

LAB LINES

OFFICIAL PUBLICATION OF THE LABORATORY TECHNICIANS' ASSOCIATION OF VICTORIA

Editor: Jenny Emery

Volume 44 | 2024 | Issue 4

Jean Stokes:
-looking back, moving forward

- Density Column
- Slime
- Regional PD Reports

GENERATIVE AI *for* LABORATORY OPERATIONS

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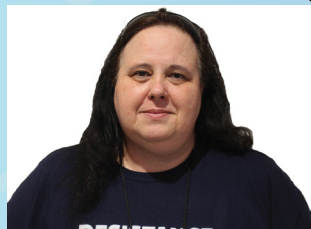
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PRESIDENTS' REPORT

Mary Jones



Hello everyone.

The year will be over by the time that you read this.

I wish to thank Andy Baful and Sheree Baker for serving on the committee, as both have decided to step down from committee.

They both were a tremendous help to our association.

I would also like to thank Jenny Emery for taking on the role of Lablines Editor when she was new to the committee.

Jenny has been a wonderful editor.

This year we celebrated Peter Hill's contributions to our association as he was the recipient of the Suzannah Larratt award.

If you know Peter, you will know he is continuously trying to help everyone on the list, as well as contributing within his local region.

I wish you all a good holiday break and hope you are reading this refreshed and ready to face a new year.

Mary
LTAV President

FROM THE 2023-24 EDITOR

Jenny Emery



Happy New Year!

While this might be the final issue for 2024, due to logistics, it won't reach you until 2025.

It has been an absolute joy serving as your LabLines Editor for the past 2 years. However, I felt it was time to step aside and make room for someone with fresh perspectives and creative ideas (and software expertise) to guide our beloved publication into the future.

We have received a serious expression of interest but the details cannot be confirmed until it's gone through the official procedure. Meanwhile I will act as Editor until a handover occurs.

On another note, those who missed the LabCon 2024 Dinner missed an inspiring speech by our Founding President, Jean Stokes.

Fortunately, I've secured a copy of her speech to share in this issue. It's a fitting tribute to the visionaries who laid the foundation for our association to build a future where Lab Technicians in Education are supported, trained, and recognised. I hope it inspires you as much as it did me.

As usual... for submissions or suggestions for future Lablines editions, please email your text files (Word, email, or PDF) and photo files (JPG or PNG) with an appropriate subject line to:

lablines@ltav.org.au

Your contributions shape LabLines into the informative magazine it is – created by technicians, for technicians.

Jenny, LTAV Lablines Editor 2023-2024



PRINCIPLES and PRACTICE

Some things I can fix,
others I can't.



But I am very likely
to give it a try!

Email: harvey@principlespractice.com.au, Phone: 0459 768 392

Lablines 2025 Submission Deadlines:

Issue #1 : 15 March

Issue #2 : 15 June (tbc)

Issue #3 : 25 August (tbc)

Issue #4 : 25 November (tbc)

Please be aware that content capacity may be reached before these dates

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Jean Stokes

Jean Stokes, our founding president, recognised for her service to the Association as the recipient of the 2023 Susannah Larratt Award, delivered an inspiring speech at our recent LABCON event. For those who missed it, here is her speech in full, capturing her journey and vision for the future:

"I would like you to join me on a journey that started in 1980 when 5 school laboratory technicians met for the first time quite by chance at Swinburne College of TAFE. We had all come from different laboratory backgrounds into school labs. We were curious about the 'Certificate of Applied Science' course offered at Swinburne and wanted to know if they had included subjects specifically for school lab technicians.

We met John Scott and Carlo de Martinis who were running the course. They understood our needs and John in particular, who had many contacts, set out to help us. He contacted STAV the Science Teachers Association of Victoria, who allowed us to become the Lab Technician branch of STAV... a start which gave us recognition as a professional organisation exactly what we wanted to be, not "dishwashers!"

Now what? Where do we go? What do we do? No money, no emails in 1980, no mobile phones, no text messages. How do we contact all the lab technicians in the state? The country lab technicians were feeling isolated.

STAV had a newsletter for science teachers "LAB TALK". We had a column in Lab Talk but we needed our own newsletter for technicians... LABLINES. STAV got us a category B registration from the GPO to publish our own newsletter. They also paid for the printing and postal distribution. But who would be interested? Where do we send it?

The answer was a trip to different parts of country Victoria as far as Mildura. We had no satnav. I told my husband what I intended to do and his comment was 'you can't go alone you'll get lost. I'll come with you.' I'm glad he did because I'm quite sure with him driving I know I got there much quicker.

