



Laboratory Technicians'
Association of Victoria

LABCON2022



**10 & 11
NOVEMBER
2022**

**CROWN
PROMENADE**
8 Whiteman Street,
Southbank

**BRINGING
EXCELLENCE
TO SCIENCE
EDUCATION**

The Conference specifically for Laboratory Technicians

**REGISTRATION
NOW OPEN**

WHY YOU SHOULD ATTEND LABCON2022

LABCON 2022 enables you to hear from two keynote speakers, select at least 6 workshops to attend and see the latest equipment and tools available to lab techs.

- Meet with colleagues to discuss all the issues that are an everyday part of your profession
- Get to know your suppliers by visiting the various displays whilst at LABCON
- Enjoy the chance to socialise with colleagues during the catering breaks
- Attend the Conference dinner on Thursday evening

REGISTRATION INFORMATION

HOW TO REGISTER

Register ONLINE www.ltav.org.au POST or SCAN the form and EMAIL to pcs@cogroup.com.au complete all sections of the form. This includes your details, telephone, email, workshop selection - ensure you provide more than one choice as workshops book out very quickly.

REGISTRATION PAYMENT

You can pay in one of three ways:

1. Provide a **School Purchase Order Number** on your registration form.
2. **Cheque** - must be made payable to Laboratory Technicians Association of Victoria.
3. **EFT Direct Debit** into the LTAV Account. Bank: Commonwealth Bank of Australia, Warragul, BSB: 063 532 Account Number: 10401068 Account Name: Laboratory Technicians Association of Victoria Inc. **Note: To enable us to identify your payment if paying via EFT it is IMPORTANT that you email your EFT advice to pcs@cogroup.com.au**

SUBMIT YOUR REGISTRATION

Online - www.ltav.org.au

Email - pcs@cogroup.com.au

Post - PO Box 208, Lynbrook VIC 3975

ACCOMMODATION

Book early as space is limited.

Crown Promenade, 8 Whiteman Street, Southbank.

\$220 room only - single/twin or double. Breakfast is \$25pp Thursday and Friday; \$33 pp on Saturday (on consumption - this is an additional cost).

Accommodation at the Conference venue makes everything so much easier.

CONFERENCE DINNER

The dinner this year will be held at **Crown Towers** in the **Garden Room**.

Attendance at the Conference Dinner on Thursday evening is complimentary for workshop presenters who have pre-registered.

Please consider attending the dinner as it really is a great opportunity to network with colleagues and friends - a great night is usually had by all.

CANCELLATION POLICY

All cancellations must be made in writing to the Conference Secretariat. Cancellations received prior to the registration deadline of 15 October 2022 will receive a refund less an

administration fee of \$100. No refund will be given after this date; however, an alternative delegate name may be submitted. You may wish to take out **insurance** to cover forced cancellation.

CONFERENCE SECRETARIAT

Marg Scarlett, LABCON Conference Manager
Tel: 0419 805 362 • Email: pcs@cogroup.com.au
Mail: LABCON Conference Secretariat,
PO Box 208, Lynbrook VIC 3975

CONFERENCE VENUE

Crown Promenade, 8 Whiteman Street, Southbank
Ph: 03 9292 6688

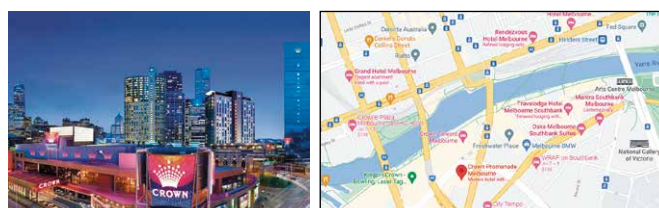
Stylish and welcoming, Crown Promenade Melbourne's contemporary guest rooms are all furnished in natural tones and feature floor to ceiling windows offering beautiful city views of Melbourne. Crown Promenade Melbourne is a fully non-smoking hotel and is the ideal accommodation for families, couples and business travellers alike with its central Southbank location and close proximity to the Crown Melbourne entertainment complex. Crown Promenade Hotel offers spacious rooms with views of Port Phillip Bay or the city and Yarra River. Guests have access to a restaurant, bar, indoor swimming pool and fitness centre. Each room at Crown Promenade Melbourne includes a luxury en suite bathroom, 42-inch flat-screen TV with cable channels and a minibar. High-speed Wi-Fi access is available. Guests can work out in the fully-equipped fitness centre or relax beside the indoor swimming pool with views of the city skyline. Steam rooms and a masseuse are also available. Mesh Restaurant offers stylish modern cuisine in elegant surroundings. Tonic Bar has an outdoor terrace and serves cocktails until late. Located in Melbourne's vibrant Southbank entertainment precinct, Crown Promenade is directly linked to the Crown Casino and Entertainment Complex, offering world-class restaurants, bars and shopping.

HOW TO GET TO THERE

Public transport is recommended as Crown Promenade is within walking distance from either Southern Cross Station or Flinders Street Station.

PARKING AT CROWN

Valet parking: from \$65 per day. Multi-level parking: \$18 per day.



Google Maps

INVITATION FROM THE PRESIDENT TO ATTEND LABCON2022

Welcome to LABCON 2022.

The last couple of years have been hard on us all, and even harder when we have no chance of seeing our colleagues face to face.

We are back and while we are a little restricted due to the nature of the venue things will be back to normal and we can look forward to interesting keynote speakers, A wide range of PD sessions, exhibits by trade suppliers and, the chance to put faces to the names.

Let us not forget the AGM where you have a chance to shape the direction of the association (you have to be a member to vote).

We also have on the evening of the first day the conference dinner which is always a memorable experience.

So, welcome to LABCON and I look forward to seeing you all.

Geoff Gleadall
President, LTAV (Inc.)



KEYNOTE SPEAKERS

Thursday 10 November 2022
9.00-10.00am

Dr Fabienne Reisen

Team leader
Multi-Phase Atmospheric Chemistry
CSIRO



'Air quality and smoke'

Dr Fabienne Reisen is a principal atmospheric research scientist in the Climate Science Centre of CSIRO Oceans and Atmosphere who specialises in biomass burning emissions. Her research investigates the chemical composition of smoke plumes and how these impact air quality and public health.

