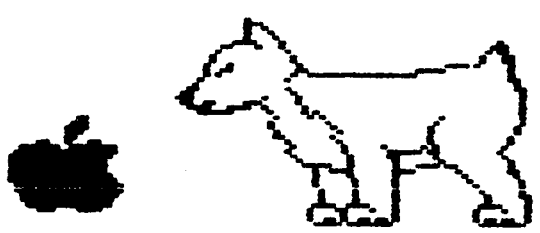

D.A.U.G.

Newsletter

DuPage Apple Users Group

MAY 1986

MAY MEETING

When: 7:30 PM, MAY 13, 1986

Where: Lincoln Center
935 Maple Ave
Downers Grove, IL

Topic: SYNTHESIS BOARDS

Other Dates to Remember

May 13: Regular meeting: Synthesis Boards
21: Board meeting (7PM, Downers Grove Library)
27: Appleworks SIG (7PM, Wood Dale Library)
28: Beginners SIG (7PM, Downers Grove Library)
June 10: Regular meeting : SIGS
18: Board Meeting (7PM, Downers Grove Library)
24: Appleworks SIG (7PM, Wood Dale Library)
July 8: Regular meeting : Electronic Mail
16: Board meeting (7PM, Downers Grove Library)

OFFICERS

President:	Bob Konikow	968-3897
VP/Program:	Ed Danley	969-4433
VP/Membership:	Jim Cormack	960-5691
Secretary:	Albert Hilliger	860-2626
Treasurer:	John Sandora	352-3059
Librarian:	Detlef Adolff	766-7741
Editor:	Don Smith	629-5033
Directors:	Chuck Jonah	985-5497
	Priscilla Walling	964-4894

#####

ELECTIONS SCHEDULED FOR MAY MEETING

The annual election of officers and directors will take place at the May meeting, with the officers assuming their responsibilities in June.

While additional nominations will be welcomed from the floor, the current Board, operating as the Nominating Committee, will present a full slate of candidates. Ed Danley, currently VP/Program, has been named as a candidate for President, and Randy Paulin to replace him as VP/Program.

Five incumbents have been nominated for a second term. These are Jim Cormack, VP/Membership; Al Hilliger, Secretary; John Sandora, Treasurer, Detleff Adolff, Librarian; and Don Smith, Newsletter Editor. Bob Konikow, after completing 2+ terms as President, has been nominated for one of the two positions of Director; a candidate has been named for the other position, but confirmation had not been received by press time.

#####

SECOND NEW OWNERS WORKSHOP SCHEDULED

The second workshop for new owners is scheduled for Wednesday, May 28, from 7 to 9 pm, at the Downers Grove Public Library. The session, which is open to members and non-members alike, is designed to help beginners to get answers to questions about their Apples and how to use them. There will be no formal presentation, but simply responses and explanations based on matters brought up by those present.

The first workshop, on April 21, was led by Bob Konikow and Ed Danley. Additional dates will be set up if interest warrants.

#####

ProDOS Tricks and Treats

Learning about ProDOS is more difficult than learning about the original DOS versions. ProDOS is not more difficult nor are manuals much worse; it is instead due to the rise of commercially-written programs and the fall of public domain programs. Those of us who learned to program using DOS had dozens of programs to look at and learn from but now ProDOS public domain programs are few and far between. To partially fill this need, I will show a few tricks I used when I wrote a program to save ProDOS catalogs to disk and which would search all the subdirectories. They are not guaranteed to be the best but they do work.