This time of acceptance offered us many opportunities which we used to our advantage and growth:-

- Publication of LabLines
- STAV council representative (first lab technician to be on STAV Council)
- STAV workshop - invited to participate
- Our own workshop comprising of two one-day workshops, for which we had 180 applicants for 60 places and which showed the need for these activities
- Publications in the form of three handbooks
- Regional representatives - there were many who worked hard to achieve the help we needed in their areas

I will always be grateful to these people for helping us to get established. In 1983 we had 459 registered members. During my four year term in office we achieved our aims of:

1. Making a register of all school (college) Laboratory Technicians in Victoria
2. Help establish and maintain regional Laboratory Technicians groups



3. Ensure a regular supply of articles for the Laboratory Technicians column in Labtalk
4. Establish an information network throughout the state
5. Establish a regular newsletter for members of the Branch
6. Foster suitable training of, or assistance for, Laboratory Technicians

I would like to thank all the Past Presidents and Committee members who worked alongside me to achieve this. It was a long slow process but together we got there (eventually).

I also appreciate the efforts of all Presidents and Committee members that have followed us and maintained our high standards. Because of them you are still a well-known and successful organisation.

Now it is time for me to say goodbye my journey with you is over.

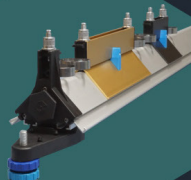
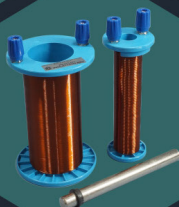
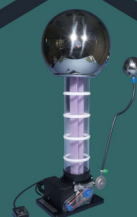
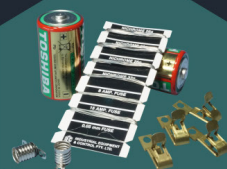
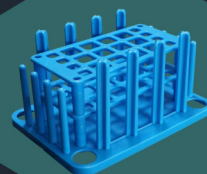
As your first President, I have one last request to make of you.

I have watched you grow from an idea in 1980 to what you are today - 44 years - but to continue this growth I am appealing to you younger members to join the Committee. Science changes so quickly some schools are teaching 3-D printing. We need your help to steer us through the 21st century. This is what happened when we first started. We allowed new lab technicians with new ideas to guide us into the future.

To your present long-standing Committee members, I am asking you to help them. You might feel you want to step down and give someone else your place, but I can assure you that you will never be forgotten and you can, as I have done, watch this organisation grow.

I thank you for inviting me and best wishes for your future progress."

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Generative AI for Laboratory Operations

by Dr Aneela Yasmin, Lab Manager & STEAM Specialist, East Preston Islamic College

In today’s world of technological advancements, Generative AI (GenAI) is a game changer. It has the potential to revolutionise lab operations, enabling technicians and researchers to achieve more with less effort.

This article begins a series designed to help lab personnel harness GenAI’s power while becoming skilled and critical users of the technology in daily tasks with ethical considerations.

Generative AI refers to a class of artificial intelligence models that can generate new data, content, or solutions based on input it has been trained on.

The most common examples of GenAI include models like ChatGPT, Claude, Copilot and Gemini, which can generate text, code, and even support tasks such as data analysis.

Here are some important features and limitations of these GenAI(s).

GenAI Tools	ChatGPT 	Claude 	Copilot 	Gemini 
Key Features	Text generation File attachment (Paid) Image generation (Paid) GPTs (Paid)	Text generation File attachment Process visual inputs Focus on ethics and safety	Multimodal inputs (text, images, and audio) Image generation (free) Data analysis Web connection	Multimodal inputs (text, images, and audio) Image generation (free) Data analysis Web connection
Best for	Basic writing tasks Language translations Writing code	Working with files and visuals Creating interactive elements Sophisticated writing tasks	Working with Microsoft tools Data analysis with Excel	Complex reasoning tasks Working with Google tools (Gmail, Docs, YouTube, etc.)
Limitations	Generic writing style Limited functionality (Free plan) No internet access (Free plan)	Usage limitations (30 messages/day on free plan) No image generation No internet access	No document uploads on free version	Limited image generation (no people)
Cost	Free or about \$ 20/ month			

Table 1: Important Characteristics of the Generative AI Tools for Laboratory Operations.

Figure 1 below outlines several key tasks in a laboratory that can be easily automated using AI tools. In the upcoming articles, we’ll dive deeper into crafting effective prompts for various lab tasks, from administrative to self-care as shown in the figure.

