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# The LIMac



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LIMac was established in 1984,  
when the Mac was introduced.

**Annual dues**  
for membership are \$36.  
(The first meeting is free.)

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## February Meeting *Scott Randell*

How many of you remember high school geometry? I do, and I remember doing proofs using postulates and theorems. For those of you who do not remember, a Postulate is an accepted fact that was not necessarily proven, but is considered to be self-evident. A Theorem is a statement which can be proven, and often already has been. OK, enough background. One of our members, Herbert Friedman, a former math teacher, demonstrated a new and more interesting method for students to not only learn, but actually discover for themselves, the principles of geometry. It involves using an application from Key Curriculum Press, called *Geometer's Sketchpad* (the most recent version is 5.03.)

Herb started by showing some short videos of students and teachers actively using the program. He then demonstrated several geometric constructions using the program. These constructions were great in illustrating some geometric proofs that I recall (well sort of) doing in high school. I can absolutely see that this visualization would make it easier for a student to understand the concepts. Even more important, with the proper instructions, students can use this to discover the proof for themselves. This is much more interesting and even fun, than tedious memorization of proofs. It should also be noted that anything you discover yourself is more likely to be retained.

Herb went on to explain that the drawings you make with this application are not static but dynamic. As you change the length of one line in a construction, or the size of an angle, the drawing will change following the rules of geometry. Another great benefit of students learning through this application, is that they can use it to determine the mathematical definition of various polygons. Again, not just memorizing, but understanding.

I downloaded the free demo (it runs for 20 minute time

*February Meeting continued on Page 8*

## March Meeting *Scott Randell*



A Mac and *iWeb*. That's all you need to design and publish your own personal website. Start by picking an Apple-designed theme. Each theme comes with coordinated fonts, backgrounds, and colors to give your site a consistent look throughout.

Next choose a page template. *iWeb* features ready-made templates for welcome, about me, photo album, movie, blog, and podcast pages.

Create as many pages as you like.

Then it's time to customize your layout with easy-to-use *iWeb* tools. Drag in photos or movies or type text into placeholders. Resize and rotate photos. Create overlays. There's no coding required. No complicated design programs to buy. No obstacles between you and a great-looking website.

Come to the March meeting and see how easy it is to create and maintain your own website.

### **TechTool Protogo**

Do you have an old portable hard drive or flash drive lying around? Why not turn it into the ultimate Macintosh diagnostic, repair, and maintenance tool? With *TechTool Protogo* it's easy. *TechTool Protogo* allows you to quickly create a bootable diagnostic device that contains *Micromat's* most powerful tools as well as any of your own utilities you may wish to install. You can then use this device to boot, check, maintain, and repair Macintosh computers as needed.

We will show how to create this portable powerhouse which includes *TechTool Pro* and *DiskStudio*. As it says above you can also install any other utilities you regularly use. In addition we will be raffling off a copy of this (usually cost 135.99.)

## Bradley's Tech Session



Bradley Dichter  
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► **I have been shooting videos which of course take up a lot of space. Once I have the QuickTime .mov file from iMovie HD, is it better to burn that to a DVD, compress it and burn that or use iDVD and make a DVD-Video of that?**

■ While the movie is highly compressible in a lossless fashion, the time it takes is not worth it. With a good blank DVD-R costing only 21 cents, it's not worth the trouble to compress the movie if it's 4.5GB or less. And creating a DVD-Video disc would compress the movie, making it lower quality and a lot harder to edit it later. A data DVD-R or a set of them should have enough space for the edited video as well as a iDVD Project file. Of course you could connect an external large hard drive and backup every damn thing. Your 17" MacBook Pro has an ExpressCard/34 slot, which supports a eSATA card, which offers the fastest speed and avoids the bug that slows down access to FireWire connected volumes greater than 1 TB. 'Course that's probably not so vital for a backup drive, but I generally like to go as fast as possible. Particularly when the card is just \$20 and takes up essentially no space as it slips inside the MacBook Pro.

