/100)))/(N*R)))/(LOG(1+I/100/N)*N))
220 PRINT"***** TERM *****"INT(Y*10+.5)/10" ***** YEARS *****"
240 PRINT"*****DO YOU WANT TO CHANGE:
260 PRINT"● 1)MONTHLY PAYMENT
280 PRINT"● 2)PRINCIPAL
300 PRINT"● 3)INTEREST RATE
320 PRINT"● 4)STOP
340 INPUT"*****";A$:IFA$<>"1"AND A$<>"2"AND A$<>"3"AND A$<>"4"THEN340
360 ONVAL(A$)GOSUB440,460,480,500
380 Y=-((LOG(1-(P*(I/100)))/(N*R)))/(LOG(1+I/100/N)*N))
400 PRINT"***** TERM *****"INT(Y*10+.5)/10" ***** YEARS *****"
420 GOTO240
440 INPUT"*****MONTHLY PAYMENT";R:RETURN
460 INPUT"*****PRINCIPAL";P:RETURN
480 INPUT"*****INTEREST RATE";I:RETURN
500 END

```

Editorial:(RE-INVENTING A FEW WHEELS)

I was very happy to hear from LICA members, (at the last meeting) that they felt there was not enough content in the STACK. I agreed whole-heartedly. When accepting the assignment my first comment was exactly that. The contest program was an attempt to get from each member some feedback and possibly a few programs to hold up as examples. Two programs were received. Thanks goes to Al Stone and George Carlson for their entries.

My biggest (personal) problem is that I own and operate a fairly unknown (obscure mfg) computer. I am self taught and know only the BASIC that comes with this machine (the PolyMorphic). When I joined LICA in January of 1981, I had written maybe three simplistic BASIC programs. I was neither ashamed to demonstrate these nor to talk about them and I was eager to learn. I empathise with new members who want to learn. Imitation is one way.

My pet peeve with magazine articles etc. is that too many "special" commands are used without adequate explanation. My theory of "DOCUMENTING" a program (for tutorial purposes), is take NOTHING for granted. Four programs are printed in the STACK this issue. I would now like your comments.

```
100 REM*****
110 REM***   TITLE: Contest                               Copyright (C) 1982   ***
120 REM***   AUTHOR: A.M. Stone                               ***
130 REM***   Written in Microsoft BASIC-80, V 5.2                               ***
140 REM*****
150 CLS$=CHR$(26)          ADM-3A Clear Screen Sequence
160 PRINT CLS$;
170 PRINT TAB(36)"OPTIONS":
    PRINT TAB(36)"=====
180 N=1
190 FOR X%=1 TO 19
200   PRINT "[";N;"]";TAB(20)"[";N+1;"]";TAB(40)"[";N+2;"]";
210   IF N<72 THEN PRINT TAB(60)"[";N+3;"]
220   N=N+4
230 NEXT
240 PRINT " ";
    PRINT:
    PRINT TAB(24)"Enter 2 digit # of item desired.";
250 RESPONSE$=" ";
    FOR X%=1 TO 2
260     R$=INKEY$:
        IF R$="" THEN 260
270     IF ASC(R$)<48 OR ASC(R$)>57 THEN 260
280     RESPONSE$=RESPONSE$+R$
290 NEXT
300 IF RESPONSE$="00" OR VAL(RESPONSE$)>75 THEN 250
310 IF LEFT$(RESPONSE$,1)="0" THEN RESPONSE$=RIGHT$(RESPONSE$,1)
320 PRINT ">>>User has selected item #";RESPONSE$;"<<<";TAB(45)
    "Depress 'RETURN' to select another.";
330 INPUT " ",G$:
    GOTO 160
```

Here is a (DATA) type subroutine that I use this for my MAILLIST.

```
REM*****
REM DIM N$(45 TIMES - MAXIMUM 10 CHARACTERS IN EACH)
REM CHR$(12)=CLEAR THE SCREEN
REM*****
10 DIM N$(45:10)\PRINT CHR$(12)
20 DATA"MASS","023","CT","070","075","080","NY","BX","BKLYN","QUEENS","LONG"
30 DATA"120","PA1","PA-2","DEL","DC","VA","CAR","FLA","ALABAMA","OH","CINN"
40 DATA"MICH","IOWA","MN","ILL","ILL-2","KANSAS","TEXAS","ZIP-8","900","910"
50 DATA"930","950","ORE","TAPESORT","A1","B-ROLODEX","A2","A23","FOREIGN"
60 DATA"130","SUB-1","LICA","SPECIAL"
60 PRINT"=====
70 FOR Y=1 TO 45\READ N$(Y)\PRINT Y,"=",N$(Y)," ",\NEXT\PRINT
100 PRINT"=====
REM*****
REM CN ERROR=Any mistake including programming errors
REM Input errors, bad disk, etc.Using "CN ERROR" prevents
REM User from getting System or BASIC error message.
REM*****
110 CN ERROR GOTO 120
REM*****
REM PLOT 20,3,0=Put on 3RD line from bottom of the screen
REM 20 characters from the left "TAB (30)".0="SPACE"character
REM*****
120 PLOT 20,3,0
REM*****
REM INPUT1 = Keep answer on same line as question
REM*****
130 INPUT1" Make Your Selection  ",B\POKE 0,160
140 IF B<1 OR B>45 THEN GOTO 120
150 A$=N$(Y)\---- Screen Display  Below ----
```

