



mini'app'les

apple computer user group newsletter

VOLUME IV No 12

DECEMBER 1981

CALENDAR

WHICH

WHEN

WHERE

WHAT

Pascal
Note 1

Wed Dec 2
7:30pm

Minnesota Federal
9th Ave S Hopkins

Regular *Pascal* Special
Interest Group Meeting.

Education
Special
Interest Group
Note 3

Wed Dec 9
7:30pm

Sperry Univac
3001 Metro Dr.
Room 103
Bloomington

Large *Pascal*
Program Considerations

St. Paul
Branch
MINI'APP'LES
Note 4

Sat Dec 12
(call for
time)

Personal Bus's Systems
2225 White Bear Ave
Maplewood

A strategy meeting to
discuss forming a St Paul
branch of Mini'app'les.

REGULAR
MINI'APP'LES
Note 2

WEDNESDAY
DEC 16th
7:30pm

**MAYFLOWER
CHURCH**
N.W.corner
Diamondlake Rd
and 35W, Minneapolis.
Free parking
on premises.
Map inside

Multi-image slide show
Dave Jaskulke of Blumberg
Photo Sound will demon-
strate the "Arion" inter-
face to Apple. Adds sound
and multi-projection to
your slide show.

Pascal
Note 1

Wed Jan 6
7:30pm

Minnesota Federal
9th Ave S Hopkins

Regular *Pascal* Special
Interest Group Meeting.

REGULAR
MINI'APP'LES
Note 2

WEDNESDAY
JAN 20th
7:30pm

**UNIVERSITY
MINNESOTA
ST. PAUL
CAMPUS**
Near State Fair
Room B45 Bldg 412
Map next month

Profile: Apple Hard Disk
Eric Johnson of
Stan Clothier, Apples'
manufacturing rep.
→ *Open Discussion Night*
Bring along questions;
simple or sophisticated;
Show & tell soft/hardware
incl printers, games, etc
If you have something to
say about Apples, this is
your chance.

- Note 1. Contact- *Keith Madonna*
2. *Chuck Thiesfeld*
3. *Chase Allen*
4. *Joe Miller*
770-6161 (Notice inside)

MICROINK ATLAS at \$12

If anyone still wants a copy of this please call D.Buchler.

Pay your dues * * * * * See back cover

MINI'APP'LES

P.O. Box 796
Hopkins, MN 55343

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INFORMATION

This is the Newsletter of Mini'app'les, the Apple II Users' group of the Twin Cities of Minneapolis and St. Paul.

Questions

Please direct questions to appropriate board member or any officer. Technical questions should be directed to one of the Technical Advisers listed here.

Membership

Applications for membership should be directed to the Membership Co-ordinator.

After Dec 19th, 1981 Dues will be \$12/year; Before Dec 19th, 1981, \$10 buys membership for current and next year. Members receive a subscription to this newsletter and all club benefits.

DOMs

DOMs (Diskettes of the Month) are available at meetings for \$4/disk or by mail for \$6/disk. Contact Software Sales coord'r.

Newsletter Contributions

Please send contributions directly to the Newsletter Editor. Hard copy binary or text files (ASCII coded) are preferred, but any form will be gratefully accepted. Deadline for publication is the 3rd Wednesday of the month preceding the month in which the item might be included. An article will be printed when space permits if, in the opinion of the Newsletter Editor, it constitutes suitable material for publication.

Advertising rates

Rates are as follows:
Full Page \$30/issue
Half Page \$20/issue

Circulation 850 (approx)

NOTICE St. Paul Branch of Mini'app'les?

As a Public Service, Personal Business Systems Inc., Maplewood and Highland Stores, will hold a strategy meeting for the purpose of organizing a 'Branch' of Mini'app'les in St. Paul.

The meeting will take place on Saturday, Dec 12th at:

Personal Business Systems
2225 White Bear Avenue
Maplewood, 55109.

If you are interested, please contact Joe Miller at 770-6161.