► **I upgraded to Snow Leopard this week and the only thing that didn't seem to carry over involves when I get a attachment in Mail, it says I have to install QuickTime Player. But QuickTime Player**

**is in my dock. I had Flip4Mac.**

■ I'd say you misread the message. You need *Windows Media Components for QuickTime* in order to play the .wmv format video attachment. This can be gotten for free from Microsoft (formerly from Telestream as Flip4Mac) at <http://www.microsoft.com/downloads/en/details.aspx?FamilyId=915D874D-D747-4180-A400-5F06B1B5E559&displaylang=en>. They just updated to version 2.3.8.1 on Feb. 19th. I'd imagine what you had was OK for whatever Mac OS X you had before, not for Snow Leopard. You have to get the latest of everything if you want everything to work. Since this is free, you don't have a reason not to.

► **I had a backup of my Address Book file on my 3 year old MacBook Pro's hard drive so I could replace it when it got lost, but the Apple Store staff suggested I get an external hard drive. They were pushing the LaCie drives. Before I take their advice, what do you suggest?**

■ At the stores, they sell the G-DRIVE and G-DRIVE mini external hard drives. They are good drives but tend towards the expensive. In general, I'd suggest ordering online (macsales.com) from Other World Computing. Their tech support is excellent. They sell a greater range of drives. Look for their Mercury Elite-AL Pro mini or the Mercury On-The-Go Pro drives for use with a laptop and the OWC Mercury Elite-AL Pro drives for use with a desktop. They also have eSATA equipped RAID

*Bradley's Tech Session continued on Page 3*

## President's Message



Bill Medlow  
President  
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I can't help but wonder how long it will be before Apple offers the capability of voice recognition to unlock our computers, allowing instant access to email, googling, selecting a song in iTunes or even ordering take out. With the way things are headed, our futures lie in ultimate convenience and I'm confident voice control for Apple will arrive this decade.

My wife J'ai came up with a great idea! With the latest offering of the MacBook Pro's lightning speed and spectacular graphics; She thinks it's time to update skins, creating the unimaginable... a Mac skin that you design, and print... BUT in 3D with luminary capability! It would be really cool to see scenery lit by landscape lights. Equally fun and astonishing would be kid skins with lightning bugs lit up against a dark sky.

By the way, we'll have a presentation discussing the Mac App Store in April. What most excites me about this new business, is freeing cluttered shelves of boxes and disks to make way for more Mac snacks! :)

Bill



drives for high performance mobile and desktop storage. I've had mixed results with Western Digital and Seagate external drives so they are not my first choices. LaCie desktop drives have had major problems with their power supplies, so I don't suggest them anymore. Their mobile drives lack them, so that's a *little* better. The OWC and G-Technology, WD and Seagate drives have a three year warranty compared to two years for LaCie. While FireWire drives are supposed to be hot swappable after unmounting the volume, I've seen plenty of fried FireWire bridge boards in external drives, so to be safest, I'd shut off the drive before disconnecting the cable. On the assumption you will use Time Machine to backup your internal drive, I'd suggest a capacity that is equal to or greater than your internal drive. For your mid-2007 model, that's likely to be 120 or 160GB. But the Early 2008 models had 200GB or 250GB. The more capacity, the more iterations of your files it can store, so you can go back in time to restore a damaged file. You can leave a small partition of the backup drive for a copy of the system install DVD, which you can boot from, and repair the internal drive and use *Time Machine* to restore the entire drive if needed. You use *Disk Utility's* Partition function to make a small 8GB 2nd partition and it's Restore function to copy the DVD to this partition.

► **Are these drives Mac exclusive or can they be used with Windows machines as well?**

