January's Meeting

Another great meeting . . . George held us spellbound while giving us the in's and out's of windows. His theme was: "Keep it Simple." No extra memory management, no TSR's, nothing, just run windows, keep it clean and simple. Let Windows run itself. It was programmed to do just that, so use it that way. George said the first requirement is to install Windows correctly. Use a minimum of two megabytes of memory, preferably four. Upgrade to a 386, a 286 is just too slow and doesn't have the extra features that are needed. Buy a new, fast, 120mb or 200mb hard disk drive, that runs at 16ms to 18ms; MFM's and RLL's are obsolete. Windows uses 6mb, AmiPro 12mb, WordPerfect takes up 9mb or 10mb, Excell takes up 10mb or 12mb. Also we need free space, so remove the old hard drive and store in away. Upgrade your DOS,

Paradox SE Version 1.0
A review

by John Ewing

SLO Bytes PCUG

PARADOX SE (the SE stands for special edition) is a single user relational database modeled after it's more powerful network based cousin, PARADOX VERSION 3.0.

When I opened the software package, I was surprised to find a manual titled "The ABC's of Paradox" by Charles Siegel. This is a third party instruction book for beginners published by Sybex, Inc. Not only is this a third party manual, it is written for Paradox Version 3.0.

Since Paradox SE is a watered down version of the network product, I wanted to know how version 3.0 was modified. According to a leaflet identified as the Paradox SE "Getting Started Guide," SE does not include the Personal Programmer, the Data-

Entry Toolkit, the Sample Application or Protect. The guide further states that SE does not contain the feature enhancements added in the latest release of Paradox Version 3.5.

I was also curious about the maximum number of fields, records, and tables available in SE. I couldn't find this information in the Getting Started Guide. I couldn't find similar information for Paradox 3.0 in the Sybex book either.

The purpose of this article is not to give an in-depth review of the inner workings of a database program, but to present my observations of a well-known product that has been modified for use as a single user, stand alone system.

SYSTEM REQUIREMENTS

The minimum system requirements for Paradox include:

- 100% IBM-compatible computer
- One hard disk and at least one floppy disk drive

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Club Officers

President   George Campbell

Vice President   Sam Powers

Treasurer   Bernice Meador

Secretary   Bob Ward

Editor   Jim Bigelow

Webster's Electronic Dictionary & Thesaurus College Edition

By Bob Ward
SLO Bytes PCUG

If you're like me, when ever you write correspondence on the computer, your spelling checker, dictionary and thesaurus are right by your side. I have looked at several computer dictionaries and all are adequate. But the one that I am reviewing here stands out above others. I am referring to Reference Software's Random House Webster's Electronic Dictionary and Thesaurus - College Edition. That's a long title for a program but then it takes up a good chunk of your hard disk as well. If you choose to load the whole program, you better have about 9 megabytes of free space on your hard disk, although you can save considerable space by loading only those modules you will be using most of the time. On installation you can choose to load the dictionary with any combination of the following modules 1. Thesaurus 2. Pronunciation or 3. Etymology.

Here are some statistics that justify its immense size. The dictionary has over 180,000 words in it, the Thesaurus contains 275,000 synonyms and antonyms, with the Pronunciation and Etymology modules adding even more information to the definitions. To this add 11,000 word database of proper nouns and you have one complete package.

Installation is straight forward although it does take a while. The installation menu pops up and displays the following choices: Full Install, Reinstall, or Change Hotkeys.

After you have made your choices you may pick a subdirectory in which to load the program. If you do not have enough hard disk space, you will be notified and the installation aborted. As a conclusion to the installation you can modify the hot keys. Default hotkeys are CTRL+ LEFT SHIFT combinations. I shortened it to something I could remember: Ctrl-D (dictionary) and Ctrl-T, thesaurus.

