



# mini'app'les

apple computer user group newsletter

VOLUME IV No 12

DECEMBER 1981

## CALENDAR

## CALENDAR

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WHICH	WHEN	WHERE	WHAT
<i>Pascal</i> Note 1	Wed Dec 2 7:30pm	Minnesota Federal 9th Ave S Hopkins	Regular <i>Pascal</i> Special Interest Group Meeting.
<i>Education</i> Special Interest Group Note 3	Wed Dec 9 7:30pm	Sperry Univac 3001 Metro Dr. Room 103 Bloomington	Large <i>Pascal</i> Program Considerations
<i>St. Paul</i> 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.
<b>REGULAR</b> MINI'APP'LES Note 2	WEDNESDAY DEC 16th 7:30pm	<b>MAYFLOWER CHURCH</b> N.W.corner Diamondlake Rd and 35W, Minneapolis. Free parking on premises. <i>Map inside</i>	<i>Multi-image slide show</i> Dave Jaskulke of Blumberg Photo Sound will demon- strate the "Arion" inter- face to Apple. Adds sound and multi-projection to your slide show.
<i>Pascal</i> Note 1	Wed Jan 6 7:30pm	Minnesota Federal 9th Ave S Hopkins	Regular <i>Pascal</i> Special Interest Group Meeting.
<b>REGULAR</b> MINI'APP'LES Note 2	WEDNESDAY JAN 20th 7:30pm	<b>UNIVERSITY MINNESOTA ST. PAUL CAMPUS</b> Near State Fair Room B45 Bldg 412 <i>Map next month</i>	<i>Profile: Apple Hard Disk</i> Eric Johnson of Stan Clothier, Apples' manufacturing rep. + <i>Open Discussion Night</i> 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*

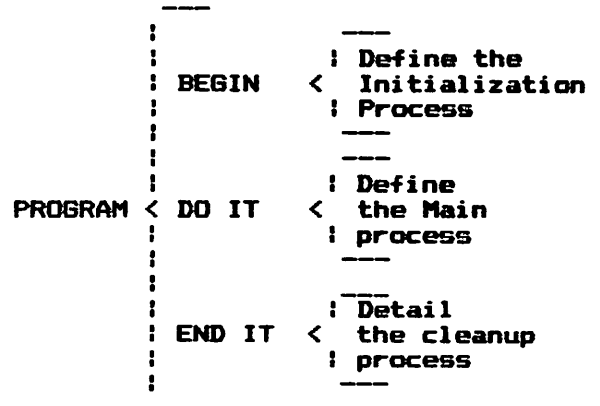
Another month bites the dust, and with it the Data Base Design Concepts Seminar. Still to be scheduled is the follow-up on coding methods, for BASIC and Pascal. The call is out for a volunteer to present the BASIC Session which I don't feel qualified to lead. By the time this letter goes to press I will 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:



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.

**XLIN 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  
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.

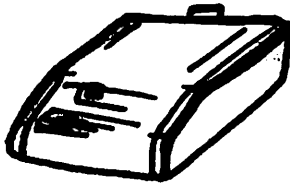
**SINGLE DRIVE MUFFIN**

This program will muffle 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 Demuffed to DOS 3.2 before using. Written by Ken Slingsby.

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## 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 Miskowicz, 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



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**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  
 Silentype Printer/Intf..\$515 \$349 }  
 6 Rolls of Ptr Paper....\$ 36 \$ 30 }\$350  
 Novation CAT Acoustic  
     Coupled Modem..\$195 \$180 }  
 Apple Communication Crd.\$185 \$145 }\$280

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**



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To Mpls

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