■ Of course the same rules under Windows applies - you have to unmount the drive before disconnecting it to avoid directory

corruption. Most Windows machines don't have FireWire, but they do have USB 2.0, but the better drives have both USB as well as FireWire. The cheaper drives have just USB, which would be slower, but may be acceptable for backups. The USB interface will slow down the Mac as it backs up, unlike a FireWire connection. OWC and G-Technology format the drives Mac OS Extended (Journaled) so they are ready for Intel based Macs. With *Disk Utility*, you can easily change the drive partitioning to create a second partition that is compatible with Windows. It would be FAT32 which is fine under Windows as long as you don't need to store a file larger than 4GB. FAT32 volumes can be written to and read from under Mac OS X. A NTFS format volume cannot be written to by Mac OS X without additional software. You could use *Tuxera NTFS* (\$31) which adds the ability to not only write to NTFS volumes, but it adds the ability to format NTFS partitions to Apple's *Disk Utility* under Mac OS 10.5 or newer. From what I hear, not as good, but for completeness, there is also Paragon Software's *NTFS for Mac OS X* version 8, only \$19.95, which includes a separate *Format NTFS Utility*. The latest releases of either even work in 64 bit mode of *Mac OS X 10.6 Snow Leopard*. Paragon also sells a solution that goes the other way, allowing a Windows machine to read a Mac OS extended (AKA HFS+) volume, called *HFS+ for Windows 8*. That's \$39.95. That's similar (and cheaper) to Mediafour's *MacDrive 8 for Windows* at \$49.99.

► **I'm doing presentations in libraries and they have all kinds of different data projectors. Is there some ideal resolution for the Mac laptop?**

■ Whatever the native resolution, not just some compatible resolution, of the projector at hand. You may have to check the model number of the projector and do some online research to determine this info. Mac OS X 10.6 has added some more resolution choices well suited for video projectors including 1080p output. In order to force the Mac to use odd resolutions, I'd recommend Stéphane Madrau's *SwitchResX 4.2.1*, it's \$19.18 shareware. It can store multiple Display Sets for the various projectors you will encounter. I'd also try Koingo Software's *Display Maestro 1.1.6 for Mac*. It's also shareware but only \$4.95 to buy. You use the Displays System Preferences panel, click Detect Displays if needed and set the resolutions in both windows and turn on display mirroring under the Arrangement tab so the projector shows the same as your screen, and not just a gray default desktop.

► **Regarding external storage, I've been hearing about USB 3.0. Is that better than FireWire 800?**

■ Theoretically it can be faster. The problem currently is first off, no Macs have USB 3 and most Macs can't be upgraded with USB 3.0. Of the current models, only the Mac Pro and the 17" MacBook Pro can be upgraded with USB 3.0 cards. Older 15" model MacBook Pro's offered the ExpressCard/34 slot. Secondly, the few companies (CalDigit, LaCie) that offer SuperSpeed USB 3.0

solutions, these cards only work with their own USB 3.0 hard drives, there is no mix and match. The same computers that can take USB 3.0 expansion, can also take a eSATA card, and that is faster, there is no compatibility issues and no driver software required and you may already have a eSATA equipped external hard drive to take advantage of this top speed. eSATA could be as cheap as \$19 for a Mac Pro or \$20 for a MacBook Pro. OWC offers an conversion service which adds a eSATA port to the current 27" iMac. If you are buying a single external hard drive, the limiting factor is generally the drive itself, so eSATA may not be faster than FireWire 800, particularly for volumes of 1TB or less. eSATA avoids a FireWire bug for larger volumes. It really shines for external striped RAID drives, whose read/write speeds far exceed FireWire 800 which is 100 megabytes per second. eSATA can support up to 300 MBps (3Gbps) transfer speeds for SATA II connections, just like the internal drives use. For the MacBook Pro, the preferred card is the Sonnet Technologies Tempo SATA Pro ExpressCard/34 with the fastest throughput and support for up to 10 drives in a port multiplier enclosure. It's been tested to offer sustained 195MBps transfer rates. The big Mac Pro can go far beyond that with a hardware RAID controller. The HighPoint RocketRAID 4322 card can do 749MBps sequential reads as a RAID 6 to 8 drives for example. By the way, OWC sells a eSATA to USB 3.0 adapter, so if you go to a PC with USB 3.0 with your eSATA equipped drive, you can connect up.

► So if you can't add any extra or don't want to spend the extra money, is FireWire 800 the fastest?

■ Yes. It's faster than FireWire 400 and USB 2.0

► I transferred a bunch of old video tapes to DVD. How can I bring that video back into my computer to edit?

