>PC_Update

August 2018

Our "Video Production" History

We have a long history of being at the "bleeding edge" of Video Production. Today we are using Video Streaming to reach our Members – want to know more ??
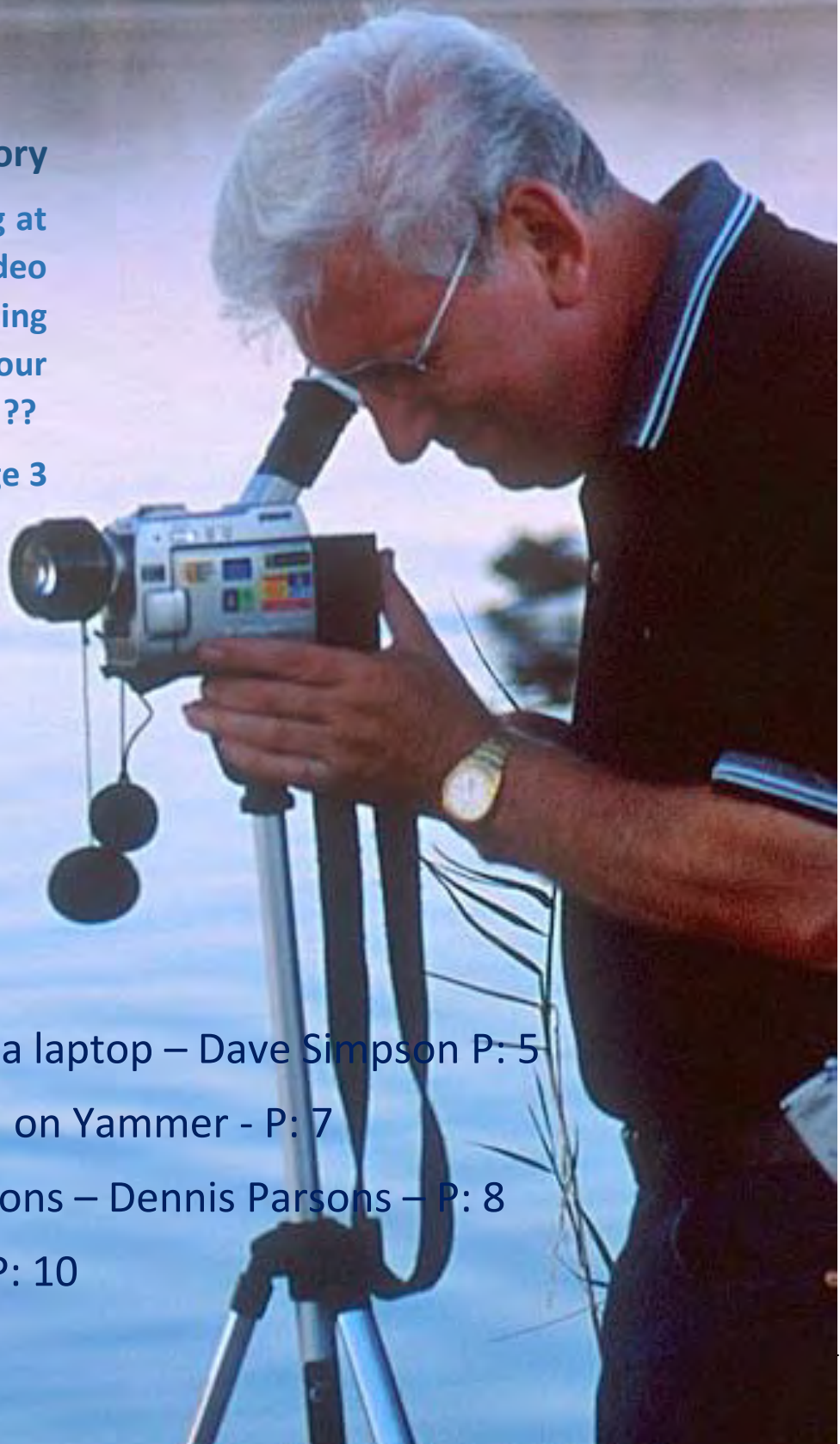
Full story page 3

MELB PC USER GROUP

Photo: John Hall

by Ken Chandler

>PC_Update

August 2018

iHelp – get the help you need with your computer
Ph (03) 9276 4088 iHelp@melbpc.org.au
Live chat.
Prepare yourself for remote iHelp by installing
TeamViewer

Membership application form online

Responsibility for content in this club newsletter lies with individually named authors.

Monthly Meeting Live Stream
Tune in here at 7.00pm on Wed 1st Aug to view the Monthly Meeting live over the Internet.
Test Transmission usually commences at around 6.30pm   http://tv.melbpc.org.au

Photography – Software and Hardware
Check out the new group on Yammer.
<https://www.yammer.com/melbpc.org.au/#/threads/inGroup?type=in_group&feedId=15417679>

Apologies from the Editor (and a call for help).

I am sorry but you will see a lot of photographs of yours truly in this edition of our Club Magazine.

As David Stonier-Gibson (our regular Editor) is on an overseas holiday I have had to deputise for him over the past 2 Months.

Unfortunately, I had to go into the Office earlier this week to deal with a legal matter (yes the problems of the past are still refusing to go away) and as a result had to start the Magazine update later than planned.

As we have to obtain permission from the subjects before putting photographs in the Magazine and as I have not received any "Feature Article" from anyone else I decided to write about my own specialist Subject – Video – and gave myself permission to publish a photo of me on the front cover !!!

Obviously, I am having to write this editorial and also the President's Report so two more photos there I'm afraid.

If there is ANYONE out there who has editorial or publishing skills who could deputise for David Stonier Gibson in the future I would be most grateful to hear from you !!!

(Also, I have just learned that one of our Office Volunteers will be leaving us so please contact John Swale jswale@melbpc.org.au if you would like to assist)

In this issue

Cover story: Our Video Production History

Our first "Video Editing SIG" Meeting was held in 1997 – and we still have 3 current "Video Editing and Production Groups" 21 years later.

(John Hall – President)

The first meeting of the Melbourne PC Video Editing Group was organised by Albert Vanzet on the 24th of February 1997 at the Michaels Camera Store in Elizabeth Street in the City with 43 attendees.

We currently have 3 Video Groups – the "Video Inner East SIG" – which meets at the Ashburton Library from 7:30 to 9:30 on the second Monday of each month.

The "Video Production SONY SIG" which meets on the second Wednesday of the month from 10:00 a.m to 12 Noon at Moorabbin and, last but not least -

The "Video Production PINNACLE SIG" which meets at Moorabbin on the fourth Wednesday of the month from 10:00 a.m. to 12:30 p.m.

Whilst our numbers have decreased over the past few years I have been informed by Roger Wragg – (the Sony Group SIG Leader) that a few new attendees have been coming to his Meetings.

The original Video Editing Group was moved by Albert Vanzet to Talbot Road Balwyn because the numbers quickly outgrew the Michaels Meeting Room but very soon the new "non-linear" editing tools came along which required more PC technical skills to run and Lawrie Weston set up a second Group in Dorcas Street, (the Melbourne PC Office at the time).

I joined both groups at the end of 1999 and in 2001 I took over as the SIG Leader from Albert Vanzet and continued to run that group for the next 11 years when I set up the Multimedia and Home Entertainment (MHE) SIG and the Raspberry Pi Mini Computer SIG in Mount Waverley (both of which I continue to run today).

"Linear" vs "Non-Linear" Editing

The "linear editing" Group that Albert set up used Video tapes to copy and cut and paste video clips and in order to move something from the back of the tape to the front you had to wind all the way forward and backwards.

The "Non-linear" editing Groups used expensive "Capture Cards" to copy the Video from tape to PC

Initially it required the very highest performance PC to edit Videos and a 9.1 GB "Video Rated" SCSI Hard Drive which could only hold 30 minutes of Video cost $600 in 1991 – (I still have the invoice) !!!!

Roger Wragg (SIG Convenor – Sony Video) shooting a clip of the Robomite that David Stonier-Gibson designed and built. (Photo – George Skarbek).