Problem 1. Find the name of a disk in a drive. The simplest way is just to do something to the disk and then read the prefix. For example, to find the name of the disk in drive 1, the following code is appropriate.

```
1000 ONERR GOTO 1020
1010 PRINT D$;"VERIFY NONSENSE,D1"
1020 POKE 216,0: CALL (-3288)
1030 PRINT D$;"PREFIX":INPUT PREFIX$
```

Line 1000 and 1020 take care of the problem of verifying a non-existent file. This will work most of the time -it will fail if the prefix had been previously set by a "PREFIX" command. What we then should add is a line

```
990  PRINT D$;"PREFIX/"
```

This will reset the prefix to a blank so that the reading will work. But we really shouldn't do that without a line

```
980 PRINT D$;"PREFIX":INPUT OLD_PREFIX$
```

so that we can save the old prefix. Note that the prefixes that we read will be terminated with a "/". Since we often desire to use the prefix in different ways, it is convenient to remove the final slash i. e.

```
1040 PREFIX$ =  LEFT$ (PREFIX$, LEN(PREFIX$) -1)
```

Problem 2 Assume we want to read in the directory of a file. The code would be (pretty much copied from the BASIC Programming with ProDOS manual)

```
2000 PRINT D$;"OPEN";PREFIX$;"TDIR"
2010 PRINT D$;"READ";PREFIX$
2020 INPUT LINE1$:PRINT LINE1$
2030 INPUT LINE2$:PRINT LINE2$
2040 INPUT LINE3$:PRINT LINE3$
2050 INPUT LINE4$:PRINT LINE4$
2060 IF LINE4$ >< "" THEN GOTO 2050
2070 INPUT LINE5$:PRINT LINE5$
```

where LINE1$ is the directory name, LINE2$ is a column header, LINE3$ is a blank and LINE4$ is the actual data. LINE5$ contains the block count. Warning, you cannot simply write the data to a file; you must save it to an array and later write the array to a file. It appears as if any D$ stops the directory-reading process. I will leave it it as an exercise to the reader to figure what is where. As a hint, the file name is in positions 2-16 and the file type is in 18-20. Thus the file name can be gotten from MID$(LINE4$,2,15) and the filetype from MID$(LINE4$,18,3). Since blanks cannot exist in filenames of ProDOS, it is convenient to remove the blanks from the name. For example

```
280 NAME$ = MID$(NAME$,2,15)
290 IF RIGHT$  (NAME$,1) = " " THEN NAME$  = LEFT$(NAME$, LEN
(NAME$) - 1): GO TO 290
```

will remove the offending blanks.

I hope these examples give you an idea of what can be done with ProDOS. Given time (a miracle) I will discuss how I searched a disk for all the directories next month. Don't hold your breath.

C. D. Jonah

SCIENCE MUSEUM OFFERS APPLE COURSES

A series of computer-related courses are being given this summer at the Chicago Museum of Science and Industry. There is a series of courses on AppleWorks and its segments, another on programming in basic, and some seminars for teachers. Some are as short as a two-hour seminar; others have a weekly session for five weeks. Tuition varies from $35 to $87.50.

For further information, call the Museum's Education Department at 312/684-1414, Ext 389, between the hours of 1 pm and 4 pm.

$$$$$

Want a Free Disk of the Month?

The way to get your free disk is very simple in DAUG all you have to do is submit an article for the newsletter, which we are always looking for more material or recommend a friend for membership to the membership chairman Jim Cormack . This is simple no hard work or money expended for the disks of the month.

From: Dennis R. Arter
TICOMP
1923 W. Sylvester, Suite E
Pasco, WA 99301-4850
509/547-1243

This information may be of use to those who write club newsletters or are writing some kind of small book. It allows one to compose text, then print it out in the two column format normally associated with professional typesetting. My equipment is an Apple //c and Imagewriter Dot Matrix Printer. The method should work with 'most any kind of printer.

STEP 1 - Compose your text as normal, not paying attention to the margins and fonts. The AppleWorks default settings (LM=1, RM=1, CI=10, UJ) are just fine.

STEP 2 - Go to the beginning of the text (Apple 1) and enter the formatting options mode (Apple O). Set the Left Margin at 1.0, Right Margin at 3.7, and font (CI) at whatever turns you on. (I like P2.) Finally, set a Pause at Each Page (PE). I do not recommend right justification just yet.

STEP 3 - Get out of the Options mode (esc) and calculate page breaks by pressing Apple K. Look at where the page breaks will be. Change text around if necessary. Now, enter a manual page break (MP) where the first page ends. Remember, this will not actually be a page end, but rather the bottom of the first (left hand) column.