LTAV Members receive a discounted registration.

Please check the status of your membership BEFORE you register at the Members rate.

Friday 11 November 2022
9.15-10.15am

Dr Rachel Law

Group Leader
CSIRO



'The contribution of atmospheric composition measurements and climate modelling to international climate agreements'

Dr Rachel Law leads the 'Modelling the Earth System' group in the Climate Science Centre. The group comprises four teams with skills in coupled climate modelling, data assimilation,

land surface modelling, Australian and global carbon assessments, integrated assessment modelling and micrometeorology. A major focus for the group is developing and running two versions of the ACCESS model for participation in the World Climate Research Programme's Coupled Modelling Intercomparison Project (CMIP6).

Rachel helps to coordinate land surface and climate model development across the Australian research community. She was previously coordinator of the CABLE land surface model management committee and is a member of the Australian Community Climate and Earth System Simulator (ACCESS) Scientific Advisory Committee.

Rachel's research interests include:

- using ACCESS experiments to explore future climate and interactions with the carbon cycle.
- interpreting the atmospheric measurements of greenhouse gases, primarily carbon dioxide, to better understand where anthropogenic carbon is taken up by the land biosphere and oceans

Thursday 10 November 2022

7.30am	Registration		Lobby Level 1
8.45am - 9.00am	Conference Opening Day One Geoff Gleadall, President LTAV		Promenade 1
9.00am - 10.00am	KEYNOTE SPEAKER Dr Fabienne Riesen CSIRO <i>Air Quality and Smoke</i> Smoke emitted from bushfires and prescribed burns contributes to poor air quality and is harmful to human health. For example, during the black summer bushfires of 2019/20, over 10 million people were exposed to hazardous concentrations of fine particles from the bushfire smoke. Smoke forecasts can be used to manage and mitigate the impacts of air pollution by providing regulatory authorities with the information they need to develop warnings and provide advice to the public on actions they can take to reduce their exposure to smoke. In this presentation, Dr Riesen will describe the development of such a smoke forecasting system for Australia and show some examples of how the system has performed.		
10.00am - 10.30am	ANNUAL GENERAL MEETING Geoff Gleadall, President, LTAV		
10.30am - 11.00am	Morning Tea and Exhibition		Lobby Level 1
11.00am - 12.15pm	Concurrent workshops		Various Rooms
T1	Promenade 1	T2	Promenade 2
3D Printing James Cutting Southern Cross Grammar		Van De Graf Generators - Their Care and Feeding Harvey Edwards, Principles and Practice	
T3	Promenade 3	T4	Meeting Room 1
Biology Pracs Made Easy Erika Trickett John Monash Science School		Don't Bully Us! Brian Martin & Rose Tomassini Big B Personal and Workplace Solutions	
T5	Meeting Room 2	T6	Meeting Room 3
Understanding Risk Assess and Using it Effectively Philip & Eva Crisp Ecosolve Australia		Mushrooms in the Classroom Ellen Clarke Kew High School	
T7	Meeting Room 4	T8	Meeting Room 6
Chemical Management for the School Laboratory Michael Pola Envirostore Chemical Consulting		Risk Assess Fundamentals Geoff Gleadall President, LTAV	
T9	Meeting Room 7	T10	Meeting Room 8
The Science of US - Measuring Humans using Data Loggers Stuart Lewis Scientrific Pty Ltd		Virtual Geology and More! Philip Sansom Teacher Earth Science Education Programme	
T11	Meeting Room 9	T12	Meeting Room 10
Resolving the Mystery with Gel Electrophoresis Radhika Iyer Mullauna College		My You Tube Chemistry Top Ten Jeff Hughes RMIT University	
12.15pm - 1.15pm	Lunch and Exhibition		Lobby Level 1
1.15pm - 2.30pm	Concurrent workshops		Various Rooms
T13	Promenade 1	T14	Promenade 2
Introduction to ROQED - Immersive, interactive 3D educational simulations and exercises Doug Bail Cider House Tech Pty Ltd		Indoor Air Quality-Infectious Risk and Scrubbers Brett Cole Biosafety Pty Ltd	
T15	Promenade 3	T16	Meeting Room 1
Making Videos of Science Practicals Dale Carroll The Geelong College		Levers and Dinosaurs Peter Razos Caulfield Grammar School	
T17	Meeting Room 2	T18	Meeting Room 3
Reading Rocks and Minerals: How to Make the Rock Cycle Exciting James Driscoll Monash University		Geology of the Earth's Energy Resources Peter Nisbet	
T19	Meeting Room 4	T20	Meeting Room 6
Chemical Waste Disposals for the School Laboratory Michael Pola Envirostore Chemical Consulting		Incorporating 3D printing and design into the Science prep lab Kerri Howell The Geelong College	
T21	Meeting Room 7	T22	Meeting Room 8
A Healthy Land Measuring the Environment with Data Logging Equipment Stuart Lewis Scientrific Pty Ltd		Rock Me and More! Philip Sansom Teacher Earth Science Education Programme	
T23	Meeting Room 9	T24	Meeting Room 10
A Journey into the Microbial World Radhika Iyer Mullauna College		My You Tube Chemistry Top Ten Jeff Hughes RMIT University	
2.30pm - 3.00pm	Afternoon Tea and Exhibition		Lobby Level 1
3.00pm - 4.15pm	Concurrent workshops		Various Rooms
T25	Promenade 1	T26	Promenade 2
Radiation Protection and Awareness in Australia - PANEL John Javorniczky & Ken Karipidis ARPANSA		Chill Me Out or Light Me Up Lynette Baker Assumption College Kilmore & Mary Jones, Keilor Downs College	
T27	Promenade 3	T28	Meeting Room 1
Care and Maintenance of PASCO GEAR Doug Bail Cider House Tech Pty Ltd		What really helped during remote learning and is helping now Peter Razos Caulfield Grammar School	
T29	Meeting Room 2	T30	Meeting Room 3
The Science of Plate Tectonics James Driscoll Monash University		What Rock is That? Peter Nisbet	
T31	Meeting Room 4	T32	Meeting Room 6
The Importance of Servicing Microscopes Rod Aggett Edu Supplies		How to Write Quality Risk Assessments for Chemicals and Chemical Experiments Lisa Stevens & Neale Jackson Lisa J Stevens & Associates	
T33	Meeting Room 7	T34	Meeting Room 8
Inquiry Approaches to Using Data Loggers in High School Chemistry Stuart Lewis Scientrific Pty Ltd		Data Logging in Physics - it's Fun & Easy! Amanda Lovett Modern Teaching Aids - MTA	
T35	Meeting Room 9	T36	Meeting Room 10
How to keep School laboratory organised - Beginners only (Tips & Techniques) Nish Sureshkumar Victoria University Secondary College		Engaging Science with Origami Models Daniela Migliorati Science Supply Australia & Marcia Rogerson St Mary's College	
4.15pm	Conference Close - Day One		
6.00pm - 10.00pm	CONFERENCE DINNER Sponsored by Modern Teaching Aids		Garden Room Crown Towers