Video Format changes

Some of the early "linear" Video Cameras used VHS-C tapes which fitted into a Cartridge which could then be played on a full size VHS Deck. However, the Sony Video Cameras (which were the most popular at the time) used formats called Video 8 and Hi-8.

The videos themselves were captured in an "Analog" format on tapes which then had to be transcoded to "Digital" in order to edit them on a PC.

Sony then came out with a "Digital 8" format which recorded on the same tape as a Hi-8 but actually digitised the Video inside the Camera so that it could be copied to the PC without any further transcoding (however it needed a "Firewire" PC Card to do this).

However, most Video Camera manufacturers went straight to the "Mini-DV" format which was stored on a physically smaller tape that allowed them to make the Camcorder smaller and lighter.

(Compact Flash Memory cards came out in 1994 but Video Camera Manufacturers did not take them up immediately because of limited "write speeds". In fact as late as 2004 a consortium of Sony, JVC, Panasonic and others introduced the "High Definition Video" format which still required a Mini DV Tape).

Hitachi released a DVD Recording Camcorder in 2003 but this never gained popularity because of the difficulty in editing the DVD formatted Disks.

Improvements in Data Storage and PC Performance

Whilst Compact Flash cards were introduced in 1994 for still photography their write speeds and capacities simply couldn't handle the 25 frames per second of 352 x 288 Pixel interlaced video from the Camcorders.

Similarly, no PC CPU at that time had the power to capture this in real time and so we had to buy PC "Capture Cards" which had specialised processors which converted the Camcorders analogy video to digital "AVI" format.

These "PCI" cards were notoriously difficult to set up without some detailed knowledge of how a PC Worked and so this was a time of rapid growth in our Video Groups as more people joined Melbourne PC in order to get help from other Members.

By the time that "Standard HDV" with a resolution of 1280 x 720 pixels was released by Sony and others in 2004 the PC Processing power had grown exponentially (Moore's Law) and Digital Video could now be captured by an industry standard "Firewire" card and some specialist Video spec'd Motherboards even had "Firewire" connections built in.

Whilst USB 1.1 was released in August 1998 it simply did not have the transfer speed to handle Video and even when USB 2.0 came out in the early 2000's it needed an external "Capture Device" to convert the Video from the Camcorder into a format that it could handle.

Video Compression and Digital Playback

The "720P" (1280 x 720) High Definition Video standard was deemed not good enough for the larger TV's that were being produced and in 2006 Sony and Panasonic both produced Prosumer "1080P" (1920 x 1080) Camcorders.

At the same time, the Television Manufacturers were making larger and larger screens and Panasonic introduced the World's first 65 inch 1080P Plasma TV in 2005.

The major problem with these new TV's was the lack of High Resolution content. A Standard Definition DVD was only 720 x 576 pixels and the TV manufacturers had to "upscale" these to look good on a 1920 x 1080

Our Main Monthly Meeting in Moorabbin which is "live streamed" by our team of volunteers.   (Photo Jonathan NG)

screen.

The Blu-Ray disk and HD-DVD 1920 x 1080 formats were announced in 2005 (with Microsoft and Intel favouring the latter) but Blu-Ray had more industry support and eventually Blu-Ray Players dominated.

However, the Blu-Ray disks had a capacity of up to 50 GB and a transfer rate of 54 MBPS which was beyond the capacity of the regular T.V Station Broadcasts which were still very much "Standard Definition" until High Definition TV Signals started broadcasting in Europe and America around 2010.

Video Broadcasting and Live Streaming

In order to "Broadcast" signals at a rate which TV sets can receive them the TV Stations use a "Codec" to compress the video and the TV Set decompresses it using the same codec.

Whilst Broadcasters can transmit up to 19 MBPS they only have to produce one stream to thousands of TVs– however in order to "Stream" a video on the internet which can started, paused and stopped by each individual viewer at different times the signal must be sent in "packets" which must be compressed from the "Live Stream" that is being broadcast – such as our Monthly Meetings at Moorabbin – and then transmitted via the internet.

When we moved to Moorabbin in 2010 we built a special purpose "Video Streaming" environment which has to compress the Video in real time to a laptop and then transmit it via a dedicated Server in our basement.

We have recently upgraded our Video feed to these facilities and because of its complexity we are experiencing some initial difficulties and I hope that you will join me in thanking the dedicated team of Volunteers who are working hard on rectifying these.

Rebirthing a Laptop with an SSD

Dave Simpson – IHelp Team Leader

Over the years I've maintained computers for several friends and families.

One of those friends is an academic and teaches at universities from time to time. Recently My friend came to me and asked me to find her a suitable Laptop for a 'paper' she was ready to write.

I replied saying no problem, I'm aware of a second hand i5 laptop with 8GB Ram and 128GB SSD drive from Ozstock which would be perfect for her.

After recently experiencing a computer security breach at university she wanted me to disable the Wifi feature on the laptop.

She went further and told me she felt increasingly cautious about using Win10 and asked me to find an alternative.

Recently I'd seen a Video made by Brian of Britec computers in the UK. He replaced Win10 with Desktop - Ubuntu 18.04 LTS on a mini PC.

https://www.youtube.com/watch?reload=9&v=JFbrr0qo0dc&t=36s

Then whilst on YouTube I saw another option: TrueOS: Linux or Windows Alternative.

https://www.youtube.com/watch?v=eoxluItj1uA

I feel pretty capable dealing with Dos or Windows but when it comes to Linux, I'm quite a novice.

I often use tools and such in Linux but when it comes to typing on the command line, I'm lost.

I'm aware that several members of Melbpc are used to using Linux so I thought ask some questions and headed straight to Yammer.

Once I logged in I saw a post put up by Roger Brown on a version of Linux which he now felt he was happy to recommend: Linux lite 4.0

https://distrowatch.com/weekly.php?issue=20180709#lite

This was the clue I needed. There are so many Linux distributions to choose from and Roger's post on this version seemed to be just what I needed.

It seemed to be a very friendly package and made for novices like me. When it boots to the Desktop the help file is front and centre.

I asked Roger if he could help me if I ran into trouble because I figured I may have trouble configuring the OS after I install it. He was happy to help but as it turned out, I didn't have to trouble him.

Even the LibreOffice software was already installed. I set a password protected account login upon boot and disabled Bluetooth and Wifi capability, job done.

I'm impressed, everything 'just works' and it's quite secure.

It's another perfect example of members helping members at Melbpc.

IHelp SIG Report

Leighton West

Dial Help is now part of iHelp and Mike Allison has been appointed Manager for this function. It is proposed that members who have previously provided a lecture or article for the club will be approached for listing as a contact. This may initially only be recent contributors, however over time it is proposed to include many more members from earlier, who can assist with specific technical advice.

Accordingly the Dial Help function has been move up on our SIG page to reflect its importance to the group and the contacts are now directly listed on the Dial Help page (behind a login).

Photography: Find the picture in the picture

David Stonier-Gibson

A brief tip written on a ship somewhere north of Iceland! Or is it a brief travelogue? You decide!

I was in Stockholm a 2-3 weeks ago. As we wandered into the square in front of the concert hall we heard an announcement about a free performance inside. So, why not?

We decided to go inside and rest our weary feet. It turned out to be three young men performing Latin American music.

One of them actually grew up in Cuba, so it had an air of authenticity. They were performing on a small stage setup in the lobby. We got lucky and found two seats in the front row.

So out came my Sony RX100-IV pocket camera to see what I could get, and I rattled off a few shots. I deliberately set a slow-ish-shutter speed, 1/25 or so (can't remember) in the hope of catching some movement.

Before Editing

After Editing

Later, back at the hotel I went over the pictures. Nothing very much worth keeping. But then I spotted an interesting photo within a rather boring photo. A few minutes in Photoshop and I had extracted it.

The moral of the story is to always be on the lookout for an interesting crop or treatment of an otherwise boring picture. Sometimes I have extracted more than one "keeper" out of a single "tosser".