STEP 4 - Shift your margins immediately after the manual page breaks. The numbers for the right hand column of the first page are: RM=0.0, LM=4.7 (in that order of entry). Repeat the page break calculation and manual page break entry.

STEP 5 - (Optional) Those that want the final product to be printed front and back, will need different margin settings for the back side, to allow for binding and hole punching. I recommend LM=0.6, RM=4.1 for the left hand column of the back side page and RM=0.5, LM=4.3 for the right hand column. Of course, all of these settings assume you're using 8 1/2 inch wide paper and the paper is aligned so that printing starts at the very edge of the paper. The default setting of 8.0 should be left for Platten Width (PW).

STEP 6 - Now stick a scrap sheet of paper in the printer and print out the document from the beginning. The printer will stop at the end of the first column. Carefully roll the paper backwards through the printer by hand until the head is aligned with the first printed line of the first column. Now hit the space bar to continue printing - it should be the second column. Continue in a like manner until you've printed out the entire document. You will probably require several runs or partial runs before you get the columns to look like you want; I use the backside of old used paper to conserve.

STEP 7 - (Optional) Once you have a pretty good printout of double columns, you may wish to go into the Justified mode to line up the right hand margin. (Document creators are not all agreed as to whether justified or unjustified is the easiest to read. Justified is usually easier to look at, though.) Hyphenate to avoid large gaps between words.

STEP 8 - Print your final document on good paper, rolling back the paper for the right hand column as explained in step 6.

NOTES FROM DETLEF

Please return the demo disks received last meeting on Sylvia Porter's Financial Planner we need to return these disks. Also we need some one to review the two programs -- Elevyn Woods Dynamic Reader and Sylvia Porters Financial Planner for DAUG -- any one interested please call me. If any one is interested in using the Viewtron service - sorry another company out of business.

The Appleworks Sig is going great with a lot of interest being developed. We are meeting on the 4th Tuesday of the Month, the next one May 27th at the Wood dale Public Library (Foster & Wood dale Rd, Wood Dale) at 7 PM. Any one can come please give me a call if it is your first time. The next two meetings will be dealing with data base usage.

Vendor Support

Below are listed the phone numbers of some of the major software vendors. This section will be updated as new software becomes available or goes defunct. If there ate other vendor's which are not on this list, please bring them to my attention.

Vendor	Software	area	Phone #
Apple Computer	Various	408	996-1010
ARTSCI	Magic Series	213	760-4577
Microsoft	Various	800	426-2940
Perfect Software	Perfect Series	800	332-8327
Software Publishing	PFS:Series	800	232-2897
MicroPro	Star Series	800	443-0100
Broderbund	Various	415	479-1170
LJK Enterprises	Perfect Series	314	962-1855
Megahus	Mega Series	800	358-8883
Muse Software	Supertext	301	659-7212
Quark	Word Juggler	800	543-7711
Stoneware	DB Master	415	454-6500
Visicorp	Visi Series	800	583-7762
Ashton Tate	DBASE II	213	204-5570
Peachtree Software	Various	800	554-8900
BPI Systems	Accounting	512	454-2801

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DAUG
NEEDS
YOUR
HELP

The only way to have a good newsletter each month is to get input from members. You don't have to be a HACKER to contribute something. I really cannot write 7 pages each month without your help. Things we can use are:

$Software reviews-games, business programs, public domain,etc.
$Article or book reviews- from newspapers, magazines, books, etc.(except Nibble)
$Short programs or routines-you have written
$Programming tips & hints
$Trivia-computer facts, cartoons, questions
$Anything else of interest

Articles can be given to any of the officers at the regular monthly meeting. They can also be mailed directly to the Newsletter Editor at the following address:

DON SMITH
20 S. LODGE LANE
LOMBARD, ILL 60148

The deadline for submission of these articles is the date of the board meeting (see the schedule on page 1). As an added incentive for you to submit an article, you will be entitled to a free DOM during each month you submit an article.

