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<http://www.dacs.org>

State of the Net 99

Internet visionary John Patrick scopes out the future

THE DANBURY AREA Computer Society will again this year welcome John Patrick, Vice President of Internet Technology for IBM. Mr. Patrick is the ultimate expert in the fast-growing Internet arena. DACS' own chairman, Wally David, called him an "Internet



www.ibm.com/patrick

Evangelist" in his meeting review last November, and if Mr. Patrick's presentations for us over the past few years are any indication, you won't want to miss this one. Come early to the Danbury Hospital auditorium and secure a seat—John Patrick addresses are always well attended.

As IBM's chief Internet technology officer, John Patrick leads the company's effort to create innovative technologies that will Web-enable computer users worldwide. He will apprise DACS members on what to expect on the Internet in the near future. Patrick, who represents IBM internationally, shares his observations and insights with people around the world, inspiring new product ideas, new appli-

cations, and innovative ways to use the Internet to help people meet their goals. He is quoted frequently in the global media and speaks at dozens of conferences every year, delivering relevant, cutting-edge remarks.

With IBM for more than 31 years, John Patrick spent the first half of his career in various sales, marketing, and management positions. He was a pioneer and developer of IBM's leasing business at IBM Credit Corporation, today the largest computer leasing company in the world. Subsequently he became chief financial officer of various IBM business units and then vice president of operations for IBM's Computer Integrated Manufacturing business. In 1992, John became vice president of marketing for Personal Systems and was responsible for creating the successful ThinkPad brand.

DACS general meetings, held on the first Tuesday of the month at the Danbury Hospital auditorium, 24 Hospital Avenue, are free to the public. The meeting starts at 6:30 p.m. with casual networking. At 7 p.m. join Random Access, a short question-and-answer session during which members share computer problems. A brief business meeting and the main presentation at 8 p.m. follow this. As a DACS member you receive the monthly award-winning newsletter, *dacs.doc*. Go to <http://www.dacs.org> for more information about DACS and its SIGs (Special Interest Groups), which meet throughout the month to discuss specific computer topics.

Meeting Review

Goodies for the Holidays

Microsoft software gems to ballast your Christmas tree

By Jack Corcoran

THE NOVEMBER DACS general meeting featured seven Microsoft financial, graphics, and gaming products, all in the \$30 to \$100 price bracket and all suitable for placing under your Christmas tree.

From the Helpful Holiday Hints department: (1) Print out the first page of the November General Meeting Preview from the DACS Website, where all these products are listed; (2) select and highlight the ones you want; (3) leave the page pinned to your kitchen bulletin board.

Our presenter was Brett Davis, Channel Marketing Rep for Microsoft in the NY/NJ area. "Channel" means retail channel, FYI. (MS delights in innovative titles.)

Brett is the quintessential Microsoft representative: young, sharp but laid back, intense but casual, highly intelligent but without pretense, and technically very good. He ran a polished and well-received presentation. Above and beyond the presentation itself, however, I strongly felt that there was something more there, and that it was of major significance.

Review Continued on page 4

President's File

It may seem crazy, but sometimes the best way to sell yourself is not to even try to sell yourself. That seems to be the philosophy of John Patrick, IBM's Vice President of Internet Technology. For the past several years, John has made an annual pilgrimage to DACS to tell us how it is, not how he or his company thinks it ought to be, and judging by the record attendance at his presentations, that's just fine with us.

The medium is the message

Back in the Sixties, media guru Marshall McLuhan coined the term "the medium is the message" to show how succeeding generations come to be dominated by the ways information and ideas are transmitted. In contrast to the "hot" medium of sound, which comes fully packaged and requires little of its listeners, McLuhan saw television as a low definition or "cool" medium, with which viewers had to interact in order to complete and customize the image they were seeing on the screen. The "global village" he saw forming out of that imperfect image on the tube bore little resemblance to the global megalopolis that has emerged from the Internet. McLuhan died just as the PC revolution was in childbirth, so the precise meaning of the revolution it spawned is left up to the new media gurus, like John Patrick.

If you want to interact with John's cool insights on Internet technology, visit his Web page at www.adtech.internet.ibm.com/patrick/.

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DACS on the Web

While surfing through John Patrick's page, you might want to visit DACS' own Web site, www.dacs.org. Jeff Setaro, Marlène Gaberel, and the DACS newsletter committee have worked hard to give us a professional Internet presence. You can find the latest announcements and *dacs.doc* articles before they arrive in your mailbox, view our monthly calendar and all the member services we offer, and surf the many cool links to other sites. Each issue of *dacs.doc* is archived on the site in Acrobat format shortly after it goes to press, so if you're missing an issue you can download it.

Want to know how we do it? Come to Jeff's next Web Site Design SIG on the second Wednesday of the month at the DACS Resource Center.

DACS Board Elections

The annual nomination and election of DACS directors is coming up at the December meeting, with about one-half of the board up for reelection. Candidates so far include incumbents Charles Bovaird, Wally David, Dick Gingras and Ed Heere, plus Marlène Gaberel and Gene Minasi. Additional candidates can be nominated from the floor at the meeting.

The current roster of candidates is barely enough to fill the available seats on the board. Is that because we have done such a great job that no one feels they could improve on it? Or, perhaps one naturally concludes that if the president is constantly asking for volunteers, then there must be a catch somewhere. The answer lies somewhere in between. We have been blessed with an activist board who have worked very hard to serve our members and make DACS a success. But at some time we all need a break. That's why it's so important that new people come in to invigorate our ranks and to nudge us in new directions. The rest of us would like nothing better than to sit back and let someone else take the reins. Although having more candidates than seats means someone won't get in, those who show an active interest always get invited to meetings and quickly join the inner circle.

So, when you come to the December meeting, raise your hand and say "I would like to add my name to the list of candidates," I'll be the first to say "I second the nomination."

Membership Information

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DACS, its officers and directors assume no liability for damages arising out of the publication or non-publication of any article, advertisement or any other item in this newsletter.

The editors welcome submissions from *Dacs* members. Contact Frances Owles, at 860-868-0077 (jones@ct1.nai.net) or Allan Ostergren at 860-210-0047 (dacseditor@aol.com).

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Calendar Creator Plus for Windows,
Dacs.doc file transfer security is
provided by Dr. Solomon's Antivirus Toolkit.

Applications & Hardware to enhance
dacs.doc are always welcome.



