Branching out with GEOGRAPHY
We understand that a great Geography tour must include mostly fieldwork. Because we know the strands/substrands of the Geography curriculum (state, national, IB), we design and deliver a meaningful tour with real educational outcomes that support classroom learning. By listening to your needs, we can carefully craft the perfect Geography tour experience.

Let’s open their eyes to a world of possibilities…

SPECIALISTS IN WORLDWIDE GEOGRAPHY FIELDWORK TOURS

Experiential learning and exciting, engaging, safe group touring around the world

Call +61 3 9646 4200
www.latitudegrouptavel.com.au
Teachers and educators recognise the importance of Geography, and particularly spatial technology, within the curriculum. The GTAV Annual Conference brings together teachers, professionals and specialists to engage and offer practical solutions to teach Geography and incorporate digital spatial technology in the classroom.

The 51st GTAV Annual Conference features workshops with teachers and professionals, sessions with highly-profiled specialists, carefully selected keynote speakers and a range of fieldtrip locations to explore.

Join over 900 attendees
Targeted sessions for out-of-field teachers
Practical hands-on workshops 7–10 and VCE

REGISTER NOW

Register online at:
www.gtav.asn.au

Register early to ensure your choice of workshops.
SAVE when registering for multiple days.
See page 5 for all registrations prices and details.
Branching Out With Geography is the 2017 conference theme and this is very evident when examining the breadth and diversity of keynote speakers, workshops and displayers. Geography is the subject that has always been about understanding the world. It is now imperative that our spatial lens, skills, knowledge and perspective are used to bring about positive change to the world, its environment and its people.

Thank you to all the conference partners, displayers, keynotes and presenters for your strong support. Thanks also to the whole GTAV office team, to GTAV Patron Rob Gell and the GTAV Committee who have worked tirelessly to bring you this fabulous 51st GTAV Annual Conference.

The GTAV wishes to thank Latitude Group Travel for their ongoing support across the year.

Latitude Group Travel custom designs educational tours for every subject, including the cross curriculum priorities. We link all subject-related tours to the curriculum you teach at your school and to actual learning outcomes. Additionally, we include experiential learning activities which means, in the case of Geography, a strong emphasis on fieldwork. We cover all units, strands and substrands relating to the relevant year levels, so that your tours are true learning adventures. From inception to implementation, we deliver high quality programs both in Australia and worldwide and operate under safety first protocols. Latitude Group Travel can effectively combine subject groups. In these cases, the groups still focus on their specific subject through their own experiential learning activities or fieldwork, coming together for mutual experiences where possible. Experience real educational outcomes when you tour with Latitude Group Travel.
Conference Details

Venues

Sunday 27 and Monday 28 August • Workshop and Keynote sessions

CQ / Karsten’s Conference Centre

The GTAV Annual Conference will be held at CQ / Karsten’s Conference Centre, situated in the heart of Melbourne’s CBD at 123 Queen Street, between Bourke and Little Collins Streets.

Transport & Car Parking

TRAM  Tram stops are conveniently located within one block of the venue, in any direction; use trams on Bourke, Collins, Elizabeth and William Streets.

TRAIN  The venue is less than 500 metres from Flinders Street Station and Southern Cross Station

PARKING  There is parking at 123 Queen Street, entrance via Little Collins Street and other city carparks. Confirm all rates and find further information at secureparking.com.au.

Tuesday 29 August • Fieldwork Day

Various locations around Melbourne and regional Victoria

Fieldworks are listed on pages 36–38 and give details about locations of where you will be travelling for the day. Details about pick up location for each fieldwork trip will be sent via email closer to the conference.
General information

For more detailed information and alerts scan this QR Code or go to this link: http://www.gtav.asn.au/professional-learning/annual-conference

Follow @GeographyVic on Twitter and tweet your experiences using #GTAVConf

Catering

Tea and coffee, morning tea and lunch are included in the registration fee. Those with special dietary requirements should indicate their needs when registering online. If you have any special needs or enquiries please contact the GTAV office on 03 9824 8355 or office@gtav.asn.au.

Disclaimer of liability

GTAV reserves the right to amend any part of the conference program or event should it be necessary. GTAV will not accept liability for damages of any nature sustained by participants, or their accompanying persons, for loss or damage to their personal property as a result of the conference or related event. In the event of unforeseen circumstances, GTAV will not accept responsibility for loss of monies incurred by attendees. Exhibitors should consult their own insurance companies for proper coverage of their merchandise and displays.

Attendee waiver

By registering for this event all registrants agree to any images being reproduced for GTAV communications and marketing purposes in which they appear. The registrant also consents to GTAV maintaining registration and personal details collected during registration for marketing and important communications. We respect your right to privacy and your details are confidential. GTAV will not share your personal details with outside parties.

Bring Your Own Device (BYOD)

Free Wifi is available at the conference and all participants are encouraged to bring their own device to all conference sessions.

Conference dinner

Join us and catch up with colleagues for a relaxing dinner at

Il Nostro Posto, 60 Hardware Lane, Melbourne

on Sunday evening at 5.30pm.

Authentic Italian cuisine. A three–course meal with a glass of wine/beer/soft drink included for a cost of $50.00 per head.

Please indicate in your registration if you wish to attend.
Registration

- Register early to ensure your choice of workshops. With anticipated large numbers, workshops will be allocated strictly in order of registration. Once workshop limits are reached, you will be unable to select the workshop.
- Registration is available online at the GTAV website www.gtav.asn.au. If you are a GTAV member you will need to log in using your Username and Password to obtain the member rate for your School/Institution, Individual or Concession rate. If you do not have a username and password please contact the primary contact person at your school to obtain these. If you do not know these details, contact the GTAV office on 03 9824 8355. Schools can pay by purchase order or credit card; individuals and concession members must pay by credit card.
- There are no part-day registrations available.
- Registrations for two or more days cannot be shared by two or more participants.
- A confirmation email is sent instantly upon completion of the online registration form. If you have not received this confirmation within two days of registering please contact the GTAV office. A second email will follow with the final confirmation of session allocations a week before the Conference. If you do not receive notification by Wednesday 23 August, please contact the office.
- Our refund policy can be viewed at http://www.gtav.asn.au/professional-learning/refund-policy
- All registrations must be received by 5.00pm Wednesday 23 August 2017.

Registration fees

<table>
<thead>
<tr>
<th>Membership Type</th>
<th>Metropolitan rates</th>
<th>Country/Interstate rates &gt;100kms from CBD</th>
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<tbody>
<tr>
<td></td>
<td>1 day</td>
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<tr>
<td>Individual</td>
<td>$220</td>
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<tr>
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<tr>
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<td>$540</td>
<td>$670</td>
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<tr>
<td>Concession **</td>
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<td>$120</td>
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</tbody>
</table>

++ Schools/Institution includes members of all Geography Teachers’ Associations
** Concession includes Life Members, Friends and Pre-service teachers

GTAV Members receive a substantial saving; please consider applying for membership if you are not a member at this time. The cost of membership, plus the member registration fee, is cheaper than paying the non-member rate. www.gtav.asn.au/membership

The Australian Professional Standards for Teachers are now used by Australian teacher registration and accreditation authorities. Delegates will be given certified endorsement for up to 24 hours of Australian standards referenced professional learning.

Early bird rates

To receive an early bird discount of $30.00 per registration please register online by 5.00pm Sunday 23 July 2017. Concession members are not eligible for this further discount.
Bruce Pascoe was born in Richmond and is an Australian Indigenous writer from the Bunurong clan of the Kulin nation. He has worked as a teacher, farmer, fisherman and an Aboriginal language researcher. He is in high demand as a speaker and has regular media commitments.

His book, *Dark Emu: Black Seeds Agriculture Or Accident?* challenges the claim that pre-colonial Australian Aboriginal peoples were hunter-gatherers. Dark Emu argues for a reconsideration of this "hunter-gatherer" tag and attempts to rebut the colonial myths that have worked to justify dispossession. An accomplished author, Bruce provides compelling evidence from the diaries of early explorers that suggests that systems of food production and land management have been blatantly understated in modern retellings of early Aboriginal history and that a new look at Australia's past is required.

*Dark Emu* was shortlisted for the 2014 Victorian Premier’s Award for Indigenous Writing and the History Book Award in the 2014 Queensland Literary Awards. It was winner of the Book of the Year in the 2016 NSW Premier’s Literary Awards and winner of the Indigenous Writer’s Prize in the 2016 NSW Premier’s Literary Awards. Many more awards may follow as reviews of this book spread across the world drawing more readers.

The Sunday afternoon Conference session will be a fascinating discussion on past, present and future practices in agriculture and land management. Noted author and Bunurong man, Bruce Pascoe will be in conversation with Dr Cameron Archer AM, Chair of PIEFA and VCAA Curriculum Manager Monica Bini, as they discuss Bruce’s research which challenges the common and historical perception that pre-colonial Australian Aboriginal peoples were hunter-gatherers. Drawing on the accounts of early explorer and settler accounts Bruce has uncovered evidence that Australia’s first inhabitants actively managed the landscape to produce and store an abundance of foods.

Dr Archer has long held in an interest in this area and brings to the keynote two decades of his own research and knowledge. The conversation will be introduced by PIEFA CEO, Ben Stockwin and will be followed by a Q&A with the audience.

In conversation with Bruce Pascoe
The GTAV is absolutely delighted and honoured to welcome Dr Joseph Kerski to Melbourne from Denver Colorado to the 2017 Annual Conference. Dr Kerski is in his 11th year serving as Education Manager for Esri USA.

Prior to joining Esri, Joseph worked for 17 years as Geographer and Cartographer at the US Geological Survey and for five years as Geographer at the US Census Bureau and at NOAA. He has taught as adjunct instructor of Geographic Information Systems (GIS) at Sinte Gleska University on the Rosebud Sioux Reservation, at the University of Denver, in K–12 schools and in online MOOCs and other courses.

