

Conference 2021 visible geography Program



Keynote Presentation

Ivan Motley



Ivan is the founder of .id Informed decisions. He is interested in how communities have access to education, housing, health, employment, recreation and each other. People in public and private organisations can be frustrated in their ability to contribute to this “good society” when they don’t have the right information to make critical decisions. Ivan’s idea is to introduce spatial thinking to organisations, look at places through a demographic lens, and use the power of storytelling to be persuasive.

Ivan loves surfing, his family and Bella the dog.



Pedagogies for deep learning in junior secondary

Building on learner strengths in order to create new knowledge using real-life problem solving has been part of the implementation of New Pedagogies for Deep Learning (NPDL) as foundations for our Geography units at Kepnock Stata High School. Using the work of Michael Fullan, we have enhanced our learning partnerships within the community and incorporated the 6Cs of deep learning to develop authentic engagement in real world challenges. In this session, see how NPDL has been used in the junior school, and consider ways in which this might enhance your teaching and learning.

Presented by Darlene Hill and Nicole Amey from Kepnock SHS

Darlene Hill

Darlene Hill is Head of Department - Humanities and Library at Kepnock SHS. Since moving into her current role from QCAA as a principal education officer, she has been instrumental in the implementation of NPDL in Humanities.

Nicole Amey

Nicole Amey is a passionate teacher at Kepnock SHS who has implemented NPDL in the classroom, exposing students to opportunities and community collaborations which have enhanced their learning and enabled student voice.

Preparing students for External Exams

This session will provide participants with strategies to support Geography students to prepare for the Senior Geography external exam. In particular, the session will focus on strategies for planning, strategies for understanding questions and strategies to support students in ways to respond to a variety of questions.

Presented by Bec Nicholas from Brisbane SHS

Rebecca Nicholas

Rebecca is the Deputy Dean of Teaching and Learning at Brisbane State High School. She has been teaching Geography for over 20 years, and has been involved in the development of Geography curriculum at a state and national level. Rebecca is on the GTAQ council and has a keen interest in the spatial technologies in the Geography classroom.

Accessing and using data

In this session John will take teachers on a journey through the world of open data. He will guide you through accessing both Australian and international data relevant for use with topics from the senior syllabus for Geography, including Ecological hazards and Population challenges in Australia.

Presented by John Tasker from DNRME

John Tasker

John is a Senior Spatial Information Officer with Department of Natural Resources, Mines and Energy. He is responsible for developing innovative solutions to manage and derive value from Queensland's extensive archive of drone, aerial and satellite imagery. He's been closely involved with some of the largest 3D photogrammetry projects in Queensland, along with efforts to derive 3D datasets from historical aerial photography. A firm believer in collaboration, John has a passion for using geospatial technology and data to actively engage with diverse stakeholders to promote the opportunities of emerging imagery datasets to inform development and management activities.

Developing Virtual Fieldwork Experiences

Suitable for Levels K-10, this workshop will step you through a tried and tested strategy for building virtual field trips using an example developed by Second Nature Education. You will acquire skills in the EdX platform and learn how to engineer innovative online content that satisfies curriculum requirements in place of actual fieldwork. This workshop will prepare you for scenarios where it is impossible to conduct excursions to natural/built environments, instead equipping you with the confidence to deliver structured online investigations that are both educational and enjoyable. Trial access to Second Nature's new "Coastal Processes Virtual Excursion" is available for all workshop participants.

Presented by Phebe Rowland & Chris Audley from Second Nature

Phebe Rowland

Phebe is the Education Program Coordinator at Second Nature Asia Pacific. She completed her Bachelor of Science at the University of Queensland in 2020 with over 4 years experience designing and facilitating environmental education programs. She is passionate about the effective communication of scientific concepts to diverse audiences, which is evident from her body of work published in academic journals, magazines, newsletters and books.