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Web Site: <http://www.dacs.org>

HelpLine

Volunteers have offered to field member questions by phone. Please limit calls to the hours indicated below. Days means 9 a.m. to 5 p.m.; evening means 6 to 9:30 p.m. Please be considerate of the volunteer you are calling. HelpLine is a free service. If you are asked to pay for help or are solicited for sales, please contact the *dacs.doc* editor; the person requesting payment will be deleted from the listing. Can we add your name to the volunteer listing?

d = day e = evening

Program	Name	Phone #	
Alpha Four	Dick Gingras	(203) 426-0484	(e)
AOL	Marc Cohen	(203) 775-1102	(d e)
APL	Charles Bovaird	(203) 792-7881	(e)
AutoCAD	Peter Hylenski	(203) 797-1042	(e)
C/UNIX/ObjC	Kenneth Lerman	(203) 426-4430	(d e)
C + +	Reg Charney	(914) 833-0762	(d e)
Clipper	Dick Gingras	(203) 426-0484	(e)
COBOL	Charles Godfrey	(203) 775-3543	(e)
Dbase/DOS	Alan Boba	(203) 264-1753	(e)
DOS	John Gallichotte	(203) 426-0394	(e)
Newdeal	Marc Cohen	(203) 775-1102	(d e)
Electronics	Andrew Woodruff	(203) 798-2000	(d e)
Focus	Jim Scheef	(860) 355-0034	(e)
Hardware	John Gallichotte	(203) 426-0394	(e)
Interface -Instrumentation	Andrew Woodruff	(203) 798-2000	(d e)
Internet	Nick Percival	(203) 438-9307	(d)
Lotus 123R5W	Ben Carnevale	(203) 748-1751	(e)
Macintosh OS	Bob Constantine	(203) 730-1634	(d e)
Magic PC	Hira Suri	(203) 748-2473	(d e)
Microsoft Access	Dick Gingras	(203) 426-0484	(e)
Multimedia	Ed Fitzgerald	(203) 222-9253	(d e)
OS/2	Rich Chernock	(203) 270-0224	(e)
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Q&A ver 3/4	Anthony Telesha	(203) 748-4478	(d e)
R:BASE	Jerry Frieárich	(203) 740-7175	(e)
Statistics & Data Analysis	Charles Bovaird	(203) 792-7881	(d e)
Viruses	Jeff Setaro	(203) 748-6748	(d)
Visual Basic	Nick Percival	(203) 438-9307	(d)
HTML/Java	James Costello	(203) 426-0097	(e)
Windows 3.1	Nick Strother	(203) 743-5667	(e)
	Ben Carnevale	(203) 748-1751	(e)
WordPerfect	John Heckman	(203) 831-0442	(e)

Y2K—The Sequel

If you missed the special Y2K conference last month, don't worry. It won't go away that easily. A second conference is being planned for next spring to explore what has been done or still needs to be done to head off this unnatural, if not totally unmitigated, disaster. Ed Heere has promised to return as moderator with another panel of professionals, and will provide a series of short presentations on Y2K at our monthly meetings. We are working on a special Y2K issue of *dacs.doc*, and expect to put a transcript of the November proceedings on the Internet.

—ALLAN OSTERGREN
dacsprez@aol.com

Directors' Notes

The monthly DACS Directors' Meeting was held on November 9, 1998. Present were Messrs. Bovaird, Buoy, Cohen, David, Gingras, Heere, McIntyre, Ostergren and Setaro and Ms. Owles. Chairman Wally David presided. Secretary Larry Buoy kept the records of the meeting. Minutes of the meeting held on October 12, 1998, were approved.

Finance & membership

Treasurer Charlie Bovaird reported combined checking and postal account balances of \$12,901.92 and postage on hand of \$127.28, a total of \$13,029.20.

Elections

Tom McIntyre reviewed the potential candidates for election as directors at the upcoming December general meeting. Known candidates at this time include incumbents Charles Bovaird, Wally David, Dick Gingras and Ed Heere, plus Marlene Gaberel. Further solicitations and/or ratification by those previously contacted are to be made. Also discussed were availability of pictures and short bios of such nominees for publication in the December issue of *dacs.doc*.

System crash

Discussed next was the recent crash of the principal computer at the Resource Center and the subsequent delay of the printing and distribution of the November issue of the newsletter. The suggested cause of the crash was overloading of the C: drive. After considering alternative methods to avoid a further crisis, it was decided to reconfigure the computer with the new hard drive already installed as drive C:\, the original hard drive

Directors Notes Continued on page 11

Review Continued from page 1

Money 99 is a suite for financial planning and investment. The screen displays were too fast and too busy to follow, but Brett conveyed the scope and power of the program. He emphasized the HTML look and the integration with the Web, which can auto-update your portfolio. Just log-on, and your accounts are up to date.

During his push of Money 99, Brett several times mentioned Intuit's Quicken, the current leader in financial packages, but he did so with respect and objectivity. In our current atmosphere of negative campaigning and competition slamming, it was a welcome breath of fresh air. Class act, Brett!

Graphic Studio Home Publishing Suite includes Home Publishing 99 for creating graphics for the Web and presentation packages such as PowerPoint.

Also included in this suite is **Picture It** for photo editing. This program was the least innovative of all those covered. Brett removed scratches from the surface of a scanned photo, which is a common feature for this type of program. Then he showed Picture It's version of morphing, distorting facial features for comic effect, but this feature is a direct rip-off of MetaCreations GOO, which has been around for several years now. He also showed a semi-automatic method of outlining and removing one person from a scanned picture of two people. In Photoshop 5.0 Adobe calls the tool that does this a magnetic lasso. The demo was entertaining, however, and well received by the audience.

PhotoDraw 2000 also does photo editing and graphic composition. It is a new product intended to work with Office 2000. As such, it features the look and feel of MS Office and all the user help anyone out there in Redmond could think of. The outstanding thing about PhotoDraw 2000 is its seamless access via the Web to a vast reservoir of clip art, fonts, and other graphic resources.

Encarta 99 is an upgrade of the classic that now includes extensive linkage to the Web. It automatically updates its material from Web downloads when you log-on. Look Ma, no hands! It also adds more user convenience features and autobuilds bibliographies for report writing.

Winding up the presentation were three products that have to be called games but which are really something much more.

Combat Flight Simulator builds on Microsoft's top-rated Flight Simulator to let the user fight WWII air battles. The

realism is awesome. There was great audience reaction. We could feel the aerobatics, the action, and the scenery. This program is also linked with the Net to support importing any compatible model of a plane or scenery out there. You can customize your war. You can create your fantasy identity. You fight and sometimes loose, but you never get hurt.

Age of Empires is a real-time strategy game that lets you build civilizations by directing military campaigns and economic policies. You watch your civilization rise and fall, and compete with others over the Net. You are omnipotent.

Motocross Madness 3D brought the house down as Brett raced a motorcycle over obstacles and hazards. It makes full use of the latest in fast processors, 3D graphics accelerator cards, and motion controllers. Vicarious kicks.

It was a good meeting-instructive, entertaining, well presented-but this is true of many of our meetings. So why was there something more to this one? It wasn't until later that the message got through to me. I am quite sure that many DACS members saw it immediately, but in my doddering old age it took me a while.

Finally I realized what I saw. Off the shelf, moderately priced packages that deliver the next plateau of computer usage. Here and now, application programs that extend seamlessly into the infinity of the Net and personal participation in a virtual activity.