PS: The music was great, and I like how young performers get a chance to perform to the public in a prestigious venue.

The month on Yammer

Dennis Parsons and Roger Brown

Once upon a time there were newsgroups. Now we have Yammer, the online forum for Melb PC users.

Group: Health Matters

There's been some discussion of the pros and cons of My Health Record, how to opt out if desired and how to change the security settings from the default which is basically open slather with no access controls.

Some will be staying in as they feel the advantages of medical professionals having access to all their medical records outweighs the risks. Others are opting out as they don't trust the security of the system or that it won't be open to abuse in future.

<*https://www.yammer.com/melbpc.org.au/#/Threads/show?threadId=1122208597*>

<*https://www.yammer.com/melbpc.org.au/#/Threads/show?threadId=1125317132*>

Group: Chit Chat

Our illustrious absent editor continues to regale us with his adventures cruising the fjords in Sweden, Norway and Iceland, posting a selection of photos of stunning architecture, moody landscapes and wildlife. Well worth the price of admission if you're pining for the fjords!

<*https://www.yammer.com/melbpc.org.au/#/Threads/show?threadId=1127794603*>

His pictures of the terns in flight were particularly good:

<*https://www.yammer.com/melbpc.org.au/#/Threads/show?threadId=1127393717*>

Group: NBN

The move to the NBN can be confusing, particularly for people who aren't regular Internet users (if at all) and "just want a phone", especially when they receive letters and marketing material exhorting them to sign

Within it are different groups for members with varying interests. It's also where you are likely to hear club news first. To access Yammer simply have your Melb PC login name (@melbpc.org.au email address) and password handy, click this link: https://yammer.com/melbpc.org.au/ and log in.

up NOW!!! to avoid missing out months before it's even available to them.

Judy was at a dinner recently chatting to one such person and rapidly had the attention of half of the table who were similarly puzzled over bundling of phone and Internet, and being offered unlimited data plans. The Yammer discussion centred on the difficulty in finding suitable plans for "phone only" users.

<*https://www.yammer.com/melbpc.org.au/#/Threads/show?threadId=1127927192*>

Group: Photography - Software and Hardware

This is a new group we've added for "the discussion of technical issues of photography including software and hardware". So come along and discuss the merits of removable lens cameras versus non-removable or the software you use to tweak and catalogue your photos.

<*https://www.yammer.com/melbpc.org.au/#/threads/inGroup?type=in_group&feedId=15417679*>

DOTW, a weekly feature in the Chit chat group

DOTW is a light-hearted look at some of the sillier events of the week. Don't take it too seriously and do pop over to Chit Chat and vote each week.

Recent winners of this prestigious award have been:

- Tim McQueen, about to be switched to NBN and never heard from again!!
- Comedian Andrew Nolch for marking offensive graffiti on the the Princes Park memorial for murdered fellow comedian Eurydice Dixon - apparently as an anti vaccination protest
- Kevin Martin for his truly AWFUL "fish, chimps and mushy bees" joke posted in Chit Chat.

Ten Questions: Dennis Parsons

Graham Hurford

Each month we will ask a club member ten questions. Seven will be constant — every member will be asked the same seven questions. Three more questions will be asked and these three will differ from person to person, month to month. This is not meant to be a psychological profile but just a fun way to get to know someone. Questions can be answered in any way the member chooses.

This month we ask our "This Month on Yammer" editor - Dennis Parsons

Q: You are stranded on a deserted island. It has no electrical power. What three things would you want to have with you?
A: Solar powered water still, fishing line and hooks, a large telescope – it would be a shame to waste the dark clear night skies.

Q: If you could make one rule that we all must obey, what would it be?
A: Be compassionate

Q: What is your favourite book?
A: The Lord of the Rings by Tolkien.

Q: Can you recite a poem and if yes, which one?
A: Does Monty Python count?

Q: What morals should we program into intelligent machines?
A: The Golden Rule would be a good start.

Q: What's the greatest invention of your lifetime?
A: The Internet.

Q: What do you wish you'd invented?
A: The perfect ad blocker.

Q: Who makes you laugh more than anyone?
A: My kids.

Q: What's the best gift you've ever given?
A: Life – I was a sperm donor for a friend.

Q: What's the most beautiful word in the world or at least one of them.

A: Numinous – the sense of awe and wonder I get looking into a dark moonless sky into the infinity of space. The word might not be beautiful but the meaning is.

August monthly meeting
Wednesday 1st August 2018 – 7 pm Sharp.

At **7.00 pm sharp** John Hall will present his President's Report.

Next will come our regular Q&A Session. Bring along your computer related questions and we will all try and find answers for you.

Then our Main Speaker – Daniel Ricardo of Monash University will tell us about their Mars Rover Project

After the break: Stephen Zuluaga and John Hall will show some photos and Videos from our recent "Open Day" in Moorabbin

At about 9:20 George Skarbek will give a short presentation of What's New, with interesting tidbits from around the Internet.

The meeting will close at 9:30 pm. But you are cordially invited to the Waffle SIG afterwards

President's Report July 2018

John Hall, President

Why would new Members join our Group ???

When I attended my first Melbourne PC User Group Meeting in 1999 I had absolutely ZERO interest in PC's.

My passion at the time was Video Editing and I was making Videos of my young Australian family to send back to my Mother and Sisters in England

When I was moaning about the difficulties I was having in trying to move something that I had recorded at the back of the Videotape to the front of the tape (to use as a Title Sequence etc.) a friend advised me to go along to the "Video SIG" which met in the Senior Citizens Club in Balwyn.

The term "SIG" meant nothing to me but I did find the people in the group very knowledgeable and so I stayed for the free "3 month Trial" and then joined up.

What is different today ???

Today, many people prefer to use on-line "tutorials" on YouTube etc. and are less likely to want to have to go out in the evening to join a "Club" where they might think that they could be overwhelmed or embarrassed by the technical prowess of the other Members.

I think that we have to face this fact as our SIG Group attendances in general seem to be in decline.

So how can we address this ???

By sharing our knowledge with our Members "on-line"

Our Yammer Service is gaining more Members every week and we must encourage even more to join.
If you haven't had a look at Yammer yet – please follow the links in our "The Month on Yammer" in the article preceding this Report.

You will find a wealth of knowledge there – and if a topic that you are interested in doesn't already exist – then don't be shy – start one !!!

How else can we reach new Members ???

In this month's Feature article I recall some of the times when Melbourne PC was at the forefront of Video technology (I believe that we had one of the very first DVD Burners to arrive in Australia).

Many of our members are still at the forefront of Technology (as demonstrated by their exhibits at the recent Open Day in Moorabbin).

I think that we need to get back to that pioneering investigation of new technologies so that we can keep our Members informed of the latest advances in Computing and assist them with their purchasing decisions with their own technology.

We will need more "Volunteers" to join us in these endeavours so please don't be shy, come along to one of our SIG Meetings (such as the Video SIGs in the main article) and introduce yourself to us.

Our Statement of Purpose

The purposes of the Association are to conduct, on a non-profit basis, activities to help members learn and use systems and devices using various technologies, especially computing, software, and communications technology (including the Internet, personal computers & devices), to achieve the following outcomes:

- Advancing computer literacy;
- Advancing education and the exchange of ideas;
- Keeping members up to date on developments in computer and information technology and helping members to exchange information;
- Representing members in public debate in areas of interest including law reform proposals;
- Engaging with similar organisations; and
- Carrying out activities that benefit the Association

SIG Reports

SIGs are our Special Interest Groups. Some SIGs are based on shared interest, such as video editing, or genealogy; others are locality based, such a Mornington Peninsula or Casey. Some SIGs chose to submit reports of their meetings to this newsletter, while others run their own websites for member information.

Northern Suburbs Linux Meeting - July 2018 Meeting Report

by David Hatton

It might have been a coincidence, but there were six apologies from our regular attendees, including some who had temporarily escaped the Melbourne winter for sunnier northern parts of Australia and some who genuinely needed R & R after a bout with the dreaded lurgi. So a smaller audience than usual was able to make the best of a quiet night.