Friday 11 November 2022

8.00am	Registration		Lobby, Level 1
9.00am - 9.15am	Conference Opening Day Two Geoff Gleadall, President, LTAV		Promenade 1
9.15am - 10.15am	<p>KEYNOTE SPEAKER Dr Rachel Law CSIRO</p> <p><i>The contribution of atmospheric composition measurements and climate modelling to international climate agreements</i></p> <p>The Paris Climate Agreement to limit global warming is underpinned by the Science Assessment Reports of the Intergovernmental Panel on Climate Change (IPCC). CSIRO contributes to the IPCC reports in many ways. This talk will highlight two areas of contribution, through our atmospheric composition observations and through climate modelling.</p> <p>Measuring the concentration of greenhouse gases in the atmosphere and how those concentrations change over time is important for understanding the impact of both anthropogenic and natural emissions on the atmosphere. These observations will also be vital for identifying progress in moving towards net-zero emissions. Climate models are used for exploring future scenarios and CSIRO has contributed to an international effort to coordinate climate model experiments for use by the IPCC. These coordinated experiments allow us to simulate future climate pathways which can inform efforts to mitigate and adapt to climate change.</p>		
10.15am - 10.45am	Morning Tea and Exhibition		Lobby, Level 1
10.45am - 12.00pm	Concurrent workshops		Various Rooms
F40 Promenade 1 3D Printing James Cutting Southern Cross Grammar	F41 Promenade 2 Chill Me Out or Light Me Up Lynette Baker Assumption College Kilmore & Mary Jones, Keilor Downs College	F42 Promenade 3 Care and Maintenance of PASCO GEAR Doug Bail Cider House Tech Pty Ltd	F43 Meeting Room 1 What really helped during remote learning and is helping now Peter Razos Caulfield Grammar School
F44 Meeting Room 2 Disposal of Chemical Wastes: RiskAssess Advice and Lab Tricks Phillip & Eva Crisp Ecosolve Australia	F45 Meeting Room 3 What Rock is That? Peter Nisbet	F46 Meeting Room 4 The Importance of Servicing Microscopes Rod Aggett Edu Supplies	F47 Meeting Room 6 Risk Assess Fundamentals Geoff Gleadall President, LTAV
F48 Meeting Room 7 Inquiry Approaches to Using Data Loggers in High School Physics Stuart Lewis Scientrific Pty Ltd	F49 Meeting Room 8 Making Videos of Science Practicals Dale Carroll The Geelong College	F50 Meeting Room 9 A Journey into the Microbial World Radhika Iyer Mullauna College	F51 Meeting Room 10 Engaging Science with Origami Models Daniela Migliorati Science Supply Australia & Marcia Rogerson St Mary's College
12.00pm - 1.00pm	Lunch and Exhibition		Lobby, Level 1
1.00pm - 2.15pm	Concurrent workshops		Various rooms
F52 Promenade 1 Introduction to ROQED - Immersive, interactive 3D educational simulations and exercises Doug Bail Cider House Tech Pty Ltd	F53 Promenade 2 Van De Graf Generators - Their Care and Feeding Harvey Edwards Principles and Practice	F54 Promenade 3 Biology Pracs Made Easy Erika Trickett John Monash Science School	F55 Meeting Room 1 Levers and Dinosaurs Peter Razos Caulfield Grammar School
F56 Meeting Room 2 Reading Rocks and Minerals: How to Make the Rock Cycle Exciting James Driscoll Monash University	F57 Meeting Room 3 Geology of the Earth's Energy Resources Peter Nisbet	F58 Meeting Room 4 Chemical Management for the School Laboratory Michael Pola Envirostore Chemical Consulting	F59 Meeting Room 6 Incorporating 3D printing and design into the Science prep lab Kerri Howell The Geelong College
F60 Meeting Room 7 The Science of US-Measuring Humans using Data Loggers Stuart Lewis Scientrific Pty Ltd	F61 Meeting Room 8 Rock Me and More! Philip Sansom Teacher Earth Science Education Programme	F62 Meeting Room 9 Resolving the Mystery with Gel Electrophoresis Radhika Iyer Mullauna College	F63 Meeting Room 10 Handling and Storage of Radioactive Sources Dan O'Keeffe Vicphysics Teachers' Network
2.15pm - 2.45pm	Afternoon Tea and Exhibition Draw Exhibitor Passport Prizes		Lobby, Level 1
2.45pm - 4.00pm	Concurrent workshops		Various rooms
F64 Promenade 1 Triple R - Regional Reps Rage Deborah Sun LTAV Regional Liaison Officer	F65 Promenade 2 CHEMWATCH - Questions and Answers Anna Goutnik CHEMWATCH	F66 Promenade 3 Making Videos of Science Practicals Dale Carroll The Geelong College	F67 Meeting Room 1 Don't Bully Us! Brian Martin & Rose Tomassini Big B Personal and Workplace Solutions
F68 Meeting Room 2 The Science of Plate Tectonics James Driscoll Monash University	F69 Meeting Room 3 Mushrooms in the Classroom Ellen Clarke Kew High School	F70 Meeting Room 4 Chemical Waste Disposals for the School Laboratory Michael Pola Envirostore Chemical Consulting	F71 Meeting Room 6 How to Write Quality Risk Assessments for Chemicals and Chemical Experiments Lisa Stevens & Neale Jackson Lisa J Stevens & Associates
F72 Meeting Room 7 A Healthy Land Measuring the Environment with Data Logging Equipment Stuart Lewis Scientrific Pty Ltd	F73 Meeting Room 8 Virtual Geology and More! Philip Sansom Teacher Earth Science Education Programme	F74 Meeting Room 9 How to keep School laboratory organised - Beginners only (Tips & Techniques) Nish Sureshkumar Victoria University Secondary College	F75 Meeting Room 10 47 Years with Hard Labour Geoff Gleadall President, LTAV
4.00pm	Conference Concludes		

