

## MEGA Professional Development Day Program May 6, 2023

Time	Agricultural Science	Earth and Environmental Science	Marine Science	Geography	
8.30am	<b>Registration Atrium Global Change Institute</b>				
9.00am	Welcome and Housekeeping <a href="#">Dr Gurion Ang</a> , <b>Steele Building #3 Lecture Theatre 206</b>				
9.10am	Open Forum, <a href="#">Queensland Curriculum and Assessment Authority</a> (QCAA), David Madden <b>Steele Building #3 Lecture theatre 206</b>			Open Forum, <a href="#">Queensland Curriculum and Assessment Authority</a> (QCAA), Julie Davis PEO <b>Steele Building #3 314/315</b>	
10.40am	<b>Morning Tea at Atrium Global Change Institute (next to Lecture Theatre)</b>				
Workshops 11.10am- 3.30pm	<b>Steele Building Learning theatre 206</b> <b>11.10am-11.50am</b> <b>Preparing for the External assessment</b> Paul Christensen Multiple choice questions: how to write them, preparation of students for them  <b>11.50-12.10pm</b> <b>Resource sharing / Q&amp;A session</b> Moderated by QATA/QCAA rep or Hardy Manser  <b>12.10-1.10pm</b> <b>Tech in Ag</b> Chris Butcher Corinda State High School  <b>1.10-1.40pm LUNCH</b> <b>Atrium – Global Change Building</b>  <b>1.40 – 2.40pm</b> <b>Engaging with Unit 2 Hardy Manser</b>  <b>2.40 - 3.30pm</b> <b>Teacher PD UQ Skills Hardy Manser</b>	<b>Global Change Seminar Room 215</b>  Moderator: Dr Tadgh O’Loinsigh, <a href="#">Mansfield State High School</a>  <b>11.10am -1.10pm</b> <b>Assessment Writing and Marking</b> <b>Sample Preparation for Confirmation</b>  <b>1.10 -1.40pm LUNCH</b> <b>Atrium – Global Change Building</b>  <b>1.40-2.40pm Pedagogy Activity</b> Lee-Ann Fleming and Lachlan Smeed The Gap State High School  <b>2.40-3.30pm</b> EES Group Discussion <b>How to Prepare Students for exams</b>	<b>Global Change Group Learning Room 213</b>  Moderator: Pat Munoz, Redlands College  <b>11.10am -1.10pm</b> <b>Sharing session</b> Bring your resources, assessment and issues  <b>1.10-1.40pm LUNCH</b> <b>Atrium – Global Change Building</b>  <b>1.40-3.30pm</b> <b>Analysis of collected data and linking to analysis and interpretation</b> Dr Gurion Ang, The University of Queensland	<b>Steele Building #3 Room 314/315</b>  <b>11.10am -1.10pm</b> <b>Beginning GIS</b> Brett Dascombe Wavell State High School  <b>1.10-1.40pm LUNCH</b> <b>Atrium – Global Change Building</b>  <b>1.40-3.30pm</b> <b>Unpacking the cognitions in the Senior Geography Syllabus</b> Jenny Knight	<b>Steele Building #3 Room 320</b>  <b>11.10am -1.10pm</b> <b>Port of Brisbane – Land Cover Transformations</b> Tim Roe Moreton Bay Environmental Education Centre  <b>1.10-1.40pm LUNCH</b> <b>Atrium - Global Change Building</b>  <b>1.40-3.30pm</b> <b>Writing questions and developing stimulus for IA1</b> Julie Davis GTAQ
3.30pm	<b>Close and Prize Draw Steele Building #3 Lecture Theatre 206</b>				

## SESSION DETAILS

### GEOGRAPHY

#### **Beginning GIS Brett Dascombe**

Brett Dascombe is a long-time advocate for GIS in education and a Senior Experienced Teacher at Wavell State High School. He brings a wealth of knowledge and expertise to this workshop introducing spatial technologies to create maps for the senior Geography syllabus topics land cover transformation and challenges facing a megacity.

#### **Writing questions and developing stimulus for IA1 Julie Davis**

Julie Davis is an experienced Geography teacher and active member of the GTAQ Council supporting and representing Queensland teachers. She will provide a series of hands-on activities to support teachers' understanding of the syllabus requirements for developing an IA1 examination. Please bring a copy of the Senior Geography Syllabus to this session.

#### **Unpacking the cognitions in the Senior Geography Syllabus Jenny Knight**

Jenny Knight is Head of Department-Social Science at All Hallows' School, she is an experienced geography teacher. In this session, Jenny will unpack the QCAA ISMGs to identify how students could demonstrate the cognitions at different levels of achievement for Analysing and Applying.

#### **Port of Brisbane Landcover Transformations program**

Moreton Bay Environmental Education Centre  
This interactive hands-on workshop will model a selection of the activities that visiting students engage in whilst taking part in the Port of Brisbane – Land Cover Transformation program.

Participants will utilise equipment at a University of Queensland study site to:

- collect data using Survey 123
- analyse and interpret data gathered
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- synthesise data and represent it using the ARCGIS online platform

The Moreton Bay EEC team will present examples of the variations of topics and outcomes that students are able to achieve in their IA2 report.

#### **Background:**

One of the largest landcover transformations in South East Queensland has been the relocation of the Port of Brisbane to the Fisherman Islands at the mouth of the Brisbane River. This transformation resulted in hundreds of hectares of mangroves being buried under reclaimed land upon which the port was built. Development of road and rail connections to the Port, in addition to developing land for port and associated industry and businesses required a raising of the land profile to ensure the safety of infrastructure in times of flood.

The Port of Brisbane – Land Cover Transformation program has been developed to utilise the incredible expertise of the Port of Brisbane Pty Ltd Environmental Management team who have been involved in data collection and managing impacts of Port of Brisbane activities on sensitive environmental assets around the area for many years.

### MARINE SCIENCE

#### **Sharing Session**

Bring your resources, assessment, questions & issues.

#### **Analysis of collected data and linking to analysis and Interpretation Dr Gurion Ang**

Use an authentic IA2 data set to refresh your data analysis skills in Microsoft Excel. Gurion will provide best practice approaches appropriate for high school level science and demonstrate how students should engage with scientific writing.

### EARTH AND ENVIRONMENTAL SCIENCE

#### **Assessment writing, marking and sample preparation for confirmation.**

#### **Pedagogy Activity**

Lee-Ann Fleming and Lachlan Smeed The Gap State High School

#### **Discussion session : How to prepare students for exams**

### AGRICULTURAL SCIENCE

#### **Sharing Session**

Bring your resources, assessment, questions and issues.

#### **Tech in Ag Chris Butcher Corinda State High School**

An Ag Tech journey: The hits and misses involved in setting up a 'Smart Farm' using networked sensors, displaying and modifying data in a dashboard format. Looking at the benefits of remote sensing in the aftermath of the 2022 floods . Examining the use of MicroBit and Arduino technologies in student projects. The aim of this presentation is to share what has worked while being honest about the costs and limitations.

#### **Engaging with Unit 2 Hardy Manser**

A look at technology in the classroom, engaging students with authentic learning/technology to solve production problems and how to connect with industry bodies in your region.

#### **Preparing for the External assessment Paul Christensen**

Multiple choice questions: how to write them and prepare your students for them.

#### **Teacher PD UQ Skills Hardy Manser**

A discussion on courses available to upskill teachers.