A SKINNY EDITION

By Dan Buchler

This month's newsletter is thinner than usual on purpose. Because of the Christmas mail rush, we are not using bulk mail in order to ensure you get your newsletter on schedule. Therefore, we need to keep the weight below 1 oz to avoid additional postage. Thank you for your understanding!

MINI'APP'LES EDUCATION

by Chase Allen

Another month bites the dust, and with it the Data Base Design Concepts Seminar. Still to be scheduled is the follow-up on coding methods, for BASIC and Pascal. The call is out for a volunteer to present the BASIC Session which I don't feel qualified to lead. By the time this letter goes to press I will have held the session on Pascal. I sincerely hope the reception to the first session was as good as I thought. Everyone seemed to go away with the feeling that they had gained insight on how data bases are designed.

The next seminar is of interest to Pascal users. The date is Wednesday, 9 December at 7:30 PM. That is the week before the MINI'APP'LES meeting, so by then it will be history. So, call me to register at 854-1331 ext 250, days or 432-6245 evenings. The subject is "Large Pascal Program Considerations".

We will cover everything from procedures and functions (including machine language interface) up through Chain. So, I hope even the more experienced Pascal types will come away with new techniques. Of special interest is a technique for separately compiling segment procedures, using libraries.

The location of this meeting is the same as for the Data Base Design Seminar - The Sperry-UNIVAC building at Metro Office Park. It is necessary to keep the access door locked, so come on time! Access will be problematical after about 7:40. For directions see the inside back cover of the November newsletter, or call me.

This month's tip concerns techniques for program design. First, time spent in laying out your logic will repay you a thousand-fold in easier checkout, and coding. A technique that is gaining greatly in acceptance in the industry is the use of Warnier' Diagrams. These diagrams are little more than outlines of what you are to do, in a very methodical order. The following is a rough idea of what this method entails:

```

-----
|                                     |
| BEGIN < | Define the               |
|                                     | Initialization
|                                     | Process
|-----|
|                                     |
| PROGRAM < DO IT < | Define          |
|                                     | the Main
|                                     | process
|-----|
|                                     |
| END IT < | Detail                  |
|                                     | the cleanup
|                                     | process
|-----|

```

In this small example I can't really show all of the syntax used to define the Warnier' diagram method, but suffice it to say that as you work to the right, you do successively finer detail definition. The constructs "IF-THEN-ELSE", "DO-WHILE", "REPEAT" and all the rest of the classical "structured" constructs are used. At the ultimate, your program is practically complete. Perhaps this would be the subject of a good seminar. Let me hear from ye who have an interest in pursuing this subject.

DOM #9

By Ken Slingsby

This Disk Of the Month features the IAC disk number 9, which is made of contributions from the San Francisco Apple Corps. Our DOM also contains some locally contributed programs. Members who have been in the group a while will recognize a few of the programs as several were in the User Bank some time ago.

HELLO1

This was the hello program from the IAC disk. The program displays the SFAC Logo and will catalog the disk. From the IAC.

CALCULATOR

Performs the four calculator functions plus can find area, square roots, and exponentials. A good demo for elementary students. From the IAC.

REACTANCE CALCULATIONS

Will compute either the reactance, frequency of resonance, or capacitance/inductance of a series circuit. From the IAC.

TRANSISTOR PARAMETERS

Will calculate the Beta and Gain of a 'standard' transistor amplifier circuit in the common emitter connection. From the IAC.

SIN PLOT

Will plot a sin function. From the IAC.

METRICS AREA METRICS LENGTH METRICS VOLUME METRICS KITCHEN METRICS TEMPERATURE WEIGHT

These programs will convert a given unit in the English system to the Metric system or vice-versa. from the IAC.

PERMUTATIONS— COMBINATIONS

This program will compute the permutations and combinations of a given event series. For example it will answer the question: "How many permutations and combinations of sets of the alphabet are there taking 5 letters at a time?" Hint . . . The numbers are rather large. From the IAC.

BINOMIAL DISTRIBUTION

This program will calculate the probability of getting 5 heads when flipping a coin 10 times, for example. From the IAC.