Now this is a plateau that has long been predicted. It has been exaggerated in Sci-Fi, and prototyped in current interactive games and applications, but when

you actually are there, it takes on an identity of its own.

The MS products we saw are not breakthroughs, of course. But they do make real the things to come. In one way they are actually ahead of the hardware, probably a first in computerdom. The participatory, computer-based environment in which inevitably we will live will come when the information-transfer bandwidths increase substantially and when HDTV is ubiquitous. But right now, these Microsoft products let us taste it. They also clearly show the way that any startups should go.

JACK CORCORAN is an old, retired computer programmer who missed a plateau or two along the way.

DACS New Members

11/01/1998 thru 11/18/1998

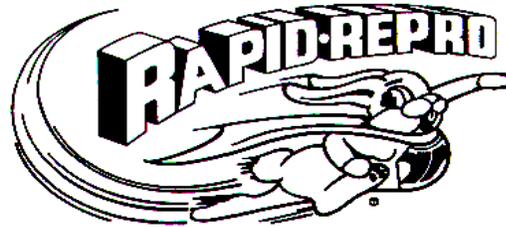
- 1) Jim Corbett
- 2) Thomas W. Derwin
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The best old-time war games ever!

by Joshua and Zachery Gaberel

I do not have the full version but I have a sample I got for free at a DACS meeting

AGE OF THE EMPIRES (Microsoft <http://www.microsoft.com/games/empires>) is a game that takes place sometime B.C around the Mediterranean Sea.

You start in the caveman era and gradually move on to higher civilizations, making cities and large armies. Then you come to the Greek ages and you fight. You have to fight smart, or the land that you built and conquered will be burned to the ground. You can also fight with ships in the Mediterranean Sea.

You can make huts, archery ranges, fishing galleons, and boats and walls to protect your city. You can also lay siege to some of the cities, and then you can get your priest to change the buildings into one of your own buildings: this is cool because you do not have to cut down wood to do it yourself.

You can also start battles with big armies in a pre-made city. These battles are fast moving, and you can lose a large part of your army. But that's okay because you can build a whole new army since a city can supply you with lots of men to serve in it. You can fight, but if you run out of meat to feed your soldiers, you can-

not make any more armies to protect your city. Then the enemy can take over the city and that is the end of your empire.

MOTOCROSS MADNESS (Microsoft, <http://www.microsoft.com/games/motocross>): The best two-wheel game ever.

In this awesome game, you can do tricks and jumps on motorcycles, or just ride as fast as you like. You can pick out different bikes and also repair them after they have been beaten. You can also pick up your own riders and bikes. In this trial version, you can pick two different trails, a quarry trail or just jump in the mountains and desert, and a race trail. The way you win in the race trail is to go as fast as you can without falling down, racing your competitors to the finish line. In the quarry you have to jump and put up your legs or have your arms behind your back and land safely. This is how you get points and win these games. During a fall, the driver falls separately from the motorbike.



MONSTER TRUCK MADNESS2 (Microsoft, <http://www.microsoft.com/games/monster>)

In this impressive game, you can race on paved roads and on dirt roads. You can even pick your own monster trucks, Executioner, Firestone Wilderness, Snake Bite, and the Stinger.

You can race them in snow, sleet, hail, and rain, and when a truck has a problem, you can go to a garage and get it repaired. You can race against other people. This game is action packed.

You can run over cows, utility poles, and fences, which I think makes it the best "crash-into" I have ever played.



JOSHUA and ZACHERY GABEREL are the sons of DACS Assistant Webmaster and publicity director Marlene Gaberel. They wrote these reviews after playing the sample games they received from Microsoft at the last meeting.

Local Area Internet Providers

AT&T WORLDNET	800-967-5363
CLOUD 9	914-682-0384
CONCENTRIC NETWORKS	800-745-2747
C. P. CONNECT	203-734-6600
DELPHI INTERNET	800-695-4005
EARTHLINK	800-395-8425
MAGS-NET	203-207-5695
EROL'S	888-463-7657
GTE INTERNETWORKING	800-927-3000
IBM/ADVANTIS	800-888-4103
INTERNET84	203-830-2122
INTERRAMP/PSI	800-827-7482
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WEBQUILL INT. SVCS	203-750-1000

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Further information?
Call Jim Finch @ 203 790-3654

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Caught in mid-Atlantic at the onset of YIK, Leif Ericsson's crew can't decide whether they are coming or going

Hong Kong Bureau/Telecommunication

Net2Phone

Intercontinental calls without breaking the bank

By Jacqueline Renee Cohen

MOVING 12 time zones away from my friends and family posed a problem for me: How do I keep in touch on a regular basis with those I care about without breaking the bank? In the past, my parents would phone me once month and foot the bill (rates from the USA to places I've grasshoppered to being cheaper than calls in the other direction). But now, thanks to Net2Phone, that is no longer the case.

I first heard about Net2Phone from a friend, also living overseas, who raved to me about cheap calls home over the Internet. At first I was skeptical, but once I made my first Net2Phone Call I was sold.

According to their Web site, Net2Phone "allows users to place domestic and international calls from a personal computer to any telephone in the world." Here's how it works: After you download the free software, you log on to your ISP, click your Net2Phone icon and dial the number of your choice. The phone rings at the party's home or office, and when they pick up you are experiencing Net2Phone.

Of course there is a lot more to it than that, but since I don't know enough about the technical side to discuss it, I'll give you step-by-step instructions on how to set up Net2Phone and a list of its advantages and disadvantages.

System Requirements

- Windows 95, 98 or NT (Mac users have special instructions on their Web site)
- 486 33 PC or higher (Pentium is ideal).
- 8 MB RAM.
- 28.8 modem (It works much better with a faster connection—I use a 56K).
- Internet Connection.
- Sound Card (full duplex).
- Microphone (built-in or external).
- Speakers (headphones are much better).



Go to www.net2phone.com and follow their 1-2-3 instructions. The most recent official version is 8.67, but I have just tested the new BETA version 9.0, which you can download for free from Net2Phone's Web site. The download takes anywhere from 20 to 30 minutes de-

pending on the speed of your modem. Once it is downloaded, it will provide you with very clear instructions on how to set up the program.

When you click on the icon, Net2Phone will come up on your screen. The 8.67 version looks like a traditional office phone,

the BETA 9.0 version looks like a cell phone.

Next you can test the volume and microphone controls and call their free service number to test the set up for free. My experience has been that they pick up almost immediately, or after only a short wait.

To pay for your calls you must click on \$. This forwards you to the Net2Phone Web site, where you pay in advance with a credit card: \$25, \$50, or \$100. If you don't have a credit card, you can choose an alternate payment method.

After you have anted up, you are ready to place a call. The 8.67 version provides you with the option of storing ten phone numbers; the BETA 9.0 version allows 100. Use your mouse to press the keys on your display—just like a real phone. You will then get a screen that tells you how much money you have in your account and how many minutes it will buy you for that specific call. You have 20 seconds to approve the call.