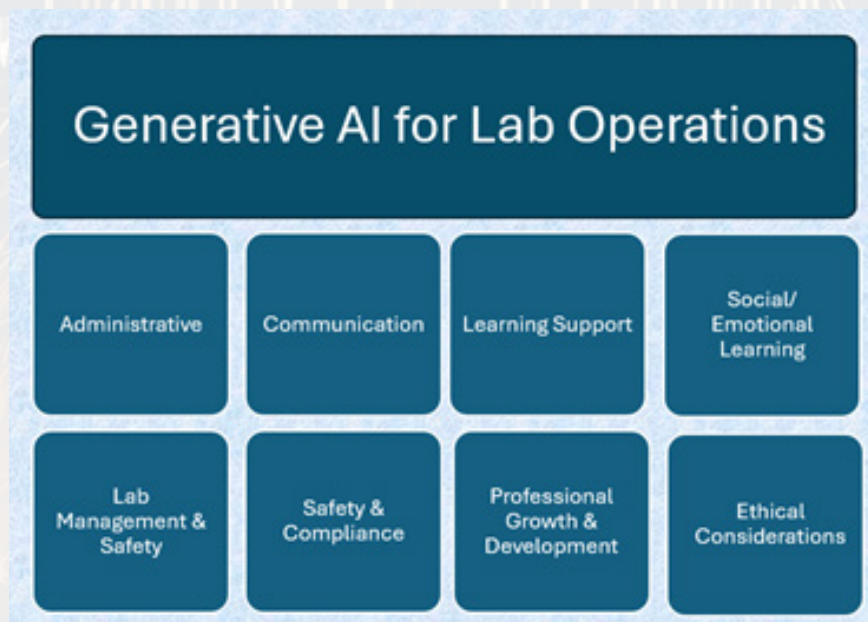


Figure 1: Application of performed in a Laboratory.

GenAI in different tasks

GenAI functions like a highly advanced conversation partner. You type a question or request—called a *prompt*—and it responds based on its training from vast amounts of data. The more specific and clear your prompt, the better and more useful the response. This is why prompt engineering is crucial. By understanding the prompting, lab personnel can significantly boost productivity, accuracy, and even innovation in their everyday tasks. Here's an example of a prompt with successive components to help you understand how to write a good prompt:

"Imagine you are an experienced lab technician in a high school science lab. Explain the procedure for safely setting up a Bunsen burner to a new staff member who has limited experience. Provide a formal yet approachable explanation in three well-developed paragraphs, clearly and thoroughly. Make sure to use simple language and avoid technical jargon."

Components Breakdown:

1. **Role or Identity:** "Imagine you are an experienced lab technician in a high school science lab."
2. **Target Audience:** "Explain the procedure for safely setting up a Bunsen burner to a new staff member who has limited experience."
3. **Tone:** "Provide a formal yet approachable explanation."
4. **Length:** "In three well-developed paragraphs."
5. **Depth & Detail:** "Explain the procedure clearly and thoroughly."
6. **Language:** "Use simple language and avoid technical jargon."

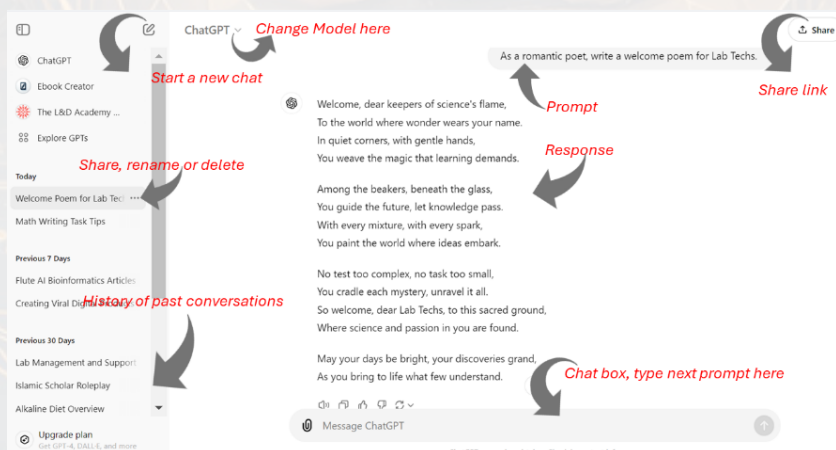


Figure 2: Features of ChatGPT interface.

While Generative AI offers powerful benefits, it also raises important ethical concerns, particularly in a scientific setting. Issues like data privacy, the accuracy of AI-generated information, and the risk of over-reliance on AI must be carefully managed.

