

BVCC General Meeting

June 12, 2017

Cloud Storage

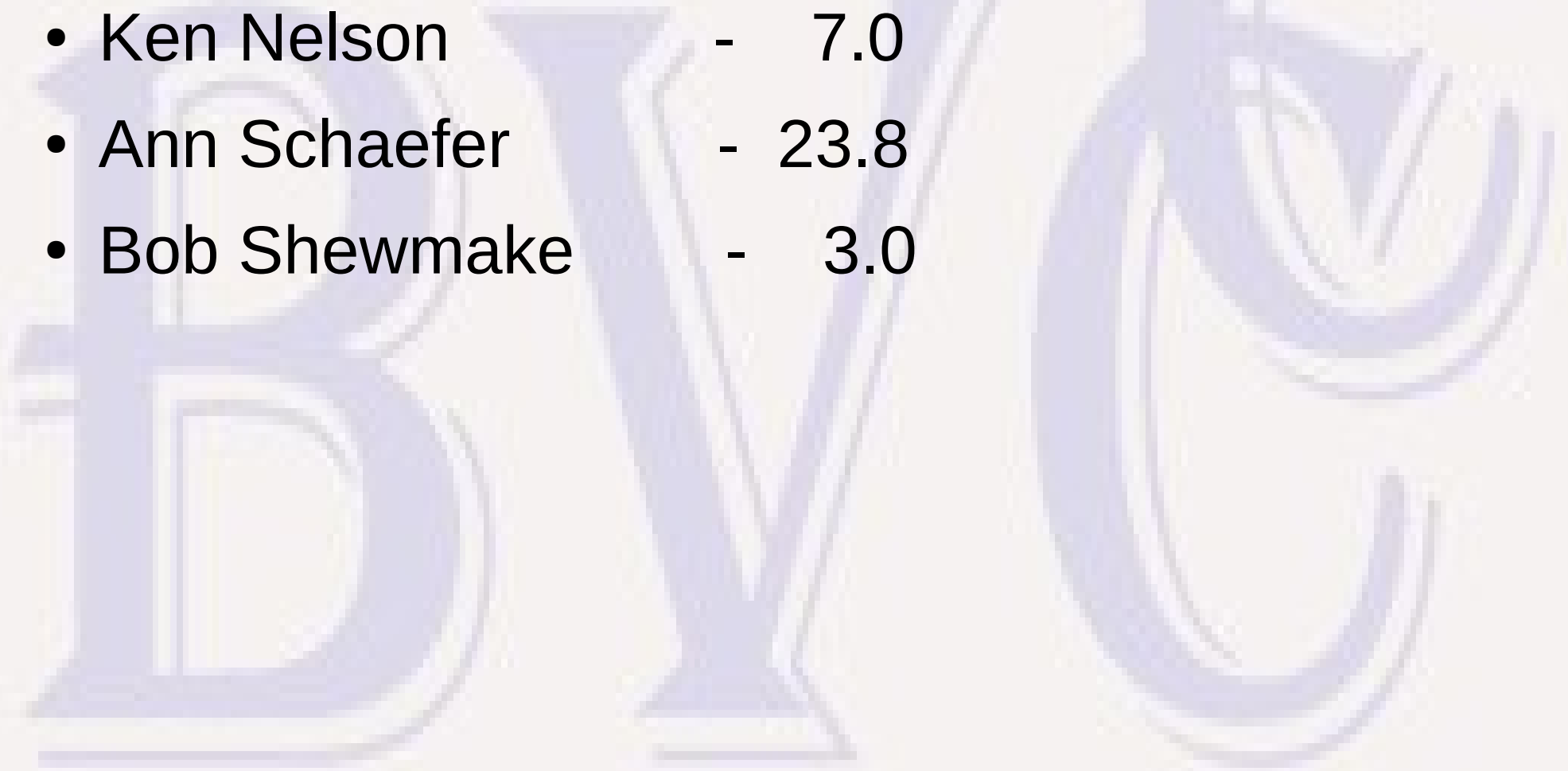
Joel Ewing

See <http://bvcompclub.org>

for Bits&Bytes Newsletter, meeting information,
Help Sessions & class information