After the usual free ranging discussions that mark the informal "hands on help", it was decided to have two sessions instead of the usual program. As Nick Vespo was unavoidably occupied with client problems, there was no formal Linux News session, and we started with an Open Forum session. Topics included were the suitability of Firefox and other non Google browsers to operate in the Google Hangouts and a short description of some interesting small desktop hardware which was about to be converted to a Linux desktop installation. Podcasts (audio and video) from Twit TV (This Week in Tech) also got a mention. Their website at twit.tv is well worth checking out.

The main session for the evening was presented by Paul Addis - the title of which was "Linux and Microsoft - from 'Cancer' to Co-operation."

Paul started out with a run down on the means of running Linux and Windows on the same physical hardware, namely Multiboot, Virtual Machines, using Wine and using Cygwin, AndLinux or WSL (Windows Subsystem for Linux).

Multibooting setups can only use one system, Linux or Windows, at any given time while virtual machines can allow one system to host a virtual instance of the other, given the appropriate Windows license.

Wine runs Windows programs on Linux by mapping the Windows application program interface (API) to Linux functions. dll's used in this process are not the Windows dlls, but (mainly) versions created by Wine from the API documentation. Not all Windows dlls are documented so "Here be Dragons"! A commercial version of Wine called Crossover is also available.

Cygwin, started in 1995, is a way of running Linux and Unix programs in a Windows environment, and is currently supported by RedHat and volunteers. Programs created via Cygwin are normal Windows programs, and include ports of KDE 3, Gnome, Xwindows and Apache.

An alternative to Cygwin is AndLinux, an Ubuntu based system for 32 bit Windows only. This uses a kernel intended to run natively in Windows.
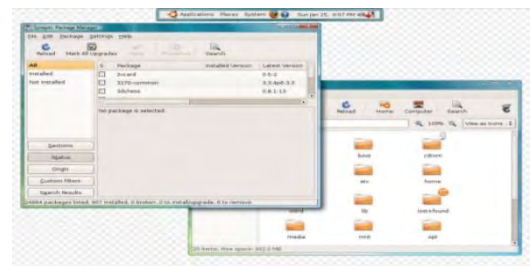
Two Linux applications running under AndLinux.

Paul then gave a summary of the changes in the attitude of Microsoft from the low point when Linux was regarded as a "cancer" to the changed attitude of the present time, culminating in the release of the Windows Subsystem for Linux. (WSL).

WSL is a windows 10 only add on that needs to be enabled prior to using it. Developed by Microsoft and Canonical, WSL translates Linux requests to ones understood by Windows, a sort of reverse Wine. It uses a special version of Ubuntu apparently only available from the Windows store.

Only Linux programs not needing a GUI work straightforwardly - making a GUI work is somewhat hit and miss at this stage.

Paul then demonstrated Linux command line utilities running under WSL, as well as a couple of simple GUI applications he had managed to get working.

An interesting look at a situation which has attracted some robust comment.

East SIG Report – July 2018

Neil Muller

The July meeting opened with M.C. **Paul Woolard** welcoming members, followed by Q&A conducted by **Dave Botherway** in George's absence.

Q: I've been told that Windows 10 upgrade 1803 resets all your privacy settings. Is that true?

A: Yes it is true and that's why many of us use a free program called **ShutUp10** to turn off about 65 different privacy parameters. If you don't like that program, Stuart Bedford recently gave a presentation on a similar program called **Privacy Repairer.** I suggest you don't use the default option of Privacy Repairer. My computer worked okay at the time, but a week later I discovered Cortana wouldn't work. I found Cortana had been turned off by Privacy Repairer and this cost me a week of work. In the days of Vista and Windows 7, it was usual for the software to create Restore Points before doing an update. Many other programs still create Restore Points before they install. In Windows 10, MicroSoft is trying to wean us off setting Restore Points in lieu of using System Recovery. After the Windows 1803 update, it will be necessary for many users to turn Restore Points back on. This is done by going into Control Panel under System protection. See graphic below
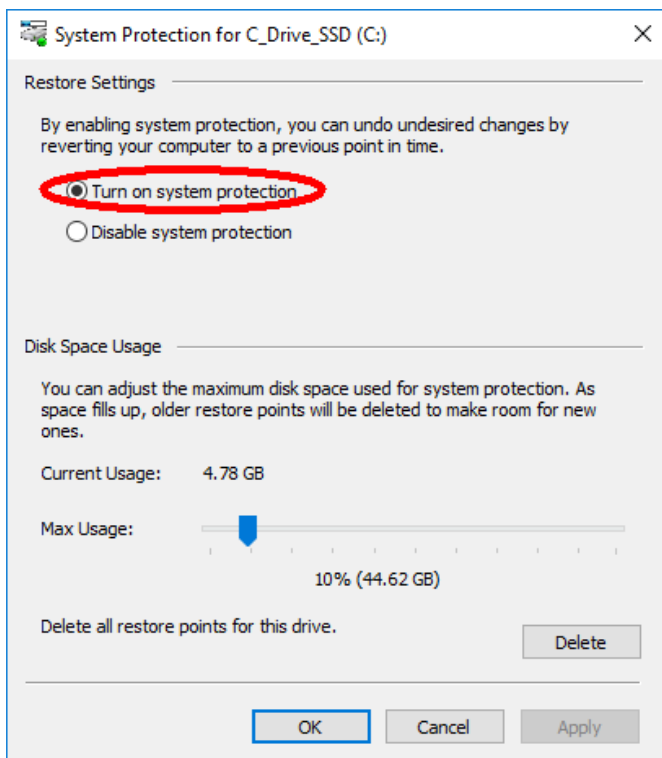
Q: I use YouTube Downloader to copy video or music files from YouTube. It works by searching the file in YouTube, copying the URL into the program and then selecting the type of file required, either mp4 video or mp3 music audio. YouTube Downloader is no longer working and I wonder whether anyone else has experienced that problem?

A: An audience member suggested SS YouTube Downloader as an alternative as it is currently working well for him.

The following technique will download video or audio files without the need for a browser add-on. Search YouTube for the video you wish to download. Just add "ss" to the video URL as follows to start the download process. e.g.

Original URL:
https://www.youtube.com/watch?v=SR_CVzYnbbg

Download URL:
https://www.ssyoutube.com/watch?v=SR_CVzYnbbg

Q: What protection is there for Smart TVs connected to the internet?

A: Normally there is no protection once a smart TV goes online. However the data from a Smart TV would be of little interest for a hacker or worth spending their time to crack. If the Smart TV runs an Android operating system it is theoretically easier for hackers, if that version of Android has already been cracked on other devices. The only protection in that case would be from the firewall in your router. An audience member commented that it's rumoured that Smart TV manufacturers are able to upload what programs people are watching.

Q: I have a SanDisk USB stick that has stopped working and is no longer recognised by my OS. Could this be a hardware or software issue?

A: Go into Computer Management and select Disk Management. If the USB stick is shown try to allocate a drive letter to it. If your USB disk is not shown in Disk Management, then it's probably faulty. SanDisk guarantee their disks so it could be worth following up with them for a replacement.

The next presentation was by **Trevor Hudson** and comprised 2 videos showing how to enable CAPS LOCK toggle sound in Windows 10 and 8.1. By turning on toggle sound, a short beep is heard to warn that the text has changed to upper case letters. This sound helps to avoid the need to retype large sections of unwanted upper case text.

Use Toggle Keys

Play a sound whenever you press Caps Lock, Num Lock or Scroll Lock

On

Allow the shortcut key to start Toggle Keys

Press and hold the Num Lock key for five seconds to turn on Toggle Keys
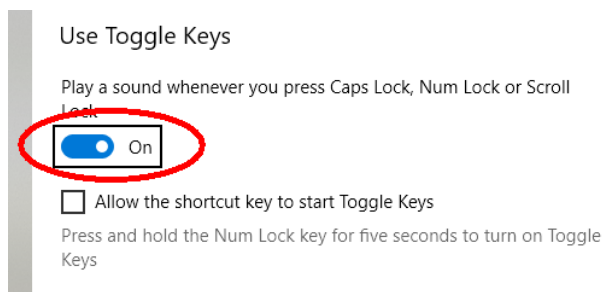
The two videos titled "How to enable CAPS LOCK toggle sound in Windows 8.1" and "How to enable CAPS LOCK toggle sound in Windows 10" can be found on YouTube or Vimeo.