Joseph holds three degrees in Geography, so you might say he is rather enthusiastic about studying maps, biomes, population, landforms, neighbourhood change and such. Passionate about all aspects of spatial learning, Joseph seeks and fosters educational partnerships and conducts training in geotechnologies, GIS, Global Positioning Systems (GPS) and Remote Sensing for government, industry, non-profit organisations, higher education, K–12 teachers and students, news media and the general public. He creates curriculum which is focussed on spatial thinking and geotechnologies in education and conducts research in the effectiveness and implementation of these technologies in formal and informal educational settings. His latest book is *Interpreting Our World: 100 Discoveries that Revolutionized Geography*.

When not doing these things, Joseph can usually be found at a latitude-longitude confluence, in a cave or playing the guitar.

**Esri Australia – GIS for Schools Program**

Esri Australia is the nation’s leading Geography Information Software (GIS) technology and services provider. As the only local distributor of Esri’s world-leading ArcGIS platform, Esri Australia is committed to creating a data and information platform to further the adoption of GIS technology throughout the region.

As part of this commitment, in 2017 Esri Australia launched the GIS for Schools Program. This initiative pledges to donate free ArcGIS Online to all Australian schools, to provide a complete, cloud-based mapping platform that allows students and teachers to easily create, share and access maps, applications, and data to strengthen learning opportunities. Including GIS technology in your classroom gives students a sophisticated platform to improve critical thinking, analysis, and creativity. GIS technology provides students with a clear, interactive and visual tool which refines problem solving and decision-making abilities.

To fully support this Geography initiative, Esri Australia Education Program Manager Natassja Dasios is working hard to develop curriculum-linked resources, provide current data and assist teachers with developing geospatial skills.

This session is proudly sponsored by Esri Australia
Bernard Salt AM

Bernard Salt AM is widely regarded as one of Australia’s leading social commentators by business, the media and the broader community. He is Managing Director of The Demographics Group, a specialist advisory group providing business with professional advice on geography matters. Bernard made his name as the high-profile Melbourne-based Partner of a global advisory business where he founded KPMG Demographics in the 1990s. A Geography teacher by training Bernard’s career profile is published in the GTAV VCE Unit 4 Human Population textbook.

Bernard is one of the most in-demand speakers on the Australian corporate speaking circuit. He is perhaps best known to the wider community for his penchant for identifying and tagging new tribes and social behaviours such as “the seachange shift”, “the man drought”, “pumcins” (pronounced “pumkins”) and “the goat’s cheese curtain”.

More recently he achieved global fame, or infamy depending on your point of view, for his comments on smashed avocado.

Professor Roz Hansen

Professor Hansen is a highly-skilled urban planner with more than 30 years experience in strategic and development control planning. Having worked in both the public and private sectors, Roz offers a sound appreciation and understanding of land use planning with a strong emphasis on innovation, sustainability and integrated outcomes.

Roz was Chairperson of the Ministerial Advisory Committee for the recently released Plan Melbourne Refresh 2017–2050 after being Chairperson of the Ministerial Advisory Committee for Plan Melbourne from April 2012 to August 2013. She is also Chairperson of the Geelong Authority.

Roz is a Life Fellow of the Planning Institute of Australia as well as a Fellow of the Victorian Planning and Environmental Association and a Professorial Fellow of the Faculty of Architecture, Building and Planning at Melbourne University and an Adjunct Professor at Deakin University. Roz has appeared as an expert planning witness at VCAT, Planning Panels Victoria and the Supreme Court in Victoria.

With no-one more highly-regarded or with greater expertise in the land use planning field, Roz will provide insights of immense importance to all Geography teachers supporting topics and case studies in VCE Unit 3 Changing the land, Level 7 Place and liveability and Level 8 Changing nations.
Unlocking STEM: Geography is the key

Expert panels, led by GTAV Patron Rob Gell, have been a highlight of the GTAV Conferences for some years and this year is no exception. Our panel this year will discuss how geographical knowledge and skills enable our students to make sense of the world around them by providing the integrating interconnections of Science, Technology, Engineering and Mathematics (STEM) across different scales.

Dr Joseph Kerski
Esri USA
From the time of its inception in the 1960s, GIS (Geographic Information Systems) has been anchored in STEM. Teaching and learning with GIS fosters critical thinking, working with a wide variety of data types, is supported by mathematical principles such as coordinate systems and map projections, involves asking and investigating issues across the sciences, and offers meaningful work with technology. Join Geographer and Esri USA Education Manager Joseph Kerski to examine how educational GIS supports core STEM tenets, and how you can use the tools, data, maps, and techniques in it to open the world of GIS to your students.

Dr Adele Bear-Crozier
Australian Bureau of Meteorology, Volcanic Ash Advisory Centre (VAAC)
As a volcanologist, Adele has undertaken research in Europe, South America and Iceland. Adele has also led volcanic hazard and risk programs for the Asia-Pacific region in volcanic ash dispersion modelling with an emphasis on preparing vulnerable communities impacted by volcanic eruptions. Adele currently leads a multi-disciplinary team that utilise satellite remote sensing techniques and dispersion modelling tools to detect, monitor and forecast the movement of volcanic ash from eruptions in the Asia-Pacific region. VAAC is responsible for providing warnings to the aviation industry about volcanic plumes, which might impact commercial flight routes.

Dr Stuart Minchin
Geoscience Australia
Dr Stuart Minchin is currently the Chief of the Environmental Geoscience Division of Geoscience Australia. The Environmental Geoscience Division includes the National Earth and Marine Observations, National Geospatial Information and Groundwater Branches. Stuart has previously been responsible for the Environmental Observation and Landscape Science (EOLS) research program in CSIRO and prior to that was a Principal Scientist with the Victorian Department of Sustainability and Environment. He has an extensive background in the management and modelling of environmental data and the online delivery of data, modelling and reporting tools for improved natural resource management.

Dr Karen Joyce
PhD Geographical Sciences, UQ
Dr Karen Joyce is a Senior Lecturer in remote sensing and GIS at James Cook University. She has been working with spatial science since 1998 across academia, industry, military, and government roles. As a certified remote pilot, she uses a variety of different drones and cameras to collect imagery to map and monitor the environment, particularly coral reefs. Most recently she has used her drone mapping expertise to co-found She Flies – a hands-on initiative designed to encourage more women and girls to engage in science, technology, engineering and maths through the world of drones.

This session is proudly sponsored by Jacaranda
The 2017 Annual Conference will feature more than 60 sessions over three exciting days including practical workshops, keynotes and fieldwork expeditions. Each session will include one or more of the following streams:

<table>
<thead>
<tr>
<th>Conference themes</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Australian Curriculum / Victorian Curriculum 7–10</strong></td>
<td>• VCAA Victorian Curriculum: Geography sees Geography concepts, skills, knowledge and understanding mandatory for every student from F–Level 10</td>
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<td></td>
<td>• inspiring workshops to engage students across level 7–10</td>
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<td>• for experienced and inexperienced or out-of-field teachers.</td>
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<tr>
<td><strong>VCE Geography Units 1–4 / International Baccalaureate</strong></td>
<td>• successful strategies, case studies and fieldwork</td>
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<td>• an opportunity to tap into the experience and knowledge of tertiary professionals.</td>
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<td><strong>STEM / Spatial / digital technology</strong></td>
<td>• get your students excited about Geography using tools like Virtual Reality glasses and creating digital story maps</td>
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<td>• workshops across all levels from inexperienced to advanced</td>
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<td>• geospatial and digital technologies are firmly embedded across all levels of the Geography curriculum.</td>
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<tr>
<td><strong>Fieldwork / Citizen Science</strong></td>
<td>• discover memorable places where your students can learn outdoors – fieldwork is at the heart of studying Geography at all levels</td>
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<td></td>
<td>• workshops and full-day experiences</td>
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<td></td>
<td>• link your fieldwork to citizen science – collect meaningful data and link to the broader knowledge framework.</td>
</tr>
<tr>
<td><strong>Out-of-field Geography teachers</strong></td>
<td>• targeted sessions on skills, content and resources for teachers without a specialist Geography teaching background or those new to teaching Geography at specific levels.</td>
</tr>
<tr>
<td><strong>Cross-curriculum Priorities</strong></td>
<td>• Sustainability, Aboriginal and Torres Strait Islander Histories and Culture and Asia and Australia’s engagement with Asia – are all clearly embedded in the Geography curriculum. Find out how to effectively teach these CCPs</td>
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<td></td>
<td>• the Geography curriculum aims to ensure that students develop a sense of wonder, curiosity and respect for places, people, cultures and environments throughout the world and the capacity to be informed, responsible and active citizens who can contribute to the development of a world that is environmentally and economically sustainable and socially just.</td>
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</table>
Session overview

Sessions at the conference will address both the Victorian and Australian curricula. Sessions have been categorised for easy navigation of the program.

