

## DAY 1 (16<sup>th</sup> August) GAWA Conference Program

### Western Australian Geography Curriculum: 'Enriching Geography Knowledge & Understandings'

8.15 – 8.40am **Registration** – in front of Pagoda restaurant entry

**Time with publishers & exhibitors – teacher resources & displays**

8.45 – 8.55am **Opening Welcome to Conference** / Acknowledgement of country

Leo Conti

Day proceedings and GAWA Website: GAWA Events: PD # 5 - 4<sup>th</sup> November; GAWA AGM - 20<sup>th</sup> November  
Please remember only attend those for which you registered. GAWA President

9.00 – 9.45am **Keynote address:** *Global environmental change in our backyard: An amazing 60,000-year story of human-environmental interaction and climate change*

*Link to Year 12 Unit 3 - Global Environmental Change – Depth study: Global climate change and changes in land cover*

**Keynote Speaker: Dr Nikolaus Callow**

University of Western Australia: School of Agriculture and Environment

*Using Australian examples set within the context of global climate change, this keynote address will cover three examples of the evidence for climate change from human history and recent geological time, including:*

- *Anthropogenic forcing of mid-latitude systems, highlighting shifting rainfall in the SW of WA in the last half-century*
- *Reconstructing the paleoclimate over the last 2,000 years using evidence from cave stalagmites in the Australian Alps, a marginal system that is sensitive to climate forcing*
- *60,000 year story of people, global environmental change & climate variability in the Pilbara & Kimberly, highlighting the intersection of ancient rock art with new technology*

*The keynote address will also highlight adaptation and mitigation strategies for global climate change, drawing on impacts on land cover, and how human activities have adapted to global climate change.*

9.50 – 10.35am **Keynote address:** **Adaptation to environmental change in multi-hazard environments: Case studies from the Mekong River region and the South Pacific**

*Link to ATAR Year 11 Unit 1 & GENERAL Year 12 Unit 3 - Natural and Ecological Hazards and Year 10 Environmental change & management*

**Keynote Speaker: Dr Natasha Pauli**

University of Western Australia: School of Agriculture and Environment

*Keynote address will discuss:*

- *How environmental change is altering the frequency and intensity of natural hazards such as flooding, storm surge, droughts, and cyclones*
- *The adaptation strategies used by local communities to live in regions that are physically vulnerable to multiple natural hazards*
- *Recent research undertaken in two vastly different socio-cultural and agro-ecological settings – Cambodian villages along the Mekong River, and the Ba River region of Fiji.*

10.35 – 10.50am **SCSA Update: West Australian HaSS Years 7–10 and Years 11 & 12 Geography**

**Carolyn Fleischer** Principal Consultant Curriculum Geography and Humanities

**Mandy Hudson** Project Manager HaSS P-10

10.50 – 11.00am **Joseph Gentilli Award for 2019**

Conference overview – workshops & fieldwork

11.00 – 11.15am **Time with publishers & exhibitors – teacher resources & displays** – same area as registration

11.15 – 11.45am **Morning Tea** to be served in the Pagoda Bar & Restaurant – same area as registration

