MEETING NOTICE

Our meeting will be held at 1:00 p.m., Saturday, August 6, 1977, at the Waukesha Technical Institute (Room 202 - Administration Building).

PROGRAM AGENDA

DENNIS HAFEMANN of the Milwaukee Computer Store will demonstrate the Alpha Micro Technology computer system, which is a PDP-11 Like, 16 Bit Micro for the S-100 Bus. This unit comes complete with a multi-tasking, multi-user floppy disc operating system.

Why would you want a multi-tasking unit? Well, while you are running a lengthy listing on hardcopy, you can start an assembly of a large program, and while that was running you could go about editing the source for another program.

Why would you want a multi-user system? Suppose you had to fight off your kids to get to the computer because they were using it to play games. You could both use the computer; they could play games, and you could do your thing.
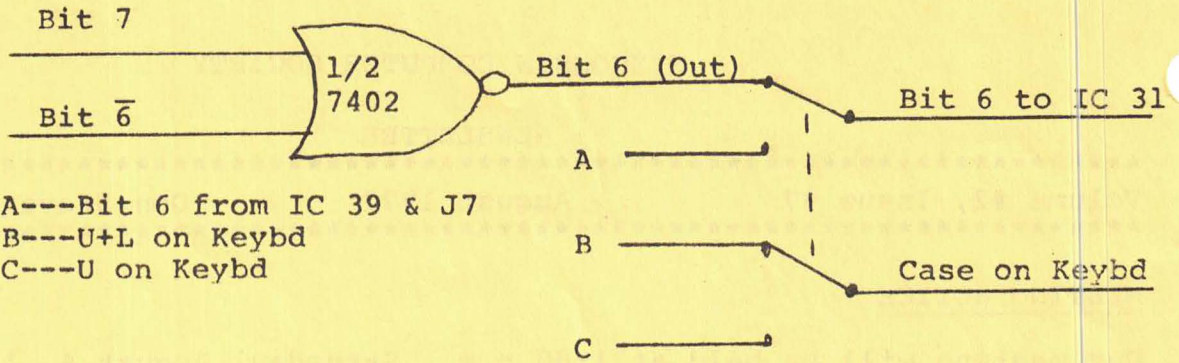
Membership Dues

Quite a few members have not paid their $3.00 for membership for the balance of the year. Also, many of you have not filled out the recent questionaire regarding what type of computer system they now have and what additional equipment they are considering purchasing.