Once the call is approved, you will hear the phone ring until the party picks up. From there it is easy. Talk until you want to disconnect, then press the Hang Up button.

More than 50% of the time the connections are great; around 25% they are just like a real phone conversation, but the other 25% of the time there are fre-

quent disruptions and bad connections. Although BETA version 9.0 was just released, my experience has been that it has tackled many of those bugs effectively and that the future looks bright for Net2Phone—and my relationship with my boyfriend!

Why use Net2Phone and not a real phone? Here are some of the advantages?

- Lower cost. A call to the U.S. (or within it) costs ten cents a minute between 7 p.m. and 7 a.m. EST and 15 cents a minute the other 12 hours. A call to the UK and France is less, at seven cents a minute, Canada is 11 and Hong Kong 32. A full list of rates is available on Net2Phone's Web site.

- Excellent support services.

What are the disadvantages?

- Connection noise. The connection is not always clear. There is often a delay or it sounds broken up. This also happens with other overseas calls, but not as often.

- Risk of ISP disconnects. If your ISP disconnects you, it cuts off your Net2Phone connection as well.

— Sometimes Net2Phone experiences difficulties and the phone call gets interrupted.

Hints:

- Use headphones. Without them the speakers feedback into the microphone, and the other party always hears an echo.

- Explain to the other party how you are calling, due to the delay it is often best to take turns talking.

- I would not recommend Net2Phone for important business calls.

- If the connection gets really bad, hang up and call back.

- Close all other applications including your Internet Browser.

- Check the Net2Phone Web site regularly for updated versions. Net2Phone allows users to "place domestic and international calls from a personal computer to any telephone in the world," according to their Web site. But their innovations did not come out of thin air; there is a history to Internet communications.

JACQUELINE RENEE COHEN is currently teaching English as a Foreign Language at Cognitio College in Hong Kong. Jackie is attempting to integrate Internet technology into her lessons. Please send your comments to her at JAQATAC@iname.com. Watch for more news from Hong Kong in the coming issues of *dacs.doc*. A story about the hardware market is forthcoming.

snail mail↔telephone↔fax
 ↔e-mail↔real time chat↔ICQ

↔Internet to Internet telephony↔Net2Phone

E-mail. This came first. It was free, or nearly free, and allowed both parties to communicate on a daily basis, as long as both had computers with Internet access. We used to set up a time when my parents, my sister, and I would be on line at the same time and send and receive messages for an hour. It would take that long to complete a basic conversation.

ICQ. This and other chat rooms came next, making it possible to have real-time communication through a split screen, where each party would type on their half of the screen. Great innovation, but it still takes a long time to type a conversation, and you must both be online.

I-phone. Next there were services that allowed people to speak over the Internet, using their com-

puters like telephones, but again both people had to be connected and online.

Net Phone. In late 1996, IDT Corporation developed Net2Phone, which now has over three-quarters of a million customers around the world and is attracting interest through its recent partnerships with IBM, Microsoft, and 1-800-FLOWERS. The company has been reviewed in Computer Telephony and PC Magazine, and the parent IDT was listed in Forbes magazine.

Companies such as Microsoft (www.microsoft.com) and Netscape (www.netscape.com) have recently begun to provide Internet telephony services for free with products like NetMeeting and Netscape Conference. Both provide real-time chat over the Internet, letting you use your voice or your keyboard to communi-

cate. The major advantage of all of these programs is that they are free. The disadvantage is that both parties must have the software and be online at the same time. The other major disadvantage is that with two computers the chances of difficulties arising are greater-the communication can sound almost as good as one generated on a traditional phone, but at other times it can sound garbled. You can always fall back on the keyboard chat if the voice chat fails, and you can also set up a videocamera, but until modems, phone lines, and computers catch up technologically to the concept of videophones, Internet telephony is not yet capable of providing you with a great experience.

-JRC

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EDE

Special Interest Groups

ACCESS. Designs and implements solutions using Microsoft Access database management software.

Contact: Bruce Preston, 203 431-2920. Meets on 2nd Tuesday at 7p.m. at the DACS Resource Center, Ives Manor (lower level), 198 Main Street, Danbury.

Next meeting: December 8.

ADVANCED OPERATING SYSTEMS. Explores and develops OS/2, BSD UNIX, and NT operating systems.

Contact: Don Pearson, 914 669-9622.

Meets on Wednesday of the week following the general meeting, 7:30 p.m., at Don Pearson's office, North Salem, NY.

Next meeting: December 9.

DESKTOP PUBLISHING. Edits and produces *dacs.doc*. Anyone interested in the art of newsletter publishing is welcome.

Contact: Allan Ostergren (860 210-0047) or Marc Cohen (203 775-1102). Meets on Thursday of the week following the general meeting, 7p.m., at the DACS Resource Center, Ives Manor (lower level), 198 Main Street, Danbury.

Next meeting: Unscheduled.

EDUCATION. Coordinates DACS education classes.

Contact: Charlie Bovaird (203 792-7881). Meets as needed.

INVESTMENT STRATEGIES. Discusses various investment strategies, emphasizing careful selection to maximize profits and limit risk.

Contact: Paul Gehrett (203 426-8436). Meets 3rd Thursday, 7:30 p.m., Edmond Town Hall, Newtown.

Next Meeting: December 17.

GRAPHICS. Create/print high-quality graphics and images.

Contact: Ken Graff (203 775-6667). Meets on last Wednesday, 7p.m., at Best Photo, Brookfield.

Next Meeting: December 30.

INTERNET. Acquaints DACS members with the Internet.

Contact: Larry Stevens (stevens@cwix.com) or Richard Koser (rkoser@worldnet.att.net). Meets on 3rd Wednesday, 7p.m., at the DACS Resource Center, Ives Manor (lower level), 198 Main Street, Danbury.

Next Meeting: December 16.

MACINTOSH. Discusses Macintosh hardware and software.

Contact: Chris Salaz (203 798-6417). Meets on 3rd Tuesday, 7:30 p.m., at the DACS Resource Center, Ives Manor (lower level), 198 Main Street, Danbury.

Next Meeting: December 15.

VISUAL BASIC. Develops Windows apps using Visual Basic.

Contact: Chuck Fizer (203 798-9996) or Jim Scheef, 860 355-8001. Meets on 1st Wednesday, 7p.m., at DACS Resource Center, Ives Manor (lower level), 198 Main Street, Danbury.

Next Meeting: December 2.

VOICE FOR JOANIE. Provides and supports people with Lou Gehrig's disease with special PC computer equipment.

Contact: Shirley Fredlund (860 355-2611) x4517. Meets on last Tuesday, 7:30 p.m., at Datahr, Brookfield.

Next Meeting: December 29.

WALL STREET. Examines Windows stock market software.

Contact: Phil Dilloway (203 367-1202). Meets on last Monday, 7p.m., at the DACS Resource Center, Ives Manor (lower level), 198 Main Street, Danbury.

Next Meeting: December 28.