WORKSHOP DESCRIPTIONS

3D Printing

James Cutting, Southern Cross Grammar

T14 F40

My presentation will cover the full workflow of 3D printing, I am happy to showcase the one I built from scratch, the ones that schools are using and their vast functionality. 3D printing is an additive technology used to manufacture parts. It is 'additive' in that it doesn't require a block of material or a mold to manufacture physical objects, it simply stacks and fuses layers of material. It's typically fast, with low fixed setup costs, and can create more complex geometries than 'traditional' technologies, with an ever expanding list of materials. I literally built my one at home from parts I bought primarily on Aliexpress. It is used extensively in the engineering industry, particularly for prototyping and creating lightweight geometries.

This will cover how a 3D printer works mechanically, setup, basic maintenance and daily troubleshooting and management, how to locate files to print, how to manipulate these files and what to do with a finished print, which can include finishing and painting. 3D printing is now an integral part of the vast STEM educational demographic; however, it can be a little daunting sometimes.

NEW SESSION

47 Years of Hard Labour

Geoff Gleadall, President, LTAV

F75

A humorous look at how the profession has changed during the 47 years of my career.

REPEAT SESSION

A Healthy Land - Measuring the environment with datalogging equipment

Stuart Lewis, Scientrific Pty Ltd

T21 F72

This workshop will look at using datalogging to measure various environmental conditions in plants, the soil and water.

- Looking at chlorophyll in plants
- Investigating plant photosynthesis
- Investigating respiration
- Abiotic conditions
- Water analysis

NEW SESSION

A Journey into the Microbial World

Radhika Iyer, Mullauna College

T23 F50

Microbes are fascinating group of organisms. Some are nasty but others are very useful for mankind.

Lets capture few microbes in our workshop to understand them better.

This workshop is useful for all year levels. Specially, VCE Biology, dealing with immunity and antibiotic resistance.

NEW SESSION

Biology Pracs Made Easy

Erika Trickett, John Monash Science School

T3 F54

Being a lab tech we are asked to be a knower of all. However, lots of us struggle with at least one of the main areas of science. With the introduction of new concepts in the study designs as well this makes it even more challenging sometimes for students understanding if there is no visual or hands-on activity. In this session I will be going through some really easy to run biology themed pracs incorporating the new Biotechnology area of study as well as some pracs that can be used for junior science (years 7-10) and even Environmental science.

NEW SESSION

Care and Maintenance of PASCO GEAR

Doug Bail, Cider House Tech Pty Ltd

T27 F42

A broad based session, this will cover the basics for people new to the PASCO range of electronic measure through to advanced techniques in utilising and calibrating sensors - what needs calibrating, why and what not, what are the limitations and opportunities presented by different sensors, what do we do with old gear so its continues to be useful. We'll look also at some novel techniques and approaches to key practical activities including mandatory pracs and there will be plenty of opportunity to ask questions and have them answered. BYO gear if you would also like to problem solve any specific issues that you're looking to resolve.

NEW SESSION

Chemical Management for the School Laboratory

Michael Pola, Envirostore Chemical Consulting

T7 F58

Chemical Management for the School Laboratory ; this presentation covers the following : compliance with dangerous goods and OH and S legislation, hazardous substances, safety data sheets, risk assessments, spills, disposals, in house waste treatment, chemical storage and tips for good management practices for laboratories.

REPEAT SESSION

Chemical Waste Disposals for the School Laboratory

Michael Pola, Envirostore Chemical Consulting

T19 F70

Correct disposal techniques including use of suitable containers, labelling, safe mixing of liquid wastes, storage and handling of various waste streams, legal compliance requirements etc.

REPEAT SESSION

CHEMWATCH - Questions and Answers

Anna Goutnik, Chemwatch

F65

This is an information question and answer session - THIS SESSION IS NOT HANDS-ON.

REPEAT SESSION

Chill me out or Light me up!

Lynette Baker, Assumption College Kilmore
& Mary Jones, Keilor Downs College

T26 F41

This time around it is all about making learning fun. Physics is about fun with a bit of theory thrown in for good measure, so come chill out or light up your minds with us as we look at electromagnetic fields, light, and waves.

NEW SESSION

Data Logging in Physics - it's Fun & Easy!

Amanda Lovett, Modern Teaching Aids - MTA

T34

In this engaging, hands-on workshop participants will learn how data collection and analysis can improve students understanding of Physics with simple, easy to run activities for all levels of High School Science. Participants will experience the fun of working with EASY to use and innovative technologies while they explore a range of physics based experiments with relevant and appropriate applications for the: demonstrating, testing, monitoring, collection, manipulation and analysis of data. Also see a range of applications for Science investigations in Biology, Chemistry and Environmental Science. Come and see how EASY it is...

REPEAT SESSION

Disposal of Chemical Wastes: RiskAssess Advice and Lab Tricks

Phillip & Eva Crisp, Ecosolve Australia

F44

Find out what you can safely throw into the garbage or pour down the drain. More importantly, find out what you should not! RiskAssess provides advice on the disposal of 3000 chemicals and solutions, based on their ecotoxicity in sewage systems and in garbage sent to landfill. The advice considers holistically the issues of toxicity, transport, biodegradability, flammability, volatility, solubility etc, providing recommended maximum daily quantities for disposal. We will offer ideas to simplify collection and storage of wastes, plus simple methods for dealing with them. Questions welcome!

NEW SESSION

Don't Bully Us!