Newsletter Info

The Editor is looking for info for the next Newsletter. This Newsletter could be a lot more helpful to the membership but is needs the work of its membership to contribute more info.
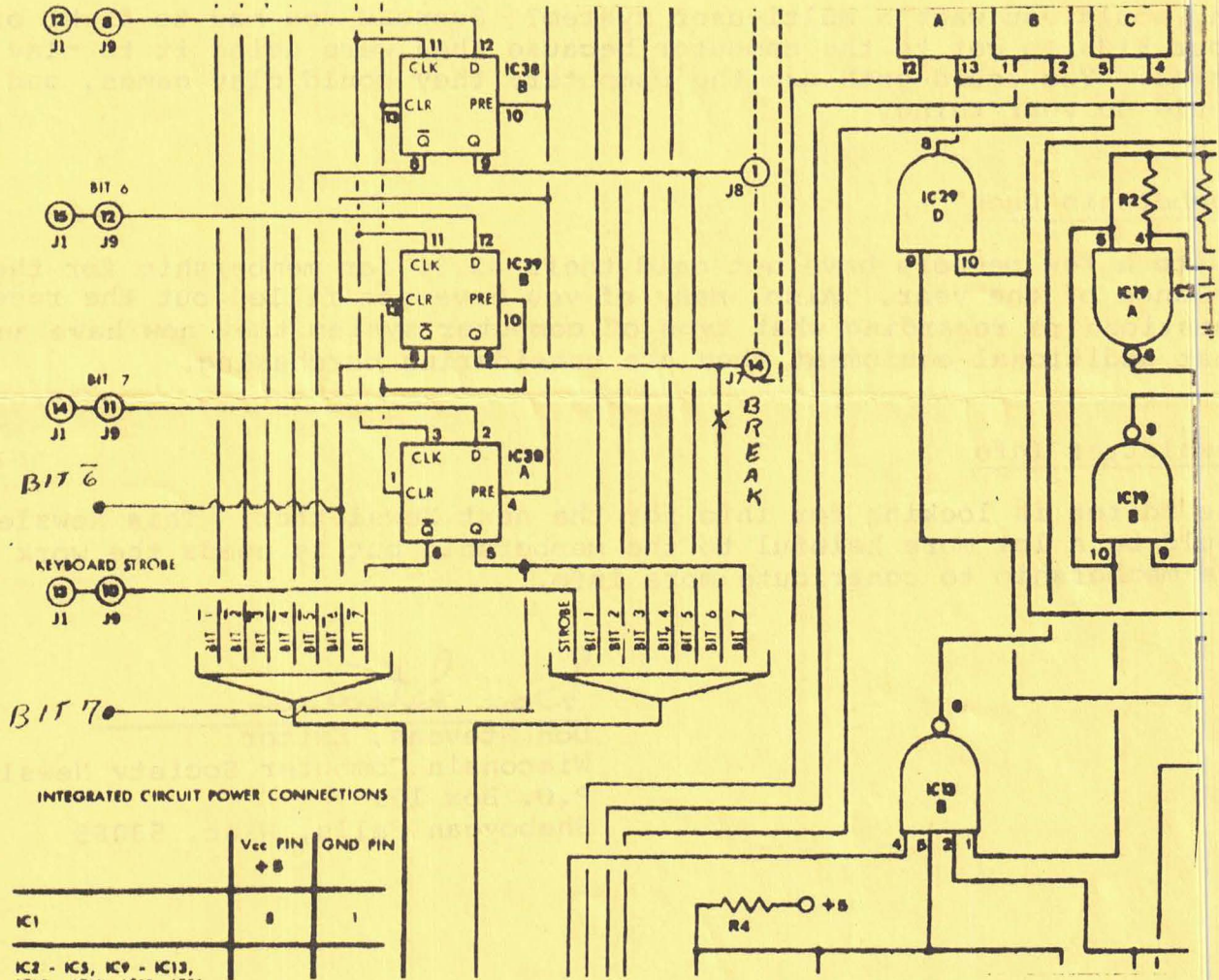
Don Stevens, Editor
Wisconsin Computer Society Newsletter
P.O. Box 159
Sheboygan Falls, Wisc. 53085

Bit 7

1/2 7402

Bit $\overline{6}$

Bit 6 (Out)

Bit 6 to IC 31

A---Bit 6 from IC 39 & J7
B---U+L on Keybd
C---U on Keybd

A

B

Case on Keybd

C

UPPER and lower case in and out of the CT-1024?????

It's easy with this simple modification. Mount the IC in a socket on a small piece of perf board or similar material with some "L" shaped tinned copper wire connected to Vcc and ground pins for direct mounting on the 5 volt and ground buss on the top of the CT-1024 main circuit board. Break the Bit 6 foil from pin 9 of IC 39 at the point where it goes to IC 31 after it forms a "T". Attach Bit $\overline{6}$ (negated bit) to inputs of 7402. The CT-1024 will now generate UPPER and lower case in one switch position and UPPER case only in the other. The terminal CRT will only display UPPER case however.