PRIME FACTORS OF INTEGERS

This program will calculate the prime factors of a given integer that is, breaking it into the smallest values not evenly divisible by other integers. From the IAC.

PLOT

Will plot on the screen any function entered into the program, using text characters. From the IAC.

FAST FOURIER TRANSFORM

Computes the FFT of an entered set of X,Y points. From the IAC.

TOTAL

Adds a series of entered values such as dollars and cents. From the IAC.

LOOP ANTENNA

Calculates the number of turns of wire and total length of wire needed to make a loop antenna for a standard AM radio. This loop antenna will improve its reception. From the IAC.

XLINER IMPEDANCE

Calculates the impedance of a transmission line given its characteristics. From the IAC.

NUMBER BASE CONVERTER

Converts numbers from one base to another. For example, this program will convert a binary number to base 10. From the IAC.

HEX-DEC CONVERTER

Converts numbers from hexadecimal to base 10. From the IAC.

CALC PI TO 1000 DIGITS

This program will calculate the value of pi to any number of digits up to 1000. From the IAC.

DOM #9 Continued

LONG DIVISION

Demonstrations of long division showing the steps involved. Good demos for elementary students. From the IAC.

MULTIPLY

Demonstrates multiplication of integers. From the IAC.

MATH PROCTICE

A good drill program for elementary students. Aids in learning the functions of addition, subtraction, multiplication, and division. From the IAC.

EXTERIOR BALLISTICS

Calculates the range of a projectile shot at an entered angle and with an entered muzzle velocity. From the IAC.

HARMONIC ANALYSIS

Plots a curve and harmonics for entered data. The curve will automatically scale itself for the data to be plotted. From the IAC.

QUADRATIC SURFACE

Gives point values at regular intervals over a quadratic surface. From the IAC.

HEX CONVERSIONS

Converts numbers to hexadecimal or performs addition, subtraction, and shows the values in binary form. From the IAC.

NOTCH FILTER

Calculates the elements needed to assemble a notch filter. From the IAC.

BIORHYTHM PRINTER

This is not a repeat from the last DOM, but a different version. This version is based on the Integer BASIC program that used to be in the User Bank. John has extensively modified it to print the biorhythm on a printer for any time period desired. Contributed by John Schoeppner.

DIAL ABBS

This program with a Hayes Micromodem will dial and connect your APPLE to one of the local Bulliten Boards. It is based on a demo program in the Hayes instruction booklet with several modifications. Contributed by John Schoeppner.

THE PROBLEM WITH RENUMBER

RENUMBER

Those of you who follow the Mini'App'Les Newsletter will remember sometime ago a problem with the APPLE renumber program was pointed out. These programs describe the problem and include the solution. Contributed by Steven Sullivan.

MOVE SCREEN UTILITY MOVE SCREEN BINARY


This program describes a method of creating one of the most eyecatching title pages I've seen. The explanatory notes should make this utility relatively easy to incorporate into your programs. By Steven Sullivan.

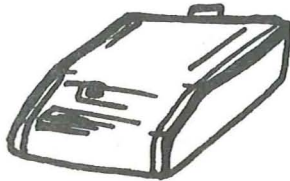
SINGLE DRIVE MUFFIN

This program will muffin an entire disk from DOS 3.2 to 3.3 in five passes. It operates in a similar fashion to the single drive copy programs that exist. The program was written by Dana Schwartz of the Washington Apple Pi. It was printed and described in the Summer 1981 APPLE ORCHARD. contributed by Ken Slingsby.

DOM HEADER TAKER-OFF-ER

Looks like I goofed. The DOM header that has been on every DOM since its start has not always been written by a program. Therefore, there are some headers that will stop Muffin dead in its tracks (forgive the pun, I couldn't resist). The descriptions of what is being done to make the DOM headers is in the July/August Call A.P.P.L.E. Rather than explain how to correct the problem, which is rather difficult, this program will remove the header from the offending disks. It should be Demuffined to DOS 3.2 before using. Written by Ken Slingsby.