Brian Martin & Rose Tomassini,
Big B Personal and Workplace Solutions

T4 F67

Being bullied at work can lead to deteriorating physical and psychological health, it can destroy lives and reputations. This presentation draws from first-hand experiences of lab techs in Victorian schools who have shared their stories with us about being bullied at work and how it has impacted upon them. We will look at what is required of employers to prevent workplace bullying from happening and what action lab techs can take when employers fail to comply with their obligations to do so.

NEW SESSION

Engaging Science with Origami Models

Daniela Migliorati, Science Supply Australia
& Marcia Rogerson, St Mary's College

T36 F51

In this hands-on workshop we will discover the inner world of a plant cell and animal cell! Cells are the basis of life, we will give you the tools to show students the key organelles and structure of cells! Learning through fun is the key to students retaining information, all students learn differently. Origami models are a diverse way to teach topics in the classroom. These simple origami models are a fun way to introduce the topic of cell structure and the foundations of Biology. All material will be provided in the session.

NEW SESSION

Geology of the Earth's Energy Resources

Peter Nisbet

T18 F57

This session explains the formation of Coal, Oil and Gas, including samples of the different types of each. It also covers Uranium and Nu-clear Fuel as well as Geothermal Power.

REPEAT SESSION

Handling and Storage of Radioactive Sources

Dan O'Keeffe, Vicphysics Teachers' Network

F63

This presentation will start by providing useful background on ionising radiation in our everyday environment, identifying common sources, typical exposures and the risks from substantial exposure. It will then cover the types of radioactive sources commonly held by schools, looking at how they should be handled and properly stored. Finally the administrative procedures that are required in regard to safety and risk assessment will be outlined.

NEW SESSION

How to keep School laboratory organised - Beginners only (Tips & Techniques)

Nishevitha Sureshkumar,
Victoria University Secondary College

T35 F74

Are you new to school lab by your own? Struggling to start from where??? This presentation covers how to begin your lab journey from scratch without any experience. What are the "to do" list you have to mark down first; what are the files you need to keep and maintain annually. Different ideas to tackle daily task includes trolley setups, booking method, task chart etc. What are the check lists do you have to follow-up? More and more time management techniques to keep the lab organised.

REPEAT SESSION

How to Write Quality Risk Assessments for Chemicals and Chemical Experiments

Lisa Stevens & Neale Jackson, Lisa J Stevens & Associates

T32 F71

Looking to improve the level of risk assessments in your school? Do you find that your risk assessments are lacking? This session is about having a look at the Code of Practice for preparing safety data sheets for hazardous chemicals, how to read a safety data sheet, and what information do you require to write an informative risk assessment.

WORKSHOP DESCRIPTIONS

This workshop will provide you with several practical activities including how to undertake a risk assessment on a simple experiment. All participants will receive a e-booklet and handouts so that you can use the information learned in your own laboratories.

REPEAT SESSION

Incorporating 3D printing and design into the Science prep lab

Kerri Howell

T20 F59

Show other lab techs how they can use 3D design tools to design custom solutions to create custom parts or tools to use in the science. Teach other lab techs about already available resources on the internet to search for items to 3D print for use in science room or lab.

Using 3D parts to create moulds to then bulk make resin items for the lab e.g., chemical storage trays.

Will bring in items I have custom designed and printed and free to use designs I have printed for use.

NEW SESSION

Indoor Air Quality - Infectious risk and scrubbers

Brett Cole, Biosafety Pty Ltd

T14

A logical approach to indoor air quality monitoring, infectious risk, and CO₂ in school is essential for the classroom to be a safe and healthy environment for all students and staff. A greater understanding of air purifiers, scrubber HEPA filter integrity testing and validation.

NEW SESSION

Inquiry approaches using Data Loggers in High School Chemistry

Stuart Lewis, Scientrific Pty Ltd

T33

Are you looking for ways of collecting data related to experiments in the Australian Curriculum - Chemistry (Especially when experimenting at home)?

This workshop explores Chemistry using a variety of Vernier Dataloggers and probes. Multiple workstations will be used for participants to experiment with support from our presenter. Some of the topics covered will be:

- Chemistry at home
- pH and household chemicals
- Boyle's Law
- Guy-Lussac's Law
- Beer's Law
- Acid - Base Titrations

Ideas for further investigations will also be explored.

REPEAT SESSION

Inquiry approaches using Data Loggers in High School Physics

Stuart Lewis, Scientrific Pty Ltd

F48

"Physics is science where you think with your hands."

Are you looking for ways of collecting data related to experiments in the Australian Curriculum - Physics (Especially when inertia keeps you at home)?

This workshop explores Physics using Vernier Dataloggers. With multiple workstations, and support from our presenter, participants will use dataloggers to explore different physics experiments. Topics will include:

- Examining motion using a Motion Probe, a Photogate and Video Analysis (ACSSU117);
- Investigating electrical induction using magnets (Unit 3, Year 12 Syllabus);
- Magnetic fields in a coil (Unit 3, Year 12 Syllabus);
- Newton's Laws of Motion (ACSSU229);

REPEAT SESSION

Introduction to ROQED - Immersive, interactive 3D educational simulations and exercises

Doug Bail, Cider House Tech Pty Ltd

T13 F52

Introducing ROQED - fuelled by a program to educate a nation, ROQED interactives are arguably the broadest and most accessible integrated range of digital science resources available anywhere. Over 1000 interactives across biology, chemistry, science and the environment are fully mapped to the Australian Curriculum for quick selection and run on just about any device. Engage students, introduce new ideas, reinforce key ideas. Dissect humans, animals and even rip out the skeleton of a T-Rex!

This will be a session where you can come to "play" and take away information on a genuinely useful addition to the range of digital science resources.

NEW SESSION

Levers and Dinosaurs

Peter Razos, Caulfield Grammar School

T16 F55

This workshop is hands-on constructing a hydraulic dinosaur. It showcases the need for students to be actively involved in science through STEM activities. All participants will be encouraged to build and test their own dinosaur and take part in the finale of the lolly grab. Visit the construction at the site below.