Next **Paul Woolard** gave a short presentation on a number of websites he uses for computer help and reviews.

"Gizmo's Freeware" at www.techsupportalert.com provides reviews and ratings for an extensive range of free software. By subscribing you receive regular updates by email. Gizmo recently alerted its readers to two free online courses from Google that offer in depth techniques to get the most out of Google Search. A link to the course can be found at https://www.techsupportalert.com/content/improve-online-search-skills-free-courses-google.htm.

How to Geeks" at www.howtogeek.com is another website for technical and computer related information. Topics of interest can be accessed from the extensive list on the website's homepage or by subscribing to the weekly newsletter.

"Make Tech Easier" at www.maketecheasier.com is similar to "How to Geeks" and includes how to guides, tips and tricks and software reviews.

"Shareware on Sale" at www.sharewareonsale.com is a good source of free software and current software at heavily reduced prices.

After the break Guest Speaker **Graeme Plow** spoke on the History of Barcodes in Australia. Graeme who was working for tool maker Stanley at the time, was involved in the implementation and standardisation of barcodes in Australia. The following is a summary of Graeme's talk.

An optical device developed in America in the 1930's called a "magic eye" was the technology that led to the scanning of barcodes. The "magic eye" was used to automatically open a door when a person passed through its beam.

In the 1970's the "magic eye" was the first device to record data, by counting reflections from distinct markings on passing train carriages hauling coal. This technology replaced a person sitting on a platform recording the number of carriages as they passed.

The driving force behind the introduction of barcodes was the grocery industry in America. It was soon realised that there was a need for more than groceries so a group of industry leaders formed the Uniform Product Council. In 1976 a 12 digit Uniform Product Code (UPC) was developed. Scanning worked well but was only used in America at that time. The first product to have a barcode included was a packet of Wrigley's chewing gum.

In Australia, Bill Pratt the owner of Safeway Supermarkets in Victoria (now Woolworths) and President of the Retail Grocery Association was the driving force behind the scanning of barcodes. After viewing scanning in America, Bill saw the potential to introduce a scanning system for Australia and convened a meeting on his return. Coles however wanted more than groceries included, due to the many other products they had in their supermarkets. Coles wanted people outside the grocery business involved. Bill Pratt then contacted a number of industries including Stanley Tools, where Graeme was working, for a representative to attend a meeting on barcoding. As a well-respected and large global company, Stanley's involvement was seen as essential to provide a non-grocery view. At that time Graeme was involved in the coding of Stanley's products so he was chosen to attend the meeting. This commenced a 22 year involvement in barcoding and eventually became a director.

In 1978 the Australian Product Number Association (APNA) was formed with funding provide by the Grocery Manufacturers of Australia. The association had one employee and others like Graeme were seconded from

various companies. In 1979 confectionary maker Roundtree Hoadley was the first company in Australia to become a member of the APNA. Graeme's first task in the APNA was to write a manual on how to instigate a barcode scanning system in Australia. The manual had the title "Barcode Technical Manual".

There were a number of issues facing the APNA initially for scanning to be successful. Correct printing of barcodes and paper standards was seen as critical. The Victorian Government under John Cain felt scanning was a threat that would adversely affect the government, so they tried to bury the APNA in red tape. They failed.

A Technical Advisory Group (TAG) was set up to resolve issues that were proving difficult. For example, the width of a packet of Wrigley's chewing gum pack was half as big as a barcode. TAG took the 12 digit American barcode on board but soon realised that the system would not work outside America, if it was to cover the world. An IBM employee in America came up with the idea that by adding an extra digit to the barcode, the problem with lack of available numbers would be solved. The 13 digit code is now the worldwide standard for barcodes. The number allows for 2 digits up front for the country code, the next 5 digits for the company number, 5 digits for products within the company and a final check digit. Graeme noted that a barcode does not tell where an item is manufactured. Even if a barcode displays the number 92 for Australia, it doesn't necessarily mean that it's manufactured in Australia.

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13 digit barcode

Bill Pratt conducted a scanning trial within Safeway and the single biggest problem he had was not with technical issues or the unions, but with the "checkout chicks". They believed the laser beam coming from the scanner would stop them getting pregnant. This was finally resolved after extensive medical testing.

The first product to be barcoded in Australia was dish washing detergent and was soon to be followed by Coca-Cola. Coca-Cola's initial production run of drink cans proved fruitless as the cans were printed in red and the red laser would not read the red barcode. The barcode needed to be in black for scanning to work.

To verify that a coding and scanning system would work, SIMS Supermarkets in Melton became the first scanning store in Australia. That was 1982 and the trial was deemed successful. In 1988 Grace Bros became the first scanning department store in NSW, while Kmart was the first in Victoria. In 1990 Franklins were the first to have scanning throughout their 191 stores.

At this stage the Americans still had their 12 digit system (UPC) while the rest of the world had a 13 digit system called the European Pastoral Number (EPN). Eventually the American realised that imported products with a 13 digit barcode could not be scanned so they had no option but to adopt the 13 digit standard.

In 1993 APNA changes name to EAN Australia with its offices still at Mount Waverley and a soon to be opened office in Sydney. Both now involved a greater number of paid staff and increased membership.

As the adoption of barcoding was now growing rapidly, it became necessary to setup a group to explain to industry how to release a barcode sensibly, so that it would work in the store. In 1996 EANworks was established as an education aid. It involved a number of mobile caravans that would travel around the eastern states to stores to explain how the supply chain process worked. The caravans helped to explain to businesses the whole life cycle of a product from manufacture to point of sale.

At this point of time Government could see the benefits and were supportive of barcoding. In 1997 Tim Fischer, the Federal Minister for Trade, released a document "The role of Australian policy in advancing electronic commerce" and launched EANnet.

In 2000 EAN celebrated its 21st birthday and now had over 11,590 members in Australia. EAN had become a profitable business run by its members. EAN was no longer groceries and hardware but was everything we make and do. Graeme's role shifted to the motor, aircraft and steel industries to determine how barcoding could work for them. Graeme retired around this period.

In 2005 there were 86 full time employees. EAN Australia changed its name to GS1 which is the

international name and the name the Australian branch uses today.

In 2006 the first Coles supplier began full electronic trading using GS1 as a set of standard rules. That meant the whole process for different suppliers from beginning to end is integrated.

In 2009 GS1 membership in Australia had grown to over 16,000 members and now included the majority of businesses in Australia.

In 2014 GS1 membership in Australia had reached 17,000. Rather than travelling to sites in caravans, businesses are now invited to the Mount Waverley office where they can walk through a large display and view the complete life cycle of a product from manufacture through to sales.

Graeme sees the future as unrecognisable from what it is today. Every conceivable business from the health industry to farming now uses various types of coding to follow their processes from beginning to end. GS1 now covers RFID and QR codes.

For those wanting more information Graeme suggested the GS1 website at www.gs1au.org.
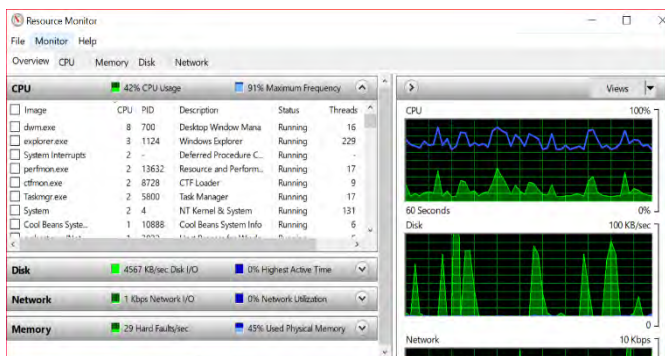
Neil Muller

Beast Report   -   17 June 2018
from Dave Botherway

Welcome to all – on this very wet morning . .