11.50 – 12.40pm **Set 1 Workshop Presentations**

Workshop 1.1	Workshop 1.2	Workshop 1.3	Workshop 1.4
<p><i>Links to Years 7–10 HaSS</i></p> <p><b>Implementing Years 7–10 HaSS Geography concepts, Standards, Assessment tasks and Marking keys.</b></p> <p>**Target audience is NEW, INEXPERIENCED and RETURNING HaSS Geography teachers</p>	<p><i>Links to Years 7–10 HaSS ATAR Years 11 &amp; 12 Geography</i></p> <p><b>Techniques used when teaching geography at Tertiary Institutions: A pedagogical focus</b></p> <p>Examples draw on:</p> <ul style="list-style-type: none"> <li>• Strategies to engage students within large group settings</li> <li>• Assessment types and the use of rubrics and feedback</li> <li>• 'Multi-mode' teaching delivery including lectures, tutorials and laboratory classes.</li> </ul>	<p><i>Links to Year 10 Geographies of human wellbeing</i></p> <p><b>The Mapping of Human wellbeing and its contrasts</b></p> <p>Case studies focus on ...</p> <ul style="list-style-type: none"> <li>• Defining the unequal world</li> <li>• Indicators, measuring &amp; mapping wellbeing</li> <li>• Spatial variations – why the differences?</li> <li>• Papua New Guinea</li> <li>• Pacific Islands</li> <li>• Role of International and non-government organisations</li> </ul>	<p><i>Links to Year 8 Landforms &amp; landscapes; Year 10 Environmental change &amp; management; Year 11 Natural Hazards</i></p> <p><b>Processes within our dynamic planet: Putting physical geography on its axis.</b></p> <p>Case studies focus on ...</p> <ul style="list-style-type: none"> <li>• Earths structure</li> <li>• Geological time</li> <li>• Tectonic processes – earthquakes, volcanoes and tsunamis</li> <li>• Hazards around the world</li> </ul>
<p><b>SCSA – Carolyn Fleischer</b> Principal Consultant Curriculum Geography and Humanities</p> <p><b>SCSA – Mandy Hudson</b> Project Manager HaSS P-10</p> <p><b>Dolfin Room Cut off 14</b></p>	<p><b>Dr Natasha Pauli</b> <b>Dr Sarah Prout Quicke</b> <b>Dr Petra Tschakert</b> <b>Dr Julian Clifton</b></p> <p>University of Western Australia School of Agriculture &amp; Environment</p> <p><b>Water Wall Room Cut off 35</b></p>	<p><b>Dr Tim Sharp</b> Curtin University School of Design &amp; the Built Environment</p> <p><b>Pagoda A Room Cut off 35</b></p>	<p><b>Dr Graham Thompson</b> Curtin University School of Design &amp; the Built Environment</p> <p><b>Pagoda B Room Cut off 35</b></p>

12.40 – 1.25pm **International Buffet Lunch** to be served in the Pagoda Restaurant