<http://www.dynamicscience.com.au/tester/solutions1/hydraulicus/hydraulicus1.html>

NEW SESSION

Making Videos of Science Practicals

Dale Carroll, The Geelong College

T15 F49 F66

With 2020 being what it was, we wanted the students to still be able to see results from practicals that they would have done. For this to happen I have been making videos of these practicals. Making the videos has meant looking at how to best show the information and read displays as required, or the background to avoid other distractions. I will quickly introduce some of the methods I have used

to achieve this. I will quickly go through collecting photos, videos and adding script to pages and putting a video together.

These videos are now being used as an introduction to show students how to set-up the experiment, or for those that are not present when the practical is done so they are still a good resource to have.

REPEAT SESSION

Mushrooms in the Classroom

Ellen Clarke, Kew High School

T6 F69

Do you know how amazing mushrooms are? They help decompose, are an important food source and have been used in the production of furniture and clothes among other things. Come along and find out more about mushrooms, what a great science resource they are and how you can easily culture and grow mushrooms in the classroom.

REPEAT SESSION

My YouTube Chemistry Top Ten

Dr Jeff Hughes, RMIT University

T12 T24

Chemical Magic demonstrations have had a long and colourful history. We at RMIT have done Chemical magic shows and demonstrations on open days for many years. The advent of the internet and YouTube has enabled many demonstrations to be viewed that are too difficult or dangerous to set up in shows. However, nothing beats seeing a demonstration live to inspire students. In this session we will try out some of the lesser known examples and give you a chance to see if you can deduce how the experiment works.

NEW SESSION

Radiation Protection and Awareness in Australia

Keith Dessent, Dr John Javorniczky,
A/Prof Ken Karipidis, ARPANSA

T25

Part 1: Radiation Sources in Schools

- Mr Keith Dessent (MAY BE REPLACED BY ALTERNATIVE SPEAKER)

ARPANSA has published safety guides in its Radiation Protection Series that outline best practice in dealing with ionising radiation and lasers in secondary schools. The safety guides cover the acquisition, use and disposal of radioactive sources and equipment that produce ionising and laser radiation.

Part 2: The ARPANSA UV program

- Dr John Javorniczky

Australia has high levels of solar UV radiation and high incidence of skin cancer. There are various personal UVR protective measures such as clothing, hats, sunscreen, sunglasses and shade structures to provide UVR protection. What programs and services does ARPANSA provide?

Part 3: Electromagnetic Fields and Health

- A/Prof Ken Karipidis

Electromagnetic fields (EMF) are all around us from both natural and man-made sources. People are exposed to EMF from electrical sources such as powerlines and appliances as well as wireless devices such as lap-tops and

mobile phones. The widespread use of technology has led to concerns regarding potential adverse health effects, especially recently with the roll-out of 5G.

REPEAT SESSION

Reading Rocks and Minerals: How to Make the Rock Cycle Exciting

James Driscoll, Monash University

T17 F56

Do your students think the rock cycle is a little 'dull'? Having problems with engaging your Level 7 & 8 Earth and space sciences students with the identification of rocks and minerals? Join Dr James Driscoll from Monash University for tips and tricks on how to make the rock cycle fun and accessible for both students and teachers. This interactive and hands-on session will focus on identification of the main rock-forming minerals, and determining the naming convention of common rocks.

REPEAT SESSION

Resolving the Mystery with Gel Electrophoresis

Radhika Iyer, Mullauna College

T11 F62

Gel Electrophoresis is a powerful tool to connect the unresolved pieces of mystery for finding answers to many scientific confusions, whether it is conflict in parentage, solving crimes, and many aspects in Forensic Sciences.

Through this workshop, let us explore together, if we can help in the court case arising out of a stolen puppy dog "Harry" (Dalmatian breed) "to restore him to the right owner. So, Gear up for the investigation!

NEW SESSION

Risk Assessment Fundamentals

Geoff Gleadall, LTAV President

T8 F47

The basics of risk assessment is often not well understood. This session is looking at the creating of risk assessments from first principles rather than using a computer program, and freeing oneself from the dependence on a computer.

NEW SESSION

Rock Me and More!

Philip Sansom, Teacher Earth Science Education Programme T22 F61

The recently released Teacher Earth Science Education Programme (TESEP) Rock Kit for Australian Schools will be introduced to participants. The rock kit is complemented by a range of online resources such as 3D imagery, the stories behind the rocks in the kit, virtual thin sections, questions for students and model answers.

The TESEP Plate Tectonics poster will also be introduced to enable participants to explore how this resource can be utilised in conjunction with understandings gained from the Rock Kit.

REPEAT SESSION

WORKSHOP DESCRIPTIONS

The Importance of Servicing Microscopes

Rod Aggett, EduSupplies

T31 F46

Regular servicing of your microscopes is critical for their longevity. This presentation will detail some useful tips around microscope maintenance that will allow YOU to troubleshoot common problems, saving you time and keeping your microscopes in the classroom. We will also highlight the most effective storage solutions for microscopes and how we can help you easily keep track of your microscope maintenance online.

NEW SESSION

The Science of Plate Tectonics

Dr James Driscoll, School of Earth, Atmosphere & Environment, Monash University

T29 F68

Having difficulty stimulating your Level 9 & 10 Earth and space sciences students with the theory of plate tectonics? Join Dr James Driscoll for hands-on lesson ideas, digital technologies and experiments that enable your students to make sense of plate movement and associated geological hazards.

REPEAT SESSION

The Science of Us - Measuring humans using DataLoggers

Stuart Lewis, Scientific Pty Ltd

T9 F60

Humans are not simple. We are a series of complex systems streamed through a conscious brain. This means that there is a lot that can be measured, from bioelectric impulses required to move muscles to an analysis of touch.

This workshop will use Vernier datalogging equipment to explore topics such as:

- EKG and heart analysis
- Muscle analysis and strength
- Wavelengths of light that fool the eye
- How to tell if a room is well ventilated
- Which feels warmer? Tactile illusions
- How much dye is in foods?

NEW SESSION

Triple R-Regional Representatives Rage

Deborah Sun, LTAV Regional Liaison Officer

F64

Our Regional Representatives Rage is open to all current LTAV Regional Representatives, along with anyone that is interested in taking on the role. Discussions will include activities held during the past year, difficulties faced, possible solutions and any other matters of importance. All Regional Representatives are requested to bring along 18 copies of a short report to be distributed at the meeting to those present.

