

2022 GTAQ Conference – Regenerate
Saturday 30th July 2022
All Saints Anglican School, Gold Coast



Conference Program

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| 8:00am | Registration opens |
| 8:45 – 9:15am | Welcome, Acknowledgement of Country and Important Updates |
| 9:15 – 10:15am | Keynote Speaker – Lucinda Hartley, Neighbourlytics |
| 10:15 – 10:30am | AGC Prize Winner Presentations and Product Launch |
| 10:30 – 11:00am | Morning Tea |
| 11:00 – 12:00pm | Workshop 1 |
| 12:05 – 1:05pm | Workshop 2 |
| 1:05 – 1:40pm | Lunch and Networking |
| 1:40 – 2:40pm | Workshop 3 |
| 2:45 – 3:50pm | How do we engage students in Geography? Student Spatial Technologies Presentation from Wavell State High School and Expert Spatial Technologies Panel |
| 3:50 – 3:55pm | Conference Thanks and Close |
| 3:55 – 5:30pm | Conference Drinks |

Workshop Session 1 Selections

All workshops will be held on the Ground Level of O Block. See map for location.

Workshop 1.1

High impact teaching strategies to improve students' data analysis and analytical writing skills

Presented by Madeline Wust and Terri Soteriou, Mansfield State High School

Room O1R01

In this workshop, Madeline and Terri will present a range of explicit teaching strategies that you can incorporate into your classroom practice to help students accurately analyse and interpret qualitative and quantitative geographical patterns, trends and relationships. They will also work through literacy strategies that can be used to help improve students' precise use of geographical terminology and analytical writing.

Workshop 1.2

Exploring the immersive potential of ArcGIS Storymaps

Presented by Jennah Williams, ESRI

Room O1R02

This session will be aimed at inspiring educators to use ArcGIS storymaps in their classrooms. I will show tips and tricks for creating and using this imaginative and immersive program in any year level or subject to incorporate data collection, field results, class presentation projects or simply bringing a subject to life! Allowing

educators of all capability levels to leave with confidence knowing they can use storymaps in any way that suits them.

Workshop 1.3

What skills do professionals need to respond to climate change?

Presented by Paul Dargush, Associate Professor in Environment Management at University of Queensland

Room O1R03

In this presentation I will provide an overview of a first-year undergraduate course I teach at UQ called 'Carbon and Energy Management'. The course is concerned with how society can best respond to climate change. I structure the course around twelve competencies, that in my view are essential for an effective professional response to the challenges and opportunities presented by climate change.

Workshop 1.4

Geospatial Toolkits for the Australian Curriculum: Geography (7-10) and Senior Geography (Unit 1)

Presented by Mick Law, Contour Education

Room O1R04

Ever wanted a toolkit of activities for your 7-10 and senior geography program that showcased geospatial technologies and was tied to the Australian Curriculum: Geography? Well, now you have it! In this session, Mick from Contour Education will take you through some new resources for teachers that will help you enhance your geography lessons in lower secondary and in senior geography. Draft copies of activities will be provided to attendees.

Workshop 1.5

Developing Quality Assessment in Year 11 Geography

Presented by Shane Albertson, GTAQ President

Room O1R05

This workshop will provide the opportunity for teachers to collaborate and provide feedback on Unit 1 and Unit 2 assessment tasks. Shane will facilitate the workshop and provide time for teachers to work in pairs to provide feedback to another teacher on a FIA1, FIA2 or FIA3 task using the QCAA Quality Assurance tool. The session will also provide time for teachers to share tips and tricks in developing quality tasks.

Workshop Session 2 Selections

Workshop 2.1

Sustainable, Resilient and Livable Communities (and Careers)

Presented by Mellini Sloan, Lecturer in Urban and Regional Planning at Queensland University of Technology and Nani Vinsalek, Urban Designer RPS Group

Room O1R01

Provision of sustainable, resilient and liveable places for communities, supported by both built and natural environment infrastructure, requires collaborative efforts by professionals from a range of fields, many of which are underpinned by core geographical knowledge and inquiry skills. In this workshop you will learn to use digital resources and collaborative activities to further engage your students in conversations about challenges of identifying and meeting community expectations, adapting to environmental change, and where studying geography can take them.