Integrating Generative AI into lab operations is about more than adopting the latest technology; it's about enabling lab personnel to work smarter, not harder. AI literacy provides the knowledge and skills needed to use AI responsibly and effectively.

As AI evolves, its role in lab operations will grow, making AI literacy a crucial skill for the future of lab work. By adopting these tools now, lab personnel can stay ahead of the curve and keep their operations cutting-edge.

References:

<https://www.aiforeducation.io/ai-resources/chatbot-cheatsheet>
<https://chatgpt.com/>
<https://learn.microsoft.com/en-us/training/paths/ai-education/>
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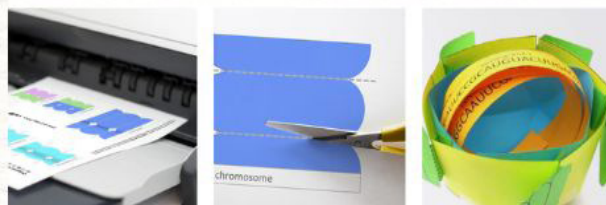
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HINTS & HACKS LAB

DENSITY COLUMN - THE GOLF BALL FLOAT

- Peter Hill, Penleigh & Essendon Grammar School

A density activity that can be done as a practical or demonstration.

Equipment:

Rock salt or cooking salt. (500 g)
Golf ball (preferably coloured)
Empty plastic tennis ball container
Tap water
Magic blue fluid (Tap water with blue food dye added - 500 ml)

Method:

Add salt to the container to a depth of 6 cm
Add the golf ball.

Density column is - Solid salt, golf ball then air

Add tap water to half fill the container.

Place lid on the container and vigorously shake to dissolve some of the salt.

(Be careful not to make a mess.

Allow to settle.

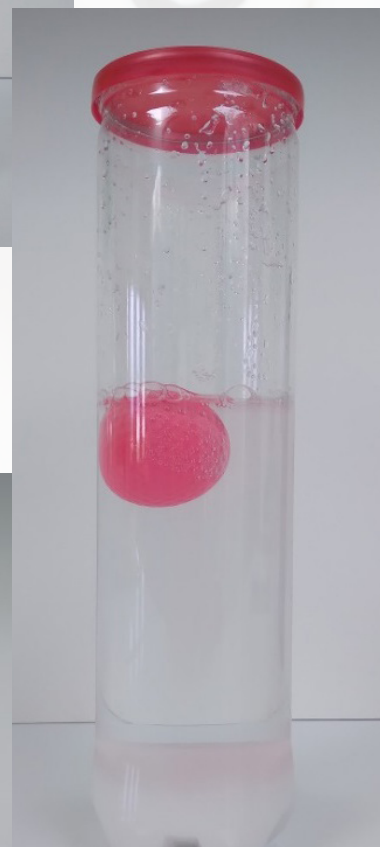
Density column is now - Solid salt, salt water, golf ball then air

Remove the lid from the container.
Tilt the container to the side and carefully pour in the Magic blue fluid to a depth of 6 cm, trying to avoid the blue fluid and salt water mixing.

Density column is now - Solid salt, salt water, golf ball, Magic blue fluid and then air

Do a trial run before using in class.

For a video and explanation, visit:
<https://www.flinnsci.com/golf-ball-float-lab2/vel1307/>



Year 7 Investigations at Horsham College

- submitted by Jodie Pignataro, Science Laboratory Manager, Horsham College

As a scientific poster is a requirement at VCE for science, we start students doing these in Year 7. Individual investigations are loosely interpreted at Year 7, depending on the class.

We begin with a practical that has six stations of mini-pracs for students to try. This is followed by a class investigation. Then, students come up with their own ideas to investigate.

This year, we have seven Year 7 classes, including three SEALP (Select-Entry Accelerated Learning Program) classes. Some classes need more guidance than others. In some mainstream classes, students could only choose from the six mini-investigations, while in another, the teacher decided on the investigation. One SEALP class was given four investigation options—we aim to include Psychology, Physics, Chemistry, and Biology topics.

For the remaining three classes (two SEALP and one mainstream), one SEALP class has not shared their approach yet. The other two, taught by the same teacher, produced the photos accompanying this. The mainstream class explored topics like reaction time, solubility of different sugars, salt solubility in various solvents, rotocopters, and how salinity affects germination. The SEALP class investigated these and more, such as the best slime, slime stretchability, netball shooting styles, diet soft drink's reaction with Mentos, temperature's effect on Mentos reactions, music's effect on reaction time, and how taste is influenced by sight or smell. They also explored solutions to prevent apples from browning.