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6409 colony way 1b, edina, MN 929-6237

SFTW SALES TAX

by Dan Buchler

Not commonly known by computer stores and personnel, but sales tax is not chargeable on Software in the state of Minnesota. We will have a copy of a letter from the state of Minn substantiating this fact. (Thanks to Roy Oehler, President TCTUG).

PRINTER PAPER

This is not a paid ad but a piece of information supplied by your Editor!

The 'House of Forms' is a new forms supply store owned by Custom Business Forms offering reasonable prices and walk-in availability of printer paper. It is located at:

20 North First Street

Minneapolis, 55401.

Contact Delores Miskowiec, 332-4866

This is just around the corner from Custom Business Forms who are on Hennepin Avenue. Because of the store, Custom Business Forms will not sell paper except in lots of 24!

However, if there are enough people interested, we can put together a bulk order for 9 1/2 by 11 20lb paper, 2000 sheets/box for approximately \$16 per box. The House of Forms prices are somewhat higher than that, but lower than at most of the other places in town. Contact Dan Buchler.

THANK YOU CDC CAMP COURAGE & DAVE BIRNBAUM

By Dan Buchler

OCT MEETING

Mini'app'les wishes to thank CDC and Charles Wirth for showing us the 747 approaching to within 1/2" of the ground and for the accompanying talk and handouts. We all enjoyed the film very much.

We wish also to thank Camp Courage and Su-Shen Bare for her interesting slide show which demonstrated how the less fortunate among us can lead a better life through the use of Computers such as Apple IIs.

NOV MEETING

120 hardy members attended the Mike Birnbaum presentation on Home Control. In case you forgot, this was the night of the November 11" snow storm! It was worth fight with the elements. Mike showed us how he controls sun blinds, lights, burglar alarms, baby crying detectors, etc, etc. His hardware approach emphasized low cost techniques and we hope to bring you some of his ideas in later editions of this newsletter.

THE HEARTIEST OF Season's Greetings

TO ALL MINI'APP'LES, FAMILY & FRIENDS



MICRO/MAILER

A complete mailing list system. Features: create, delete, catalog lists; add, correct, delete, sort, display and list records. Prints labels 1, 2 or 3 up; stores 1000 records per disk.

\$24.95 in stores \$19.95 special price for Mini'app'les members

Send check to

Paula Ozols
8711 Black Maple Drive
Eden Prairie, MN. 55344
(941-8299)

FOR SALE

New Parallel Printer Card
and
Disk II Controller Card with
switched 3.2 and 3.3 Proms

Warren Ostlund
926-3122

EPSON PRINTERS BMC MONITORS

If you are in the market for an MX-80, an MX-100 or a BMC Monitor, you should contact Al Peterman, who can order those items for you at special club 'bulk' prices.

Al Peterman 721-3295

ORDERING DOMs

A reminder that DOMs are available by mail at \$6 each. Send your order to:

MINI'APP'LES DOM's
Box 796
Hopkins, MN 55343

Usually the latest three DOM's are available at club meetings for \$4 each. Because of the volume of disks distributed, they are not tested.

FOR SALE

All items like new : Orig- Best My
or new. : inal Disc. Price
Original boxes. : Price Price

Apple Integer Card.....	\$149	\$145	\$125
Apple Language Card.....	\$195	\$175	\$155
ALF 3 voice Music Card..	\$239	\$235	\$200
Mountain Hardware Clock.	\$229	\$225	\$190
Silentye Printer/Intf..	\$515	\$349	} \$350
6 Rolls of Ptr Paper....	\$ 36	\$ 30	
Novation CAT Acoustic			
Coupled Modem..	\$195	\$180	} \$280
Apple Communication Crd.	\$185	\$145	

Will consider trade of all of above, except the Language card, for your Apple II, 48K, Revision 7 or later..or? Reason for sale: I have changed direction of work to word proc.

Software to sell: Home Finance Pak I (Checkbook, savings, credit card) and Color Calendar (1yr planner) (Spectrum Software) on 2 disks. Cost \$80... sell for \$45.00 with documentation.