Being RAM resident, Webster's Electronic Dictionary works within most of the popular wordprocessors. If you choose not to run it as a TSR, a stand-alone module, EDT1 may be run from the DOS prompt. You might think a program of this size would take up a lot of memory. The RAM resident portion is only about 8.5K with with another 80K file created on disk that holds the foreground kernel. I reviewed the program on a 286 16mhz computer, not the fastest thing by todays standards. I'm sure a fast hard disk makes up for some of the lag time in loading the program. The dictionary only took about 4 seconds to load a word and give me a definition which is much faster than thumbing though my constant companion; Webster's New World dictionary.

Let's get into what this program can do for you. While in your favorite wordprocessor, just place the cursor on any word, invoke the dictionary hot keys and up comes the word along with a very complete definition, examples, pronunciation and etymology. And you ask what is etymology? After using the Webster's Electronic Dictionary I found the definition as follows: "the history of a particular word or element of a word." This is followed by several other definitions, a list of derived adverbs, adjectives, etc. and the history of the word (etymology). And let's not forget the pronunciation along with all the diacritical marks for speaking the "Kings" English. Should you not understand a word in the definition, place your cursor on that word, hit F2 and that word too will

be defined. You can easily jump to the thesaurus with the F3 key. If you want to change a word in your wordprocessor, use the cut and paste feature in Webster's dictionary, cutting from the dictionary and pasting directly into your wordprocessor.

During all this time you are jumping from one word to another or defining a word, a history is being kept. Just use the arrow keys or your mouse to bring down the history window and all the words you have worked with in the current session are seen. This is nice for review should you need to go back to a word you previously looked up.

Webster's Electronic also has a powerful search routine. Again another drop-down window allows you to use your dictionary in reverse (called reverse dictionary). You give the definition as a series of words, Webster will search the definitions and give you the words. This process can be slow. I searched for the words best describing "male horse" by asking for "male" AND "horse". The search took a good 6 to 7 minutes and came up with cob, colt, gelding, get, ginny, horse, mule, and stallion. Since the search is in alphabetical order you can see about how far you are along by what word is added to the que. You can also search with the OR, NOT and () parameters to widen or narrow the search. If you are not sure of the spelling of a word, you can use the asterisk to represent from 1 to 30 letters or a multiple of question marks, each representing one space. For all you DOS fans, it's just like using wildcards in filenames. Lastly under the Search window, you can look up ANAGRAMS which are by definition: an.a.gram n. a word, phrase, or sentence formed from another by rearranging its letters: "Angel" is an anagram of "glean". Never again do you need to lose in Scrabble, just excuse yourself periodically and head for the computer.

There is one other window which lets the user choose colors, and turn

RESEARCHING SLO Bytes NEWSLETTERS

By Jim Bigelow
SLO Bytes PCUG

A wealth of resources, instructions and information called data, is stored in computers or on disks. SLO Bytes PCUG has its own data and a considerable amount of it, at that. I am making reference here to reviews, evaluations, news items and computer related articles that you will find right here at home in your newsletter. I know you don't have a stack of the past issues, and they aren't available as such, because we don't store data in such a manner these days. (SLO Bytes PCUG is not entirely a "paperless ship" . . ., but largely so.) (At Comdex we were told of an aircraft carrier that carries 40 tons of paper, manuals, instructions, documents, etc. and that conversion to computer storage devices is being processed as quickly as possible to bring into being a "paperless ship.")

I have two questions.

Do you know that all issues of SLO Bytes Hard Copy are available to you on disks? Do you know what information is contained in past issues that can benefit you?

You will find the disks in our library in a small-size file cabinet that is reserved for SLO Bytes' special disks, such as Membership, New User's Manual, File Locator, etc. The newsletters begin in the year 1985 and go to the present month. And they are updated monthly.

Each issue of Hard Copy is in a separate zipped file. The zipped files do not contain each newsletter in its entirety, but are a selection of the prime articles such as reviews, evaluations, news articles and club information. Also, the files do not contain the form of the newsletter, but the contents used to put the newsletter together.

By typing "type readme.1st," at the DOS prompt, you will receive instructions on how to use the program. [The file designation is "NL" followed by the month and year the newsletter was published. To print a newsletter from the DOS command line, use the following copy routine: COPY NL09.86 PRN (copies September '86 to printer)]. You also can view these files by importing them to your wordprocessor.