### Workshop session categories

- **7-10** Victorian/Australian Curriculum and relevant level/s
- **VCE** Victorian Certificate of Education and relevant unit/s
- **STEM/SpTech** STEM and digital and spatial technologies
- **Fieldwork/CitizenSci** Fieldwork and Citizen Science

#### SUNDAY • 27 AUGUST 2017

1. **WORKSHOP SESSIONS**
2. **FOUNDERS’ KEYNOTE ADDRESS**
3. **WORKSHOP SESSIONS**
4. **IN CONVERSATION WITH BRUCE PASCOE**

#### MONDAY • 28 AUGUST 2017

5. **KEYNOTE PANEL**
6. **WORKSHOP SESSIONS**
7. **STEM WORKSHOP WITH JOSEPH KERSKI**
8. **WORKSHOP SESSIONS**

#### TUESDAY • 29 AUGUST 2017

9. **FIELDWORK TRIPS**

Registration will begin at:
- 8.30am on Sunday 27 August
- 8.15am on Monday 28 August

**Fieldwork Trips** on Tuesday 29 August will be leaving from various venues. Times for each destination/session will depend on the trip location – further details will be provided once registration is confirmed.
<table>
<thead>
<tr>
<th>Time</th>
<th>Code</th>
<th>Title and presenter</th>
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<tr>
<td>8.30am</td>
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<td>Registration opens</td>
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<td>9.15am</td>
<td>1</td>
<td><strong>WORKSHOP SESSIONS</strong></td>
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<tr>
<td></td>
<td>a</td>
<td>Bringing key Geography concepts to life – Megan Armstrong</td>
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<td>b</td>
<td>Assessment strategies – Monica Bini</td>
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<td>c</td>
<td>Spatial technology – the basics to get you started – Stephen Matthews</td>
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<td>d</td>
<td>Two different approaches to Geography teaching: using storybooks and</td>
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<td>integrating learning – Gavin Jones, Karoline Walter</td>
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<td>e</td>
<td>Australia’s food biomes – Dr Rachel Carey, Prof Jennifer Sheridan</td>
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<td>f</td>
<td>Planetology – simulating a planet to save – Ben Lawless, Cristy Herron</td>
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<td></td>
<td>g</td>
<td>More than just places and maps: meet the Geographer’s best friend –</td>
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<td>Ray Pask, Jill Price, Lynne Griffiths, Jane Bellamy, Alex Rossimel</td>
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<td>Planning an international study trip and creating school partnerships –</td>
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<td>Sarah Quick</td>
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<td>VCE Unit 1: a spatial exploration of bushfire vulnerability – Adrian De</td>
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<td>Approaches to teaching VCE Unit 4: Human Population – Cathie Meyenn, Dr</td>
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<td>Jeana Kriewaldt</td>
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<td>10.15am</td>
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<td>Morning tea in the Exhibition area</td>
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<td>10.45am</td>
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<td><strong>FOUNDERS’ KEYNOTE ADDRESS</strong></td>
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<tr>
<td></td>
<td></td>
<td>Conference Opening: Rob Gell AM</td>
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<td>Sponsors Word: Latitude Group Travel</td>
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<td>Founders’ Honour: Bill Stringer</td>
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<td><strong>Keynote Addresses:</strong></td>
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<td></td>
<td></td>
<td>- Bernard Salt AM</td>
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<td></td>
<td></td>
<td>Reshaping Our Nation: The New Geography of Australia and its People</td>
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<td>- Professor Roz Hansen</td>
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<td>Planning to create a sustainable Melbourne by 2050</td>
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<td><strong>GTAV Awards:</strong></td>
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<td></td>
<td>- Alex Lyne Fieldwork</td>
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<td>- GeoTECH</td>
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<td>12.20pm</td>
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<td>Lunch and networking in the Exhibition area</td>
</tr>
</tbody>
</table>
### 1.20pm 3 • WORKSHOP SESSIONS

| 3 a | Refresh your geographical skills – Jane Bellamy |
| 3 b | Story maps – every map has a story to tell – Dr Joseph Kerski, Natassja Dasios |
| 3 c | What in the world does water have to do with liveability? – Mary Catus-Wood |
| 3 d | Awe-some Geography – Anna Haigh |
| 3 e | Connecting Year 9s and 10s to the world and global issues – Anne Miles |
| 3 f | Making online spatial interconnections – Robert Barry, Rezza Moieni, Bob Winters |
| 3 g | Inspiring sustainability in a changing world through education – Matt Montemurro |
| 3 h | Spatial technologies and VCE – Mick Law |
| 3 i | Two approaches to VCE Units 1 and 2: Cape Woolamai hazards and Great Ocean Road tourism – Helen Masters, Paul Cross |
| 3 j | Under cover: understanding VCE Unit 3 – land use and land cover – Assoc Prof Ian Rutherfurd |

### 2.20pm Session Changeover

### 2.30pm 4 • IN CONVERSATION WITH BRUCE PASCOE

All conference delegates will attend this session.

A fascinating discussion of past, present and future sustainable practices in agriculture and land management led by renowned author and speaker, Bruce Pascoe.

Bruce has gathered evidence that supports the notion that systems of food production and land management have been blatantly understated in modern retellings of early Aboriginal history – and urges a new look at Australia’s past.

Ben Stockwin (PIEFA) will introduce the conversation with Bruce. Dr Cameron Archer AM (PIEFA), will then join Monica Bini (VCAA Curriculum Manager – Humanities and Social Sciences) to interview Bruce and highlight the Geography curriculum focus of his work.

### 3.20pm Day end

### 5.30pm CONFERENCE DINNER

*Il Nostro Posto, 60 Hardware Lane, Melbourne – Book when you register*
<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>8.15am</td>
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<td>Registration opens</td>
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<td>9.00am</td>
<td>5</td>
<td><strong>KEYNOTE</strong></td>
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<td><strong>Opening Address:</strong> “Geography Teachers in the Education State”</td>
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<td>The Hon. James Merlino MP, Deputy Premier, Minister for Education, Minister for Emergency Services</td>
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<td><strong>KEYNOTE PANEL: Unlocking STEM: Geography is the key</strong></td>
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<td>Facilitator – GTAV Patron, Rob Gell AM</td>
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<td>The Panel will discuss how geographical knowledge and skills enable our students to make sense of the world around them.</td>
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<td>Joseph Kerski – Esri USA</td>
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<td>Adele Bear-Crozier – Australia Bureau of Meterology</td>
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<td>Stuart Minchin – Geoscience Australia</td>
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<td>Karen Joyce – <em>She Flies</em>, James Cook University</td>
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<td>10.30am</td>
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<td><strong>Morning tea in the Exhibition area</strong></td>
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<td>11.00am</td>
<td>6</td>
<td><strong>WORKSHOP SESSIONS</strong></td>
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<tr>
<td></td>
<td>6 a</td>
<td>A survival kit for the Geography classroom – Jennifer King</td>
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<tr>
<td></td>
<td>6 b</td>
<td>Mapping Melbourne’s natural and cultural landscape – then and now – Dean Stewart, Melinda Clarke</td>
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<td></td>
<td>6 c</td>
<td>Spatial connect – the use and application of spatial technologies – Patrick Bonney, Judy Mraz</td>
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<td>6 d</td>
<td>Engaging activities that help make sense of Geography – Paul Cross, Andrea McCann</td>
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<td>6 e</td>
<td>Taking it outdoors: water in the world, landforms and landscapes – Tim Wright, Georgie Brown</td>
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<td>6 f</td>
<td>Food and fibre education and rabbit mapping in Geography – Ben Stockwin, Rowan Tierney</td>
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<td>6 g</td>
<td>Changing world views and fresh approaches to inland water environments – Lorraine Chaffer</td>
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<td>6 h</td>
<td>Investigating global issues: famine in a world of plenty and slumming it! – Annalise De Mel, Christian Macher</td>
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<td>6 i</td>
<td>Frog census in schools – a level 10 Geography stem activity – James Frazer</td>
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<td>6 j</td>
<td>Transforming fieldwork with BYODs – Rebecca Nicholas</td>
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<td>6 k</td>
<td>Hope and grief, hazards and disaster – Professor Lesley Head</td>
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<td></td>
<td>6 l</td>
<td>VCE Units 1 and 2: fieldwork at Lake Mountain – Sue Parry</td>
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<td>6 m</td>
<td>Land use change: Winton Wetlands case study – Annette Thompson, Bob Winters</td>
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<tr>
<td>12.00pm</td>
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<td><strong>Session Changeover</strong></td>
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### Schedule • Monday

<table>
<thead>
<tr>
<th>Time</th>
<th>Code</th>
<th>Title and presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.10pm</td>
<td>7</td>
<td><strong>STEM WORKSHOP WITH JOSEPH KERSKI</strong></td>
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<tr>
<td></td>
<td></td>
<td>All conference delegates will attend this session.</td>
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<tr>
<td></td>
<td></td>
<td><strong>Spatial technology – what you need to know and how you can do it brilliantly</strong></td>
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<td>Join Dr. Joseph Kerski (Education Manager, Esri USA) and Natassja Dasios (Education Program Manager, Esri Australia) in this special workshop – for all conference participants – to explore the endless possibilities for teaching with GIS in the Levels 7–10 Geography Curriculum and VCE units. It will focus on how you and your students can easily access and use dynamic web maps and apps, collect and analyse your own field data and present your results in a multimedia environment.</td>
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<tr>
<td>1.10pm</td>
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<td><em>Lunch and networking in the Exhibition area</em></td>
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<tr>
<td>2.10pm</td>
<td>8</td>
<td><strong>WORKSHOP SESSIONS</strong></td>
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<tr>
<td></td>
<td>a</td>
<td>Help is at hand! Becoming effective at teaching Geography at 7–10 level – Doug Cargeeg, Judy Mraz</td>
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<td></td>
<td>b</td>
<td>Bringing your Geography classes to life with virtual reality – Adrian De Fanti, Mike Pearson</td>
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<td>c</td>
<td>Water resource management: real world issues done differently – Kerryn Molloy</td>
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<td>d</td>
<td>Geography challenges and opportunities – Ben Rood</td>
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<td>e</td>
<td>For richer, for poorer: examining spatial inequality with the Big Issue Classroom – Melissa Walsh, Chris Mitchell</td>
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<td>f</td>
<td>Geography drives recovery and preparedness: people and place in disasters – Chris Piper, Kim Doherty, Rhonda Abotomey</td>
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<td>g</td>
<td>More than just places and maps: meet the geographer’s best friend – Ray Pask, Jill Price, Lynne Griffiths, Jane Bellamy, Alex Rossimel</td>
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<tr>
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<td>h</td>
<td>Expanding our world: a panel on global education – Alexandra Hilvert, Marilyn Snider, Jan Molloy</td>
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<td>i</td>
<td>Connecting schools and nature through digital technologies – Melanie Brown</td>
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<tr>
<td></td>
<td>j</td>
<td>Conducting efficient and effective fieldwork at every level – Naomi Baulch</td>
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<td>k</td>
<td>A year of teaching Year 11 Geography – Benn Jamieson</td>
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<td>Transformative tourism: what does the data say? – Andrew Eadon</td>
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<td>m</td>
<td>Human Population: trends and issues – Dr Stephen Legg</td>
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<tr>
<td>3.10pm</td>
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<td><em>Day End</em></td>
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</table>
Melbourne Water has education programs for primary and secondary students which focus on the urban water cycle.