Christopher Audley

Christopher is a sustainable tourism, environmental education and community engagement consultant for Second Nature Asia Pacific Pty Ltd. Christopher has a background in Environmental Science, Environmental Education, Conservation Biology and Ecotourism. In 2005, he completed a Masters in Environmental Education at Macquarie University and has since worked extensively in the education industry. He also has an Undergraduate in Environmental Science from Griffith University (Gold Coast) and a second Undergraduate in Business Management with Honours in Tourism Management and Development. Christopher is an avid conservationist and has been involved in many projects around the world using sustainable tourism and environmental education as a tool for conservation. His 12-year experience in the tourism and conservation industries has involved extensive travel through more than 60 countries throughout East Asia, the South Pacific, North and Central America, Europe, the Middle East and Northern Africa. Chris was awarded the Gold Coast Young Entrepreneur of the year award in 2012.

The A-Z of Field Work

This workshop, suitable for Levels K-12 and teachers both experienced and out-of-field, will guide you through how to choose an appropriate fieldwork site, structure an investigation that will provide useful primary data, consider the limitations on fieldwork due to natural processes and demonstrate how to engage with students while conducting fieldwork. You will also learn how to conduct simple transect and quadrat studies with some more advanced techniques for senior students. Sample work booklets from Second Nature Programs will also be provided .

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The Evolution of Megacities

Presentations are communication tools that can be used as demonstrations, lectures, speeches, reports, and more. It is mostly presented before an audience. It serves a variety of purposes, making presentations powerful tools for convincing and teaching.

Presented by Dr Thomas Sigler from University of Queensland

Thomas is an economic and urban geographer interested in how globalisation shapes cities, and how cities and urban space are shaped by globalisation. The first of these themes focusses on 'the global economy' and how various firms, institutions, and industries are distributed across space. This incorporates both existing geographies as well as change over time, as the shifting global economy has dynamic consequences. The second of these focusses more concretely on cities and the dynamics within them.

Healthy planning for an ageing population

This presentation will focus on

- Population ageing in the world
- Who are older Queenslanders?
- Key concepts in Planning Age-friendly Cities
- WHO Age-friendly City Framework
- Ageing Population and Climate Change

Presented by Dr Sara Alidoust from University of Queensland

Sara is a lecturer in planning at the School of Earth and Environmental Sciences. Prior to joining the University of Queensland, she worked as a researcher, educator and practitioner in Australia and internationally.

Sara's research is interdisciplinary and focuses on the interrelationships between urban policy, planning, design and public health. She investigates the role of urban policy and built environment in the health and wellbeing of vulnerable communities, including the ageing population. Her work is participatory and focuses on planning inclusive cities that embrace diversity through community engagement in planning and decision making.

Spatial Skills in Senior Geography

This session will provide teachers with web sites and data that can be readily used in ArcGIS Online and Storymaps in senior for a range of units. A number of skills like creating heat maps, trace downstream and buffering will be examined as well.

We will examine Natural Hazards examining earthquakes and typhoons and creating buffers around the data to explain area of influence. Ecological Hazards like Malaria, Ebola and COVID data will be examined. Megacities in the Developing World will look at data from Lagos and Jakarta as well as data for other megacities. Landcover Change for IA1 and IA2, particularly looking at the use of spatial technology in fieldwork. In Population Change (IA3) we will look at ABS Data and sources like the National Map.

Presented by Brett Dascombe from Wavell SHS

Brett Dascombe

I have taught Geography in the State School system for 20 years and have been teaching Senior Geography at Wavell SHS for 15 years. I have integrated spatial technologies into my teaching since 2001 and since 2018 I have been using ArcGIS Online and Storymaps as an assessment portal for students geography assessment including Investigative and Fieldwork Reports.

Building student capacity by checking for understanding in IA1 and EA preparation

In this workshop, Sam will demonstrate the power of Teams assignment in creating a successful exam preparation journey for students. Teachers can monitor student progress using Teams assignments, provide timely feedback and share model responses-allowing teachers to pivot their teaching from these checks in understanding.

Presented by Sam Yeats from All Hallows School

Sam Yeats is the Curriculum Leader for Digital Pedagogy at All Hallows' School. He has a passion for exploring strategies to improve student learning and engagement through the use of innovate digital technologies. Sam was instrumental in creation digital solutions at his school during the remote learning phase of COVID-19 in 2020- with teachers choosing to continue to use his techniques and lesson templates will after the return to onsite schooling.