ANNUAL UPDATE

Understanding RiskAssess and Using It Effectively

Phillip & Eva Crisp, Ecosolve Australia

T5

We will explain the logic of RiskAssess and, especially, the new features to make your life easier! Learn the tricks for creating labels for multiple chemicals on a single sheet, better searching of the laboratory scheduling, improving

searches for chemicals, equipment and biologicals, backing up your risk assessments, using the multiple prac management system in Student RiskAssess and more! Find out about the new version, RiskAssess for Food Tech, and our future plans. Questions welcome!

NEW SESSION

Van De Graaff Generators and their Care and Feeding

Harvey Edwards, Principles and Practice

T2 F53

The frustration and hate of maintaining a VDG is fairly universal among Labies. Either you can seek help from a professional counsellor or by joining in this workshop you will gain lots of hints on how to service and maintain them with a minimum of hair pulling and swearing. (Harvey still has a full head of hair!)

NEW SESSION

Virtual Geology and More!

Philip Sansom, Teacher Earth Science Education Programme

T10 73

The Virtual Library of Australia's Geology delivers free, downloadable visualisations of outcrops, fossils, and rocks. Recent developments using 3D imagery in the context of virtual geological field trips will be presented. Participants will be taken on a number of virtual field trips to explore the opportunities this technology has in the classroom.

REPEAT SESSION

What really helped during remote learning and is helping now

Peter Razos, Caulfield Grammar School

T28 F43

This online resource will be showcased and is made available to all. This amazing resource covers senior Chemistry, as well as junior Science. On the day we will show all participants how to make the best out of the site and use it as a resource for remote learning for students who are isolating but also as a great resource that offers ideas of how to generate excitement and inquiry. Dive into the works of "the Science of Magic" and "Kitchen Chemistry". Not sure of what to do? We will show you. We will also take participants through the test making facility which allows the users to create their own self-assessed online tests. The aim of the session is to have fun and share meaningful resources.

Visit the site below and see for yourself.

<http://www.dynamicscience.com.au/tester/solutions1/curindex.asp>

NEW SESSION

What Rock is That?

Peter Nisbet

T30 F45

This session uses a hands on approach with accompanying Identification Keys to learn the main features and names of the most common rocks. Participants use rock samples throughout the session. Interesting minerals and fossils add variety to the session.

REPEAT SESSION

LABCON2022 EXHIBITORS

LTAV would like to take this opportunity to acknowledge and thank Conference Sponsors and Exhibitors your support is greatly appreciated
(Information correct at time of printing)

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Vacant



**Laboratory Technicians'
Association of Victoria**

LABCON2022

10 & 11 November 2022

The registration form may be EMAILED or POSTED

REGISTRATION FORM AND TAX INVOICE

LTAV ABN: 96 439 156 002

DELEGATE DETAILS

(Circle) Prof/Dr/Mr/Mrs/Ms/Miss

Surname: Given Name:

School/Organisation: Position:

Address:

State: Postcode: Telephone: Mobile:

Email: **Purchase Order:**

Emergency Person & Mobile: (e.g. emergency contact **during** LABCON)

Please indicate any health related dietary, disability assistance required:

REGISTRATION FEES

GST inclusive	LTAV Member	Non Member	
Full Registration - Thursday & Friday includes Dinner	\$475.00	\$535.00	\$ <input type="text"/>
Full Registration - Thursday & Friday excludes Dinner	\$405.00	\$465.00	\$ <input type="text"/>
One Day Registration includes dinner <input type="checkbox"/> Thursday <input type="checkbox"/> Friday	\$425.00	\$485.00	\$ <input type="text"/>
One Day Registration excludes dinner <input type="checkbox"/> Thursday <input type="checkbox"/> Friday	\$355.00	\$415.00	\$ <input type="text"/>
Presenter Registration: <input type="checkbox"/> Thursday <input type="checkbox"/> Friday (No charge day(s) of presentation)			
Presenter attending Dinner: <input type="checkbox"/> Yes <input type="checkbox"/> No (No charge)			
Conference Dinner Thursday (extra tickets)	\$150.00	\$160.00	\$ <input type="text"/>

SUB TOTAL REGISTRATION FEES GST inclusive AUD \$

ACCOMMODATION

Room Type Required: Single Twin Double

Crown Promenade: Room only per night \$220.00 GST inclusive x Nights = \$

Arrival Date: Depart Date:

TOTAL PAYABLE to LTAV: Registration Fees + Accommodation (if applicable) AUD \$

CONCURRENT WORKSHOPS (Note: there are strict limits on numbers attending each workshop)

Please use Session Codes in preferences below and places will be allocated in order of **receipt of payment**.

Complete all boxes. Note: You will automatically be booked to attend the keynote presentations on day of registration.

	1st Pref	2nd Pref	3rd Pref	4th Pref
Thursday 11.00am-12.15pm	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Thursday 1.15pm-2.30pm	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Thursday 3.00pm-4.15pm	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Friday 10.45am-12.00pm	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Friday 1.00pm-2.15pm	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Friday 2.45pm-4.00pm	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Principal/Science Co-ordinator's name: Signature:



**Laboratory Technicians'
Association of Victoria**

LABCON2022

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**BOOK EARLY
AS SPACE IS
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Register ONLINE www.ltav.org.au alternatively, complete form and EMAIL to pcs@cogroup.com.au

When Registering, payment can be made by EFT/DIRECT DEBIT into LTAV bank account, send a money order or cheque, Please photocopy the completed Registration Form and send the copy with payment to:

LABCON Conference Secretariat
PO Box 208
Lynbrook VIC 3975

DIRECT DEBIT/EFT PAYMENTS

If paying directly into the LTAV bank account, please ensure that the **EFT remittance advice together with the Registration Form is EMAILED** to pcs@cogroup.com.au

Bank: Commonwealth Bank of Australia
Branch: Warragul
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Account Number: 10401068
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Cheques to be made payable to **Laboratory Technicians Association of Victoria** and forwarded with the completed registration form to:

LABCON Conference Secretariat
PO Box 208
Lynbrook VIC 3975

REGISTRATION FORMS WITHOUT PAYMENT

We reserve the right **NOT** to process forms until a school purchase order number and/or payment is received.