Resources include:
- Tours of the treatment plants
- Sessions at the Edithvale Seaford Wetland Education Centre
- Frog Census program
- Activities and Lesson Plans for the classroom
- Videos on wetlands, citizen science and sewage treatment

Our activities support the Australian Curriculum and ResourceSmart

melbournewater.com.au
## Fieldwork Trips

<table>
<thead>
<tr>
<th>Code</th>
<th>Location</th>
<th>Title and presenter</th>
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<tbody>
<tr>
<td>9 a</td>
<td>Toolangi</td>
<td>Tall timbers of Toolangi: field work opportunities across secondary Geography – Carolyn Murphy</td>
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<tr>
<td>9 b</td>
<td>Fitzroy</td>
<td>Changing land use in Fitzroy – Jane Bellamy</td>
</tr>
<tr>
<td>9 c</td>
<td>CBD</td>
<td>GIS in the field – Dr Joseph Kerski, Natassja Dasios, Kate Williams</td>
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<tr>
<td>9 d</td>
<td>Freshwater Creek, Winchelsea</td>
<td>The 100km pizza and sustainable farm – James McLellan, Andrew and Jill Stewart, Andrew Dodson</td>
</tr>
<tr>
<td>9 e</td>
<td>Dandenong Creek</td>
<td>Exploring Dandenong Creek – Yvonne Cabuang</td>
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<tr>
<td>9 f</td>
<td>Lake Mountain</td>
<td>VCE Units 1 and 2 at Lake Mountain – Sue Parry</td>
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<td>9 g</td>
<td>Berwick</td>
<td>Land use change at Wilson Botanic Park using spatial technology – Andrew Chisholm</td>
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<td>9 h</td>
<td>CBD</td>
<td>Museums add value to students’ understanding and skills – Jan Molloy, Liz Suda</td>
</tr>
<tr>
<td>9 i</td>
<td>Melbourne Zoo</td>
<td>Significant interconnections: how our small decisions have great impacts on wildlife and wild place – Hilary Hughes</td>
</tr>
<tr>
<td>9 j</td>
<td>Hampton</td>
<td>Help! How do I run a geography fieldtrip? – Adrian De Fanti</td>
</tr>
</tbody>
</table>

**Alex Lyne Fieldwork Award**

The Alex Lyne Fieldwork Award recognises the importance of fieldwork in the school Geography curriculum.

It is in the field that students learn skills and consolidate knowledge learnt in the Geography classroom. For many students, fieldwork is the highlight of their study of Geography.

The Award was named after Alex Lyne whose passion for fieldwork is legendary. He fostered the integration of fieldwork into the Geography curriculum in Victorian schools. The GTAV is proud to offer this award in honour of Alex Lyne, founding President of the GTAV.

There are three categories:

- **F–6**
- **7–10**
- **VCE and IB**

For criteria and details on submissions, please go to [www.gtav.asn.au](http://www.gtav.asn.au)
### 1 a  BRINGING KEY GEOGRAPHY CONCEPTS TO LIFE

This workshop provides some practical and fun activities to teach students key geographic concepts. It includes a range of activities suited to both Levels 7–10 and VCE Units 1 and 2. Sample activities and lessons which both explicitly and implicitly teach key geographic concepts will be demonstrated to participants. These include classroom-based tasks as well as fieldwork, practical activities and mapping tasks, many of which can be adapted across year levels. Opportunities for discussion and sharing of materials will be available.

**Megan Armstrong,**
Carey Baptist Grammar School

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### 1 b  ASSESSMENT STRATEGIES

This session introduces participants to the new Indicative Progress examples developed by the VCAA to support assessment for Levels 7–10. It aims to build teacher capability by drawing on examples developed by the VCAA that show expectations of student achievement as they move through the learning continuum from Levels 5 and 6 to Levels 7 and 8 and 9 and 10. The session aims to help teachers to develop their own templates and to gain an insight into using the achievement standards for rubric design.

**Monica Bini,**
VCAA

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### 1 c  SPATIAL TECHNOLOGY – THE BASICS TO GET YOU STARTED

With the prevalence, both of spatially-enabled personal technologies and the wider applications of spatial technologies in society today, students’ capabilities in, and understanding of the field is increasingly important. Spatial technologies are included in the Victorian and Australian Geography curricula and are a tangible link between Geography and Science, Technology, Engineering and Mathematics (STEM). Geography teachers need to be equipped with the knowledge and understanding of these spatial technologies to confidently use and apply them with their students. The GTAV is producing a web-based course module for Geography teachers which will provide this knowledge and improve competencies in teaching about and using spatial technologies. Available in 2018, this workshop will provide teachers with samples of the topics and work requirements covered within the course module.

**Stephen Matthews,**
Federation University Australia

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### 1 d  TWO DIFFERENT APPROACHES TO GEOGRAPHY TEACHING: USING STORYBOOKS AND INTEGRATING LEARNING

Gavin will present the use of picture storybooks in the classroom to introduce and support the Victorian Curriculum: Geography, especially the areas of sustainability, citizen science and global education. The session will focus on some specific topics (sub-strands) such as Level 7: Water in the world, Level 7: Place and liveability and Level 10: Environmental change and management.

Karoline will share her experiences teaching an integrated curriculum approach, of bringing Geography, Science and STEM together at Level 7: Water in the world. You will gain some ideas for local creek fieldwork, and for covering sustainability and urban water design within your curriculum.

**Gavin Jones,**
Melbourne Girls Grammar

**Karoline Walter,**
St Michael’s Grammar School
**AUSTRALIA’S FOOD BIOMES**

This workshop will explore how research into the food biomes around Australian cities can be used to teach the **Level 9: Biomes and food security**. The workshop will draw on the latest research findings from the *Foodprint Melbourne* project to investigate the food bowls around Australia’s state capitals, and their significance for the food security of rapidly growing urban populations. Australia’s city food bowls have historically been important to fresh food supply, but will the growing challenges from urban sprawl, water scarcity and the impacts of climate change undermine their capacity to feed city populations into the future?

**PLANETOLOGY – SIMULATING A PLANET TO SAVE**

Ben and Cristy have created a highly-immersive environmental simulation game played on a massive three-level board during **Level 10: Environmental change and management** as well as Environmental Education classes. Students form eight groups (banker, NGOs, citizens, primary producers, industry, government and planners) and are provided with a number of global environmental challenges to solve. Students balance budgets, learn Geography and Science content, problem solve, communicate and negotiate – all in a highly-engaging way. Learn the basics of gamifying your curriculum, access game materials for free and bring the power of interactive simulation to your classroom!

**MORE THAN JUST PLACES AND MAPS: MEET THE GEOGRAPHER’S BEST FRIEND**

The Jacaranda Atlas turns 50 years old in 2018 and, to celebrate, we’re releasing a brand new edition of this award-winning Geography resource. This latest edition combines the best of print – hard cover, more maps, bigger maps and new and updated case studies – with the latest online technology. For the first time, the Jacaranda Atlas also comes with an eBookPLUS to enable a more dynamic and personalised learning experience for students. More than just a reference for locating places, the Atlas resource package fully supports the units in the new curriculum at every year level from **Levels 7–12** and can also be used to teach essential geographical skills.

Attend this hands-on workshop to learn more about the new edition and explore the eBookPLUS, including the new interactive wall maps, online statistical mapper and online teacher support. Designed for non-Geography trained and experienced teachers alike, you will leave with sample resources and the skills and confidence to use this essential reference in the classroom. Participants will also receive a complimentary copy of the Atlas and a wall map to keep (one set per school).

**PLANNING AN INTERNATIONAL STUDY TRIP AND CREATING SCHOOL PARTNERSHIPS**

Geography and Intercultural Capability in the Victorian Curriculum lend themselves to international study opportunities for students. Planning for and leading a study tour for a group of students can be overwhelming without an understanding of the processes and procedures that will need to be followed at school, regional and state levels. This workshop will present a step-by-step guide to plan and conduct an international study tour, including fundraising ideas. It will also introduce the opportunities that are available to host international teachers and students short term within your school.
VCE UNIT 1: A SPATIAL EXPLORATION OF BUSHFIRE VULNERABILITY

An understanding of the use of spatial technologies is an essential part of the new VCE Study Design. This hands-on workshop will give you the opportunity to explore a new GIS resource developed by the GTAV for use in VCE Unit 1: Hazards and disasters. The resource focuses on the analysis of five locations around Victoria, comparing their geographic characteristics, fire history and bushfire management. Activities include using Google Earth to manipulate GIS data layers, construct elevation profiles, compare satellite images and compare findings. Comprehensive instructions and tutorial videos will be provided. Participants are asked to please bring headphones.

APPROACHES TO TEACHING VCE UNIT 4: HUMAN POPULATION

Cathie and Jeana will outline their approaches to an in-depth study of population change related to VCE Geography Unit 4 Human population: trends and issues. The purpose of this study is to engage students with one of the big issues of our time. Examples of topic sequences and assessment examples will be provided. Key resources will be shared and participants will also be able to share their own approaches and resources with the group.
Founders' Honour – Bill Stringer

Keynote Address – Bernard Salt AM

RESHAPING OUR NATION: THE NEW GEOGRAPHY OF AUSTRALIA AND ITS PEOPLE

Keynote speaker Bernard Salt AM argues that it is critical that Australian business and the broader community develop an understanding of who we are as a people. In this regard the Geography-teaching community has an important role to play in educating Australians about the new Geography of the Australian people and continent. Our nation must change in the future. Big Australia, a more Asian-Indian-Arabic Australia, an older Australia, a more connected Australia, will all have their part to play in the 2020s and beyond.