Bob Ward has taken time to enter the newsletters as a database into PC-FILE+. For instance, on each disk, under the subdirectory "AR-TICLES" you will find a readme.1st file, followed by three files named, ARTICLES.-DTA, ARTICLES.HRD, and ARTICLES.INX. The README.1ST fil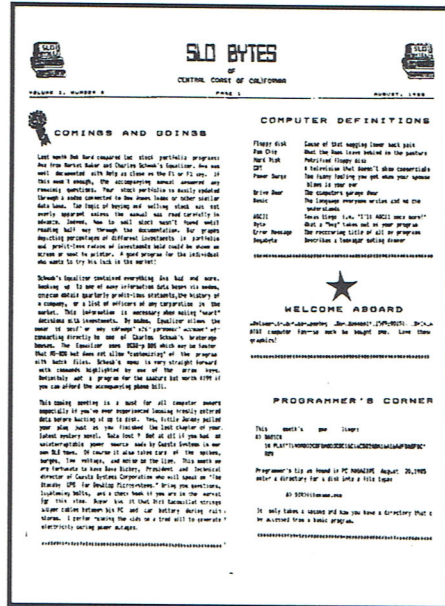e gives instructions for using the database. That is, you are to copy these files into PC-FILE, which is a database program. (If you do not have PC-FILE you will find it in our library as disks number 301, 302, 303. Make a copy and install it on your hard drive.)

Upon running PC-File you will find these newsletters are organized by date of issue, author, title, publication, and date of the article. This setup allows you to search and find any article listed under these headings. The database is sorted by the "newsletter issue dates," but you can resort these files under the four other headings. This assortment will allow you to group the contents and view them in a different manner.

For instance, sorting by author reveals the names of the contributors in alphabetical order. A study I made revealed the first contributors of Hard Copy to be Bob Ward, George Campbell, French Morgan, Larrie Ciano, Darrell Bennett, and others who joined in soon after, such as Dick Trueman, Leon Dormat, Gus Thomasson and Teri Sorgatz.

Also, I found that Bob Ward has authored 38 articles, such as reviews and news items, as well as editing and publishing the newsletter from its beginning in August, 1985, until September, 1990. Bob's "authored 38," does not include an editorial for each issue and the many other items and updates required for the newsletter.

Next Month:

The History of SLO Bytes PCUG

A PREVIEW of Historical Events Found in SLO Bytes HARD COPY

A review of the newsletter files "the hard copies" that are not on disk, reveals that the first publications were not newsletters, but flyers. The first one is titled, "MEMORAN-DUM" and advertises, "IBM-PC USERS GROUP MEETING, Thursday, February 9, 1984. The group was founded by Richard Racouillat, an attorney, who xx xx xxxxx xxx xxxxx . . .. . Con't. next month.

- 512K or more free internal memory (RAM)

- Monochrome or color monitor with adapter; to display graphics you need a CGA, EGA, VGA or Hercules graphics card

INSTALLATION

Paradox SE requires at least 4Mb of space on your harddisk. After installation, SE will take up 2Mb. Installation must be performed using the instructions provided in the Getting Started Guide. The guide strongly emphasizes that the installation procedures described in the appendix of The ABC's of Paradox on pages 316-317 are not to be used.

Installation was simple. Insert the Install Disk 1 in the floppy drive and enter Install at the floppy drive's prompt. On screen instructions guide you through the remainder of the procedure. The installation procedure took less than five minutes.

OPERATION

Paradox SE is a menu-driven database. The menu commands are displayed across the top of the screen. A brief description of the highlighted command appears below the command line. The selection is made by moving the cursor to the desired command and pressing enter.

The installation procedure copies sample database files to the subdirectory "d:\PDOXSE\SAMPLE" (where d: is the drive designated during the installation procedure). However, for the user who is not well versed in DOS, this is not readily apparent. Nor does the Getting Started Guide or The ABC's of Paradox point this out. Paradox will allow the user to change subdirectories by first selecting TOOLS from the Main Menu, then selecting MORE, then selecting DIRECTORY. To use the SAMPLE subdirectory, simply type SAMPLE into the highlighted command line. Unfortunately for the beginning user, this is not discussed either.