A confirmation letter will be sent to you by email with Sessions allocated.

If you are not able to register for LABCON on either day, you are very welcome to visit the Exhibition outside the catering breaks (shown in the program).

ACCOMMODATION

Crown Promenade
8 Whiteman Street, Southbank
\$220 room only per night.

This is the conference venue so a great opportunity to stay on site - treat yourself and make it easy. Breakfast is not included in this rate. Valet Parking at the hotel \$65 per day. However, you can park yourself in the multi level car park for \$18 per day.

PAYMENT for all of your accommodation booking must be paid in advance.

CONFERENCE DINNER

Sponsored by
Modern Teaching Aids (MTA)



The dinner this year will be held at Crown Towers in the Garden Room. Attendance at the conference dinner on Thursday evening is complimentary for workshop presenters, but you do need to register.

SPECIAL DIETS

We endeavour to provide for medical dietary requirements such as diabetic, gluten free, vegetarian etc., and cannot provide Paleo, Weight Watchers, Lite and Easy diets.

CANCELLATION POLICY:

All cancellations must be made in writing to the Conference Secretariat. Cancellations received prior to the registration deadline of 15 October 2022 will receive a refund less an administration fee of \$100.00. No refund will be given after this date; however, an alternative delegate name may be submitted. You may wish to take out **insurance** to cover forced cancellation.

PRIVACY STATEMENT

The Privacy Act 2000 provides that, before a name, organisation and state/country details can be published in the list of the Conference delegates for distribution to fellow delegates or any other party; you must give your consent. If you **DO NOT** wish to have your name and details included in the Delegate List please indicate below and send this instruction with your Registration Form and payment.

Tick if you **DO NOT** want your name and details on distribution list:

HELP OR FURTHER INFORMATION

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**Attendance at LABCON is a
TAX DEDUCTION**

**A not to be missed PD
for all Lab Techs**

LABCON2022

PROGRAM GRID

* NEW SESSIONS

TOPICS	Presenter	THURSDAY						FRIDAY					
		8.45am - 9.00am	9.00am - 10.00am	10.00am - 10.30am	11.00am - 12.15pm	1.15pm - 2.30pm	3.00pm - 4.15pm	9.00am - 9.15am	9.15am - 10.15am	10.45am - 12.00pm	1.00pm - 2.15pm	2.15pm - 2.45pm	2.45pm - 4.00pm
Conference Opening	Geoff Gleadall												
Exhibitor Passport Prize Draw	Geoff Gleadall												
LTAV Annual General Meeting	Geoff Gleadall												
KEYNOTE: Air Quality and Smoke	Fabienne Reisen												
KEYNOTE: The contribution of atmospheric composition measurements and climate modelling to international climate agreements	Rachel Law												
3D Printing	James Cutting*				T1					F40			
47 Years of Hard Labour	Geoff Gleadall												F75
A Healthy Land-Measuring Humans using Data Loggers	Stuart Lewis*					T21							F72
A Journey into the Microbial World	Radhika Iyer*					T23					F50		
Biology Pracs made Easy	Erika Trickett				T3						F54		
Care and Maintenance of PASCO GEAR	Doug Bail*					T27				F42			
Chemical Management for the School Laboratory	Michael Pola				T7						F58		
Chemical Waste Disposals for the School Laboratory	Michael Pola					T19							F70
Chemwatch - Questions & Answers	Anna Goutnik												F65
Chill me out or light me up	Lynette Baker & Mary Jones*						T26			F41			
Data Logging in Physics-it's Fun and Easy!	Amanda Lovett						T34						
Disposal of Chemical Wastes Risk/Assess Advice and Lab Tricks	Phillip & Eva Crisp*									F44			
Don't Bully Us!	Brian Martin & Rose Tomassini*				T4								F67
Engaging Science with Origami Models	Daniela Migliorati & Marcia Rogerson*						T36			F51			
Geology of the Earth's Energy Resources	Peter Nisbet					T18					F57		
Handling and Storage of Radioactive Sources	Dan O'Keeffe*										F63		
How to keep School lab organised - Beginners only	Nish Sureshkumar						T35						F74
How to Write Quality Risk Assessments for Chemicals and Chemical Experiments	Lisa Stevens & Neale Jackson						T32						F71
Incorporating 3D printing and design into the Science prep lab	Kerri Howell*					T20					F59		
Indoor Air Quality-Infectious risk and scrubbers	Brett Cole*					T14							
Inquiry approaches using data loggers in High School Chemistry	Stuart Lewis						T33						
Inquiry approaches using data loggers in High School Physics	Stuart Lewis									F48			
Introduction to ROQED-immersive, interactive 3D educational simulations and exercises	Doug Bail*					T13					F52		
Levers and Dinosaurs	Peter Razos*					T16					F55		
Making Videos of Science Practicals	Dale Carroll					T15				F49			F66
Mushrooms in the Classroom	Ellen Clarke				T6								F69
My You Tube Chemistry Top Ten	Jeff Hughes*				T12	T24							
Radiation Protection and Awareness in Australia - PANEL	Keith Dessent, John Javorniczky & Ken Karipidis						T25						
Reading Rocks and Minerals: How to make the Rock cycle Exciting	James Driscoll					T17					F56		
Resolving the Mystery with Gel Electrophoresis	Radhika Iyer*				T11						F62		
Risk Assessment Fundamentals	Geoff Gleadall*				T8					F47			
Rock Me and More!	Philip Sansom					T22					F61		
The Importance of Servicing Microscopes	Rod Aggett*						T31			F46			
The Science of Plate Tectonics	James Driscoll					T29							F68
The Science of Us - Measuring Humans using Data Loggers	Stuart Lewis*				T9						F60		
Triple R-Regional Representatives Rage	Deborah Sun												F64
Understanding RiskAssess and Using it Effectively	Phillip & Eva Crisp*				T5								
Van De Graaff Generators - their care and feeding	Harvey Edwards*				T2						F53		
Virtual Geology and More!	Philip Sansom				T10								F73
What really helped during remote learning and is helping now?	Peter Razos*						T28			F43			
What Rock is that?	Peter Nisbet						T30			F45			



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Members are always welcome at committee meetings.