Keynote Address – Professor Roz Hansen

PLANNING TO CREATE A SUSTAINABLE MELBOURNE BY 2050

Keynote speaker Professor Roz Hansen has been the most influential person in designing the future development of Melbourne for 2017 to 2050 as Chair of both Plan Melbourne Ministerial Advisory Committees – under both Liberal and Labor State Governments. Will we recognise Melbourne in 2050? – Roz is one of the world’s leading planners and recognises that understanding Geography is a key to achieving sustainable land use change.

GTAV Awards
3 • Workshop Sessions

1.20pm

3 a
REFRESH YOUR GEOGRAPHICAL SKILLS

7–10
This session is a practical workshop for teachers new to Geography or wanting a refresher on embedding basic geographical skills into units of work. It will include developing units of work within your curriculum to include basic and essential mapping skills, plus topographical mapping, presenting and interpreting data and finding appropriate and interesting resources for your students. The session will end with suggestions for criteria referenced assessment.

Jane Bellamy,
Ivanhoe Grammar School

3 b
STORY MAPS – EVERY MAP HAS A STORY TO TELL

7–10
Harness the power of maps and Geography to deliver your lessons in new and exciting ways! Esri Story Maps let you combine maps, text, multimedia content and images to tell stories about neighborhoods, communities, nations, and the world. Learn practical tips for using free, online technology to present engaging and informative lessons. At the end of the session, you’ll have the ability to guide your students through creating and sharing their own Story Map, which will improve learning opportunities within the Geography curriculum.

Dr Joseph Kerski,
ESRI USA
Natassja Dasios,
ESRI Australia

3 c
WHAT IN THE WORLD DOES WATER HAVE TO DO WITH LIVEABILITY?

7–10
This workshop provides some ideas to help your students understand the water cycle and its importance – the way that flows of water connect places by moving through the environment and the way this movement affects places including settlement, environmental quality and liveability. Learn where you can find out about the quantity, demands and variability of water resources in Melbourne, how this usage has changed and what is being planned for the future. This presentation covers Level 7: Water in the world and Level 7: Place and liveability.

Mary Catus-Wood,
Melbourne Water

3 d
AWE-SOME GEOGRAPHY

7–10
We are lucky to teach a subject that is relevant, interesting and awe-inspiring. In this session we will consider ways in which we can instil in students a sense of wonder and curiosity about the world whilst also providing opportunities for students to be active, inquiring citizens. Anna will use examples from Levels 7–10 with particular emphasis on Level 9 Biomes and food security and Level 10: Geographies of human wellbeing to look at resources, teaching methods, fieldwork activities, games and co-curricular events.

Anna Haigh,
Melbourne Grammar School

3 e
CONNECTING YEAR 9 AND 10 TO THE WORLD AND GLOBAL ISSUES

7–10
The workshop will provide engaging ideas used to teach the Levels 9 and 10 curricula. Anne will share case studies used in Level 9: Geographies of interconnections based on the internet, internet access and the ivory trade. Participants will also be introduced to a number of resources, activities and assessment tools that are used to teach the Level 10: Geographies of human wellbeing and Environmental change and management which include case studies on the global issues of climate change, refugees, landmines, poverty and HIV/AIDS.

Anne Miles,
University High School
**3 f**

**MAKING ONLINE SPATIAL INTERCONNECTIONS**

Facilitator: Maree Boyle, Highview Christian Community College

Robert and Rezza will introduce you to Cultural Infusion’s digital apps that have been designed to provide fun and simple ways for Level 7 students to grasp intercultural understanding through gamification. The apps encourage making connections between students’ personal world and the worlds of others and the discovery culture that can become shared interests and interconnections. The apps, including Pocket Planet (http://jokosworld.com/apps/pocket-planet/), can be downloaded from the App Store. Please bring your iPad to this session.

Bob will present online Ports education materials which are most relevant to Level 9: Geographies of interconnections. This unit applies to a range of online spatial technologies to investigate shipping transport hubs and their connection with communities. Materials will be downloaded at the workshop and teachers will find that these online spatial technologies are easy and fascinating to use.

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**3 g**

**INSPIRING SUSTAINABILITY IN A CHANGING WORLD THROUGH EDUCATION**

Global citizenship and environmental sustainability have become key focus areas in society's environmental world views. AMMCF’s Applied Science Education incursions provide students with a strong background in these areas – educating, empowering and inspiring students to question, reflect and actively participate in the growth of their own roles as global citizens. This applied research, is used to assess ecosystem health and population dynamics. Suitable for Level 10: Environmental change and management this session will also look at the growing number of environmental threats, including the problem of plastics pollution, and how these threats impact both the land and marine environments.

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**3 h**

**SPATIAL TECHNOLOGIES AND VCE**

This workshop will provide an overview of spatial technologies and how these can be embedded into VCE Units 1 to 4. The spatial tools that this workshop will focus on are mainly GIS tools that are available online and for free. Mick will also provide a brief overview of how to create maps in Google Maps using collected data from data sites such as the ABS.

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**3 i**

**TWO APPROACHES TO VCE UNITS 1 AND 2: CAPE WOOLAMAI HAZARDS AND GREAT OCEAN ROAD TOURISM**

Cape Woolamai provides students with the opportunity to investigate and contrast different types of hazards, and consider causes, impacts, human responses and management. Suitable for VCE Unit 1: Hazards and disasters, students collect primary data on different biological and technological hazards including rabbit impacts and erosion mapping. Helen explains that maintaining biosecurity in the face of hazards and disasters is necessary to protect our environment.

Paul will present information and data on one of Victoria’s greatest tourist resources which is at risk – the Great Ocean Road. Explore the idea of conducting a two-day fieldwork along the Great Ocean Road as a opportunity in VCE Unit 2: Tourism. The workshop will provide examples on the collection of data and an investigation and discussion into the issues associated with the recent boom in tourist numbers in this region.

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**3 j**

**UNDER COVER: UNDERSTANDING VCE UNIT 3 – LAND USE AND LAND COVER**

The large amount of content covered in VCE Unit 3: Changing the land can be overwhelming. This session is dedicated to clarifying some of the challenging areas of this unit, but most of the time will be dedicated to answering questions and sharing teaching approaches amongst participants. Come prepared to ask Ian your most difficult questions on content and teaching about this topic.
The world is made up of many places. Places have names and special meanings for people.

It is important to use the environment and resources so they can be shared by all people and living creatures now and into the future.

Supported by classroom-ready activities based on the seven Geography concepts.

Geography concept posters for Primary and Secondary classrooms.

There are two sets available: Primary and Secondary
Each set contains: 1 set of 7 posters each A2 in size – Primary or Secondary
1 set of support activities on USB

PRICE: $100 per set (GTAV members) $125 per set (non-members)
Sunday Afternoon Conversation

2.30pm

All conference delegates will attend this session.

This session is proudly sponsored by Primary Industries Education Foundation Australia (PIEFA).

IN CONVERSATION WITH BRUCE PASCOE

Bruce Pascoe, Australian Indigenous author
Ben Stockwin, CEO, Primary Industries Education Foundation Australia (PIEFA)
Dr Cameron Archer, AM, Chairman, Primary Industries Education Foundation Australia (PIEFA)
Monica Bini, Curriculum Manager, (Humanities and Social Sciences) VCAA

For all delegates this fascinating discussion of past, present and future sustainable practices in agriculture and land management will be led by renowned author and speaker, Bruce Pascoe. Bruce has gathered evidence that supports the notion that systems of food production and land management have been blatantly understated in modern retellings of early Aboriginal history – and urges a new look at Australia’s past.

*The knowledge and skills that students are expected to develop about Aboriginal and Torres Strait Islanders histories and cultures has a particular and enduring importance and this is reflected in mandated curriculum content set out in the content descriptions of different learning areas. (Monica Bini, 2017)*

The conversation will focus on VC Geography Content Descriptions:

- **Levels 7 and 8** Spiritual, economic, cultural and aesthetic value of water, landforms and landscapes that influence the significance of places for ATSI peoples and ways of protecting them
- **Levels 9 and 10** Land and resource management strategies used by ATSI peoples to achieve food security over time and their approaches to custodial responsibility and environmental management.

Ben Stockwin will introduce the conversation with Bruce. Dr Cameron Archer AM, will then join Monica Bini to interview Bruce and highlight the Geography curriculum focus of his work.
5 • Keynote

This session is proudly sponsored by Jacaranda.

OPENING ADDRESS
“Geography Teachers in the Education State”
The Hon. James Merlino MP, Deputy Premier,
Minister for Education, Minister for Emergency Services

Keynote Panel

UNLOCKING STEM: GEOGRAPHY IS THE KEY
Facilitator – GTAV Patron, Rob Gell AM

The Panel will discuss how geographical knowledge and skills enable our students to make sense of the world around them by providing the integrating interconnections of Science, Technology, Engineering and Mathematics (STEM) across different scales.

Joseph Kerski will examine how educational GIS supports core STEM tenets, and how you can use the tools, data, maps, and techniques in it to open the world of GIS to your students.

Adele Bear-Crozier will show how Geography is critical to understanding the physical geography of volcanics along with and risk, hazard and emergency response planning.

Stuart Minchin’s focus is on the STEM of Geoscience and the central role that Geography plays in his organisation.

Karen Joyce’s role with She Flies is to increase gender equality in STEM, using the world of drones to inspire and provide a platform for change to occur. She Flies builds high quality STEM leadership and learning opportunities through drone education for girls and women.
A SURVIVAL KIT FOR THE GEOGRAPHY CLASSROOM

Teachers without a specialist Geography background often find themselves teaching a Geography class. This does not have to be daunting. In this workshop, you will be introduced to the appropriate use of geographical concepts, plus some fun ideas and sanity savers to use within your classes in Levels 7 and 8. You might be surprised at how easy it is to grasp a Geography perspective and that you can enjoy your Geography class time.