The workshop provides links to Year 7 (Place and liveability), Year 10 (Environmental change and management) and Senior (Sustainable places) curriculum as well as to university courses (and careers) in Urban and Regional Planning, Environmental Science and Civil Engineering.

Workshop 2.2

Developing Good Quality Questions for IA1

Presented by Julie Davis, Principal Education Officer for Geography, QCAA

Room O1R02

In this session, Julie will take you through strategies for developing an IA1 for the Senior Geography assessment, including question structure for short response questions and selecting suitable stimulus for both Part A and Part B.

Workshop 2.3

Creating Global Citizens in the Classroom

Presented by Magdalene St Clare, Solar Buddy

Room O1R03

SolarBuddy educates and empowers future leaders to be the generation that can positively impact the lives of those living in extreme energy poverty to use sustainable technologies to tackle equity issues. We invite you to take part in a hands on presentation that will directly impact the lives of children living in energy poverty and find out how your students can become global citizens.

Workshop 2.4

Understanding past storms and tsunamis – the roles of rocks, sands, and technology

Presented by Dr Annie Lau, Lecturer in Geography, School of Earth and Environmental Sciences, University of Queensland

Room O1R04

Tsunamis and severe storms pose significant threats to coastal communities, especially if an accurate risk assessment is hindered by a lack of hazard information. With a combination of mapping, sediment analyses, numerical modelling, and age-dating methods, geoscientists can extend the hazard history to hundreds to thousands of years before the start of the modern recording period. This workshop will cover how extreme waves change landscapes, and how sedimentary evidence of past storms and tsunamis can be identified and analysed to reveal the recurrence interval and magnitude of extreme events. Examples from Japan (Tohoku/Sendai tsunami) and Pacific islands will be presented.

Workshop 2.5

Geospatial technologies in your senior geography classroom practice

Presented by Brett Dascombe, Wavell State High School

Room O1R05

Geospatial technologies are pervasive in society today across a wide range of industries providing students with the ability to develop desirable skill in the classroom that will enhance their opportunities at university and in the workforce. Using geospatial technology in the classroom, students have been provided with the opportunity to develop these skills and successfully embed geospatial technologies into their assessment leading to great outcomes in their final senior year. This session will provide the data, look at the roadblocks and new opportunities in

embedding ArcGIS Online into IA1, IA2 and IA3 in a mini-workshop session. Bring your laptop and your school ArcGIS Online account and share your and your students' experience while learning new skills to take back to the classroom.

Workshop Session 3 Selections

Workshop 3.1

High impact teaching strategies to improve students' data analysis and analytical writing skills

Presented by Madeline Wust and Terri Soteriou, Mansfield State High School

Room O1R01

In this workshop, Madeline and Terri will present a range of explicit teaching strategies that you can incorporate into your classroom practice to help students accurately analyse and interpret qualitative and quantitative geographical patterns, trends and relationships. They will also work through literacy strategies that can be used to help improve students' precise use of geographical terminology and analytical writing.

Workshop 3.2

Supporting Differentiated Learning in the 7-9 Geography Classroom

Presented by Bradley Hacker, Education Perfect

Room O1R02

In this workshop we will be covering the wealth of ways that Education Perfect can help you differentiate in your 7-9 Geography classroom. We will cover the creation of sub-classes as well as how you can easily adapt existing tasks and assessments to suit individual needs.

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Creating Global Citizens in the Classroom

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Workshop 3.4

Virtual Field Trips

Presented by Mick Law, Contour Education

Room O1R04

You look like you need a holiday. Actually we all do, but it's been pretty hard to get away recently! Thankfully, there's a free and easy to use online tool that you can use to create virtual field trips for your students (or yourself!). So now you can take your class on a journey to hard-to-get-to places or your students could report back on field work you have conducted out there in the real world. Mick from Contour Education will show you how you can use the tool to create virtual field trips to help you make your geography a little more real.

Workshop 3.5

Developing Quality Assessment in Year 11 Geography

Presented by Shane Albertson, GTAQ President

Room O1R05

This workshop will provide the opportunity for teachers to collaborate and provide feedback on Unit 1 and Unit 2 assessment tasks. Shane will facilitate the workshop and provide time for teachers to work in pairs to provide feedback to another teacher on a FIA1, FIA2 or FIA3 task using the QCAA Quality Assurance tool. The session will also provide time for teachers to share tips and tricks in developing quality tasks.