Chapter 2 of The ABC's of Paradox directs the user to "get into the directory you want to work in." The brief discussion that follows this statement leads the user to believe that a subdirectory named LEARNPAR contains files that will be used in conjunction with the book. The user is also directed to type the command PARADOX3 from this subdirectory to begin Paradox. Unless you have placed the PDOXSE directory in the PATH statement in the AUTOEXEC.BAT file, this will only result in a "Bad command or file name" error.

To use Paradox SE, you must be in the directory that contains the file PARADOX3.EXE. Enter Paradox3 at the DOS prompt. After the Paradox menu appears, select the desired directory using the TOOLS menu command mentioned earlier.

Once you get beyond these obstacles, you will discover that Paradox SE is a very friendly product. With a few simple keystrokes, you can view the information in the data tables, ask the program to find specific information, print reports, create new data tables, modify the structure and data in existing tables, and perform many other useful functions. Since Paradox SE is a relational database, you can create many different data tables and link them together by using key fields.

Help is very easy to find in SE. Help can be selected from the Main Menu or can be called up by simply pressing the F1 key. The Help feature contains a sub-menu that allows the user to select general topics as well as an index for selecting specific items.

Conclusion

After using Rbase for DOS and Dbase III for several years, I found Paradox SE extremely simple to use. The menu interface is responsible for this.

I have reservations about Borland using a third party document as a reference for its products. Especially

when the book was written for a different version of the software. This tells me that Borland's philosophy for the home/small business user is to simply down-grade the features of a product developed for big business and ignore the responsibility of explaining the differences between the two products. (Did you happen to notice that the command to start Paradox SE is PARADOX3?)

Paradox SE, Ver 1.0
Borland International, Inc.

John Ewing, prior editor of **HARD COPY**, continues to contribute articles and reviews. Thank you John for **Paradox SE**. (Other writers may consider John's **"Paradox"** as an example for their own reviews.)

Webster's Electronic

on or off either the pronunciation, etymology, or case sensitive status.

Webester's Electronic has other features that go beyond the normal dictionary. It incorporates a large number of slang words. For instance, when your kids come home with "dweeb", "nerd", "geek" or "grody", Websters will find them all. Also for the computer fans, you can look up neural network, LAN, RAM, DOS, floppy disk and disk drive to name a few. The dictionary even contains what it calls vulgar words... need I say more #$%!@&*%#$!@.

Websters has an 11,000 word database of proper nouns. It gives spellings, locations, dates, nationalities and occupations of well known people. Napoleon Bonaparte was the "little corporal" 1769-1821, born in Corsica, emperor of France from 1804-1815. It didn't go so far as to tell what he was doing with his hand inside his shirt when posing. Again for you computer people, Silicon Valley made the list.

SLO Bytes Library

Here comes another month already and some more shareware programs to fill up those hard disks. Try one of these at the next meeting.

#59 - PAGANTIZU - part 1, Romancing the Rose by Apogee. A Great program with good animation, color and adventure.

#467 Games by Apogee: **#1DARK** - Dark Ages, Volume 1, Prince of Destiny. **#1JMAN** - Jumpman Lives - He jumps over ladders to survive the evil things below.

#468 Math and Calculators: **CALC-TSR** - Here's a TSR calculator, with deg/rad for trig, etc. **CALC_V22** - "Infinate" precision calculator. **CONVERTS** - converts inches, feet, yards **acres, miles, area & volume. CONVPROG** - Units conversion, U.S., Metric, Imperial. **UNITS41** - units conversion generator.

#469 AM68 - ArcMaster 6.8. Convert between different archive types. Squeeze & unsqueeze. **ZZAP56A** - converts ZIP, ZOO, ARC, & PAK.