MAPPING MELBOURNE’S NATURAL AND CULTURAL LANDSCAPE – THEN AND NOW

A Sense of Place! Dean created his Once As It Was map, revealing detail of the local lands before Melbourne was Melbourne, before white people arrived – the beautiful salt lake of magenta fire and our own temperate Kakadu. Dean is now looking to further develop this map with The University of Melbourne School of Geography and establish a rich multi-layered, digital, 3D educational resource – connecting all to the local indigenous natural and cultural landscape of today’s Melbourne region, merging time past and present.

Melinda’s first Melbourne Map is now an historic view of Melbourne as a metropolis in the 1990s. It was hand-drawn and accurately coloured from over 7000 reference photos – many taken from a hot air balloon. This map became a very popular and much loved pictorial reference of the city and adorned the walls of many businesses, homes and schools. After witnessing incredible changes to Melbourne’s skyline over the past 27 years, Melinda is on a mission to embrace new technology and produce the (new) Melbourne Map in 2017. This presentation will cover the old and new techniques for illustrated map making.

SPATIAL CONNECT – THE USE AND APPLICATION OF SPATIAL TECHNOLOGIES

Growth in the use and application of spatial technologies is critical in helping people understand the world in which they live. Geography students are very fortunate that they have the opportunity to use a range of spatial technologies in their learning experiences. This workshop provides teachers with an opportunity to work with the innovative spatial information available through Federation University Ballarat’s FedUni Spatial portal. Numerous lessons and activities have been written for the Spatial Connect project to guide students to use critical thinking skills to read and interpret the rich maps and data applicable across many topics in Levels 7–10.

ENGAGING ACTIVITIES THAT HELP MAKE SENSE OF GEOGRAPHY

Engage me or enrage me… please don’t ask me to read yet another chapter and answer the questions. Paul will provide examples of classroom activities that encourage thinking, collaboration and debate. Providing hands-on examples of easy-to-run classroom activities, this presentation would be particularly useful for those teaching Geography for the first time. This session is suitable for Levels 7 and 8.

Andrea will illustrate how Economics topics and content can be integrated into a study of Level 7: Water in the world. Andrea will share her two-week unit that integrates Geography and Economics concepts and skills using the topic of bottled water.
**6 e**

**TAKING IT OUTDOORS: WATER IN THE WORLD, LANDFORMS AND LANDSCAPES**

This session will provide participants with ideas and activities relevant to the Level 7: Water in the world and Level 8: Landforms and landscapes. Firstly, learn how a “jigsaw” excursion can engage students in their understanding of water sustainability. Then, discover how Christian College Geelong has blended its highly-successful Outdoor Education program with both Geography and Science to provide students with a Level 8 fieldtrip they will never forget.

*Tim Wright and Georgie Brown, Christian College Geelong*

**6 f**

**FOOD AND FIBRE EDUCATION AND RABBIT MAPPING IN GEOGRAPHY**

Facilitator: Anne Miles, University High School

The Primary Industries Education Foundation Australia (PIEFA) is the peak body for food and fibre education. PIEFA has produced over 30 high-quality F–10 resources, available online and for free for teachers. Kelly and Ben will present a Level 9 Geography unit and then explore their Level 7: Water in the World unit (developed with GTAV). The session will provide interactive links to highlight the wide selection of food and fibre classroom activities available and you will be provided with the easy-to-use learning sequences and other resources.

In conjunction with the Mallee Catchment Management Authority (MCMA), Rowan has developed a partnership to map the invasive rabbit species at a variety of sites using GIS. Students complete this fieldwork with the support of locally-based environmental officers. The school also engaged with the MCMA to plan for the sustainable development of its grounds using the data and investigations developed by students. Future implications for the sites and the resultant student learning conclude the session. This part of the session will focus on Level 9: Biomes and food security, Level 10: Environmental change and management and aspects of VCE Unit 3: Land Use Change.

*Ben Stockwin, PIEFA\*

*Rowan Tierney, Birchip P–12*

**6 g**

**CHANGING WORLD VIEWS AND FRESH APPROACHES TO INLAND WATER ENVIRONMENTS**

This workshop, appropriate for Level 7: Water in the world and Level 10: Environmental change and management, will investigate changing attitudes to inland water environments – mainly rivers and wetlands – using contemporary global, Australian and Victorian examples. Understand the functioning of these environments and the biophysical processes essential to environmental health. The workshop will investigate waterways longitudinally (source to mouth) and laterally (rivers, floodplains, wetlands). Content will include the causes and consequences of change and contemporary management approaches, including new technologies and apps. Participants will identify environmental change and management issues for deeper inquiry and leave confident of fulfilling Victorian Curriculum requirements relating to concepts, skills and content with some links to new resources.

*Lorraine Chaffer, GTANSW*
INVESTIGATING GLOBAL ISSUES: FAMINE IN A WORLD OF PLENTY AND SLUMMING IT!

The world stands on the brink of an unprecedented four famines in 2017. This workshop, based on Oxfam’s work on the ground in a number of locations, gives an overview of the hunger crises and the Integrated Food Security Phase Classification. Explore what “Famine” really means and hear stories from the field and ideas of what students can do to help. These case studies are suitable for Level 9: Biomes and food security and Geographies of interconnection and Level 10: Geographies of human wellbeing and VCE Geography Unit 4: Human populations – trends and issues. Teachers will be provided with a presentation and video to educate and inspire students to take action.

As part of the Level 8: Changing nations, Christian presents a unit in which students explore the consequences of urbanisation and overpopulation. Apartments are getting smaller and slum-like conditions are being created in many global cities. This workshop provides participants with practical ideas and activities on creating an apartment and slum in the classroom to both engage the students and meet curriculum outcomes.

FROG CENSUS IN SCHOOLS – A LEVEL 10 GEOGRAPHY STEM ACTIVITY

Did you know frogs are the most threatened class of vertebrates? Melbourne Water (MW) has recently developed a new package of curriculum resources that will enable your students to understand threats facing frogs and draw on spatial technology to guide effective school-based monitoring and conservation. Through a study in Level 10: Environmental change and management, participants discover how they can involve students in the collection of meaningful data that influences how resources are managed for the benefit of frogs. You will learn how to use the Frog Census app and curriculum resources to participate in MW’s Frog Census program. You’ll also learn practical methods for creating a frog-friendly habitat within your school.

TRANSFORMING FIELDWORK WITH BYODs

In this workshop, Rebecca will introduce participants to a variety of BYOD tools that will enhance current fieldwork. She will also provide an overview of some of the tasks she has used with her Geography students across 7–12 that have incorporated a more hands-on and student focus towards fieldwork, where the students are the ones collecting the data making observations.

HOPE AND GRIEF, HAZARDS AND DISASTER

Facilitator: Margaret Bourke, McKinnon Secondary College

This presentation draws on recent research to discuss three tensions in the way we approach natural disasters; between resilience and transformation, insurance and uncertainty, and hope and despair. The presentation supports VCE Unit 1: Hazards and Disasters particularly related to “the economic choices available to government organisations and communities to take action”. Lesley also reflects on the emotional dimensions of discussing these issues with students.

Margaret will outline ways that she teaches these aspects of VCE Unit 1 and lead a group discussion of the successes and challenges. This is a part of Unit 1 that is important to teach in a sensitive way.
VCE UNITS 1 AND 2: FIELDWORK AT LAKE MOUNTAIN

Lake Mountain Alpine Resort is a location that can be used to satisfy some of the fieldwork and course work aspects of VCE Geography Units 1: Hazards and disasters and Unit 2: Tourism. Participants will be given an overview of the environment and resources available to study hazards and or tourism at Lake Mountain Alpine Resort and the possible locations for fieldwork available at this site.

LAND USE CHANGE: WINTON WETLANDS CASE STUDY

This workshop demonstrates how Winton Wetlands Reserve makes an excellent case study for land use change VCE Unit 3: Changing the land, Area of Study 1. Evidence of past and current land uses can be observed at the site. Many geographic skills are covered through the use of topographic maps and spatial technologies whilst developing background knowledge during class activities prior to fieldwork. A method for developing a research question will be shared. Support material will be provided, including a list of relevant secondary sources and detailed guides to a range of fieldwork activities for gathering primary data.

2017 GEOGRAPHY TRIAL EXAMS

The GTAV is once again publishing TWO Trial Exams.

GTAV TRIAL EXAMS 2017

- Provide students with the best opportunity to address the key knowledge and skills specified by VCAA in the Study Design under exam conditions
- Written by highly-experienced VCE Geography teachers who have presented at GTAV VCE conferences and workshops and, in some cases, been authors or reviewers of the very successful GTAV VCE textbook series
- Each exam incorporates a colour A4 booklet using a variety of colour data – maps, graphs, photographs, tables and text extracts

WHAT YOU GET

Each Trial Exam pack (A and B) includes:

- 1 set of 15 printed, high-quality colour Data booklets*
- 1 Question booklet (Blackline master format)
- 1 set of Guidelines for student responses
- 1 Marking sheet.

*No need for schools to do their own colour printing.

The GTAV takes no responsibility for any inaccuracies in the format or marking that may be different from the VCAA final exam in 2017.
SPATIAL TECHNOLOGY – WHAT YOU NEED TO KNOW AND HOW YOU CAN DO IT BRILLIANTLY

Dr Joseph Kerski, Education Manager, Esri USA
Natassja Dasios, Education Program Manager, Esri Australia

Geography is the school subject where students have the opportunity to work meaningfully in STEM with numerous spatial technologies. Spatial technologies are core to teaching the current Geography curriculum and are now simple to use and more powerful than ever. As essential teaching tools for all Geography educators, spatial technologies have evolved into a cloud-based platform that can be accessed on any device in the classroom and on smartphones in the field.