■ DVD-Video is encoded as MPEG-2 and generally at 720 x 480 or 704 x 480 resolution. The audio could be various formats. I've used *DVDxDV Pro* and Miraizon's *Cinematize 2 Pro*. They have a \$29 lower end *DVDxDV* which is OK for *iMovie* 4-6 and the old 4:3 aspect ratio, but widescreen and *Final Cut Express/Pro* users will need the \$80 Pro version. Same thing for *Cinematize*, they have a basic version for \$60 and the Pro version for \$130. *Cinematize 2* can work with Macs as old as a G3 running Mac OS 10.3.9, while *DVDxDV* needs at least Mac OS 10.4.10 as well as Apple's *QuickTime MPEG-2 Playback Component* for QuickTime 7.6 or newer, which is \$19.99. I understand the Apple Stores are suggesting the free *MPEG Streamclip* from Squared 5. Video gets pretty confusing about pixels, how many and what aspect ratio the image is and the aspect ratio of the individual pixels. Computers use square pixels but television pixels are not. They are actually 10:11 for a standard 4:3 aspect ratio video and 40:33 for a widescreen video according to the Rec. 601 NTSC specs. Just something to watch out for when converted video looks fat or squished on your Mac.

► We touched on this before about backup, specifically *Time Machine* versus *Carbon Copy Cloner* or *SuperDuper!* It's not a bootable backup, right? What are the pros and cons?

■ *Time Machine* is not bootable, that's true, but if read back a few paragraphs, I talked about making a small partition with the Mac OS X Installer DVD so you can boot off that and restore your entire hard drive or reinstall the operating system if needed. If you don't, it's still not a big deal as long as you don't misplace your DVD when you need it, unless of course you have a MacBook Air which lacks an internal DVD drive. *Time Machine* makes up for this small inconvenience by making incremental archival copies of changed or new files every single hour you use the Mac. This allows you to restore a damaged file back to a hour it was OK. With a program like *Carbon Copy Cloner*, your old iterations of a file are overwritten by the latest and your backup would be just as messed up, assuming you discover the problem after a backup. Most people configure a scheduled backup to occur only once a day, so you could be looking at redoing work that may have taken place over years. This is a MAJOR difference. The downside to this behavior is a *Time Machine* backup set will take more space than the original contents of your hard drive. For most people with modest primary hard drives, an external drive of the same or larger capacity is not that bad an expense and well worth it for the inevitable loss of a file, a whole folder or the whole hard drive. A major balancing

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## User Group Offers



**George Canellis**  
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For years, Mission:Repair has been repairing/renewing your favorite Apple products. They are a one-stop repair shop for MacBooks, iPhones, iPads, iPods and everything in between. Mission:Repair is now unveiling specialty repair and upgrade prices for every Apple User Group in the United States. User group members are entitled to 20% off Mission:Repair's already industry low prices. Coupon code: [REDACTED] Place your order, or learn more about Mission:Repair at <http://www.missionrepair.com/default.asp> or call 866-638-8402 ext. 177. This offer is valid through March 31, 2011.

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This offer is valid through April 30, 2011.

Let *MacVideoTraining.com* help you learn how to use your Mac with their expert video tutorials that show you the how-to's of using *Mac OS X Snow Leopard*. Included are over 4.5 hours of training videos that cover everything from PC to Mac migration, a complete *Mac OS X Basics* section, and a guide to all of the common applications found on a Mac. A must-have for every new Mac user! For more information: <http://www.macvideotraining.com> This Apple user group member offer for *Quick Start Your Mac* is \$50.00, a great

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savings from the usual retail price of \$74.95. Download the PDF order form from [REDACTED] then send the completed order to [sales@macvideotraining.com](mailto:sales@macvideotraining.com), or fax it to 888-615-9510. This offer is valid through April 30, 2011.