Please have each submission consist of the following:
1) a printed copy of your article
2) a diskette containing your article
3) the word processor used to create your article
4) your name and telephone number
Your cooperation is needed and appreciated.

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$ FOR SALE $
$$$$$$$$$$$$$$$$$$$$$

Daisy wheel printer; Xerox Diablo 1620

with serial card, ribbons, wheels

IN WORKING CONDITION

$250 OR BEST OFFER -- 968-3897

$$$$$

HELP LINE

The following members have volunteered to answer questions by phone on the subjects listed. Please be considerate when calling for help. Think through your question; collect all the information; and don't call later than 10 p.m. If you'd like to help, let us know.

Apple Writer IIe:	Chuck Jonah,985-5497
Applesoft:	Chuck Jonah, 985-5497
Appleworks:	Detlef Adolff, 766-7741
DOM Infro:	Detlef Adolff, 766-7741
DOS:	Chuck Jonah, 985-5497
Interface:	Rufus Teesdale, 469-8836
Mach Lang:	Chuck Jonah, 985-5497
Macintosh:	Randy Paulin, 366-3274
Modems:	Rufus Teesdale, 469-8836
Magic Window:	Ed Danley, 969-4433
Supertext:	Dave Dohmeier, 941-1645

$$$$$

Treasurers Report	April
Previous Balance	883.56
Membership	152.00
Monthly Dom's	128.50
Auction	13.00
Total Revenue	293.50
Expenses	
Refreshments	0.00
Operational Expenses	2.00
Capital Expenses	0.00
Newsletter + Stamps	117.62
Diskettes	142.50
Other Club Membership	30.00
Rent	0.00
Prize Fund	0.00
Total Expenses	292.12
Net Income	1.38
Ending Balance	884.94

John W Sandora

EVALUATION OF EDUCATIONAL DoMs. PART II

Last month I described the method used to evaluate some 70 educational programs contained on 26 DAUG DoMs. There were 35 programs that received an evaluation of 2.7 (equivalent to a B+) or better. Most of these (20) appear on four DoMs (#6, 22, 35,and 39). The rest (15 programs) are scattered over eight different DoMs. To make these latter programs more accessible, they have been collected onto one disk, DOM #58, which will be available in May.

The actual evaluation is given below in Table 1. The program type is indicated by a letter and the evaluation criteria by a number. For a brief description of these see the list given in the article in the April DAUG Newsletter. Table 2 shows the results of the evaluation. The name of the program, the DOM on which it appears, and the subject are listed first. Next the suggested grade level is given. A number followed by a ' + ' indicates that the program may be used by adults. The scores for each evaluation point are listed under columns numbered from 1 to 14. These correspond to those listed in Table 1. The scale ranges from "4" (perfect, could not be better) to "0" (fails to achieve the goal). In instances where an evaluation point did not apply, it was marked with a ' * ' and not included in the evaluation. An overall rating, obtained by adding the evaluations and dividing by the number of points evaluated, appears in the last column.

TABLE 1. ABBREVIATIONS USED IN EVALUATION

EVALUATION CRITERIA	PROGRAM TYPE
1. Has a well defined purpose	a. Drill/Practice
2. Explains objective	b. Tutorial
3. Provides instructions	c. Demonstration
4. Correct grammar/spelling	d. Simulation
5. Is free of errors	e. Problem Solving
6. Contains factual material	f. Educational Game
7. Appropriate error response	g. Game
8. Appropriate success response	h. Testing
9. Is easy to use	i. Lab Data Analysis
10.Student controls speed	j. Material Generation
11.Random questions/responses	k. Classroom Management
12.Uses graphics/display well	l. Utility
13.Uses color effectively	m. Word Processing
14.Uses sound appropriately	n. Authoring System

WE GOOFED!!

Our April meeting was supposed to be the nominations for Officers and Directors. If you are interested in running for an office, please let one of the current officers know immediately. Nominations will be accepted election night, May 12. You can nominate someone else only if you have their permission. I guess we got so busy amending the By-Laws, we forgot to actually read them.