Fieldwork 1	Fieldwork 2	Fieldwork 3
<p><b>Rediscovering Scarborough Beach</b> <b>A geographical perspective from past to present</b></p> <p>Fieldwork includes:</p> <ul style="list-style-type: none"> <li>• Photographic overview of human use and development of the Scarborough Beach precinct through historical archives – mini-lecture in Pagoda A (30 minutes)</li> <li>• Examination of coastal hazards, human use patterns, and urban planning</li> <li>• Strategies on how to plan this field trip</li> <li>• Hands-on fieldwork inquiry task</li> </ul> <p>NOTE: This field work is a shortened version of a current first year Geography field-trip and accompanying assessment that is being conducted at UWA.</p> <p><b>NOTE: ***Good walking shoes are required</b></p>	<p><b>Addressing Land Cover Change in the South West: Sustainable forestry</b></p> <p>This field trip to Perth Hills Discovery Centre will enable teachers experience the <b>Sustainable forestry</b> excursion offered through <i>Nearer to Nature</i> within Department of Biodiversity, Conservation and Attractions. The excursion:</p> <ul style="list-style-type: none"> <li>• Explores past and present land uses and management in the Jarrah forest</li> <li>• Assesses vegetation diversity through a transect completed in the field</li> <li>• Conducts a forest inventory to make decisions about how to manage the forest for timber production</li> <li>• Looks at how the <i>Forest Management Plan</i> includes conservation through reserves and other mechanisms</li> <li>• Covers key concepts such as biodiversity, ecosystem services, and timber as a resource</li> <li>• Enables students to evaluate the effectiveness of the <i>Forest Management Plan</i> in addressing land cover change</li> <li>• Offers an interactive student booklet</li> </ul>	<p><b>Walk &amp; talk: The Changing City</b></p> <p>This workshop is divided into two parts. A presentation followed by a guided walk will focus on Perth's amazing geography and history. It will include different elements of our heritage; cultural, built, economic, spiritual and environmental aspects.</p> <ul style="list-style-type: none"> <li>• Dr Andrew Woods from the Curtin University HIVE will present the Historical Panoramas project which showcases wide-angle panoramic photography of Perth and Fremantle dating as far back as 1868. The project website provides a unique and visually dramatic way to explore the development of Perth and Fremantle over a period of more than 150 years. Convene at the State Library to be taken on a spectacular visual tour through Perth's history as captured by panoramic photographers of yesteryear.</li> <li>• Kate Akerman from the State Library will demonstrate how some of the images from the project can be located using the State Library website and accompany you on a physical tour of the city from the State Library to Elizabeth Quay, comparing the past with the city today.</li> </ul> <p>*Workshop includes a HaSS/History: element. <b>NOTE: ***Good walking shoes are required</b></p>
<p><b>Dr Sarah Prout Quicke</b> University of Western Australia</p> <p><b>Dr Julian Clifton</b></p>	<p><b>Richard Olive</b> Perth Hills Discovery Centre</p>	<p><b>Kate Akerman</b> Education Officer State Library WA</p> <p><b>Dr Andrew Woods</b> Curtin HIVE (Hub for Immersive Visualisation and eResearch)</p>
<p><b>BUS NUMBER 1</b> Approx return time: 5.05pm <b>Cut off number is 24</b></p>	<p><b>BUS NUMBER 2</b> Approx return time: 5.15pm <b>Cut off number is 24</b></p>	<p><b>BUS NUMBER 3</b> Approx return time: 5.15pm <b>Cut off number is 24</b></p>

Fieldwork 4	Fieldwork 5
<p><b>Transformation of northern parts of Perth and Northbridge</b></p> <p>This fieldwork will map newly developed and transformed parts of Perth's inner metropolitan and Northbridge zone; focussing on the geographical land use zones, the changes occurring and the demographic influences that have shaped its function.</p> <p>Fieldwork includes:</p> <ul style="list-style-type: none"> <li>• Points of geographical significance – Train station, Yagan Square, Northbridge, etc.</li> <li>• Processes creating changes in places and in different communities</li> <li>• Demographic patterns in Perth</li> <li>• Changing economic, social and cultural distribution characteristics</li> <li>• Demographic trends and changes that have occurred within the CBD and IMZ</li> <li>• Features of land use change and future growth</li> </ul> <p><b>NOTE: ***Good walking shoes are required</b></p>	<p><b>Urban wetlands of the Swan Coastal Plain: Biodiversity conservation, ecosystem services, and development pressures.</b></p> <p>A visit to the Alison Baird Reserve, Kenwick, which forms part of the Greater Brixton Street Wetlands area. At this significant urban bushland/wetland on the eastern Swan Coastal Plain, teachers will examine conservation values, environmental impacts of land use change, and investigate ecosystem services.</p> <p>Fieldwork will include:</p> <ul style="list-style-type: none"> <li>• the key elements of ecosystem structure and dynamics</li> <li>• causes and evidence of biodiversity loss in wetland regions</li> <li>• the interrelationships between land cover change and biodiversity loss</li> <li>• the current strategies, at local level, implemented to mitigate the adverse effects of loss of biodiversity</li> <li>• how human activity has adapted to loss of biodiversity</li> </ul> <p><b>NOTE: ***Good walking shoes are required</b></p>
<p><b>Dr Tod Jones</b> Curtin University</p>	<p><b>Dr Natasha Pauli and Dr Nik Callow</b> University of Western Australia</p>
<p><b>BUS NUMBER 4</b> Approx return time: 5.05pm <b>Cut off number is 24</b></p>	<p><b>BUS NUMBER 5</b> Approx return time: 5.15pm <b>Cut off number is 24</b></p>

## Conference Dinner Evening Event

5.45 – 6.30pm Pre-dinner drinks and food platters in the **Pagoda Bar**. Complimentary Platters served at 6.00pm.