Join Dr. Joseph Kerski and Natassja Dasios in this special workshop – for all conference participants – to explore the endless possibilities for teaching with GIS in the Levels 7–10 Geography Curriculum and VCE units including hazards and disasters, place and liveability, population change and land cover change. Participants will discover how to teach fundamental concepts of land use, climate, population change, scale, environments and biomes, water sheds, energy and more, through modern, web-GIS technologies. It will focus on how you and your students can access and use dynamic web maps and apps, collect and analyse your own field data and present your results in a multimedia environment. Effective use of GIS in your classroom promotes critical thinking, ICT skills, communication and problem solving.

In addition, Esri Australia’s GIS for Schools Program pledges to donate FREE, online GIS technology to all schools to enhance learning opportunities for Australian students.
8 • Workshop Sessions

HELP IS AT HAND! BECOMING EFFECTIVE AT TEACHING GEOGRAPHY AT 7–10 LEVEL

7–10

Doug Cargeeg,
Point Cook College

Judy Mraz,
Geography Teachers’ Association of Victoria

Geography is a subject with content, skills, knowledge and understanding now mandatory and essential learning for all students from Foundation to Level 10 in Victoria. As the subject is offered to more students, there has been an increased demand for Geography teachers across all schools. To help teachers who may not have a teaching background in the subject and/or may be teaching Geography for the first time, the GTAV is developing a Certificate of Competency in Geography. This is a four-module, web-based course with an assessment component. This workshop will provide teachers with an introduction to three of the modules and include examples of content and assessment requirements that will be covered in: understanding and applying Geography concepts, understanding and applying Geography skills and conducting Geography fieldwork. Ideal for teachers without a specialist Geography background.

BRINGING YOUR GEOGRAPHY CLASSES TO LIFE WITH VIRTUAL REALITY

7–10

Adrian De Fanti and Mike Pearson,
Mazenod College

In 2016, Mike and Adrian began dabbling in Virtual Reality in their Geography classes. One year on, they return to the GTAV Annual Conference with some easy, affordable and practical ways to incorporate VR technology into Geography teaching. This hands-on session will cover how to run a Google Expedition, view 360° photos using Google Street View, take 360° photos during field trips and even go on a virtual trip to the top of Mt. Everest. Mike and Adrian will also share some of the challenges they faced and overcame in implementing this exciting technology at their school.

WATER RESOURCE MANAGEMENT: REAL WORLD ISSUES DONE DIFFERENTLY

7–10

Kerryn Molloy,
Murray-Darling Basin Authority

Understanding the value of a holistic view of water management is critical to MDBA’s successful implementation of the Basin Plan. This workshop demonstrates interactive activities to help students understand the problems of managing Australia’s most important water resource, particularly balancing the triple-bottom-line. Suitable for Level 7: Water in the world and Level 10: Environmental change and management, participants will see a hands-on game and a demonstration of an augmented-reality app based on real-world case studies: water sharing demands and using water infrastructure to provide environmental benefit (combating an invasive water weed). MDBA’s Run the River app will be used which allows students to learn by doing regarding the difficulties in meeting competing water needs in the driest inhabited continent on Earth.

GEOGRAPHY CHALLENGES AND OPPORTUNITIES

7–10

Ben Rood,
McKinnon Secondary College

This session focuses on teaching Levels 7–10 Geography, particularly in sharing resources and ideas with teachers without a specialist Geography teaching background or those new to teaching Geography at this level. It addresses the many challenges including differences in your students’ pre-existing knowledge and skills and also strategies to increase motivation and interest for the subject for example, through selecting the right examples and case studies and engaging teaching practises. Benjamin will initiate discussion relating to these and other challenges and recommend some ways that they can be overcome and build a strong Geography program in your school.
FOR RICHER, FOR POORER: EXAMINING SPATIAL INEQUALITY WITH THE BIG ISSUE CLASSROOM

This workshop, presented by Chris Mitchell (current Geography teacher) and Melissa Walsh, Program Coordinator of The Big Issue Classroom (TBIC) will demonstrate how The Big Issue Classroom can be a useful resource in the study of Level 10: Geographies of human wellbeing. In this session, teachers will be introduced to structure, format and content of TBIC’s popular Discussions about Homelessness and Disadvantage workshop. Chris will then explain how he has incorporated the workshop into a unit of work examining wealth inequality in Melbourne and share sample worksheets. To conclude, one of TBIC’s team of guest speakers will share some of their experience of homelessness.

GEOGRAPHY DRIVES RECOVERY AND PREPAREDNESS: PEOPLE AND PLACE IN DISASTERS

Chris has led consultations in response to humanitarian disasters including Tropical Cyclone Pam (Vanuatu, 2015), the Asian Tsunami (Indonesia, 2004) and the Black Saturday bushfires (Australia, 2009). In this session, he will firstly share his consultancy work providing training and support for governments, NGOs and local communities in disaster risk reduction. Kim Doherty, a VCE Geography teacher, then guides you through some of the ways she has used both fieldwork and spatial technologies, including TorqAid resources, to investigate bushfires and other hazards and disasters.

A person’s postcode - their physical place frequently tied to sense of place – can correlate with profound inequity in disaster events. How so? Rhonda shares first-hand experience that children and adults involved in disaster, unfortunately to have the "wrong" postcode, consequently needlessly suffer additional impact. Citizen scientist Rhonda is a 2009 Victorian Black Saturday Bushfire bereaved person, Royal Commission Witness, VBRRA Bereaved Advisory Group Member and advocate for improved trauma management in disaster events. She will speak about people, place and property, who and where disaster impacted people “really” are and posttraumatic growth as one of the many faces of trauma reaction.

MORE THAN JUST PLACES AND MAPS: MEET THE GEOGRAPHER’S BEST FRIEND

The Jacaranda Atlas turns 50 years old in 2018 and, to celebrate, we’re releasing a brand new edition of this award-winning Geography resource. This latest edition combines the best of print – hard cover, more maps, bigger maps and new and updated case studies – with the latest online technology. For the first time, the Jacaranda Atlas also comes with an eBookPLUS to enable a more dynamic and personalised learning experience for students. More than just a reference for locating places, the Atlas resource package fully supports the units in the new curriculum at every year level from Levels 7–12 and can also be used to teach essential geographical skills.

Attend this hands-on workshop to learn more about the new edition and explore the eBookPLUS, including the new interactive wall maps, online statistical mapper and online teacher support. Designed for non-Geography trained and experienced teachers alike, you will leave with sample resources and the skills and confidence to use this essential reference in the classroom. Participants will also receive a complimentary copy of the Atlas and a wall map to keep (one set per school).
EXPANDING OUR WORLD: A PANEL ON GLOBAL EDUCATION

The need for global education has become critical in the light of recent trends towards protectionism and issues such as climate denial. Fortunately, this area of the Australian and Victorian curricula falls in the realm of Geography teachers. High Resolves runs innovative global citizenship and leadership programs in secondary schools to motivate and empower young people to make a difference. The expert panel will raise the profile of global education and equip teachers with the motivation and skills to expand the teaching of these vital issues in their schools. The panel will include representatives from High Resolves and leading experts in the field.

CONNECTING SCHOOLS AND NATURE THROUGH DIGITAL TECHNOLOGIES

This workshop will outline a new approach from Parks Victoria to support teachers who visit parks and reserves as outdoor classrooms. Participants will be introduced to digital resources and technology to support citizen science and self-guided fieldwork at various locations. They will also work with RangerVision for schools, a new and exciting citizen science App for students.

CONDUCTING EFFICIENT AND EFFECTIVE FIELDWORK AT EVERY LEVEL

Fieldwork is an integral component of geographical studies at every level and is an important component in the Australian Curriculum, Victorian curriculum, VCE and IB. Participants will learn how Tintern Grammar organises Geography fieldwork. Discussion will take place on which units are most suitable for fieldwork, fieldwork requirements and information and ideas on how to differentiate and make fieldwork accessible to every student. Learn how rubrics are constructed and how we assist our students to achieve success in writing their fieldwork reports. Resources will be made available to each participant.

A YEAR OF TEACHING YEAR 11 GEOGRAPHY

Eighteen months into the new VCE Geography Study Design for Year 11 and I find my course is always evolving. At Ringwood Secondary College, Geography is undergoing a renaissance, helped by the new VCE course. I cover bushfires and the Ebola virus in Unit 1: Hazards and disasters and focus on the Yarra Valley for Unit 2: Tourism. If you are looking for ideas and resources, then bring your questions and portable hard drives, as I am willing to talk and share with participants what I do with my Unit 1 and 2 courses.
TRANSFORMATIVE TOURISM: WHAT DOES THE DATA SAY?

What does it mean to be truly transformative? The Cambridge English dictionary defines transformative as “causing a major change to something or someone, especially in a way that makes it or they better.” Can an organisation transform the tourist to be a more sustainably minded individual? Does Melbourne Zoo need to lead the way so that others will follow? Do we walk the talk? Does data support the change that Melbourne Zoo is hoping to deliver? In this session teachers will have access to tourism, campaign and sustainability data and discuss the challenges faced on this important journey.

HUMAN POPULATION: TRENDS AND ISSUES

This workshop deals with VCE Geography Unit 4: Human Population – trends and issues (Outcomes 1 and 2). Briefly covering the fundamental aspects of the course such as global population growth, fertility, mortality and migration, this workshop will examine some of the strengths and weaknesses in applying the Demographic Transition models and Malthusian and neo-Malthusian theories underlying population policy. A number of representative national demographic profiles will be compared from both stable (high growth) and stationary (low growth) populations and the rate and magnitude of recent population migrations described in their historical context.

VCE GEOGRAPHY REVISION STUDY GUIDE

Preparing for the Units 3 and 4 exam: VCE Geography Revision Study Guide

Preparing for the Units 3 and 4 exam is a revision guide designed to provide VCE students with opportunities to practise and revise the use of:

• directive terms
• geographical concepts
• geographical skills.