Buying :

To demonstrate Cortana home automation, Dave had bought a TP-Link LB130 LED light bulb, controlled via Wi-Fi from his phone   –   but yet to get working using Cortana on a PC

Question :

How to setup a second monitor so that two documents can be viewed concurrently ?

For the physical setup on a desktop PC, two monitor outputs are needed (say VGA AND HDMI) while for a laptop usually the laptop screen itself provides one display with the second display attached via VGA OR HDMI outputs.

Once the screens are connected, use the Windows-P keys to establish the 'extended' screen mode. Note – care needed as to the Mouse position: it may be on the other monitor ! !

Videos :

An amazing Google video – demonstrating AI (Artificial Intelligence) and Voice Recognition   being used for a telephoned Hair Salon appointment and a Restaurant booking . . .

See https://www.youtube.com/watch?v=D5VN56jQMWM

A Person drone - A drone-type platform for personal transport … (with parachute ?)

See similar video at https://www.youtube.com/watch?v=KEDrMriKsFM

Main Topics :

Brian showed a summary and video of the Australian Lions Club initiative for Hearing Dogs – trained to provide assistance to hearing-impaired people.   For a similar video, see https://www.youtube.com/watch?v=j8zGeVMph-s

Responding to questions -

* why is my PC so slow, Dave showed tools to pinpoint bottlenecks :

  * Start-up Tab, Performance Tab and Resource Monitor (as part of Task Manager)
  * Cool Beans – a simple utility to show CPU, Memory and Ethernet/Internet traffic

Then two free programs to understand and control privacy: OO- Shutup and Privacy-Repair

Special Interest Groups – meeting & contact details

SIGs — Special Interest Groups

Data Source: data-source for SIG-List
Updated: 24-Jul-2018 - 10:44
Amendments: Please advise changes/corrections to: calendar-admin@melbpc.org.au

Recent changes are at: http://www.melbpc.org.au/interest-groups-resources/sig-changes/

Access (database) and Excel

Date Jan	**No Meeting**	
Feb-Nov	**Second Mon of month (inc. Public Holidays)**	
Dec	**Second Mon of month**	
Time	6:30pm - 8:30pm	
Email	access@melbpc.org.au	
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8	
Convenor(s)	Craig Evans craig_evans@racv.com.au	

Bayside

Date Jan	**Third Thu of month**
Feb-Nov	**Third Thu of month**
Dec	**Third Thu of month**
Time	10am - 12noon
Email	bayside@melbpc.org.au
Location	St Stephens Church Hall, 111 North Road (cnr Cochrane St), **Brighton** Melway:67.F7
Convenor(s)	Peter Carpenter - 9596 3441 Brian Fergie Les Johnston

Beginners East (BEAST)

Date Jan	**No Meeting**
Feb-Nov	**Third Sun of month**
Dec	**Third Sun of month**
Time	10am - 12:30pm
Email	beast@melbpc.org.au
Location	Vermont South Community Centre, 1 Karobran Drive, **Vermont South** Melway:62.G7
Convenor(s)	Dave Botherway

Casey - Main Meeting

Date Jan	**No Meeting**
Feb-Nov	**Second Fri of month**
Dec	**Second Fri of month. (Christmas function - check location/time etc with Convener)**
Time	1pm - 3:30pm
Location	Beaconsfield Neighbourhood Centre, 8 O'Neil Road, **Beaconsfield** Melway:214.A1
Convenor(s)	Jan Whitaker - 9705 9009 jwhit@janwhitaker.com Jan Weiner - 9796 2807 weijan@westnet.com.au

Casey - Workshop

Date Jan	**No Meeting**
Feb-Nov	**Fourth Fri of month**
Dec	**No Meeting**
Time	1pm - 3:30pm
Location	Beaconsfield Neighbourhood Centre, 8 O'Neil Road, **Beaconsfield** Melway:214.A1
Convenor(s)	Jan Weiner - 9796 2807 weijan@westnet.com.au Jan Whitaker - 9705 9009 jwhit@janwhitaker.com

Communications

Date Jan	**No Meeting**
Feb-Nov	**Second Wed of month**
Dec	**Second Wed of month**
Time	7 - 9:30pm
Email	phil@melbpc.org.au
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)	Phil Lew - 0418 567 019

Digital Images

Date Jan	**Third Fri of month**
Feb-Nov	**Third Fri of month**
Dec	**No Meeting**
Time	10am - 12noon
Location	Wadham House, 52 Wadham Parade, **Mount Waverley** Melway:61.E12
Convenor(s)	Ian Bock - 9807 3701 bockey@melbpc.org.au George Skarbek

East

Date Jan	**No Meeting**

	Feb-Nov	Second Thu of month
	Dec	Second Thu of month (starts 6:30pm)
Time		7:30pm - 9:30pm
Email		east@melbpc.org.au
Location		Eley Park Community Centre, 87 Eley Rd, **Blackburn South** Melway:61.H5
Convenor(s)		Paul Woolard - 9877 1059 Ian Dewhurst - 0438 480 500

East Workshop & 3D Printing

Date	Jan	No Meeting
	Feb-Nov	Second Sun of month. NO meeting in May - Mother's Day.
	Dec	Second Sun of month
Time		10am - 2pm
Email		eastwsh@melbpc.org.au
Location		Wadham House, 52 Wadham Parade, **Mount Waverley** Melway:61.E12
Convenor(s)		Paul Woolard - 0417 566 209 pwoolard@melbpc.org.au John Swale (3D printing) - 0417 530 766

Essendon - Main meeting

Date	Jan	No Meeting
	Feb-Nov	First Fri of month
	Dec	No Meeting
Time		9:30am - 12noon
Email		essendon@melbpc.org.au
Location		Nancye Kirchner Neighbourhood Centre, Doyle Street (corner Somerset St), **Avondale Heights** Melway:27.D6
Convenor(s)		John Guegan - 9317 7114

Essendon - Open Forum

Date	Jan	No Meeting
	Feb-Nov	Second Fri of month
	Dec	Second Fri of month. (Christmas Function, starts 10:30am)
Time		9:30am - 12noon
Email		essendon@melbpc.org.au
Location		Nancye Kirchner Neighbourhood Centre, Doyle Street (corner Somerset St), **Avondale Heights** Melway:27.D6
Convenor(s)		John Guegan - 9317 7114

Essendon - Various topics

Date	Jan	No Meeting
	Feb-Nov	Third Fri of month
	Dec	No Meeting
Time		9:30am - 12noon
Email		essendon@melbpc.org.au

Location		Nancye Kirchner Neighbourhood Centre, Doyle Street (corner Somerset St), **Avondale Heights** Melway:27.D6
Convenor(s)		John Guegan - 9317 7114

Everything Apple

Date	Jan	No Meeting
	Feb-Nov	Third Tue of month
	Dec	No Meeting
Time		2pm - 4pm
Email		everything-apple@melbpc.org.au
Location		Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)		Peter Emery everything-apple@ausom.net.au Sam Fiumara

Genealogy East

Date	Jan	No Meeting
	Feb-Nov	Third Sun of month
	Dec	Third Sun of month
Time		1pm - 3:30pm
Email		geneast@melbpc.org.au
Location		Vermont South Community Centre, 1 Karobran Drive, **Vermont South** Melway:62.G7
Convenor(s)		Denis Street

Hardware

Date	Jan	No Meeting
	Feb-Nov	Second Fri of month
	Dec	Second Fri of month
Time		10am - 12noon
Location		Wadham House, 52 Wadham Parade, **Mount Waverley** Melway:61.E12
Convenor(s)		Kelvin Cording - 9438 1047 kcording@bigpond.net.au John Hall - 9803 2731 johnhall@melbpc.org.au

iHelp

Date	Jan	Approximately 6 monthly
	Feb-Nov	Approximately 6 monthly
	Dec	Approximately 6 monthly
Time		7pm - 9pm
Email		ihelp@melbpc.org.au
Location		Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)		Dave Simpson - 9276 4095