We had a surprise guest at our April meeting. Cathie Zacharias from TIMEWORKS presented two of their Apple products, ELEVYN WOOD DYNAMIC READER and SYLVIA PORTER'S FINANCIAL PLANNER. The EVELYN WOOD program teaches you speed reading via your Apple //e or //c. It actually teaches you to read faster. It does not teach you to skim over words. SYLVIA PORTER'S package is based on information from the nations most popular financial analyst. This program not only does short term planning for you, but also forecast's and helps you plan your needs for the long term future.

TIMEWORKS is offering DAUG a special group order allowing us to purchase products at 20% off of list price. For more information on the group purchase, contact Detlef Adolff at 766-7741.

Our topic for the night was educational uses of the Apple. John Pendery started things off by reviewing his review /checklist for educational software. He explained what to look for and what to look out for in the software. His review sheet, along with the Best of the DOM's education software should be available on a May DOM. Actual presentations were done simultaneously. John Sandora had 12 programs for the grade school range of K thru 5. Don Mocarski was demonstrating how he uses the Apple teaching students science. Detlef Adolff kept the infant minded (who said that?) busy with his PreSchool collection, while John Pendery presented programs from the BEST of the DAUG DOM's.

Thanks to all who participated and "educated" us. Future meetings under consideration includes special SIG night, telecommunications, a game night, and Apples in the home (BSR).