#470 DJFONT - convert LaserJet fonts to Deskjet fonts. **DJLL** - Print landscape with a deskjet. **CVT-101** - convert between many archive types. **VED207** - a great little editor with mouse support and drop down windows. **SEE** - Views just about any archive ever made and shows files located within, squeezed and unsqueezed size, etc.

Updates:

#419 SCANV85, VSHLD85 & CLEAN85

#418 NETSCN85

#340 PDEL33 to **PDEL43**

#405 SYSID43 to **SYSID602**

###

The Sines of the Zerodiac Your Technical Horoscope

By Al Gorithm

Reproduced by permission of the author... The infamous Saint $ilicon*

January 20 to February 18
Sign = Asynchronos

You are Asynchronos, which means you are often unORthodox. Your standards are unique, ahead of their time and may not always be readily accepted by others. Sincere and honest, you do not like half-duplex or twisted-pairs. Strong in your own likes and dislikes, you will often cling to the opinions of others once they are formatted. Your ideas are radical but honest.

Happy Birthday to the February babies of a few years ago:

James Allen 02/15
David Brown 02/26
Jim Chernoff 02/04

Joseph Cohen 02/09
Charles Currey 02/24
David Eisen 02/21
Marsh Guerra 02/20
Judith Jewart 02/14
Michael McGee 02/02
Bernice Meador 02/12
Ray Miklas 02/18
Bonnie Morrison 02/09
William Palmerston 02/13
Virginia Sawyer 02/26
Jeff Simmons 02/24
Robert Valpey 02/18
Cleone Van Westen 02/24

* ASCIIstrology comes from Jeffrey Armstrong's book, The Binary Bible, King Job's Perversion. If you want over 200 pages of laughter, all computer related, this book may be purchased for $16.95 (includes shipping).

Saint $ilicon
1803 Mission Street., #174
Santa Cruz, CA 95060
(408)458-0213

Calendar

F E B   **2nd**

February 2nd   Borland International with John Montague will demonstrate Paradox for Windows.

March 1st   Instant Office by David Dilworth

April 5th   XTree - tentative.

Bits
n'
Bytes

- Sam has asked us to remind those of you using the library. Please consider others waiting in line when you sit down to copy disks. Copy no more than 10 disks at any one sitting. Also don't tie up 10 disks by taking all of them to your seat. Take a couple at a time. If you are copying the disks added to our library for this month, remember they may be purchased for 90 cents from Bernice next to the museum.

- Don't forget the writers workshop planned for the 4th Thursday of each month through April. Call Jim Bigelow @ 238-6335 for details.

- For those of you who haven't called the BBS in awhile, the location and number has been changed. The new number is 528-6172. We're still open 24 hours a day. Bob Ward and George Campbell are co-Sysops. We have added a new bulletin that is updated monthly. Bulletin 9 is special events. This will list activities for the next meeting and other computer related events such as Computer Shows in the San Francisco Bay area.

- Speaking of the BBS, we have ordered a new 200 megabyte hard disk. This added capacity should last us for awhile anyway. We hope to fill it up with quality shareware. As a sidenote, when logging off the BBS, please do not DROP CARRIER as a means of leaving the BBS. That means turning off your modem or exiting your communications software without doing a (G)oodbye from the BBS. Occassionally this can cause the BBS to "hang". It must be reset manually before it is operational again.

- We are thinking of starting a "neophyte" SIG. This would be given by Bob Hunt and would be only for those JUST STARTING WITH COMPUTERS. If you know little more than how to turn on the computer, this might be for you. The new members manual will be the text. It will be a 3 month "course" where Bob will go over the basic DOS commands found in the manual and how to set-up and organize your hard disk. Let me remind you this is **NOT** for the majority of the members in SLO Bytes.

Webster's Electronic

I did find one fault with the program. Each time it loads it creates an 80K file to hold the foreground kernel. I gleaned this not from the 48 page user guide but from a "readme" statement in the dictionary subdirectory. Using the "DS" switch you can place that file in any subdirectory of your choice including a RAM drive. I could never get this switch to work. If you leave the program resident when you turn off the computer, the file remains and the next time you start the dictionary, you add another 80K file to your subdirectory. The only way I found of removing the foreground kernel was to leave the program with the EDT /r command which removes it from memory. It appears that the kernel is created in what ever directory you are in when you load the program. If you have set up a path to the dictionary, you could scatter magabytes of foreground kernels all over the hard disk depending from where you started the program.