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upside is the user interface for restoring your files or the whole hard drive. With a cloning operation, you have to manually find the copy of the file in question and drag it back to your primary drive, which could be a problem in itself. With *Time Machine*, you can do a search with the *Time Machine* application with its notable back in time layers interface and restore button makes Finder restores easy. Even easier is the custom interfaces when *Time Machine* is invoked from *Mail* or *iPhoto*, as the data file structure for these programs is not intuitive. *Time Machine's* maybe best feature over every backup program that came before in the twenty plus years of backup programs is this interface for restoring. The previous most popular backup program, *Dantz Retrospect* was often not used only because it was too difficult to use. *Time Machine* can backup multiple source partitions to one big backup drive, which can be OK, but also can be it's biggest weakness as we accumulate terabyte size drives for our data, but the backup drive would be limited to a 3TB if it weren't for multi-drive disk RAID systems. These are often striped for combining capacity and speed, but with one or more additional drives for parity fault recovery in a RAID 5 or RAID 6 system. Since *Time Machine* can also backup to a network server, small and large offices will use Mac OS X Server to support *Time Machine* server backups to their large central storage. There are several simpler Network Attached Storage (NAS) boxes a series of hard drive bays with an embedded server that supports *Time Machine*. Examples would be the Buffalo LinkStation and Drobo boxes. LaCie also

makes quite a few models. These of course should be battery backed up to ensure the data's safety. If you aren't ready to deal with an expensive single backup system, you might consider a hybrid backup plan, where *Time Machine* backs up some drives and you setup *Carbon Copy Cloner* to backup other drives to yet other drives. It's free and can be set to run hourly and do an incremental backup. I'd suggest it for drives that hold useful data that doesn't change much.

► **I've been hearing buzzwords about 3G and 4G. What are they talking about, faster speed or more data?**

■ Well first off, what they are calling 4G (for fourth generation) protocols does not meet the official definition, so I would call these next generation cellular data networks more like 3.5G. Massive Jargon Alert!: There are more than one systems being marketed as 4G. AT&T Mobility uses, since 2005, the UMTS (Universal Mobile Telecommunications System) based HSDPA (High-Speed Downlink Packet Access) wireless broadband GSM (Global System for Mobile Communications) network which is an enhanced 3G or turbo 3G network. The AT&T iPhone 4 supports this standard, which supports as of 3GPP (3rd Generation Partnership Project) release 5, downstream speeds of 14.4, 7.2, 3.5 and 1.8Mbps. AT&T is moving forward on two fronts, first with HSPA+ which could offer 42.2Mbps with release 7 and then 84.4Mbps with DC-HSDPA w/MIMO release 9. They are also moving forward, along with Verizon, on LTE (Long Term Evolution) That should support up to 100Mbps for mobile users

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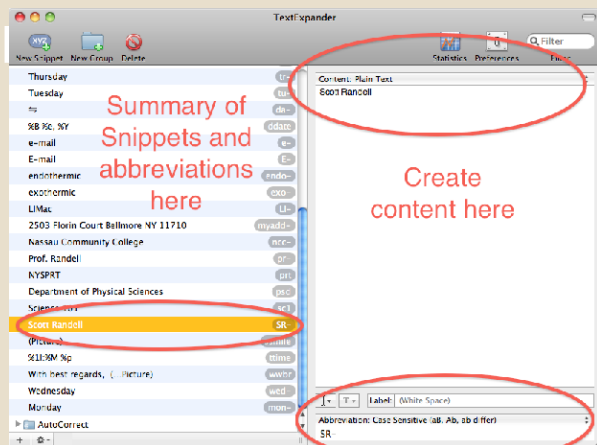
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# TextExpander Review *Scott Randell*

How many times do you type things like your name, your address, the date, and other things you use repeatedly in your documents? Well, *TextExpander* from “Smile Software” can save you hundreds if not thousands of key strokes. *TextExpander* watches what you type and inserts predefined snippets on the fly whenever you enter their corresponding abbreviations. I have been using this utility for a couple of years now, and I can’t stop raving about it to my fellow Mac users.

The interface is really friendly. The left panel has a summary of your snippets and abbreviations, the right panel is where you create them. (See screenshot below, to which I have added annotations.) Just type your predefined text in the content area, put in a description in the label area (optional), and type your abbreviation in the space provided for it at the bottom. That’s it, couldn’t be easier.