ED Danley

TABLE 2. EVALUATION OF DAUG-DOM EDUCATIONAL PROGRAMS

NAME	DOM#	SUBJECT	LEVEL	TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	RATING
APPLE TUTORIAL	6	OPER./BASIC	4+	b	3	3	4	3	3	3	!	!	4	4	!	!	!	2	3.2
DRILL	22	MATH	1-3	a	2	2	3	4	3	3	3	3	4	4	3	3	!	!	3.1
ADRILL	22	MATH	3-6	a	2	2	3	4	3	3	3	3	4	4	3	3	!	!	3.1
APPLE ARRAY	22	MATH	2-5	c,g	3	2	3	3	4	4	3	3	4	4	4	4	4	!	3.4
FRED FRACTION	22	MATH	4-6	a,g	3	3	3	3	4	4	3	3	3	4	4	3	4	!	3.4
MAKING CHANGE	22	MATH	K-1	a	1	1	2	3	4	4	4	3	3	4	3	4	!	!	3.0
MEET THE ROMANS	35	MATH	4-8	a	3	3	3	3	4	4	2	2	3	3	3	3	!	!	3.0
SUPERMATH	35	MATH	1-8	a	1	3	3	3	3	4	2	4	2	4	4	2	4	3	3.0
TITRATION	35	CHEMISTRY	8-12	a	3	4	2	3	2	2	2	3	2	4	4	3	3	2	2.8
PET PIT PAT	35	VOCAB/SPELL	10-12	f	2	1	3	3	4	4	4	4	4	4	3	!	!	!	3.3
PLOTTING POINTS	35	MATH	4-8	c,f	3	2	4	3	4	4	3	3	3	4	!	2	4	2	3.2
COLOR WORD RECOGNITION	35	ART	K-1	a	3	3	3	3	2	4	4	4	2	1	3	3	4	!	3.0
FRACTION DRILL	35	MATH	7-9	a	3	3	3	3	4	3	3	3	2	3	4	3	!	!	3.1
AREA APPROXIMATION	35	MATH	7-10	c	3	3	3	4	3	4	!	!	2	3	!	4	!	!	3.2
PERIODIC TABLE	35	SCIENCE	10-12	data	1	1	3	4	4	4	!	!	4	4	!	2	!	!	3.0
SEQUENCES	39	MATH	1-12	a	1	3	3	3	4	4	3	3	3	3	2	3	!	2	2.8
K-4 MATH DRILL	39	MATH	K-4	a	2	3	3	3	4	4	3	3	2	3	2	3	3	3	3.0
MAD CHEMIST	39	SCIENCE	10-12	g	2	3	2	3	4	3	2	3	3	3	3	3	4	3	2.9
GEOGRAPHY	39	GEOGRAPHY	6+	f	1	3	3	3	4	2	3	3	3	3	3	2	!	!	2.8
THE FUNCTION GAME	39	MATH	4+	g	3	3	3	3	4	3	3	3	3	3	2	3	!	!	3.0
HANG MATH	39	MATH	4+	g	3	3	3	4	4	4	2	3	2	3	3	3	!	3	3.1
ALGEBRA 1	58	MATH	7+	e	2	2	2	4	3	4	!	!	3	3	!	3	!	!	2.9
APPLE NUKE II	58	PHYS./ECON.	5+	d	2	3	4	4	4	4	4	4	3	4	!	3	3	3	3.5
ARITHMATIC TAC DOUGH	58	MATH	2+	g	0	4	3	4	1	4	3	3	3	4	3	3	4	3	3.0
COLOR MATH	58	MATH	K+	c	1	1	3	!	4	!	!	!	3	4	!	3	2	!	2.6
GRAPHING FUNCT'N HI-RES	58	MATH	7+	c	2	2	3	4	4	4	!	!	3	4	!	3	!	!	2.9
MATH DECATHLON	58	MATH	4-8	a,f	3	3	3	4	4	4	4	4	4	4	4	!	!	3	3.6
MISTER MATH 3	58	MATH	K-3	a	2	3	4	4	3	4	4	4	4	4	4	3	4	3	3.6
MORSE CODE	58	MORSE CODE	3+	a	4	3	3	3	2	4	3	3	4	3	4	!	!	4	3.3
PRODUCION OF LIGHT	58	PHYS.	9+	c	2	4	!	4	4	4	!	!	4	1	!	3	!	!	3.4
RUTHERFORD	58	PHYS.	9+	c	3	2	1	4	4	4	!	!	4	3	!	3	!	3	3.0
SPELLING BEE III	58	SPELLING	1+	a	4	4	4	4	3	4	4	4	3	3	4	!	!	!	3.7
SPELLING TEST	58	SPELLING	1+	a	3	3	3	4	4	4	4	!	3	3	4	!	!	!	3.5
STATE CAPITALS	58	GEOGRAPHY	5+	a	4	4	4	3	4	4	4	3	3	3	4	3	3	2	3.4
STATIC ELECTRICITY	58	SCIENCE/PHYS	6+	c,a	0	1	1	3	4	4	3	4	3	3	!	3	!	3	2.7
TOM'S MATH DRILL	58	MATH	2+	a	2	2	1	3	4	4	3	3	3	3	2	!	!	3	2.8

John Pendery

DAUG Disk of the Month # 58 - May 1986

Educational software has generated considerable interest. Many programs have been developed over the years. The quality of these programs varies widely and must be analyzed to determine the program's value to the end user.

The underlying basis for evaluating any piece of software is the answer to the question "Does it do what I want it to do and in a way I want it done?". Unfortunately the usual answer to this question is, "Maybe yes, maybe no", or "Sort of".

When several programs are available it can be very difficult to decide which is the better one for your application. Therefore, it is best to have some guidelines for evaluating each one, so the final decision can be based on a point by point comparison.

John Pendery has actually done so! He evaluated some 70 educational programs contained on 26 DAUG DoMs. A broad range of subjects are covered in these programs: Math, Spelling, Science, Geography, Computer Programming, and even Morse Code.

The evaluation criteria were as follows:

1. Has a well defined educational purpose.
2. Adequately explains objective.
3. Provides adequate instructions.
4. Uses correct grammar/spelling
5. Is free of errors.
6. Contains factual material.
7. Uses appropriate error response.
8. Uses appropriate success response.
9. Is easy to use.
10. Allows student to control speed.
11. Randomizes questions/responses.
12. Uses graphics/display well.
13. Uses color effectively.
14. Uses sound appropriately.