Regardless of the investigation, all students are required to produce a scientific poster. At Year 7, they use a booklet to record their findings, which they transfer to a scaffolded poster template. Each poster includes a table and a graph. This method provides a strong introduction to scientific posters, preparing students for VCE.

For the netball shooting investigation, students tested underarm, one-handed overarm, and two-handed overarm styles.



The Mentos experiment faced initial challenges, as students doubted the suggested method. Once they tried it, the results were spectacular.



The slime experiments focused on adding shaving cream. Students found that while shaving cream made slime silkier, it reduced elasticity. (Slime recipes and science appear at the end of this article.)



The apple experiment is ongoing as of this writing, while the effect of music on reaction time results were interesting.



Can music change your reaction time	
No music	10cm, 12cm, 8cm Avg = 10cm
Classical	27cm, 18cm, 10cm Avg = 18.33cm
Rap	11cm, 10cm, 1cm Avg = 7.33cm
Hip-Hop	11cm, 12cm, 11cm Avg = 11.33cm
Pop	13cm, 5cm, 100cm Avg = 41.33cm
Jazz	26cm, 17cm, 41cm Avg = 28cm
Opera	

These varied experiments provide a solid foundation for VCE science.

PSYLLIUM SLIME

EQUIPMENT:

Psyllium Husk Powder (From Supermarket)
Plastic bowl
Stirring Stick
Resealable bag
Plastic disposable spoon
Hot water
Food colouring and Glitter
Measuring cylinder

METHOD:

Pour 100ml of warm water into resealable bag. Add your choice of food colouring and glitter.

Add the husks a little at a time while stirring with spoon or hands with bag sealed until you get the desired consistency.

Usually, you will need about 1-2 tablespoons of husk. If the slime is too stiff, add a little bit more water, but not too much.

THE SCIENCE:

Psyllium is the common name for a plant harvested specifically for its seeds. The seed's coat, or husk, contains a large amount of a hydrophilic (water loving) substance called mucilage. When mixed with water, this chemical turns into a translucent, colourless gel. Using hot water simply helps speed up the process.

Mucilage belongs to a group of chemicals called 'exopolysaccharides'. This big word refers to long strings of sugar that are secreted outside the organism. Plants usually make mucilage as a way to store food and water, and it is commonly found in cacti and other succulents, such as the vegetable 'okra'.

CORNFLOUR SLIME

EQUIPMENT:

Cornflour | Food colouring | Small disposable bowl | Plastic spoon | Icy pole stick for stirring | Water

METHOD:

Put 2 spoons of cornflour into a mixing bowl. Stir in small amounts of water until the cornflour has become a very thick paste. To make the slime the colour of your choice, thoroughly stir about five drops of food colouring into the mixture. Stir your slime REALLY slowly. This shouldn't be hard to do.

Stir your slime REALLY fast. This should be almost impossible.

Now punch your slime REALLY hard and fast. It should feel like you're punching a solid.

You can keep your cornflour and water mixture covered in a fridge for several days. If the cornflour settles, you need to stir it to make it work well again.

THE SCIENCE:

Fluids, such as gases and liquids, are substances that flow. Some, like water, flow easily due to low viscosity, while others, like cold honey, are thicker and have high viscosity.

Cornflour slime behaves uniquely; when pressure is applied, it thickens and feels solid. This makes it a shear-thickening fluid. In contrast, shear-thinning fluids like toothpaste get runnier when stirred or squeezed—thick enough to stay on a brush, yet flowing easily out of the tube. Blood, paint, ink, and nail polish are other examples of shear-thinning fluids.

Despite their common presence, the atomic interactions behind these properties remain poorly understood, presenting challenges even for supercomputers and complicating the design of equipment using these materials.

INTERESTED IN LAB TECH RELIEVING WORK?

Maybe you are part-time, or retired, and would like a bit of extra lab time?

If so, please put your name on the LTAV Relievers List! You get to specify how far you would like to travel and what days you are available. If a school needs someone and you fit the criteria, they will then contact you.

If this sound like you, or someone you know, please email Maeve, LTAV Relievers List Officer:

relievers-list@ltav.org.au

or for more information, visit:

<https://ltav.org.au/relief-laboratory-technicians/>

(or scan the QR Code >>>)



RIDDLE-ME-THIS

1. What has a head, a tail, is brown, and has no legs?

2. What has cities but no houses; forests but no trees; and rivers but no water?



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SCIENCE WEEK 2024 at Horsham College

- submitted by Jodie Pignataro, Science Laboratory Manager, Horsham College

Science Week at Horsham College was very disappointing this year. We had lunchtime activities organised, a photography competition and an in-class activity.