It provides a range of questions based on unseen data as great practice for the VCAA exam. 130pp including tear-out colour section.

www.gtav.asn.au
9 • Fieldwork Trips

Fieldwork is an essential mandatory component in the Geography curriculum from Foundation to VCE. Skills gained by students during fieldwork cannot simply be covered in a few lessons. Whilst it need not be difficult to introduce and organise fieldwork, teachers require knowledge, expertise and excellent management skills. Join us on a field day that will inspire you to get your students out of the classroom to observe, measure and understand the real world. If you think back to your school and university days, fieldtrips and excursions are long and fondly remembered learning experiences.

9a TALL TIMBERS OF TOOLANGI: FIELD WORK OPPORTUNITIES ACROSS SECONDARY GEOGRAPHY

Located just over one hour’s drive northeast of Melbourne in the majestic setting of the Victorian Central Highlands, Toolangi has many opportunities for secondary Geography fieldwork. We will explore tall eucalypt forests (both logged and unlogged), visit ancient cool-temperate rainforests, enjoy locally-produced gourmet food and be joined by field-expert guest speakers across multiple topics. This program aims to provide inspiration for fieldwork in:

Level 7 Unit 1: Water in the world, Level 8: Unit 1 Landforms and landscapes, Level 9 Unit 1: Biomes and food security, Level 10 Unit 1: Environmental change and management and VCE Units 1 and 3.

Caroline Murphy,
Gould League

9b CHANGING LAND USE IN FITZROY

The Fitzroy area was Melbourne’s first suburb and is changing rapidly from an industrial area to residential and other purposes. The goal of this trip is to provide you with the knowledge, skills, resources and contacts to make you an expert on using this suburb to conduct your VCE Unit 3: Changing the land field trip. These skills and resources are of course transferable to other land use field sites. This fieldwork will take you through an area which is easy to access and offers excellent opportunities to meet the fieldwork criteria. It is suitable for rural schools coming to Melbourne or as a site where students can revisit to consolidate their understanding.

Jane Bellamy,
Ivanhoe Grammar School

9c GIS IN THE FIELD

Take your fieldtrips to the next level with GIS technology using free mobile apps. Explore data collection using Survey123, Snap2Map and Crowd Sourced Story Maps; gather information on water quality, tree species, pedestrian counts, weather and more; then share all your data on a single interactive map and database. These tools will allow your students to collect meaningful data during their fieldtrip that can be later analysed and manipulated back in the classroom. You will learn the most effective way to present your field data on a map. Don’t miss your chance to learn from an international leader in GIS for education, Dr. Joseph Kerski (Ph.D).

The afternoon will be spent at GHD – one of the world’s leading companies operating in the global markets of water, energy and resources, environment, property and buildings and transportation. You will be guided through GIS scenario activities based on real world applications.

Dr Joseph Kerski,
Esri USA
Natassja Dasios,
Esri Australia
Kate Williams,
GHD
THE 100KM PIZZA AND SUSTAINABLE FARM

Do you need to teach Level 9: Biomes and Food Security and select a great site for fieldwork but don’t have contacts with farmers, land managers and business owners who understand the curriculum requirements, genuinely walk the talk and have to skills to engage your students with hand-on activities? This day will solve the problem for you.

During the morning session at The Farmer’s Place, we will investigate how far the ingredients for your average pizza have travelled, compared to those for a gourmet pizza made from locally grown and seasonal ingredients. Participants will discover amazing local producers, explore their onsite gardens and pick seasonal produce. We will then step into the kitchen and make our own gourmet pizza – cooked by our chefs in the café’s wood-fired pizza oven. The best part ... you get to enjoy it with a seasonal side salad. This activity aligns with the Level 9 Unit 1: Biomes and food security and your Level 9 students will love doing this when you bring them.

In the afternoon, we travel to the outstanding Stewart family farm near Winchelsea where owner Andrew Stewart will lead a fieldtrip focused on Level 9 Unit 1: Biomes and food security and of relevance to VCE Unit 3: Changing the land. The fieldwork resources have been developed by Geography teacher Andrew Dodson. The Stewart family has rehabilitated 30 per cent of their property back to trees and, using strategic planting, has been able to mitigate against soil erosion, salinity and drought, improve soil quality and reduce dependence on pesticide and fertilizer, all the while generating an income.

EXPLORED DANDENONG CREEK

Dandenong Creek is currently undergoing large-scale environmental works to create habitat for native fish, improve green space in Melbourne’s south-east and reduce stormwater pollution. This ties in perfectly with Level 7: Water in the world and Level 10: Environmental change and management. It is also relevant to both Areas of Study for VCE Unit 3: Changing the land (land use change). Find out about these different elements of the creek by joining one of Melbourne Water’s Waterwatch team to visit different sites along Dandenong Creek. During the fieldtrip you will also find out how to involve students in basic water quality monitoring, observing habitat and changes in the environment over time. A key goal of the day is to develop field skills and confidence to better incorporate primary data collection into fieldwork.

VCE UNITS 1 AND 2 AT LAKE MOUNTAIN

At the 2016 VCE Conference, Sue Parry outlined all of the ways that Lake Mountain Alpine Resort can be used for fieldwork for VCE Unit 1: Hazards and disasters and Unit 2: Tourism. It is also an ideal field site for Level 10: Environmental change and management. This day of fieldwork will demonstrate this field site for your classes including extensive resources developed in consultation with Geography teachers. You will also be provided with advice on accommodation and transport. As the closest and most accessible snow resort to Melbourne, Lake Mountain is a perfect site for extensive field studies.
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<th>9 g</th>
<th>LAND USE CHANGE AT WILSON BOTANIC PARK USING SPATIAL TECHNOLOGY</th>
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<tr>
<td>VCE</td>
<td>VCE text book author Andrew Chisholm will show how you can use Wilson Botanic Park in Berwick for VCE Unit 3: Changing the Land fieldwork. You will become an expert in all aspects of this site and associated assessment requirements and also learn how to use the GTAV class set of Garmin GPS units. These units are available for schools to borrow free of charge. You will also be introduced to other spatial technologies that can be used on this fieldtrip that are accessible by your smart phones.</td>
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<th>9 h</th>
<th>MUSEUMS ADD VALUE TO STUDENTS' UNDERSTANDING AND SKILLS</th>
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<td>7–10 VCE</td>
<td>The education teams at the Melbourne and the Immigration Museums have worked with the GTAV to develop great Geography resources that will engage your students before, during and after their visit. The education managers will show you the exhibits and resources that are essential for all Geography students in the morning at the Melbourne Museum, followed by lunch and a historical walk tour to the Immigration Museum in the afternoon. Science and History teachers will also find this fieldtrip an essential addition to their programs.</td>
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<th>9 i</th>
<th>SIGNIFICANT INTERCONNECTIONS: HOW OUR SMALL DECISIONS HAVE GREAT IMPACTS ON WILDLIFE AND WILD PLACE</th>
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<td>7–10 VCE</td>
<td>This fieldwork opportunity will involve a visit to Melbourne Zoo to discover how Zoos Victoria supports local communities to become active global citizens in “Fighting Extinction”. Our sites are designed to elicit pro-conservation values and promote behaviour change towards positive impacts on the environment and wildlife. Teachers will learn about the two key Geography programs offered at the Melbourne Zoo: Conservation Leadership designed for Levels 9 and 10 Victorian Curriculum and Tourism’s Impact designed for VCE Geography Unit 2: Tourism.</td>
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<th>HELP! HOW DO I RUN A GEOGRAPHY FIELDTRIP?</th>
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<td>7–10 VCE</td>
<td>If you haven’t been on a Geography fieldtrip before and want to learn how to run one at the most frequently selected site in Victoria, then this fieldtrip is for you. Covering both physical Geography at Hampton Beach and human Geography at Hampton Street shops, you will be proposing and testing hypotheses, collecting data and learning how to upload the data via your phone to maps and tables. Extensive background notes as well as information on how to produce a field report are provided and Adrian will demonstrate how you can replicate this trip in other similar beach or shopping strip sites.</td>
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Jacaranda

Founded in 1954, Jacaranda is the Australian School Division of Wiley, a leading global learning company. We develop and deliver inspirational digital learning solutions and education resources to secondary schools in Australia because we are deeply committed to the ideal that education brings life-changing benefits to all students. This year Jacaranda will be releasing a new edition of the iconic Jacaranda Atlas to celebrate its 50th Anniversary, which will be ready for use in 2018. The new Jacaranda Atlas marries the benefits of print and digital, combining a hardcover atlas with eBookPLUS.

Special thanks

The GTAV sincerely thank the following organisations:

**Latitude Group Travel**, Prime Partner of the GTAV, for their ongoing support throughout the year.

**Primary Industries Education Foundation Australia** for their generous support in bringing Bruce Pascoe for the Sunday afternoon Conference session.

**Esri** for providing Dr Joseph Kerski from the USA over the three days of our Conference.
Annual Conference Exhibitors

The GTAV gratefully acknowledges all those who have supported the Annual Conference. (current as of June 2017).
MDBA education
Supporting teachers

Free education resources

✓ Lesson plans for years 2 – 9
✓ Interactive online lessons
✓ Posters and stickers
✓ Smart device apps
✓ Animations
✓ Videos

For more information
e: education@mdba.gov.au
w: www.mdba.gov.au/education
The iconic Jacaranda Atlas celebrates its 50th Anniversary with a brand new edition

The new Jacaranda Atlas marries the benefits of print and digital, combining a hardcover atlas with eBookPLUS. The 9th edition features new and enhanced print maps and curriculum-linked case studies, as well as interactive wall maps and a statistical mapping tool.

For more information and sample content go to www.jacaranda.com.au/atlas50

Note: sample content will be added as it becomes available | *Limit of one atlas and one wall map per school