Each point was evaluated as the program was running. The scale ran from "4" (perfect, could not be made better) to "0" (fails to achieve or address goal).

Grades ranged from 3.7 to 1.6 with 2.9 as the median. Not bad for Public Domain programs. There were 35 programs that received an evaluation of 2.7 (equivalent to a B+) or better. Most of them are contained on four DoMs (#6, 22, 35, and 39). However, the rest are scattered over eight different DoMs. To make life easy, the latter programs have been collected on this disk.

Run MMENU for easy access to the programs. Before running the Integer Basic Programs, you must "RUN INTEGER BASIC LOADER". To read Text Files, "RUN FILE.READER".

Many, many thanks to John Pendery for giving his time so freely to benefit the members of D.A.U.G.!

```
 A 004 HELLO
$A 023 ALGEBRA 1
$A 051 APPLE NUKE II
$A 024 ARITHMETIC TAC DOUGH
$I 006 COLOR MATH
$T 011 FIG.1
$A 003 FILE.READER
$A 014 GRAPHING FUNCTIONS IN HI-RES
$B 042 INTBASIC
$A 003 INTEGER BASIC LOADER
$B 006 LOADER.OBJ0
$A 051 MATH DECATHLON
$A 026 MISTER MATH 3
$A 015 MMENU
$A 014 MORSE CODE
$B 003 MORSE CODE.OBJ
$T 025 PART.1
$T 028 PART.2
$A 014 PRODUCTION OF LIGHT
$A 013 RUTHERFORD
$A 017 SPELLING BEE III
$A 014 SPELLING TEST
$I 045 STATE CAPITALS
$A 009 STATIC ELECTRICITY
$A 029 TOM'S MATH DRILL
```

=== DAUG Special # 15 ===

This month we have another double sided Special for you. To get you into a playful mood for the most beautiful month of the year we now present for your enjoyment and delight F I R E G R O U N D.

Fireground was written by Albert Lesiak of NICS(formerly NIAUG). Al is a fireman, and is on duty for 24 hours at a time. He wrote this program on his //c while waiting for the real alarms to go off.

Fireground is a maze & arcade game that will test your ability to locate and fight fires that you will be dispatched to. Your fire district is very large and it is easy to get lost unless you map your progress.

Not only will you encounter hazards on your way to the fire, you will also notice that the fire dispatcher has a problem enunciating clearly. Listen Closely and learn the street layout in your town!

When you gain seniority (by not driving into walls, and by finding the fires), you will be able to enter the arcade area to actually fight fires. You will need a joystick for this portion. Watch out for people jumping from windows!

Enjoy playing FIREGROUND, and remember: Only YOU can prevent ~~forest~~ computer fires!

VISIT OUR FRIENDS!

A number of local computer stores support our activity by offering the discounts listed below to those who show their membership cards. Stores that sell merchandise to everybody at a discount are not included.

C B M Computer ,St.CharlesRdandRoute83,Elmhurst(530-1125)-15%
C B M Computer , 7 S LaGrange Rd, LaGrange (352-4800) -- 15%
Computer Workshop, 1626 W Ogden Av, Downers Grove (971-0004) -- 10% on training and rentals; none on consulting or programming
Farnsworth Computer Center, 1891 N Farnsworth Av,Aurora(851-3888)--15%
Farnsworth Computer Center, 383 E North Av, Villa Park (833-7100) 15%
Primetime Computer Services,9906 Wood Lane,Palos Hills,Ill (598-5200)-10%
Save On Software, 111 E Roosevelt Rd.,Lombard, Ill 60148 (932-9144) --27% on software & supplies, hardware -good prices
Softwaire Center, 1163 Ogden Av, Naperville (355-7515) -- 15%
Frequently a smaller discount is offered if a credit card is used. If a store would like to be included in this listing, please write the editor and give us your discount schedule for Apple-User Group members.
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P O Box 294
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The mailing label to the right is the only notice you will get that your membership is expiring. If you let your membership lapse, you will have to pay another initiation fee of $8, plus your $12 dues, to get back on our list.