Charles Ray
19550 Cedarhurst, Deephaven, 55391.
475-2000

1982 DUES

Your 1982 Mini'app'les dues
should be paid by Dec 19th.
Please send your \$10 to:

Ann Bell (Membership Coordinator)
8325 39th Avenue North,
New Hope
MN 55427

After Dec 19th dues = \$12.

We will create a 1982 mailing list over the long
weekend, and if you want to be on it, please get your
dues in by Dec 19th.

We plan to publish a membership list
(for member's use only) in February,
1982. The list will contain name,

phone number and Zip code only. If
you do not wish to be included on that
list, please so indicate when you send
in your dues!

THIS IS YOUR LAST CHANCE TO BEAT
THE PRICE INCREASE

IN THIS ISSUE

Special Meeting Notice.....3
Mini'app'les Education
by Chase Allen.....3
DOM #9 by Ken Slingsby.....4,5
Thank You6
Software Sales Tax.....6
Printer Paper.....6
Season's Greetings by Tom Edwards.....7
Classifieds.....7

To Mpls

May- | N | Exit 35W
flower | ^ | at
Church -- | ^ | Diamond Lake
>>>>> IMC | | Rd; N and S.
--/ | \

Diamond Lake Rd

35W | To Richfield
| | v
| | v

PAGE 8

Mini'app'les
Box 796
Hopkins, Mn. 54343

First Class



SALO, BILL
RR2 - BOX TT 8
ROCKFORD

MN

55373

MINI'APP'LES MECC ORDER

MECC disks may be ordered only by Mini'App'Les members who are residents of Minnesota. The diskettes were developed for the Minnesota schools by Minnesota Educational Computing Consortium, a tax-funded agency, and you are not to make copies for non-residents.

We refer non-residents to MECC Publications 612/376-1118.

No.	Title	Vol.	Special Emphasis	Quan.	No.
701	MECC Demo	1		-----	701
717	Agriculture	1		-----	717
714	Business	1		-----	714
702	Elementary	1	Mathematics	-----	702
703	Elementary	2	Language Arts	-----	703
704	Elementary	3	Social Studies	-----	704
705	Elementary	4	Science	-----	705
719	Elementary	5	Language Arts	-----	719
725	Elementary	6	History	-----	725
731	Elementary	7	K-2	-----	731
732	Elementary	8	Geometry	-----	732
733	Elementary	9	Geometry	-----	733
734	Elementary	10	Geometry	-----	734
735	Elementary	11	Phonetics	-----	735
736	Elementary	12	SIM	-----	736
706	Mathematics	1	Sr. High	-----	706
736	Mathematics	2	Measurement	-----	737
738	Mathenatics	3	Geometry	-----	738
716	Aestheometry	1	Curves	-----	716
712	Music	1	Music Theory	-----	712
708	Science	1	Sr. High	-----	708
709	Science	2	Sr. High	-----	709
707	Science	3	Sr. High	-----	707
710	Social Studies	1	Sr. High	-----	710
711	Social Studies	2	Sr./Middle	-----	711
718	Drivers Ed/Ind. Arts	1		-----	718
727	Special Needs	1	Handicapped Spell	-----	727
726	Spelling	1	Elementary	-----	726
728	Spelling	2	Adult Words	-----	728
739	Art	1		-----	739
720	Programming Aids	1		-----	720 ***
724	Shape Tables	1	HGR Utilities	-----	724 ***
715	Teacher Utilities	2		-----	715

*** The Programers Aid & Shape Tables require the support booklets to be used. We will sell the disk and book as a package only, to be delivered at the club meetings.

Prices:

Disketts	\$5.00	-----
Mailing (Disks Only)	\$2.00	-----
Disk & Booklet	\$8.50 (720,724)	-----

Total -----

Name -----
 Address -----
 Phone -----

I UNDERSTAND THAT I AM NOT TO
 MAKE COPIES FOR NON-RESIDENTS.

SIGNED -----

NOTE MECC DISKS ARE IN DOS 3.3