The in-class activity was Analysing Whale Snot, which multiple classes did. Year 7 just analysed just the 'snot' from a healthy 'whale', but other classes also had a not so healthy 'whale'. The year 7s were fascinated about how I obtained the 'whale snot' and most of their teachers said that I went out on the weekend and found a whale! I very politely asked for some snot, and it was happy to oblige.

We did get a few entries in the photography competition as the photography teacher made it an assessment task.

Monday, we had a scavenger hunt, and students had to go around the school and find the posters we put up. They then needed to identify the camouflaged animal in the poster. Maybe ½ dozen students got involved.

Tuesday, we did a 'Biodiversity Curiosity Room'. The room consisted of sensory boxes, (boxes with just a hole for your hand to work out what was inside), identify the animal from its skeleton, try to organise the photos from the electron microscope into animal, plant or mineral, using an app on the iPad to look at body systems with the virtual tee shirt and microscopes with water creatures we had cultured for the day. We had a whole 2 students venture in to have a look. We did have grade 6s visiting and I managed to get some of these students to come and look as I promised they could meet Newton, our bearded dragon.

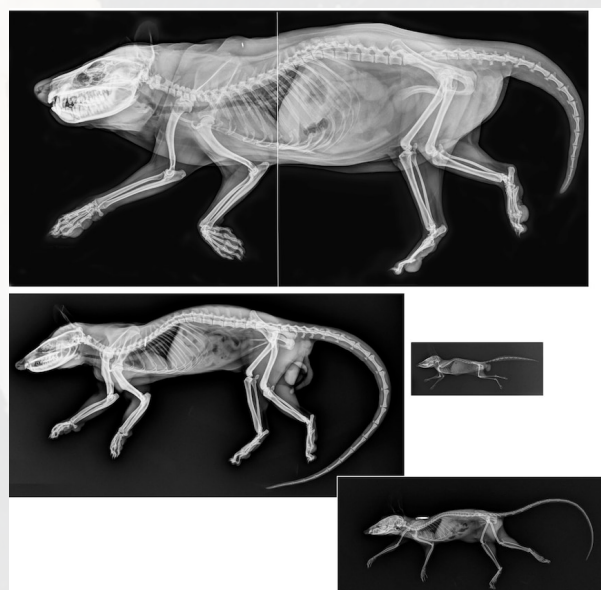
Wednesday, student free day!

Thursday, we had two things going on. We ran the first half of David Attenborough's Life on our Earth in the auditorium. We even had popcorn on offer, but exactly 0 students, so we decided to scrap the second half on the Friday.

We also had a session on making your own Insect Hotel from recycled and natural items (see next page for detailed instructions). I collected lots of pine-cones, banksia pods, water reeds, bark, gum nuts and so on. We recycled tins, large PVC pipe, pots and plastic bottles. We had 4 students come and do this.

Next year I'm sticking to in-class activities only! It was a lot of work for very little engagement.

Can you identify these two Australian animals from their skeleton or x-rays? (Answers page 23).



Build an Insect Hotel

Step 1:

Select a frame for your hotel

- Plastic bottle
- Tin can
- PVC pipe
- Plant pot

Step 2:

Attach string in a way that will allow you to hang your 'hotel' in your garden.

Step 3:

Pack your frame using a mixture of natural materials. Select from:

- Gum nuts
- Pine cones,
- Dried plant leaves
- Water reeds
- Banksia cone
- Bark
- Sticks

Your goal is to create small spaces where insects can hide or nest

Step 4:

Test if your hotel can withstand gentle swaying from the wind. If you need to secure your structure, a glue gun can be used to hold materials in place

What is the Science?

Insects play an important role in all ecosystems. By encouraging insects to your garden you are welcoming the critters that help to pollinate plants as well as provide food for larger organisms. This helps to increase the biodiversity around us.



Insect Hotel, Lost Gardens of Heligan, Cornwall

Image by MartinV CC BY-SA 4.0 <https://commons.wikimedia.org/w/index.php?curid=88179582>

WIMMERA REGION PD

held 17 October 2024 @ Horsham College

Report by Jodie Pignataro

The Wimmera Lab Tech PD was off to a bit of a sticky start with the new Child Safe rules as everyone had to supply their WWCC number. So, there was a bit of scrambling for some to find these. A lesson for next year as I will ensure I have them all before the day. Anyway, once that was sorted, the day started with morning tea and a general hello and catch-up chat.