```
*****
*          C O M M A N D          *
*          P E R F O R M A N C E  *
*          Creates a Command file  *
*          For Opening Mailist     *
*          Not copyright 1980 #3-09817 *
*****
```

A.Levy publications/Box 71/Hicksville,NY 11801:

1=MASS.	2=023	3=CONN.	4=070	5=075
6=080	7=NYC	8=Bx.	9=Bklyn	10=Queens
11=LI	12=120	13=Pa.1	14=Pa.2	15=Del.
16=D.C.	17=VA.	18=CAROLINAS	19=FLA.	20=ALA.
21=OH.	22=Cinn	23=Mich.	24=Iowa	25=Mn.
26=IL.1	27=IL.2	28=KS	29=TEXAS	30=ZIP 8
31=900	32=910	33=930	34=950	35=Oregon
36=LICA	37=A1	38=ROLODEX	39=A2	40=A23
41=Forgn	42=130	43=Sub-1		

Make Your Selection 1

Type In Zip & Last Name: 09876SMITH

DATA COMMUNICATIONS CAPABILITY FOR THE STACK

Thanks to the labors of Al Stone, the STACK now has an installed modem. It should be noted that due to my lack of proper tools, Al now has a cut finger plus a few solder burns. Although I have already communicated with three members and the BULLETIN BOARD via the modem we have not as yet gotten to the point of downloading information. The projected date for full capabilities is March 30. How about a round of applause for the pres.

LONG ISLAND HAMFAIR '82

At Islip Speedway, Islip, NY. New York's Largest Electronic Extravaganza Featuring:

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The Date is Sunday, May 23 1982 - Time 9 a.m. to 4 p.m. Admission \$2.00 to buyers (spouses, sweethearts and children free). \$5.00 per exhibitor per space. Free parking, food and refreshments available. For additional info call at night only (516) 484-4322.

From the CONNECTICUT COMPUTER CLUB newsletter

After all these years I discovered another computer club that is only 30 miles away. I was looking for Computer Bulletin Boards to call with my SMARTMODEM and the only one that answered was in Long Island. I was impressed with its operation and left a greeting from CCC. (Leo Taylor)

APOLOGY TO ALL MEMBERS OF LICA

Due to pressures of business during the month of March, printing the STACK had to be postponed until the last minute. I hope you receive this copy prior to the March meeting. (AL)

NEWS RELEASE - NEW PRODUCT

ALPHASPELL: A spelling error detection/correction program for the Alpha Micro. An extremely fast proofreading program that compares text files against a 60,000 word dictionary. ALPHASPELL will verify text at over 1500 words per minute. The program displays 20 lines of text and maintains two status lines at the top of the screen. The first status line reports the file name, the number of errors detected and the current mode of operation. The second status line is used for reporting errors and making corrections. ALPHASPELL finds an unknown word, uses a cursor to point out the word being verified, and accents it on the screen, in context. Written entirely in Assembly language the program requires 24K of RAM. No system memory is required. Programs are included to add or delete words in the dictionary. The dictionary may be examined and/or printed, in part or in full. For more information, contact: Pendragon Software, 915 15th Street NW, Suite 600, Washington D.C. 20005. The Phone Number is (202) 659-0991.

CLASSIFIED NOTICES**Services**

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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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52 DISC DRIVES (5") FOR SALE. Forty track, double sided. \$196 with 30 day guarantee or \$160 as is. Call Don Hess Eves after 8 (516) 883-6336 or Days (516) 947-6027

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OHIO SCIENTIFIC C8P COMPUTER FOR SALE. 8K with BASIC in ROM, 8 slot BUS. Can be expanded to discs, printer, ext. memory etc. etc. Cost \$1300, asking \$600. Call (516) 746 - 1079. George Carlson.

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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 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 appearing in The STACK is granted providing that credit is given, and that 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

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SUB-GROUP	CHAIRMAN	PHONE(516)	Meetings Each Month
S-100	Auguste Schwab, Jr	374-4168	2nd Friday 7:30
TRS-80	Fred Kempler/Len Printz	822-4031	2nd & 3rd Friday 7:00
6502	Steve Perry	744-6462	
680X	Roger Kaucher	796-8764	

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CLASSIFIED NOTICES**Buy Sell Trade**

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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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PUT YOUR AD HERE

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SUMMER EMPLOYMENT WANTED: Yale sophomore majoring in computer science. For my resume' contact AL LEVY c/o THE STACK. Interested in designing programs for teaching, graphics, interfacing with ext. devices.

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A 1932 5-cent US postage stamp featuring a steam locomotive, cancelled with a "HICKSVILLE N.Y." circular postmark and a "FIRE PUMPER 1860S USA 20c" rectangular postmark.

PO BOX 71 - HICKSVILLE, NY 11802

Please Note: If your dues have not as yet been paid for
1982, your name will be dropped from the L.I.C.A. mailing list.

If you, or someone you know, owns or uses a MOD III, please
send your name, address, and telephone number to Fred Kempler
or Len Printz by mail or at any L.I.C.A. meeting.
Fred Kempler, 51-55 Marathon Pky., Little Neck NY 11362
Len Printz, 99 Randall Ave, Freeport NY 11520