One other feature I would like to see would be a print option. The only way to print out a definition is with a screen dump to the printer.

Except for these minor points, this is a program that will stand out ahead of its competitors for some time. If you need a comprehensive dictionary and have the hard disk space in which to store it, this one is for you.

———————

Reference Software International
330 Townsend Street, Suite 119
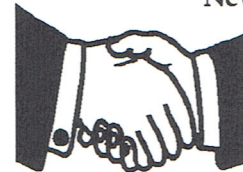San Francisco, Ca. 94107
(415) 541-0222

SLO Bytes'
BBS
New Phone
Number
528-6172

New Members

Welcome to those who joined us this past month.

Bonnie Anderson	545-9376
Eric Braun	543-0222
Glenn Britton	544-8822
Ed Faeth	238-1295
John Read	489-3128
D.T. Richmond	
Nathaniel Wood	927-3759
Marvin Baxendale	481-8392
Ed Cahill	238-7843

Surviving Those Winter Meetings

By Bob Ward
SLO Bytes PCUG

Winter is upon us, need we be reminded when attending the SLO Bytes meetings. In the interest of conservation and saving money, the buildings are unheated during the weekends. By Sunday afternoon, Fisher Hall has had at least 40 hours to adsorb all that winter chill and store it in its concrete walls. Here is a survival guide for attending Winter SLO Bytes' meetings.

1. Park at least 1/2 mile from the meeting site. Walk briskly to Fisher 286. It helps if you are 10 minutes late, although you probably won't miss too much anyway.

2. Start by performing jumping jacks or running in place. Please do these exercises outside the meeting room as flying arms might injure the person sitting next to you.

3. Wear two pair of "long johns". (Ladies, don't wear these under your dress, as they may clash with the rest of your clothes) If you get too hot, the restrooms are down the hall to the right for a quick change.

4. A hat is a must. If your dues have not been paid up, wear a ski mask, especially when trying to use the library. Sam won't recognize you that way and you can save a couple bucks by not renewing your membership. If you are from Texas or want people to think you are, a cowboy hat is OK, but sit along the side or in the back row if your head size is larger than 7. If you're the editor, a top hat is OK too.

5. Wear a good, heavy pair of ear muffs. This serves 3 purposes; it might keep your ears warm, they are great if you don't want to hear the speaker at the front of the room, and you won't hear the person next to you snoring! If you are really cool, you can slip a Sony Walkman under the muffs and turn the volume way up.

6. Gloves are a must; one for your right hand, one for your left. This keeps your hands warm and makes a great excuse when you hit the wrong key while trying to copy shareware disks in the library.

7. A long heavy scarf, oh boy! Wrap it tightly around your neck. That way the person behind you won't see the ring around your collar. Make it white if you have a dandruff problems.

8. Wear an extra large pair of shoes. Boil a couple of stones in water for about an hour and place them inside the toe of your shoes just before the meeting. Avoid climbing stairs or swimming if the stones are large and heavy.

9. Bring 4 baggies. Place one in each pocket, add hot water or coffee and tie the top of the bags securely. If you are going to sit during the meeting, remove the baggies in the back pockets and place them under your arms.

10. If you are a avid football fan and have a stadium blanket bring it for your lap. It will keep you warm and help catch the cookie crumbs.

11. Sit close to the projection monitor. Although it doesn't provide a lot of heat, it's better than nothing. Any hot air coming from the officers at the front of the room may also help your chill.

12. Avoid sitting next to an open door. Sit in the middle of the room where many others will surround you. Also sit straight up in your seat (no slouching) as heat rises. At least the top of your head may be warm.