Investment Tools - WASINT

Date	Jan	No Meeting
	Feb-Nov	Second Tue of month

	Dec	Second Tue of month
Time		10:30am - 12:30pm
Email		wasint@melbpc.org.au
Location		Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)		Richard Solly

Linux Workshop - Moorabbin

	Date Jan	No Meeting
	Feb-Nov	In Recess
	Dec	In Recess
Time		
Email		linuxworkshop@melbpc.org.au
Location		Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)		David Hatton

MACE (Atari Computers)

	Date Jan	Third Sun - BBQ - check with Convener for location
	Feb-Nov	Third Sun of month
	Dec	Third Sun of month
Time		10am - 2pm
Email		maceatari@gmail.com
Location		Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)		Andrew Boschan andrewbosc@gmail.com

Microcontroller

	Date Jan	Second Wed of month
	Feb-Nov	Second Wed of month
	Dec	Second Wed of month
Time		7pm - 9:30pm
Email		microcontroller@melbpc.org.au
Location		Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)		David Stonier-Gibson John Hollow - 0417 031 164 Phil Lew - 0418 567 019

Microcontroller Workshop

	Date Jan	Second & Fourth Sat of Jan.
	Feb-Nov	Second & Fourth Sat of month.
	Dec	Second Sat (only) of Dec.
Time		12noon - 5pm
Email		microcontroller-workshop@ melbpc.org.au
Location		Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)		John Shirt - 0409 568 267 Rob Brown - 0419 285 806

Mornington Peninsula - General, Q&A

	Date Jan	Third Mon of month
	Feb-Nov	Third Mon of month
	Dec	No Meeting
Time		9:30am - 12noon
Email		peninsula@melbpc.org.au
Location		Mornington Community Information and Support Centre, 320 Main St, **Mornington** Melway:104.E12
Convenor(s)		Terry Said - 0427 750 327 dulnain@gmail.com Ian Thomson iaroth@netspace.net.au Colin Ackehurst

Mornington Peninsula - Family History

	Date Jan	Third Mon of month
	Feb-Nov	Third Mon of month
	Dec	No Meeting
Time		1:30pm - 4:30pm
Email		peninsula@melbpc.org.au
Location		Mornington Community Information and Support Centre, 320 Main St, **Mornington** Melway:104.E12
Convenor(s)		Colin Ackehurst colin_a_ackehurst@bigpond.com

Mornington Pen. Family History: Adv.DNA

	Date Jan	last Wed of month (5th Wed if there is one, otherwise 4th Wed)
	Feb-Nov	last Wed of month (5th Wed if there is one, otherwise 4th Wed).
	Dec	No Meeting
Time		2pm - 4pm
Email		peninsula@melbpc.org.au
Location		Mornington Community Information and Support Centre, 320 Main St, **Mornington** Melway:104.E12
Convenor(s)		Colin Ackehurst colin_a_ackehurst@bigpond.com

Multimedia Home Entertainment

Date Jan	No Meeting
Feb-Nov	First Fri of month
Dec	First Fri of month
Time	10am - 12noon
Email	MHE@melbpc.org.au
Location	Wadham House, 52 Wadham Parade, **Mount Waverley** Melway:61.E12
Convenor(s)	John Hall - 9803 2731 johnhall@melbpc.org.au Kelvin Cording - 9438 1047 kcording@bigpond.net.au

Music

Date Jan	No Meeting
Feb-Nov	Third Thu of month
Dec	No Meeting
Time	7:30pm - 9:30pm
Email	music@melbpc.org.au
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)	Bill Sakell - 0430 566 422 John Shirt - 0409 568 267

North East Android

Date Jan	No Meeting
Feb-Nov	Third Wed of month
Dec	Second Wed of Dec - join with North East Daytime SIG - end-of-year breakup
Time	10am - 12noon
Email	ne-android@melbpc.org.au
Location	Hawdon Street Community Hall, 80 Hawdon Street, **Heidelberg** Melway:32.A4
Convenor(s)	Colin Lampshire 9857 5372 or 0413 640 408 lampshir@melbpc.org.au Kelvin Cording - 9438 1047

North East Daytime and Photography

Date Jan	No Meeting
Feb-Nov	Second Wed of month
Dec	Second Wed of month
Time	10am - 12noon
Email	neday@melbpc.org.au
Location	Hawdon Street Community Hall, 80 Hawdon Street, **Heidelberg** Melway:32.A4
Convenor(s)	Colin Lampshire 9857 5372 or 0413 640 408 lampshir@melbpc.org.au

North East Genealogy

Date Jan	No Meeting
Feb-Nov	First Wed of month
Dec	First Wed of month
Time	10am - 12noon
Email	negen@melbpc.org.au
Location	Hawdon Street Community Hall, 80 Hawdon Street, **Heidelberg** Melway:32.A4
Convenor(s)	Lynn. Hammet lynnhammet@gmail.com

Northern Suburbs Linux

Date Jan	Third Mon of month
Feb-Nov	Third Mon of month
Dec	No Meeting
Time	7:30pm - 9:30pm
Email	nslig@melbpc.org.au
Location	Community Meeting Room, Watsonia Library, 4 Ibbotson St, **Watsonia** Melway:20.E4
Convenor(s)	David Hatton Nick Vespo

Online

Date Jan	Available online at any time
Feb-Nov	Available online at any time
Dec	Available online at any time
Time	Available online at any time
Email	kazkev@melbpc.org.au
Location	Melb PC Yammer online forum
Convenor(s)	Kevin Martin Evening only - 5964 7627 or 0407 343 162

Programming

Date Jan	Suspended, meet only on request.
Feb-Nov	Suspended, meet only on request.
Dec	Suspended, meet only on request.
Time	By arrangement
Email	programming@melbpc.org.au
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)	John Viney

Raspberry Pi - Moorabbin

Date Jan	**Second Sat of month**	
Feb-Nov	**Second Sat of month**	
Dec	**Second Sat of month**	
Time	2pm - 4pm	
Email	raspi-moorabbin@melbpc.org.au	
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8	
Convenor(s)	Mohan Gupta - 0421-214-081	
	Rob Brown - 0419 285 806	

Raspberry Pi - Mt Waverley

Date Jan	**No meeting Jan-2018 - Australia Day**	
Feb-Nov	**Fourth Fri of month**	
Dec	**No Meeting**	
Time	10am - 12noon	
Email	raspi@melbpc.org.au	
Location	Wadham House, 52 Wadham Parade, **Mount Waverley** Melway:61.E12	
Convenor(s)	John Hall - 9803 2731	
	johnhall@melbpc.org.au	
	Lance Lloyd - 9884 5559	
	lancelloyd@melbpc.org.au	

Sunbury Daytime - New Users

Date Jan	**No Meeting**	
Feb-Nov	**First Thu of month**	
Dec	**First Thu of month**	
Time	9:30am - 12noon	
Email	sunburydaytime@gmail.com	
Location	Sunbury Senior Citizens Centre (back room), 8 O'Shannassy Street, **Sunbury** Melway:382.E4	
Convenor(s)	Kevin Hale - 9740 5786	

Sunbury Daytime - Advanced

Date Jan	**No Meeting**	
Feb-Nov	**Second Thu of month**	
Dec	**Second Thu of month**	
Time	9:30am - 12noon	
Email	sunburydaytime@gmail.com	
Location	Sunbury Senior Citizens Centre (back room), 8 O'Shannassy Street, **Sunbury** Melway:382.E4	
Convenor(s)	Kevin Hale - 9740 5786	

Sunbury Daytime - Main Meeting

Date Jan	**No Meeting**	
Feb-Nov	**Third Thu of month**	
Dec	**No Meeting**	
Time	9:30am - 12noon	
Email	sunburydaytime@gmail.com	
Location	Sunbury Senior Citizens Centre (back room), 8 O'Shannassy Street,	