The first presenter was a physics teacher from Horsham College. Peter loves the Van De Graaf and will take any excuse to use it. He gave us a demonstration and showed us how it worked while having a giggle at us. He also demonstrated ways it could be used in the classroom and explained how it all worked and how to deliver that information to students.



Peter then explained to us how gravity is not a force, it is an acceleration. The force on a falling object is due to gravity, but gravity itself is not a force. He wants this concept taught at year 7 when generally force and energy are taught. This is one of his pet peeves at senior physics. As Horsham College has science elective from year 8 it is possible for a student to get to VCE physics with very little physics depending on the electives chosen. (Or rather the electives that fit their timetable).

Just as Peter was finishing his presentation William and Oakley from Westlab arrived. Before they could start their presentation Peter grabbed them as fresh suckers, I mean fresh subjects, so he could yet again play with the Van De Graaf. I don't think William and Oakley knew what hit them.

William and Oakley presented Westlab's Innovations & New Equipment Insight Session and balance Calibration. They showed some new equipment and showed us how to calibrate their balances. They also explained about their Reward Points Program. We gave them some feedback on how the smaller rural schools worked with our ordering systems.

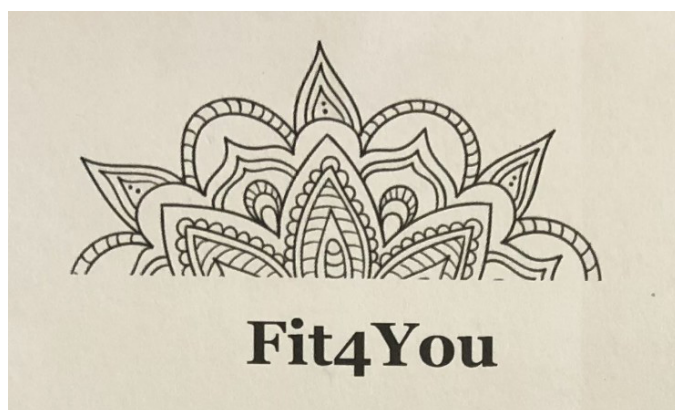


Next we moved onto lunch. I would like to thank my youngest and my mother as they catered. My caterer fell through during the holidays, so my family pitched in to help. As usual the brownies were superb and the chicken pies were brilliant.

We all went for a quick tour of the Horsham Science labs as there were a few newbies that hadn't been there before. After returning from the very quick tour we discussed the usual. Experiments, issues working isolated, OHS, chemical safety, LTAV membership and much more.

The final thing on the agenda was a wellness session. I had Pam from Fit4You come and she led us in some meditation, yoga and exercises to relax and stretch your muscles after a busy day. She also showed us some exercises we could do at our desks.

Unfortunately I was so busy doing the exercises I forgot to take any photos, so you will need to use your imagination while staring at the logo!



NORTH & NORTH WEST METRO PD

held 16 September 2024

Report by Mary Jones

On September 16th, our region had a short half day PD from 1:30pm to 4pm.

Andy and I opened our regional meeting by asking everyone to introduce themselves because some were new members coming for the first time. It is one of the rare opportunities we get to network and learn who might work in a neighboring school.

During our regional meeting we asked what types of PD and what do our members want to do for PD in our region that would benefit them the most. Several posed questions that we will investigate how to provide what they are requesting.

Andy and I slightly altered our original agenda, as we were fortunate enough to get Amanda Lovatt from Modern Teaching Aids to join us on the day. Amanda demonstrated some of the physics equipment that she was using in her presentation at LABCON for us and answered questions about products from attendees.

Then we moved on to the session on Excel tips and tricks that I had prepared for our region. This was followed with a tour of Keilor Downs Science Department, including the classrooms to wrap up the day.