May I remind you, alcoholic beverages are not allowed on campus, so please keep your flasks at home. Scientific studies show that alcohol really doesn't heat the body anyway. Besides, we do not provide designated drivers. If you have seen our computer abilities, you know our driving abilities are even worse.

If you are still cold, I suggest you stay home, turn the heat up and take a warm bath or shower followed by a meal spiced with chili powder.

Congratulations George & Kathy

SLO Bytes members wish you many happy years together.

Writers' Workshop

A series of three writers' workshops are scheduled for members of SLO Bytes PCUG.

Some members have expressed a need for a workshop that will help them to learn to write articles that are computer-related.

Without question, members have in the least, some experience in writing and have some knowledge of computers. But when asked to write articles for their newsletter, HARD COPY, they express a feeling that such articles are above them. Members of SLO Bytes are educated, tatented, and skilled. Many are retired from professional services and have tremendous talents they could lend to the services of their group.

Anyone who has a pencil and paper and a computer or is interested in computers can write.

And that is what this workshop is about: helping members in the gathering of ideas for articles and organizing them into publishable items.

Members will work together in a group oriented enviornment, with the assistance of a group leader.

Do not fear, there are many kinds of articles and many approches and ways of writing them. One can write simple articles or complex ones, which become projects. We will start with the simple ones.

Your editor, Jim Bigelow, will host the three consecutive workshops. The first workshop will be for gathering ideas and getting started in writing. The second and third will be followups designed to help in the development of the ideas into publishable articles.

Group members will get a chance to review their articles in the group. So come prepared for evaluations, critiqueings, suggestions, ideas and assistance.

It is vitally important that members attend the first workshop, for to miss it will be to miss the flavor of the entire workshop series. All three workshops are designed to work together as one complete extended workshop.

All members are welcome, those who are unskilled and those who are professionals. All can benefit by sharing with each other.

Steve Verreras will bring a big coffee pot and the coffee. Cookie donations are acceptable.
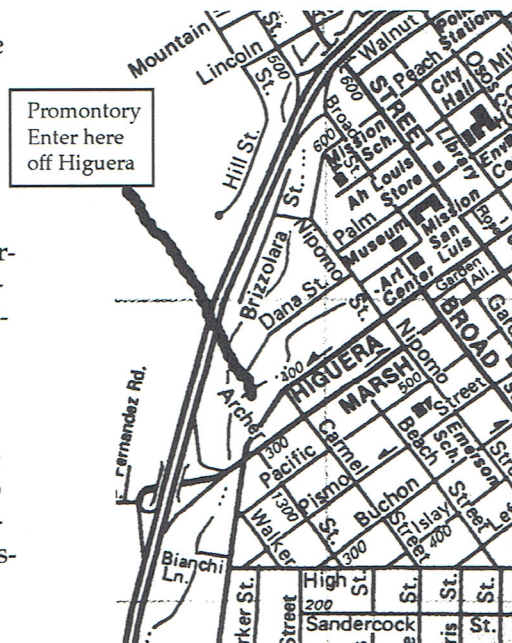

MEETING SCHEDULE

All meetings will convene at the Promontory, 406 Higuera Street, San Luis Obispo, on the 4th Thursday of each month.

Dates:

> January 23, 1992.
> February 27, 1992
> March 26, 1992

Time: 6:30pm to 9:00pm.

Promontory Enter here off Higuera

January

3.3 is history. Buy a new high resolution, 256 color monitor, 640 * 480.

When installing Windows start with a clean autoexec.bat and config.sys. Enter files equals 60 and buffers equals 20, and your necessary drivers. Do hot use "load hi's." Let Windows install itself into its own directory on a partition that is clean and has plenty of free space. Then install your programs, such as, WordPerfect. Each time you install a program make a copy of the "ini" and "grp" files, and autoexec and config files on a floppy disk. This, in case of problems.

As to your hard drive, keep C drive clear. Install Windows to D drive; the "swap" and "tmp" files to E drive, (not a ram disk), which needs 12mb's. Windows needs 23mb's of operating space. It creates virtual memory on the hard disk.