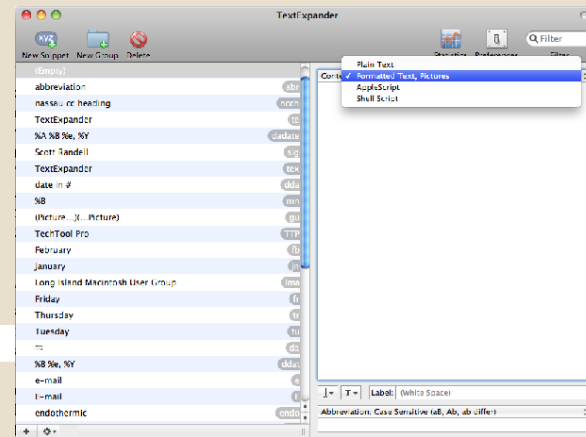


To begin with, your name can use your initials with an added character, for example when I type SR-, *TextExpander* will generate Scott Randell. Your address can be myadd-, type it and it will fill in your address. You can use it to expand your abbreviation to a really long snippet of text such as a disclaimer, and *TextExpander* will handle it with no problem.

You can also use *TextExpander* to insert styled (formatted) text, images, and special characters. To insert formatted text or images use the drop down content menu (see 2nd

screenshot below) in the right panel of the interface and select “Formatted text, pictures.” Format your text in the window (this is a bit limited) or paste from another application. The latter seems to be more efficient. You should test these, some slight adjustment may be necessary, but after that your good to go. For an image, just paste the image into the content panel, then create your abbreviation. If you often use the Character Viewer, (formally Character Pallet) for a few specific characters such as ± or ≈, you can open the Character Viewer, double click the character you want to insert, and create an abbreviation. You can now easily insert this character without a trip to the Character Viewer.

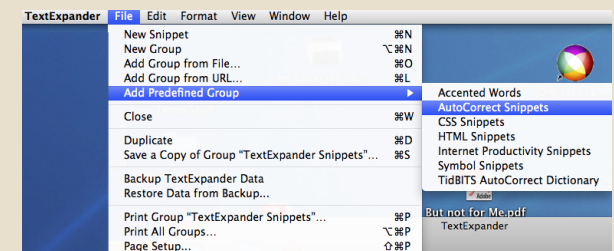
Other tools incorporated into *TextExpander* include auto



correction of specified typos, and inserting day date, and time in any format you wish. To use the Auto Correct feature, you either create snippets and abbreviations for typos you commonly make, and/or use the predefined Groups included in the program. You can choose the Auto Corrects snippets, or the TidBits Auto Correct Dictionary. To access these in *TextExpander* go to file->Add Predefined Group, and choose the one you want. (See Screenshot -3.) You will notice other Predefined Groups in this submenu, you might want to add them and take a look, if you can’t use them just delete that group. To insert the present day and date, or time you can use the special symbols *TextExpander* uses to create them.

For example if you want the day and date in long form use %A %B%%e,Y for your snippet then create your abbreviation. This will look like this: Saturday February 19, 2011. If you want to use the short format to the present date use: %lM/%d/%Y, this will give you 2/19/2011. You can create variants of this to your taste. These symbols, and what they will give you can be found on the “Smile” website (<http://smilesoftware.com/TextExpander/faq.html>.)

As I explore this utility, I find more and more useful



functions. You should give it a try. The 30 day demo will cost you nothing. If you find you like it, and it is making you more productive, and efficient, Smile Software has a special offer for LIMac members. Just head on over to <http://smile-software.com> download text expander, and use it for a while. If you decide to purchase, use coupon code LIMAC211 to get a 20% discount. To make this easier Jean MacDonald (marketing and PR for Smile), created this link <http://sites.fastspring.com/smile/product/catalog&coupon=LIMAC211>, just click it will take you directly to the Smile store, and the discount will already be included. *TextExpander* is usually \$34.95, the LIMac discount gets it to you for \$27.96.