**People pay for own drinks.**

[Bus leaves from Pagoda Bar at 6.30pm sharp.](#) Please be punctual as bus needs to leave on time.

7.00 – 8.00pm Drinks at **Paddington Alehouse** 141 Scarborough Beach Rd Mount Hawthorn. **People pay for own drinks.**

8.10 – 10.35pm Conference Dinner at **Tamarind Restaurant** 148 Scarborough Beach Rd Mount Hawthorn. 3 course set menu.

**Restaurant banquet, Wine & Transportation included as part of Conference Dinner registration.**

## DAY 2 (17<sup>th</sup> August) GAWA Conference Program

### Western Australian Geography Curriculum: 'Enriching Geography Knowledge & Understandings'

8.15 – 8.40am **Registration**  
**Time with publishers & exhibitors – teacher resources & displays**

8.45 – 8.55am **Opening Welcome to Conference** / Acknowledgement of country Leo Conti  
 Day proceedings and GAWA Website: GAWA Events: PD # 5 - 4<sup>th</sup> November; GAWA AGM - 20<sup>th</sup> November GAWA President  
 Please remember only attend workshops you have been registered for.

9.00 – 9.30am **Keynote address: *Australia's Decadal (Strategic) Plan for Geography  
 Geography Shaping Australia's Future***  
 Link to Years 7-10 HaSS, Years 11 and 12 Geography

**Keynote Speaker: Dr Kristen Martinuss**  
 University of Western Australia; School of Agriculture and Environment

*Launched on 22 November 2018 at the University of Sydney, Keynote address will outline the significance of Geography. Shaping Australia's Future.*

*Produced by the National Committee for Geographical Sciences under the auspices of the Australian Academy of Science, Geography Shaping Australia's Future, is the decadal plan for Geography in Australia.*

*This strategic plan, explains the contribution that geography makes to the social, economic and environmental wellbeing of Australians and Australia through research, education, training, skills, expertise and engagement with industry and the community.*

9.35 – 10.15am **Keynote address: *Planning Brutopian Perth:  
 Urbanisation, suburbanisation and multiculturalisation, and the  
 challenges/opportunities for urban sustainability***  
 Link to Year 12 Unit 4 - Planning Sustainable Places – Perth

**Keynote Speaker: Dr Paul Maginn**  
 University of Western Australia; School of Agriculture and Environment

*Keynote address will discuss the changing face of (sub)urban Perth, as it morphs from country town to globalising city.*

*Taking urban sprawl as an overarching theme, the keynote will focus on challenges for housing, socio-spatial inequality, social inclusions and exclusions, and changing demographics in Perth, with some comparisons drawn between other major urban and regional centres in Australia.*

10.20 – 10.35am **GAWA Young Geographer competition winners Years 5–12** Rosemary Cawley  
**GAWA Resources & Conference Overview – workshops**

10.35 – 11.00am **Morning Tea** to be served in the Pagoda Bar & Restaurant – same area as registration  
**Time with publishers & exhibitors – teacher resources & displays**