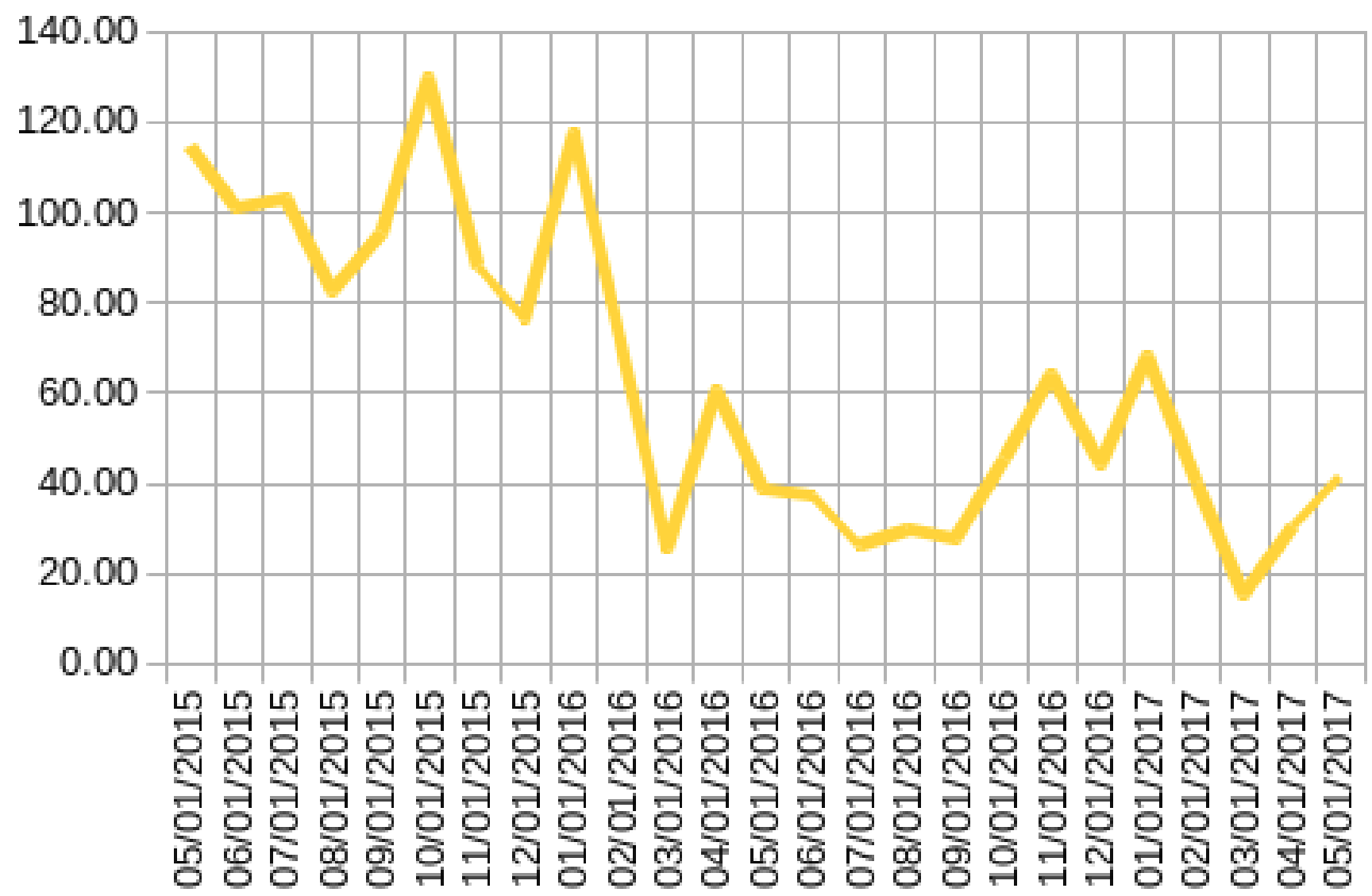
BVCC Recycle Center Hours May 2017

- Jack McClellan - 7.0
- Ken Nelson - 7.0
- Ann Schaefer - 23.8
- Bob Shewmake - 3.0