INTEGRATED CIRCUIT POWER CONNECTIONS

	Vcc PIN +5	GND PIN
IC1	8	1
IC2 - IC5, IC9 - IC13,		

Here is a short program written in BASIC by Bob Engels of Sheboygan. The purpose of this program is to sense the ON position of eight switches that come into the computer via a 8 bit parallel input port.

```
2     GOTO 300
5     LET K=INP(255)
15    FOR I=1TO8
17    T=9-1
20    Q=2↑(8-I)
30    R=K-Q
40    IF R<0 THEN 200
55    PRINT P$(T)
60    K=R
200   NEXT I
250   GOTO 5
300   P$(1)="SWITCH #1 ON"
301   P$(2)="SWITCH #2 ON"
302   P$(3)="SWITCH #3 ON"
303   P$(4)="SWITCH #4 ON"
304   P$(5)="SWITCH #5 ON"
305   P$(6)="SWITCH #6 ON"
306   P$(7)="SWITCH #7 ON"
307   P$(8)="SWITCH #8 ON"
310   GOTO 5
```

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The Midwest Personal Computing Show will be held at the Holiday Inn at O'Hare International Airport on October 27, 28, and 29th.

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Looking for an excellent hard copy devise? Contact Don Stevens if you would like an excellent ASR-33 complete with touch tone modem. Only two left and probably will not get additional units for another 6 months.

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INFO 2000, P.O. Box 3196, Culver City, Ca. 90230, can give immediate delivery all you need to interface PERSCI disk drives and "intelligent" controller to MITS ALTAIR, BYT-8, CROMEMCO Z1 & Z2, IMSAI, POLYMORPHIC, TDL XITAN, VECTOR GRAPHIC or any other S-100 bus computers. The INFO 2000 ADAPTER is priced at $120.00 in kit form.

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Urban Instruments, 4014 Cody Road, Sherman Oaks, CA 91403 announces the availability of the 8080 TIMESAVER. It puts at your fingertips all of the vital reference data needed to quickly and easily program the 8080A and Intel's new 8085. Never again will you have to search here and there for codes, flag operations, ... or what ever ... it's all there ... where you need it ... at your fingertips. Priced at $12.95 each.

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Available at the meeting - Just received 10 copies of Newman Computer Exchange Summer 1977 catalog.

GOOD ARTICLES TO READ - - - - - - - - - - - Copy available at meeting

Computer Design - July 1977   Microcomputer Interfacing: Using Digital
to Analog Converters.

Electronics - June 23, 1977   Analog output chips shrink a-d conversion
software.

Electronic Design - July 5, 1977   Select a character/function decoder
that optimizes cost, board space and wiring. Hardware or firmware?

American Laboratory - July 1977   Microcomputer interfacing - Data
acquisition.

Electronic Design - July 19, 1977   Locate interrupts for Microcomputer
peripherals quickly without the need for polling.

Circuit to recognize upper-case letters only with a simple two-gate circuit.

Electronics - July 7, 1977   Slave microcomputer lightens main micro-
processor load

EDN - May20, 1977   Tired of decoding alphabet soup? Try this acronym
dictionary. If your're daunted by mushrooming and redundant abbreviation
lists, this compilation of commonly used acronyms will ease your pain.

Digital Design - July 1977   Eliminating decoders; addressing components
in a 6800 Microcomputer

Electronic Design - August 2, 1977   Programmable baud generator for an
8080 works off the system's clock.

Keep your microcomputer alive. As power fails, switch essential 8080 data
to all-CMOS stand-by memory and logic. They hardly drain the back-up battery.

Machine Design - July 21, 1977   New ICs Simplify Machine Control

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Software Technology Corporation of San Mateo, California has announced
the "Music System". The Music System comes complete with a program on
cassette tape, six sample selections, a complete user's manual, and a
circuit board with components. Running in close to 2K of memory, the
program includes a monitor, text editor with ALS-8 compatible file
structure, and a high level music composing language compiler. Language
capabilities include dotted notes, four-octave range and staccato. The
S-100 bus compatible curcuit board can be assembled in a few minutes.
Price is $24.50

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Ithaca Audio, P.O. Box 91, Ithaca, N.Y. 14850 announces the following:

    8K Bland Ram Board (for 2102 type memory) - - - - - $25.00
    Z-80 CPU BOARD (with provisions for 2708) - - - - - $35.00
    2780/16K EPROM Board (16K of 2708 or 32K of 2716) - $25.00