Creating Story Maps

NB: please set up a free ArcGIS Online account before this masterclass.

**Contact Jake Lovejoy at ESRI Australia
jlovejoy@esriaustralia.com.au**

This session will walk you through the numerous functions that will help you and your students create dynamic, interactive assessment in junior and senior geography. It will help you with tips and tricks in order to avoid pitfalls experienced in our experience at Wavell SHS. You will create maps in ArcGIS online, embed them into your StoryMaps, create swipe maps, create interactive mapping within the program and other helpful skills to make spatial technology less daunting in the classroom. This session will provide you with the foundation skills to start using StoryMaps and ArcGIS Online in all your Geography classes and maybe some of your History classes.

Masterclass **presented by Brett** **Dascombe from** **Wavell SHS**

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Setting our students up for report writing success

In this workshop, Jenny and Natassja will work with a range of planning techniques you can incorporate into your classroom practice to help students visualise the demographic or geographical challenge they are investigating in IA2 and IA3. They will also work through ArcGIS software and other strategies to incorporate a number of data transformation examples and how best to use these in the analysis of the identified challenge.

Masterclass presented by Jenny Knight from All Hallows School & Natassja Dasios from 'Churchie'

Natassja Dasios

Natassja is a Senior Geography teacher at the Anglican Church Grammar School. In 2012, Natassja was the Education Program Manager for ESRI Australia and was responsible for launching the ESRI Australia GIS for Schools Program.

Jenny Knight

Jenny Knight is the Head of Social Science at All Hallows' School and has taught senior geography for over ten years. She has actively been involved in the quality assurance processes taking on numerous roles.

A geo-spatial toolbox

This tool showcase is designed to give teachers time to play with two really useful tools for classroom geospatial: ScribbleMaps and the newly released HERE Studio. ScribbleMaps is a great entry point for teachers who want to use geospatial but don't have the skills or background. HERE Studio is a relatively easy-to-use GIS tool that has much of the functionality of Google My Maps (without the statewide block). HERE Studio is also freely available to use with generous limitations on data on the free plan. Mick will show teachers how these tools work, demonstrate a potential classroom application of each tool and then support participants as they spend time playing with the tools in a no-pressure environment.

Masterclass presented by Mick Law from Contour Education

Mick Law is a passionate geography teacher who loves using digital tools in the classroom. Mick has taught in public and private secondary schools, been the ESRI Australia GIS in Schools coordinator and worked with the Queensland Government to advocate and promote the use of geospatial tools in classrooms. He has been using, and showing teachers how to use, GIS in the classroom for over 20 years and loves sharing with teachers all of the new tools and resources that are popping up online now as Contour Education.

Developing skills for analysing data and information

Assessment objectives for assessment types

How data can be transformed

Types of data transformation specific to assessment types

Examples of data transformation

Elements of data transformation and how they link to the assessment descriptors

Masterclass presented by Shane Thackeray from Varsity College

Shane is an experienced Senior teacher who has taught in rural Central Queensland and spent the last 17 years at Varsity College on the Gold Coast. he has contributed to the building of an excellent geography department that consistently has 40 + students in a cohort. Shane has been a GTAQ member for many years and most recently as council member. he has also been involved with the QCAA for many years as panellist, QCS Immerser, Lead Endorser, Lead Confirmer and Lead Marker.

Fieldwork in geography

This session is designed to enhance teacher skills in their ability to design and develop fieldwork in geography. The session will examine a range of basic collection techniques that students may use, the collation of data and the various ways that collated data can be represented by students including discussion of the expectations of data presentation. The session will have relevance to geography fieldwork skills from Years 7 to 12.

Masterclass presented by Jo Macdonald from Varsity College

Jo MacDonald

Jo is Director of Curriculum and Assessment at Varsity College on the Gold Coast. She is a lead endorser and lead confirmer for geography with the QCAA. Jo has presented many professional development sessions within the geography teaching community and has extensive experience in the area of school-based assessment.