SUNRAYSIA LAB TECH PD

held 29 October 2025 @ Red Cliffs Secondary College

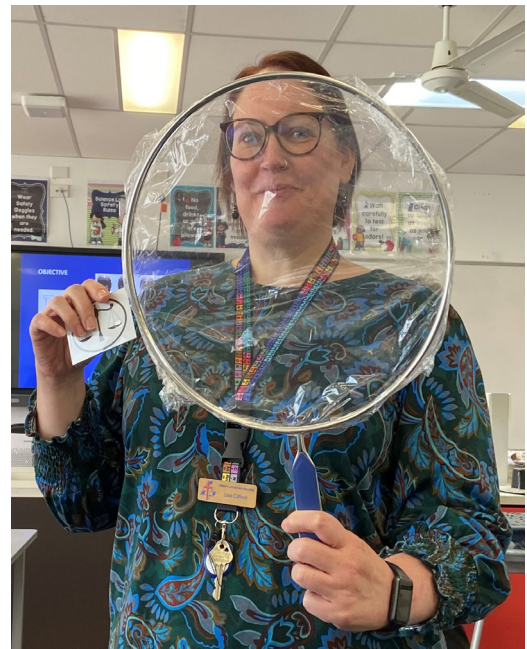
Report by Sam Armstrong

Due to covid, staff changes, and a few years of not having a regional rep, this was the first time most of us had met in person. Though only 4 of us were able to attend this time we still had loads of fun. After a chance to chat and get to know each other we had a quick tour around the science building and garden, before getting stuck into our session with Harvey Edwards from Principles and Practice.

Harvey broke the ice with a song about the Parts of the Microscope, followed by turning us into a giant microscope using fun costumes that could easily be used with junior students in the classroom. Knowing now about how the light from the light source passes through iris, condenser, slide, objective lens, prism and eyepiece, Harvey took us through a hands-on lesson in checking the microscopes for electrical issues like damaged cords. We then worked our way up from the bottom and checked for mechanical issues like loose or stiff parts. And finally cleaned the lenses and checked the optics.

I think we all have a much better understanding now of how to keep our school microscopes in good working order for many years to come.

Thanks go to Harvey for his valuable presentation, his fascinating stories and the many microscopes, multi-meters, power supplies and other lab equipment he fixed while in the area. Its not always easy to get service providers to come up to the northern most tip of Victoria, but Harvey was very obliging and does an excellent job.





MEMBERSHIP APPLICATION



2025 LTAV Membership DUE by 30 April

Renew your membership online - scan the QR Code, or visit ltav.org.au
Any questions, please email the Membership Officer, Simone:
membership@ltav.org.au

Membership is open to laboratory technical staff (including retired technicians) in all levels of educational institutions in Victoria. Membership is a calendar year – January 1st to December 31st regardless of when the membership fee is paid. To ensure you receive your copies of the 2025 issues of Lablines, we recommend you renew your membership by the above due date.

MEMBER DIRECTORY



LTAV Member Directory!

Please check your entry in the member directory and correct any errors. This "Phone Book" helps you find lab techs and schools in your region without needing to send a LIST message. Please remember, that the information here is visible to anyone with the link, so avoid sharing personal details like private emails and phone numbers. Also, do not share this link outside of lab tech community. Participation is voluntary, and you're responsible for updating your own information. This list is not for commercial use.

Use the QCode or visit: <https://tinyurl.com/4789zyyf>

LTAV POLICIES PAGE



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LTAV PUBLICATIONS



LTAV SHOP

Three laboratory reference manuals and a conference USB are available for purchase from LTAV:

1. Chemistry Reference Manual + USB, 2008.
2. Biology Reference Manual + USB, 2013.
3. Physics Reference Manual + USB, 2013.
4. Laboratory Management Databases Conference USB, V2, 2009, by L.Geoff Gleadall, Dip.App.Sci.

ltav.org.au/shop/

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ANSWERS:

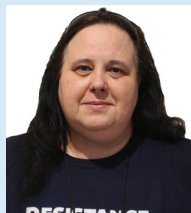
Riddle Me This Answers (p15): 1. A Penny | 2. A Map

Guess The Animal Answers (p17): Left: Platypus | Right: Tasmanian Tiger

Thanks for playing! If you have a riddle or puzzle or an original joke you'd like to share in LabLines, please email it to The Editor!

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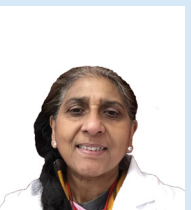
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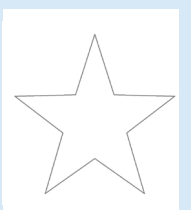
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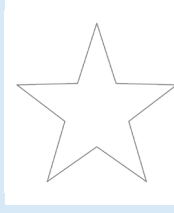
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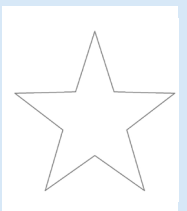
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Please feel free to contact any member of your committee with any queries or concerns. Members are always welcome at committee meetings. Please contact the Secretary to confirm time and location of next meeting if you wish to attend. 2025 MEETING DATES: TBC