Presenter Biographies

Dr Annie Lau is a Lecturer in geography at UQ's School of Earth and Environmental Sciences, where she lectures in a range of geoscience and marine science courses including the "Environmental Hazards" course that focuses on hazards preparation and mitigation. She is a coastal geomorphologist with expertise in identifying sedimentary signatures of tsunamis and storms, and interpreting late-Quaternary climatic and environmental changes from sediments.

Brett Dascombe has been teaching junior and senior geography in Queensland for 20 years and uses a variety of geospatial technologies in his teaching. Brett's students have won a number of awards for their assessment pieces using innovative technology, Brett readily shares his practice, skills and data with teachers from around the state and most recently showcased Wavell's geospatial program at the spatial industry conference, Locate22.

Jannah Williams - Across the past ten years and three continents I have been fortunate enough to work in and around my two greatest passions - marine science (specialising in anthropogenic impacts & shark ecology) and STEM education. I have seen first hand how important the element of 'location' is when it comes to supporting my fellow environmentalists in their work to protect endangered species, delicate ecosystems, and - from an educational point of view - the enlightenment of young minds in environmental issues. In my role as Esri Australia's Education Program Manager I help the next generation of Earth advocates sharpen their STEM skills - preparing them for the challenges ahead.

Julie Davis is the Principal Education Officer for Geography at the Queensland Curriculum and Assessment Authority. She has 20 years' experience teaching senior Geography in Queensland and is a passionate geographer. Julie has been involved with GTAQ for the past seven years, she is currently the editor of the GTAQ Journal 'Queensland Geographer and the immediate past President.

Madeline Wust is the Head of Year 12 at Mansfield State High School and has taught Senior Geography for over nine years. She also has a Masters in Special and Inclusive Education.

Magdalene St Clare is passionate about educating and empowering the current and next generation to improve the lives of children, families and communities living in extreme poverty. With over 18 years experience collaborating with schools, organisations, government departments and professional principals' associations,

she believes in education equity for all children and that education is the most powerful tool to change the world.

Mellini Sloan, MPlA is a Lecturer in Urban & Regional Planning within the Queensland University of Technology's Faculty of Engineering with a background in environmental engineering, planning and water management. Her 13 years of university teaching draws heavily on industry engagement, supported by her involvement in peak professional bodies, communities of practice and secondary school Geography classes. Through creation of structured real world challenges and positive reinforcement, she empowers her students to exceed their own expectations and embark on careers across the public and private sectors.

Mick Law is an educator who has been at the forefront of geospatial education for over twenty years. After implementing geospatial tools in a number of schools and delivering ESRI Australia's GIS in Schools Program, Mick has gone on to promote geospatial education with Queensland's Department of Natural Resources. Now with Contour Education, Mick aims to make geospatial and other digital tools as easy as possible for P-12 teachers to use.

Nani Vinsalek is a 2021 graduate of QUT's undergraduate Urban & Regional Planning, having previously completed both undergraduate and Masters courses in Architecture, also at QUT. Nani currently works as an Urban Designer with global consultancy RPS Group, and has experience teaching at QUT and engaging with secondary school Design units.

Paul Dargush currently serves as an Associate Professor in Environmental Management at the University of Queensland. His primary research interest is in developing more effective approaches to climate change mitigation. His research covers carbon management issues associated with forests, soil, waste, agribusiness, infrastructure, transport, and electricity. Paul's work seeks a better understanding of the constraints and opportunities in developing climate change mitigation outcomes that are more durable, more beneficial for people and ecosystem health, and more cost-effective. As part of his role at UQ, he serves as Convenor of the Master of Environmental Management program, and teaches courses in Carbon and Energy Management to more than 250 students annually.

Shane Albertson has been a geography educator in high schools and universities in Queensland for over 20 years. He is the 2022 President of the Geography Teachers' Association of Queensland and the Secretary of the Australian Geography Teachers' Association.

Terri Soteriou is the Head of Year 8 at Mansfield State High School and has taught Senior Geography for over 20 years. She has been involved in the quality assurance process for QCAA as an Endorser, Confirmer and External Marker.