BVCC Recycle Center Hours

AARP Recycle Hours per Month



WannaCry[pt] Malware

- Bad enough to be reported by national news – encrypted user files, demanded ransom
- Over 200,000 affected systems Mother's Day weekend
- Most affected – Windows XP
- Risks of connecting out-of-maintenance XP to Internet
- Many people still have XP systems connected to Internet
- Serious enough that MS made XP patch available

WannaCry Exposure

- Did not require any action by user to spread
- Used printer/file sharing ports to infect systems that were visible from Internet – direct connection to ISP modem w/o firewall. One infected system could infect all other vulnerable systems on same local network.
- Patch for MS17-010 for XP SP3 (KB4012598) – be sure to have backups before install

Cloud Storage

- Cloud computing – shared pool of resources available over Internet – remote data storage is one example
- Data is maintained, managed, backed up remotely and made available to users over a network
 - Concept has been in use since 1960's when ARPANET (predecessor of the Internet) was created
 - Leaving email on an email server rather than downloading to a local device one example
- Many free storage services with limits from 2 – 15 GB

Cloud Storage – Advantages

- Someone else handles data backup/recovery/security issues – they may do a better job
- Your data is available at multiple locations on multiple devices – can be used to move data to another device
- Getting additional storage a matter of cost, someone else deals with hardware issues
- A way to put copies of data off site to protect against loss of irreplaceable data (financial & family records, etc.)
- Data sharing with others

Cloud Storage – Disadvantages

- Someone else handles data backup/recovery/security issues – You still need a 2nd copy of valuable data somewhere other than a single cloud storage service.
- Data is outside your physical control – cases where that may be legally unacceptable
- Loss of connectivity to Internet may make data temporarily inaccessible

...– Disadvantages (cont)

- Speed of access constrained by network speed
 - Max Cox Internet down/up 67.5/4.5 GB/hr – expect less
 - Local hard drive can attain 180 – 300 GB/hr – can store large amounts of data almost 100 times faster
 - Cloud storage works best for many smaller files that rarely change
 - Cloud storage impractical for large drive image backups for full system recovery
- Long-term costs – once you reach a tier where storage is no longer free, you have to continue paying just to keep data. If object is just long-term archival of unchanging data, removable hard drives or memory sticks stored at multiple locations may be a cheaper solution

...– Disadvantages (cont)

- Security – Cloud storage service hosts make a much more tempting and obvious target for hackers because compromising their service could expose data from many users, not just your data.
 - Service-supplied auto-encryption by user-specific keys of stored files protects against access by someone who lacks your login credentials or lacks access to the keys, but if your login credentials are stolen or if someone compromises your storage service and steals their keys, all files are exposed.
 - Check out two-factor login authentication on Dropbox
 - May want to apply your own encryption to especially sensitive files or folders before storing in dropbox folder – see BoxCryptor, Cryptomator for Windows, encfs for Linux

Cloud Storage Services

- Dropbox – 2GB free, 1TB \$99/yr
- Apple iCloud – 5 GB “free”, 1TB \$120/yr
- Google Drive – 15 GB free, 1TB \$120/yr
- MS OneDrive – 5 GB free, 1 TB \$84/yr w O365
- Others
- SFTP (if you have access to an SFTP server)

Dropbox

- Simple to use, 2GB free for personal use
- Free apps available for almost all operating systems and mobile devices: Windows (\geq Vista), Linux, MAC, iPhone, iPad, android
- Dropbox files appear as a folder whose contents can be manipulated much like other folders.
- Saved file is uploaded to Dropbox (on iPhone & iPad Dropbox app must be running for upload to occur), all devices using same Dropbox account see the file.
- Folders may be shared with other Dropbox users, files by sharing link
- Local copies of files accessible even without Internet

Creating a DropBox Account

- Tied to email address – one account per address
- Can be done at <http://www.dropbox.com>
- Can probably be done via iPhone/iPad Dropbox app (free)
- Installing desktop software requires Windows Vista or higher. Also requires a higher level of IE than comes with Windows 7, but current levels of Firefox and Chrome also work.