TSR's like AFTER DARK will slow windows 15 to 20%.

Know your computer, learn to optimize it. Use DYNABOOT. Don't use CHECKDISK (CHKDSK) or disk optimizers inside Windows. Use the " /ne" switch on WordPerfect to keep it from locking up.

George closed the meeting.

Bob reopened it and wheeled in a large wedding cake to celebrate George and Kathy's recent marriage. It was a proper way to refresh during the break.

Bob announced that the bulletin board has been moved and the new number is **528-6172.**

Marty U'ren demonstrated the Laser Master line of printers. He informed us of printer software and printouts. And how the Laser Master gets 1000 * 1000 dpi. The printer's controller causes the laser beam to take smaller steps across the printing drum; it changes the postion and heights of the dots creating fractional-size dots.. Marty also explained the inner workings of a laser printer.
Thanks, Marty for the demo.

Club Information

The SLO BYTES Newsletter is a monthly publication of SLO BYTES PC User's Group located in San Luis Obispo, California. Information in this Newsletter is derived from both our own membership and other PC User Group Newsletters. The purpose of this publication is to inform our members of meetings and provide information related to the use of IBM PC's and compatible computers.

Membership: Dues are $20 per year. Newsletter only is $12 per year. Full membership entitles you to our monthly newsletter, full use of the public domain software library and discounts at local computer stores.

Article Submission: Deadline for submission of articles is the 15th of each month. Articles should be provided in ASCII format without any type of formatting from your wordprocessor including tabs, indents, extra spaces, or highlighting. We prefer articles on disk but will accept hardcopies if necessary.

Disclaimer: Neither SLO BYTES PC User's Group, its officers, editor, or contributors to this newsletter assume liability for damages arising out of this publication of any article, including but not limited to the listing of programming code, batch files and other helpful hints.

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Meeting Times

General meetings are held the 1st Sunday of every month, unless noted otherwise in the newsletter calendar, at 2:30 pm in the Cal Poly University Biology Department, Fisher Hall 286. Special Interest Groups (SIGS) meet at 1:30 - 2:15 pm.

New User's SIG - F.H. 286

Our Public Domain Library is in Fisher Hall 292. Hours 12 Noon till closing.

SLO BYTES BULLETIN BOARD

(805) 528-6172/2400/8/N/1

PC Files & Message Section

SYSOPS:
Bob Ward
George Campbell

All Welcome - 24 Hours

Treasurer's Report

**SLO Bytes PCUG
Expenditures January, 1991**

Beginning Balance:	+ 2250.14
Expenses:	
Newsletter 12/16/91	- 105.75
APCUG membership dues	- 25.00
BBS Line conditioner	- 159.24
	=====
	- 289.99
Deposit 01/06/92	+ 577.50
Balance 01/06/92	+ 2537.65

DISCOUNTS

Star Computers 855 Morro Bay Blvd. Morro Bay 772-7827	5% 10%	Any software in stock. Paper, ribbons, cables, and other supplies.
Computer Logic 973 Foothill Blvd. #4 San Luis Obispo 544-8347	10%	Off list - all computers, software, computer peripherals, and products. Contact Bruce, Paul or Dave for discount.
WITCO Computers 3563 Sueldo, Bld. B San Luis Obsipo 549-0811	$100 10%	Off regular prices on Whitaker computers Off service Meet nearly any advertised price on same or similar computers. Bring ad to store.
Los Cerros Computers 466-4402	15% 20%	Above cost on computers and computer peripherals. Above cost on software & supplies (Cost includes shipping & handling)
Computerland of San Luis Obispo 1422 Monterey St. San Luis Obispo, Ca. 93401 541-4884	15% 10%	Above cost on all regularly priced computers, software, computer peripherals, and products. Contact Marilyn for discount. Off service labor

To receive any of the above discounts you must show your current SLO Bytes Membership Card

Ziff-Davis User Group Magazine Discounts

PC-Magazine - $24.97
PC-Computing - $14.97
Have your mailing label handy for renewals
Call 1-800-777-2547 and ask for your
user group discount