I really want to thank Jean, and the rest of the folks at Smile Software for their support of LIMac. They have donated software certificates for our raffle, and are giving us a great discount on their products. Just remember their slogan. “Smile, Software that’s just right”

using a 20MHz bandwidth with the LTE-Advanced update, which should be finalized later this year. There will be other speeds at the 1.4, 3, 5, 10, 15MHz channel bandwidths that will be available. It all gets pretty confusing as there are multiple operating frequency bands. Some of these were vacated by UHF TV channels that went digital. These relatively low frequencies should offer greater penetration of buildings than we've seen before for cell phones. Compare these

numbers with the data rates you now get with wired broadband like the 11-15Mbps from Optimum Online. As the amount of data, you could say they are offering less, as the \$30/month unlimited data plan was phased out months ago. They offer 200MB for \$15/month or 2GB for \$25/month or 4GB for \$45/month with tethering to one computer. ↴

periods before closing, and has some limitations) and played with it for a while. I can see after some hands-on experience, that this is a great tool for students and teachers. You can play with it yourself by downloading the demo from: [http://download.cnet.com/The-Geometer-s-Sketchpad/3000-2053\\_4-4501.html?tag=mncol;1](http://download.cnet.com/The-Geometer-s-Sketchpad/3000-2053_4-4501.html?tag=mncol;1), or go to <http://www.keypress.com/x24119.xml?Upgrade=yes&Software=yes#green>. Despite what you read on the CNET website, you can buy the full version of the software then install it on up to 3 computers for \$29.95.

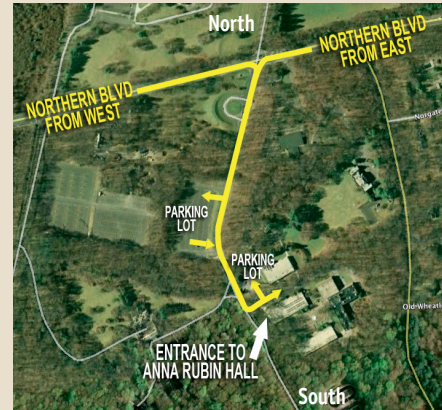
members contributes their time and expertise by doing a presentation. Herb did a great job explaining the program. His enthusiasm for the subject, and teaching was really evident. Many thanks to him for his contribution to our meeting. You can download a folder of Herb's sample files from the LIMac website, [limac.org](http://limac.org). You'll also want to check out the *Advanced Sketch Gallery* from the *Geometer's Sketchpad Resource Center*.

Scott Randell also gave a presentation of Smile Software's *TextExpander*. See a full review on Page 7 in this issue of the *Forum*. ↴

It is always great when one of our

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**General meeting time schedule:**

Meetings are held at

The New York Institute of Technology,  
Building 300 (Anna Rubin Hall),  
Old Westbury, Long Island.

For more detailed information about this location go to [limac.org](http://limac.org)

Meetings start promptly at 7:00 P.M.

Bradley's Q&A: 7:00 – 7:30 P.M.

MacBasics Q&A: 7:00 – 7:30 P.M.

Beginner Q&A meetings

Photoshop SIG: After general meeting

Web graphics with *Photoshop Elements*

Featured Presentation: 7:30 – 8:20 P.M.

followed by announcements and raffle drawings.

**Mac Basics**

For the March SIG meeting we will do *Dashboard/Widgets* and *Preview*

▶ In bad weather, call (516) 686-7789.

▶ The next LIMac board meeting will be at the Plainedge Library, (516) 735-4133, on Wednesday, March 16th, at 7:45 P.M. For more detailed information about this location go to [limac.org](http://limac.org)

**Renewal**

Membership renewal for 2011 takes place from October onwards. A bonus discount was passed by the Board of Directors a few years ago: Bring in a new dues-paying member and get a \$12 discount off your membership renewal. Bring in three new members and your renewal is free!

Bringing in a new member also includes getting a past member back into the group.

Make your \$36 check out to LIMac and bring it to the next meeting, or mail to LIMac, Post Office Box 2048, Seaford NY 11783-0180

How to better visually enjoy the *Forum*: Your Editor prefers you to use *Adobe Reader X* as long as your Intel Mac meets the requirement of Mac OS 10.4.11 or newer. PostView 1.8 (\$22) works from Mac OS 10.2 all the way up to 10.5 for PowerPC and Intel based Macs.

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