WEB SITE DESIGN. Designs and maintains *dacs.org*, the DACS Web site.

Contact: Jeff Setaro (203 748-6748). Meets on 2nd Wednesday, 7p.m., at the DACS Resource Center, Ives Manor (lower level), 198 Main Street, Danbury.

Next Meeting: January 13.

WINDOWS. Explores all aspects of Windows 95 and 3.1.

Contact: Ben Carnevale (203 748-1751). Meets on 1st Friday, 7p.m., at the DACS Resource Center, Ives Manor (lower level), 198 Main Street, Danbury.

Next Meeting: December 4.

SIG News & New-to Events

The SIG Notes and Calendar are posted on the DACS Web site at <http://www.dacs.org>. Address comments and suggestions to SIG editor Frances Owles at dacseditor@aol.com or webmaster Jeff Setaro at jasetaro@sprynet.com.

INTERNET SIG As of press time, the Internet SIG planned to present "Internet Portals": Yahoo, Microsoft, Snap, and Netscape at its November 18 meeting, and to discuss plans for future meetings.

WALL STREET

Future meetings will be held at the DACS Resource Center, located at Ives Manor, lower level, 198 Main St., Danbury

WEB SITE DESIGN The Web Site Design SIG is taking a vacation in December, but will resume meeting in mid-January.

WINDOWS

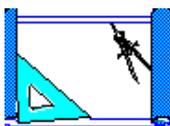
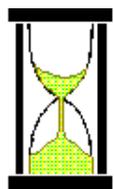
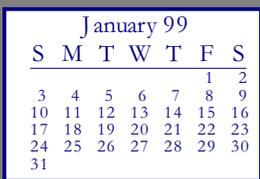
Join this SIG to learn all about Windows 95. Bring your questions and problems. You'll learn faster when you participate in the hands-on projects we set up based on your needs. Call Ben Carnevale at 203 748-1751 or e-mail at FFJM69A@Prodigycom to register before you come.

WALL STREET

Future meetings will be held at the DACS Resource Center, located at Ives Manor, lower level, 198 Main St., Danbury

December 1998

Danbury Area Computer Society

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		<p>1</p>  <p>7:00 PM General Meeting: Danbury Hospital Auditorium</p>	<p>2</p>  <p>7:00 PM Visual Basic: Chuck Fizer 203 798-9996</p>	<p>3</p>	<p>4</p>  <p>7:00 PM Windows Ben Carnevale 203 748-1751</p>	<p>5</p>
<p>6</p>	<p>7</p>  <p>7:30 PM . . . DACS Directors' Meeting</p>	<p>8</p>  <p>7:00 PM . . . Access: Preston 431-2920</p>	<p>9</p>  <p>7:30 PM . . . Advanced OS Don Pearson 914 669-9622</p>	<p>10</p>	<p>11</p>	<p>12</p>  <p>NEWSLETTER DEADLINE</p>
<p>13</p>	<p>14</p>	<p>15</p>  <p>7:30 PM Macintosh: Chris Salaz 203 798-6417</p>	<p>16</p>  <p>7:00 PM Internet: Bruce Koser, L. Stevens 203 426-8436</p>	<p>17</p>  <p>7:30 PM Investment Strategies: Paul Gehrett 203 426-8436</p>	<p>18</p>  <p>SIG NOTES DEADLINE</p>	<p>19</p>
<p>20</p>	<p>21</p>	<p>22</p>	<p>23</p>	<p>24</p>	<p>25</p>  <p>HAPPY HOLIDAYS!</p>	<p>26</p>
<p>27</p>	<p>28</p>  <p>7:00 PM Wall Street Phil Dilloway 203 367-1202</p>	<p>29</p>  <p>7:30 PM Voice for Joanie: Shirley Fredlund 860 355-2611 x4517</p>	<p>30</p>  <p>7:00 PM Graphics: Ken Graff 203 775-6667</p>	<p>31</p>  <p>NEW YEAR'S EVE</p>		

All Grown Up Norton AntiVirus 5.0

By Jeffrey Setaro

NORTON ANTIVIRUS HAS finally come of age. Over the years I have looked at several versions of NAV and have never been particularly impressed. So when the time came to peel the shrink-wrap off version 5.0, I did so with a host of preconceived notions. I expected to find a product with a pretty user interface that provided barely adequate virus detection. What I found instead was a product that maintains its good looks and ease of use while vastly improving virus detection. Surprise!

Norton AntiVirus detected and properly identified 99.9% of the 2,550 viruses in my test collection. It missed only one sample of TMC_Level-69. My test collection was composed of ten specimens of each of the 255 viruses contained on the August 1998 WildList (<http://www.wildlist.org>).

Getting Started

Installation was a breeze. The NAV setup wizard guides you through the process of installing and configuring the program. Personally, I chose to override the default settings and not enable AutoProtect, scheduled scans, or scan at startup (under normal circumstances I would recommend that you keep the default settings).

After rebooting my PC to complete the installation, NAV launched LiveUpdate to download the latest virus definitions and program updates and then prompted me to create a set of rescue disks.

So what is it like to use NAV? In a word—simplicity. All of NAV's functions can be accessed from the easy-to-use interface. From the NAV main window you can access the program's configuration menu, choose what drives or folders to scan, manage quarantined files, or view NAV's list

of virus descriptions.

Choosing the Options button brings up a tabbed dialog where you can change settings for the program's various functions. It is from this dialog that you choose what action Norton AntiVirus should take when it encounters a virus. Personally I'd recommend configuring NAV's background scanner, called AutoProtect, to deny access to any infected files.

Although it is capable of disinfecting most viruses on the fly, the main on-demand scanner provides additional information about the virus involved and allows the user to make a more informed decision about what to do with an infected file.

Once you have configured the program to work the way you want, scanning files is a breeze. Just select drives you want, scan, and click the Scan Now button. Once NAV has completed scanning the selected drives, it will either present you with a summary screen showing the number of files scanned and the elapsed time, or if it finds a virus, its Repair Wizard will guide you through the process of repairing or quarantining infected files. If you've chosen to have the program automatically disinfect infected files, NAV will prepare a report showing the problems detected and the action taken. If NAV was unable to clean the infected file, you can then choose to quarantine or delete it and replace it with a clean copy from a backup.

Probably the most interesting features of Norton AntiVirus 5.0 are its new Quarantine and Scan & Deliver functions.

Essentially it works like this: If NAV

locates a file that it believes is infected with a new virus or that it cannot currently disinfect, you can have it encrypt the file and store it in a special quarantine directory somewhere on your hard drive. Then using the



Quick Facts

Norton AntiVirus 5.0

Symantec Corporation
10201 Torre Avenue
Cupertino, CA 95014
800-441-7234
<http://www.symantec.com>

Quarantine utilities' Scan & Deliver Wizard, you can send the files over the Internet to Symantec's Anti-Virus Research Center (SARC) for analysis. If SARC finds the file you have submitted is, in fact, infected, they will e-mail you a special set of definitions for NAV so you can repair the infected files.