Sunbury   Melway:382.E4

Convenor(s)	Kevin Hale - 9740 5786	

Sunbury Daytime - Maintenance & Linux

Date Jan	**No Meeting**	
Feb-Nov	**Fourth Thu and Fifth Thu of month.**	
Dec	**No Meeting**	
Time	9:30am - 12noon	
Email	sunburydaytime@gmail.com	
Location	Sunbury Senior Citizens Centre (back room), 8 O'Shannassy Street, **Sunbury** Melway:382.E4	
Convenor(s)	Kevin Hale - 9740 5786	

Video Inner East

Date Jan	**No Meeting**	
Feb-Nov	**Second Mon in month, except NO meetings in Mar & Jun; and meeting moved to third Mon in July, namely 15-Jul-2018.**	
Dec	**Second Mon of month**	
Time	7:30pm - 9:30pm	
Email	rbalse@tpg.com.au	
Location	Copland Room, Ashburton Library, 154 High St, **Ashburton** Melway:60.C9	
Convenor(s)	Richard Balsillie - 9809 4116	

Video Production - Pinnacle

Date Jan	**No Meeting**	
Feb-Nov	**Fourth Wed of month**	
Dec	**No Meeting**	
Time	10:00am - 12:30pm	
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8	
Convenor(s)	Wayne Spicer - (03) 5971 1617	
	spisawn@optusnet.com.au	
	Tony Pickup - 9878 0706	
	tonypickup@optusnet.com.au	

Video Production - Sony

Date Jan	**Second Wed of month**	
Feb-Nov	**Second Wed of month**	
Dec	**Second Wed of month**	
Time	10am - 12noon	
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8	
Convenor(s)	Roger Wragg	
	rdwragg@fastmail.fm	

WAFFLE - wine & fine food lovers event

Date Jan	**No Meeting**	
Feb-Nov	**First Wed of month**	
Dec	**First Wed of month**	

Time	9:35pm (after the Monthly Meeting)
Email	phil@melbpc.org.au
Location	Fong's Chinese Restaurant, 725 Centre Rd (cnr Francesco St), **Bentleigh East** Melway:77.J1
Convenor(s)	Phil Lew - 0418 567 019
	Tom Rado - 9807 4072

Website Design - Tutorials

Date Jan	**No Meeting**
Feb-Nov	**Fourth Sun of month**
Dec	**No Meeting**
Time	2pm - 4pm

Website Design - Troubleshooting

Date Jan	**No Meeting**
Feb-Nov	**Fourth Sun of month**
Dec	**No Meeting**
Time	4pm - 6pm
Email	webdesign@melbpc.org.au
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)	Fleur Stephens - 0407 330 963

Windows Plus

Date Jan	**No Meeting**
Feb-Nov	**Third Sat of month**
Dec	**No Meeting**
Time	10am - 12noon
Email	winplus@melbpc.org.au
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)	John Swale - 0417 530 766
	Barry Stone

Email	webdesign@melbpc.org.au
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)	Fleur Stephens - 0407 330 963

Date Jan	**No Meeting**
Feb-Nov	**Fourth Sun of month**
Dec	**No Meeting**
Time	4pm - 6pm
Email	webdesign@melbpc.org.au
Location	Melb PC HQ, Level 1, 479 Warrigal Rd, **Moorabbin** Melway:78.D8
Convenor(s)	Fleur Stephens - 0407 330 963

August Calendar

v2–updated 23-Jul-2018

SIG & Other Meetings — Aug-2018

MELB PC USER GROUP

Sun	Mon	Tue	Wed	Thu	Fri	Sat
Legend SIG meeting at Melb PC HQ, Moorabbin. **Non-Moorabbin meeting.** ~~Cancelled Meeting~~ Changed Meeting To be confirmed	**Changes** Please advise changes to: calendar-ad-min@melbpc.org.au	Other SIG (Special Interest Group) information: https://www.melbpc.org.au/index.php/sigs/about/ Recent Changes: https://www.melbpc.org.au/index.php/sigs/about/recent-changes/	**1** **North East Genealogy SIG** *Heidelberg* *10am - 12noon* **MONTHLY MEETING** *Melb PC HQ, Moorabbin* *7pm – 9:30pm* **then Supper (WAFFLE)** *at Fong's 9:35pm*	**2** **Sunbury Daytime SIG** *New Users* *9:30am - 12noon*	**3** **Essendon SIG** *Main meeting* *Avondale Heights* *9:30am - 12noon* **Multimedia Home Entertainment SIG** *Mount Waverley* *10am - 12noon*	**4**
5 ...	**6**	**7**	**8** Video Production – Sony SIG *Moorabbin* *10am - 12noon* **North East Daytime & Photography SIG** *Heidelberg* *10am - 12noon* **Communications SIG** *Moorabbin* *7pm – 9:30pm* **Microcontroller SIG** *Moorabbin* *7pm – 9:30pm*	**9** **Sunbury Daytime SIG** *Advanced* *9:30am - 12noon* **East SIG** *Blackburn South* *7:30pm - 9:30pm*	**10** **Essendon SIG** *Open Forum* *Avondale Heights* *9:30am - 12noon* **Hardware SIG** *Mount Waverley* *10am - 12noon* **Casey SIG** *Main Meeting* *Beaconsfield* *1pm - 3:30pm*	**11** Microcontroller Workshop SIG *Moorabbin* *12noon - 5pm* **Raspberry Pi – Moorabbin SIG** *2pm - 4pm*
12 **East Workshop & 3D Printing SIG** *Mount Waverley* *10am - 2pm*	**13** Access (database) and Excel SIG *Moorabbin* *6:30pm – 8:30pm* **Video Inner East SIG** *Ashburton* *7:30pm - 9:30pm*	**14** Investment Tools - WASINT SIG *Moorabbin* *10:30am - 12:30pm*	**15** **North East Android SIG** *Heidelberg* *10am – 12noon*	**16** **Sunbury Daytime SIG** *Main Meeting* *9:30am - 12noon* **Bayside SIG** *Brighton* *10am - 12noon* **Music SIG** *Moorabbin* *7:30pm – 9:30pm*	**17** **Essendon SIG** *Various topics.* *Avondale Heights* *9:30am – 12noon* **Digital Images SIG** *Including Photoshop* *Mount Waverley* *10am - 12noon* **Melb PC Committee** *1pm, Mt Waverley*	**18** Windows Plus SIG *Moorabbin* *10am - 12noon*
19 **Beginners East (BEAST) SIG** *10am - 12:30pm* MACE (Atari Computers) SIG *Moorabbin* *10am - 2pm* **Genealogy East SIG** *Vermont South* *1pm - 3:30pm*	**20** **Mornington Peninsula SIG** *General inc Q&A* *Mornington* *9:30am - 12noon* ---- *Family History* *Mornington* *1:30pm - 4:30pm* **Northern Suburbs Linux SIG** *Watsonia* *7:30pm – 9:30pm*	**21** Everything Apple SIG *Moorabbin* *2pm - 4pm*	**22** Video Production – Pinnacle SIG *Moorabbin* *10:00am – 12:30pm*	**23** **Sunbury Daytime SIG** *Maintenance & Linux (Fourth & fifth Thu of month)* *9:30am - 12noon*	**24** **Raspberry Pi - Mt Waverley SIG** *10am - 12noon* **Casey SIG** *Workshop* *Beaconsfield* *1pm - 3:30pm* **PC Update – Articles Deadline**	**25** Microcontroller Workshop SIG *Moorabbin* *12noon - 5pm*
26 Website Design SIG *Tutorials* *Moorabbin* *2pm - 4pm* ---- *Troubleshooting* *Moorabbin* *4pm - 6pm*	**27**	**28**	**29** **Mornington Peninsula SIG** *Family History – Advanced DNA (LAST Wed of month)* *Mornington* *2pm - 4pm.* **PC Update – Reports Deadline**	**30** **Sunbury Daytime SIG** *Maintenance & Linux (Fourth & fifth Thu of month)* *9:30am - 12noon*	**31**	**Have A Question** **Post it on Yammer** Yammer: http://yammer.com/melbpc.org.au/