Reinventing teamwork

Introducing Dropbox Paper and Smart Sync — a simpler way to work together.

I agree to [Dropbox Terms](#)

Sign up for free

or

Sign up free with Google



Sign in

to continue to [dropbox.com](https://www.dropbox.com)

Email or phone

[Forgot email?](#)

[More options](#)

NEXT

English (United States) ▾

[Help](#) [Privacy](#) [Terms](#)

Full name

Email

Password

I agree to [Dropbox Terms](#)

Sign up for free

or


Sign up free with Google

Sign in - Google Accounts - Mozilla Firefox



https://accounts.google.com/signin/oauth/consent?authuser=0&part=AJi8hAM3jJ_BxRsuHv1vcIv8xAySS0K8aY

Google

Hi Joel

 jc113ewing@gmail.com

dropbox.com wants to

 Manage your contacts 

Allow dropbox.com to do this?

You may review this app's [terms of service](#) and [privacy policies](#). You can remove this or any other app connected to your account in [My Account](#)

CANCEL **ALLOW**

English (United States) ▾ Help Privacy Terms

Search

name

mail Password

agree to [Dropbox Terms](#)

Sign up for free

or

Sign up free with Google

Choose What I Share ✕



Files

Paper

Sharing

Personal

Only you

Get started by downloading Dropbox on your computer.

Download

Dropbox

Search

Name

Modified

Members



Get Started with ...

3 secs ago

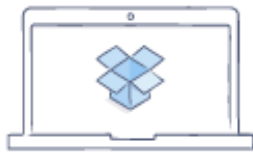
Only you



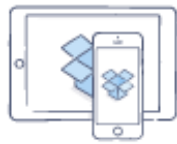
Work on files together with shared folders

devices, so you can get to your stuff from anywhere.

Install the desktop and mobile apps



Get the desktop app



Get the iOS app

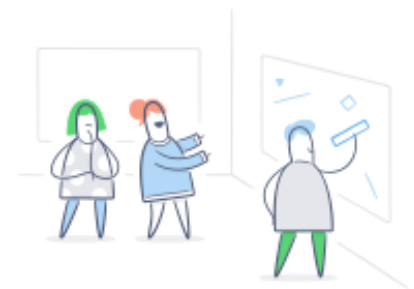


Get the Android app

Comments



Write a comment




Post a comment to start a discussion.
[@Mention](#) someone to notify them.



liz > Downloads Search Downloads


Organize Open Share with New folder

- ★ Favorites
 - Desktop
 - Downloads
 - Recent Places

Name	Date modified	Type	Size
 DropboxInstaller	6/11/2017 6:11 PM	Application	674 KB

Dropbox Installer

Installing Dropbox...



- Libraries
 - Documents
 - Music
 - Pictures
 - Videos
- Homegroup
- Computer
 - Local Disk (C:)
 - CD Drive (D:) virt
 - xpshare (\\vboxsvr\...)
- Network
 - LIZ-HP
 - VBOXSVR

 **DropboxInstaller** Date modified: 6/11/2017 6:11 PM Date created: 6/11/2017 6:11 PM
Application Size: 673 KB

Set Up Dropbox



Congratulations!

Your Dropbox was successfully installed

[Open my Dropbox folder](#)

[Advanced settings](#)

Search Documents

Arrange by: Folder

modified

Type

Size

is empty.

0 items



Everything you put in Dropbox is private unless you choose to share it.

Next



You just synced your first files in Dropbox!

Continue



- Files
- Paper
- Sharing
- Recents
- File requests
- Deleted files

Upgrade account

Dropbox



Name	Modified	Members	
Get Started with Dro...	56 mins ago	Only you	...
Get Started with Dro...	56 mins ago	Only you	...

Upload files

New shared folder

New folder

Show deleted files

Personal Only you

Help Privacy