Not Perfect, But Close

While I didn't encounter any major problems with NAV, I did find a few minor ones.

First NAV does not support recursive scanning of archives. Recursive scanning means the contents of an archive (a .ZIP file, for example) are extracted and scanned into memory. For whatever reason, NAV's designers have decided to extract archived files to a temporary directory on the hard drive and scan them there. While this isn't strictly a problem, I would personally prefer not to have potentially infected files written to my hard drive.

Second NAV does not remind you to update your rescue disk set after updating its virus definitions.

Third, and most perplexing, was the problem I encountered with the Scan & Deliver feature. When I tried to use it to submit a sample of the Widomaker.5747 virus to SARC, it would crash. At first I thought that particular specimen was corrupted in some way. But after trying with additional samples of Widomaker and receiving the same result, I was left wondering what was happening. Scan & Deliver worked fine with every other file I'd thrown at it, infected or otherwise.

Bottom Line

Overall, Norton AntiVirus 5.0 provides good protection against the viruses most likely to cause people problems in the real world. Any home or small-office user who is looking for a low cost, easy-to-use anti-virus program would do well to give NAV 5.0 a look. Price: \$49.95 Single User

JEFF SETARO wears multiple DACS caps. He is Webmaster for www.dacs.org, general program director, active board member, and resident viral disinfectant agent. Contact Jeff at jasetaro@sprynet.com.

Directors Notes *Continued from page 3*
as drive D:\ and Windows NT installed as the operating system with password protection.

APCUG Newsletter competition

President Ostergren mentioned that our entries for APCUG's (Association of Personal Computer User Groups) editor's award program for newsletters in connection with the Las Vegas COMDEX show would have to be submitted immediately to the APCUG committee in Las Vegas. Frances Owles was asked to select a few of the past year's newsletters for submission

Community Service

Mr. Ostergren also advised that our Voice for Joanie program had been nominated for another award among nonprofit organizations. The group then discussed sources of used equipment for VFJ, C4K, and other outreach programs in which DACS participates.

Y2K

The videotape of the Y2K program made at the conference held at the Ansell School of Business was unusable for TV broadcast, principally due to time restrictions to prepare for the taping. It was suggested that perhaps a usable "commercial" could be salvaged from it. Also mentioned was the lack of press coverage of the event, despite publicity efforts.

Ancell school synergy

Acting Dean Ron Benson of the Ancell School of Business entered the meeting as a guest to participate in discussions of activities from which our organizations can mutually benefit. Outside of generalizations about student participation in DACS activities, Ed Heere suggested a follow-up Y2K program be held, perhaps in mid-May. Dean Benson suggested that preparation for such a program begin much earlier to gain better cooperation by the School's faculty, staff, and student activity groups.

Also discussed was the possibility of reduced-rate memberships for WCSU students, links between the WCSU and DACS servers, and DACS input to computer-oriented activities sponsored by WCSU if requested by its staff.

Jeff Setaro asked for comments on a suggestion that the Resource Center be open and manned as part of Danbury's First Night celebration on December 31. It was conceded that, logistically, such an effort would be impractical

—Larry Buoy

Habitat for Humanity Needs a Pentium

Your local Habitat for Humanity affiliate needs a computer. Housatonic Habitat for Humanity expects to launch three new homes this winter—two in Sandy Hook and one projected for Danbury. Maintaining our growing database and our financial records is impossible with our current setup: two PCs—a 286 and a 386. We have been promised a new computer by IBM, but to achieve even minimum efficiency in our office, we desperately need another computer to network with it. Would anyone be able to donate a Pentium computer to this hard-working, worthy organization? Please contact Linda Wescott at 203 743-1662 or 203 431-1392.

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Squeeeeeeeeze

Compress your files for speed and space

By Mike Kaltschnee

SOMETIME in your computer experience you'll find yourself looking at a "ZIP" file, or maybe just looking to save some disk space or speed up file transfer. What I'm going to talk about this month is this issue of "zipping," or compressing, files and then "unzipping," or decompressing, them.

Although the price of disk space is cheap, there never seems to be enough. More serious problems lie in the slow transfer speeds of our 28.8 and 56k modems, especially when transferring large files, and in trying to transfer files between

file, you simply use a compression program like PKZIP to make the file smaller. It can be as simple as opening the file and saving it as a ZIP file. The way to tell if a file is compressed is to look for the .ZIP extension. When you compress a file, it is run through a special program that tries to make the file as small as possible. It's sort of like trying to fit as much as you can in your suitcase by sitting on it.

The resulting file is not always smaller, or even significantly reduced in size. This may be caused by the type of file you're trying to compress. It may already be compacted, for instance.

Still, it never hurts to compress a huge file before you e-mail it to a friend so it will transfer and download faster—or do it just to save some space on your hard disk (you can leave the file "archived" until you need it).

To decompress a file, you simply run your compression program and "extract" the file from the ZIP. Some files are

"self-extracting" (these usually have .EXE extensions) and will automatically decompress if you click on them. If you have a compression program on your computer, you can usually open it by clicking on the compressed file in My Computer or Windows Explorer.

Some compression programs allow you to encrypt your data as you compress it, so you don't have to worry about someone intercepting your file while you're sending it over the Internet or reading it on your hard disk while you're not there.

Another great feature of compression programs is their ability to create a compressed file that is "UUEncoded." This means the file is composed of standard text characters so it will transfer over the

Internet and allow other types of computers to read it more easily.

ZIP files can contain more than one file, making it easy to send a large number of files over the Internet simultaneously. This frequently saves me a lot of time because the collection of files is packed as a single one that is usually a lot smaller than the original s when it is compressed.

Macintosh users have their own special compression program called StuffIt. StuffIt was created to compress files on the Macintosh, which has special needs for storing information about a file. It will also read and write ZIP files, so you can use it transfer images and text with your PC friends. Here is a partial list of companies that make compression software:

PKWARE

PKZIP, PKZIP for Windows
<http://www.pkware.com>

Aladdin

StuffIt <http://www.aladdinsys.com>

Mijenix

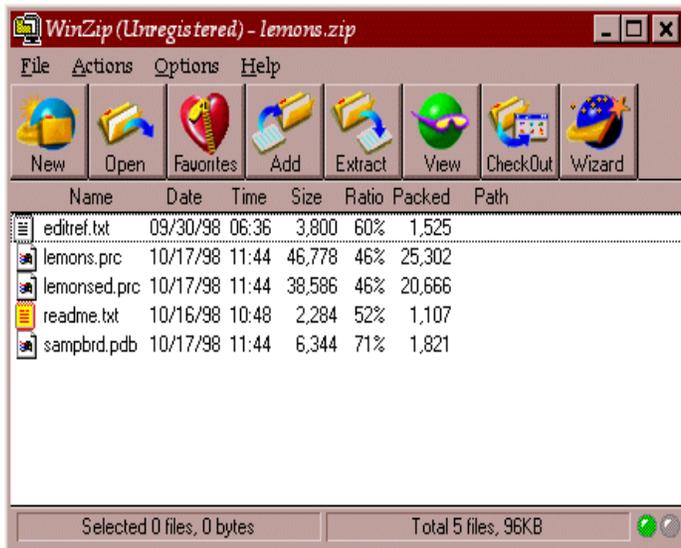
ZipMagic 98 <http://www.mijenix.com>

Niko Mak Computing

WinZip <http://www.winzip.com>

All of the programs listed above allow for a free trial period, so you can download and try them before buying them. I've used all of the programs listed above, and each has it's own special features. I typically use ZIP programs several times a week, for both compressing and decompressing files. Well, that's it for this month. I'm writing this from my hotel room at Comdex in Las Vegas. Comdex is the second-largest computer show in the world, bringing in about 250,000 people for the week-long event. If you visit our Web site at <http://www.dacs.org>, you'll find my exclusively online coverage of the event. Next Month: In-depth coverage of several compression programs, including PKZIP, WinZip, ZipMagic, StuffIt, and more.

MIKE is a founder of DeMorgan Industries Corp., the leading developer of Web graphics (<http://www.webspice.com>), and also teaches Webmaster and Internet marketing classes at the Internet School in Naugatuck Valley Community Technology College. You can reach Mike at: mike@demorgan.com



different types of computers, such as Windows, Macintosh, and Unix machines.

These problems, and many more, were solved in the late 1980s when a small company called PKWare created the ZIP file format. Their program, PKZIP, used a new format that was published as an open specification. Although it wasn't the first program of its type, it shortly became a standard that any developer could use to write a compression program. This solved the issue of creating one format that everyone could use, regardless of platform. ZIP compression and decompression programs are found on almost every type of computer, including Amiga, Windows, OS/2, Macintosh, and even Unix. The process is simple. If you want to compress a

Random Access

Instant replay: November 1998

Bruce Preston, Moderator

Q. A brokerage Website that I use requires 128-bit security. I added it to Internet Explorer 4.0, and now I can't reference some other sites since they don't have the corresponding level of security on their server. What do I do?

A. Within Internet Explorer 4.0 you have the option of specifying the level of security you want to enforce. It is in OPTIONS. Adjust the security level down to match the other sites when you want to work with them, and then adjust it back up when required for the brokerage Website.

Q. I use Boot Manager so I can get to Windows 3.1 and DOS 6.0 or to Windows 95. However, when I run a DOS application and try to use PrintKey, it doesn't work.

A. PrintKey is a Windows application, so it shouldn't cut in if you are in pure DOS. In pure DOS, the PrintScr key dumps directly to the printer. It isn't likely, but take a look at your AUTOEXEC.BAT or CONFIG.SYS file when you boot and see if there are references to PRINTKEY. Highly unlikely, but if so, try commenting it out with a REM<space> at the start of the line.

Q. I have a 200MB hard disk on a 486 and want to upgrade to a 2GB drive. Will I get into trouble if I make the new drive a slave drive and FDISK it, FORMAT it, and then copy everything from the first drive to the second drive? I don't have enough room to put any applications on the current C: drive.

A. That will move data quite nicely, but it won't move the operating system, including the Windows registry. You might be able to do it with PowerQuest's DriveCopy. To make room to install DriveCopy, check to see if you've got any files in \TEMP and \WINDOWS\TEMP.

Q. I have a new machine and found that

the Media Player applet didn't work. I used the "Windows Update" application, which brought down a new version of something, but in doing so it made a mess of my system, including a demand for a reformat, which additionally disabled FAT32.

A. Several people reported problems with Media Player and FAT 32. The consensus: don't use it or upgrade to it.

Q. I would like to use a second hard drive for backing up the data on my primary hard drive(s). My primary hard drives are in "removable hard drive trays." When I change the hard drive, my drive letters for the second hard drive are messed up.

A. Each physical hard disk gets a letter first, then after all of the physical hard drives have been assigned a letter all of the additional partitions on the first hard disk are assigned letters; then all of the additional partitions on the second hard are assigned letters. Then removable media such as CD-ROMs and ZIP drives are assigned letters.

For example, suppose you started with a single hard drive C: with additional partitions of D: and E:, and a CD-ROM known as F:, and a ZIP drive as G:. If you then add a new second drive with two additional partitions on it, you would end up with: C: on first drive, D: on second drive, E: on first drive (old D:), F: on first drive (old E:) then G: and H: on the new drive. Your CD-ROM will now be I:, and the ZIP drive will be J:.

In Windows 9x, you may permanently assign a letter to CD-ROMs and ZIP drives - I would suggest that you use Y: for the CD-ROM and Z: for the ZIP drive. Then, once you install software that expects to find the data on a CD or ZIP drive, if you add additional drive(s) or change the

drive partitions, the CD and ZIP assignments won't change. Lastly, if you have Partition Magic, it has a utility which will go through the Windows 3.x, Windows 9x registry and .INI files and adjust references to drive letters. Suggestion: If you are going to be playing with multiple drives and partitions, place a file in the root of each partition which identifies the drive—for example I have files called DRIVE.ID, which contain text such as "C: Drive 0 Partition 1". That way, if things seem to be mixed up, you will have a file that uniquely identifies the drive.

Q. I run Windows 3.11, and run Netscape Navigator 4.0. When I get to certain Websites, I get a message saying "Starting Java" and then Netscape drops the connection. What do I do to fix it?

A. If you are running the original Navigator 4.0, go get the newest fractional release (thought to be 4.0.7)

Q. I have a DOS application that needs RAM-disk for temporary storage. Where can I get RAM-disk software?

A. RAM-disk is generally not used by today's applications. If you need it to support an old application, see if your version of DOS has the RAMDRIVE driver (.SYS or .DRV). Or find someone who had a add-on memory card such as an AST card or QuadRAM card and see if they can provide a RAM-disk driver.

Q. Does anyone know where I can find a good random generator? The one built into Basic and the common Fortran library routine 'randu' are not nearly random enough.

A. There is a classic book "Numerical Recipes in C: The Art of Scientific Computing," which is in print and available. It is also available on disk, and we are told that portions of it can be found on the Internet. Also, check www.nist.gov, then search for "random number generator". After the meeting I did the search and found 77 references.

BRUCE PRESTON is the president of West Mountain Systems, a consultancy in Ridgefield, CT, specializing in database applications. A DACS director, Bruce also moderates Random Access at general meetings and leads the Access SIG. Send questions to Bruce at askdacs@aol.com.

Candidates



Charlie Bovaird — Danbury (**Incumbent**) — is a consultant and retired IBMer. A long time DACS member a board member for over 4 years and serves as treasurer. He brings to DACS over 40 years of experience with hardware and software. He prepares the monthly *dacs.doc* mailings and has chaired DACS' participation at the PC EXPO. He developed the membership survey, and along with Jim Ragsdale maintains the membership database. He also coordinates the activities of the education committee, scheduling and assigning classes.



Wally David — Danbury (**Incumbent**) — Wally David has been an active member of DACS for nearly 6 years. He is the chairman of the board, as well as the administrator of the DACS email mailing list and a member of the *dacs.doc* Editorial Committee. Wally also is the host of Surfin' Safari, held at the beginning of most DACS General Meetings. Wally is a Deskside Support Engineer for GE Capitol IT Solutions. Wally, the father of two young boys, feels that it is extremely important to attract new members, with a diverse range of computer backgrounds and skills. These new members are what is needed in order insure that DACS remains a viable entity into the next century.



Marlène Gaberel — Marlène Gaberel has been a Sandy Hook resident since 1982 and a DACS member for over five years. She is a frequent contributor to *dacs.doc*. As the DACS officer in charge of public relations, Marlène disseminates information to the media and to anyone else she meets. Marlène shares her computer with sons Joshua, a seventh grader and Zachary, a third grader. When the boys want to play games on the household PC, they both complain that mom "hogs" the computer too much. Marlène lends volunteer computer assistance to the Newtown Middle School and Sandy Hook Elementary School.



Dick Gingras— (**Incumbent**) Sandy Hook — principal of PC Solutions, specializing in database software development, system analysis and process improvement. He has served as DACS president and has been a director for more than 6 years. Has initiated and encouraged programs to improve member benefits through SIGs, BBS, workshops, and special events. Has directed improvements and expansion of *dacs.doc* and sought to involve members as active volunteers in the growth of DACS. An early advocate in establishing the resource center, and a leader in creating greater public awareness of DACS.



Ed Heere — Redding (**Incumbent**) — Is president of AMSYS, Inc. a computer manufacturer and systems marketer in Ridgefield. Ed has served as board Chairman, conducts the hardware SIG, and has often been a program presenter for DACS, and frequently loans equipment and provides guidance in making DACS programs a success He has provided the hardware that serves as the resource center.



Gene Minasi — New Milford — a DACS member for many years. He currently is chairperson of the Training and Education Committee, serves as the liaison for DACS and Danbury Hospital where he holds a position of Security Administrator. His more than 20 years of MIS background includes 14 years in mainframe, and during the past 9 years with PC programming, trouble shooting and training. Current projects cross many different platforms—MVS, DEC/VAX UNIX, NT, VMS, LANs and distributed systems. Gene's exposure to most of today's cutting edge hardware and software benefits the hospital and the members of DACS

Ballot

1. Select five (5) of the candidates for director of the Corporation, as indicated by my check mark:

- | | |
|--|---------------------------------------|
| <input type="checkbox"/> Charlie Bovaird | <input type="checkbox"/> Dick Gingras |
| <input type="checkbox"/> Wally David | <input type="checkbox"/> Ed Heere |
| <input type="checkbox"/> Marlene Gaberel | <input type="checkbox"/> Gene Minasi |

2. Such other business as may properly come before the meeting

____ Yes

____ No

I appoint Larry Buoy, Secretary as my agent to vote in my place and stead at the annual meeting of members on December 1, 1998 as follows:

Signed _____

Dated _____

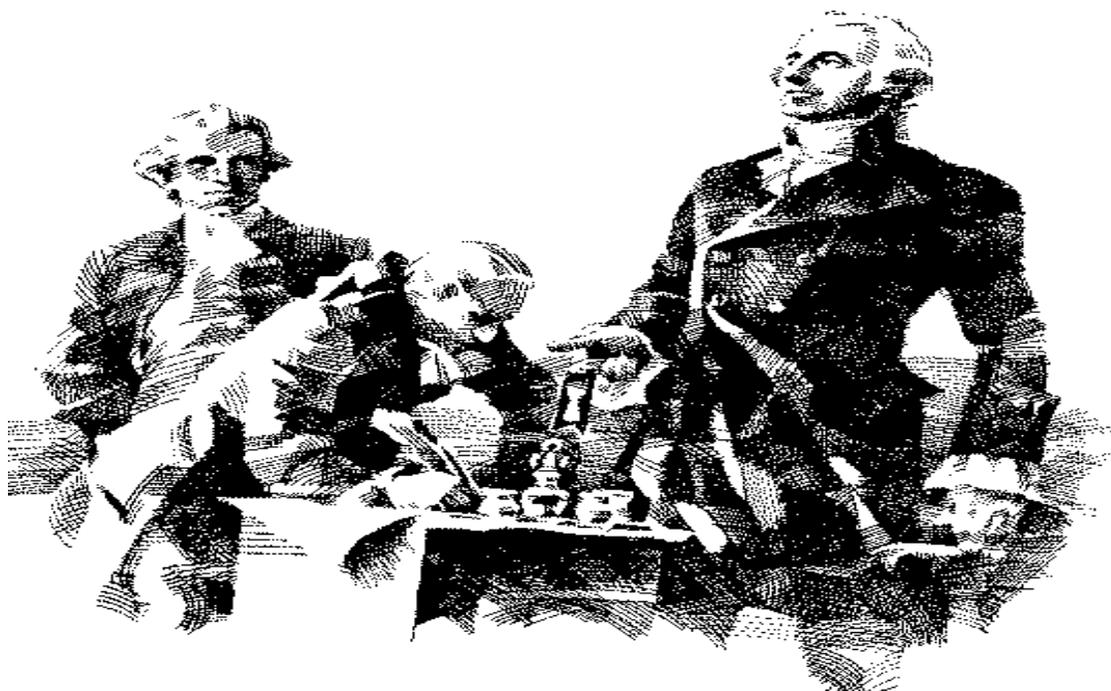
Notice of Annual Meeting

Notice is given that the Annual meeting of members of DACS will be held on Tuesday, December 1, 1998 at 7:30 p.m. in the Danbury Hospital Auditorium, 24 Hospital Avenue, Danbury, Connecticut.

An election of six (6) directors will be held. The meeting is further called for the transaction of such other business as may properly come before the membership.

In the event that a member will not be able to attend, a written proxy may be delivered to the Secretary or to any other officer or director of DACS so that it arrives on or before the Annual Meeting.

Larry Buoy, Secretary



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Future Events

**December 1 • John Patrick (IBM) — State of the Net
January 5 • Alps Electric — Color Printing
February 2 • Clear and Simple Inc. — DiskJockey 98**

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with Pentium II 350Mhz CPU	\$1,299	Upgrade to 128MB 100Mhz SDRAM	\$225
with Pentium II 400Mhz CPU	\$1,399	Upgrade to 160MB 100Mhz SDRAM	\$299
with Pentium II 450Mhz CPU	\$1,649	Upgrade to 192MB 100Mhz SDRAM	\$375
		Upgrade to 256MB 100Mhz SDRAM	\$499
		Upgrade from 4.3GB to 6.4GB HDD	\$50
		Upgrade from 4.3GB to 8.4GB HDD	\$99
		Upgrade from 4.3GB to 11.5GB HDD	\$199
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