11.00 – 11.40am **Set 2 Workshop Presentations**

Workshop 2.1	Workshop 2.2	Workshop 2.3	Workshop 2.4
<p><i>Links to Years 7–10 HaSS, Years 11 &amp; 12 Geography</i></p> <p><b>Pedagogical and ICT/Geographical Information Systems skills focus</b></p> <p>Demonstration and trial of free GIS tools and databases.</p> <p>Classroom tasks include:</p> <ul style="list-style-type: none"> <li>• Applications of GIS apps</li> <li>• GIS learning activities</li> <li>• Useful ICT websites</li> </ul>	<p><i>Links to Years 7–10 HaSS, Years 11 &amp; 12 Geography</i></p> <p><b>The role of fieldwork and strategies applied to enhance geography learning</b></p> <p>This pedagogical and fieldwork skills session will present fieldwork sample tasks conducted in Australian and international contexts by university students, including:</p> <ul style="list-style-type: none"> <li>• Ground truthing exercises in critical observation</li> <li>• Practical group work where students develop their own projects, collect and analyse data</li> <li>• Reflective diaries, where students maintain a learning diary across several days of fieldwork</li> </ul>	<p><i>Links to Year 12 Global environmental change – Depth study: Loss of biodiversity and changes in land cover</i></p> <p><b>Loss of biodiversity – The Banksia Woodland of the Swan Coastal plain: fragile but not broken</b></p> <p>Case studies focus on ...</p> <ul style="list-style-type: none"> <li>• Distribution of this biome and elements of its ecosystem</li> <li>• Causes &amp; rate of decline</li> <li>• Evidence of biodiversity loss</li> <li>• Interrelationship between land cover change &amp; biodiversity loss</li> <li>• Effects of local biodiversity loss</li> <li>• Future scenarios for Banksia Woodlands</li> </ul>	<p><i>Links to Year 9 Geographies of interconnections; ATAR Year 11 &amp; GENERAL Year 12 Global networks &amp; interconnections</i></p> <p><b>The fine web we weave in our Globally connected world</b></p> <p>This session will focus on the influence and impact of technology and communication with particular emphasis on how the world wide web is shrinking planet earth.</p> <p>Case studies focus on ...</p> <ul style="list-style-type: none"> <li>• Connecting with places</li> <li>• Connecting using transport &amp; ICT</li> <li>• Trade connection</li> <li>• Benefits and draw backs</li> <li>• Future connections</li> <li>• Where to from here?</li> </ul>
<p><b>Dr Bryan Boruff</b>  <b>Alex Saunders</b>                  University of Western Australia                  School of Agriculture &amp; Environment</p> <p><b>Dolphin Room Cut off 14</b></p>	<p><b>Dr Julian Clifton</b>                  University of Western Australia                  School of Agriculture &amp; Environment</p> <p><b>Water Wall Room Cut off 35</b></p>	<p><b>Dr Eddie van Etten</b>                  Edith Cowan University</p> <p><b>Pagoda A Room Cut off 35</b></p>	<p><b>Dr Shapan Cox</b>                  Curtin University</p> <p><b>Pagoda B Room Cut off 35</b></p>

11.40 – 12.20pm **Set 3 Workshop Presentations**

<p><b>Workshop 3.1</b> <i>Links to Years 7–10 HaSS, Years 11 &amp; 12 Geography</i></p> <p><b>Liveability and urban greening: Insights from the Clean Air and Urban Landscapes (CAUL) Hub</b></p> <p>The workshop will cover concepts and tools for understanding 'liveability', drawing on research from the CAUL Hub in the National Environmental Science Program. Case studies focus on:</p> <ul style="list-style-type: none"> <li>• Dimensions of liveability</li> <li>• Liveable neighbourhood guidelines</li> <li>• Simple tools to measure liveability and urban greening (such as walkability, tree canopy cover, and public open space tools)</li> </ul>	<p><b>Workshop 3.2</b> <i>Links to Year 12 Global environmental change</i></p> <p><b>Eye in the sky: From satellites to drones- examining land cover change and its dramatic climate change implications</b></p>	<p><b>Workshop 3.3</b> <i>Links to Year 7 Water and the world; Year 9 Biomes &amp; Food security</i></p> <p><b>Understanding challenges to food production using environmental foot-printing to quantify land and fresh water requirements</b></p> <p>Case studies focus on ...</p> <ul style="list-style-type: none"> <li>• Interactive mapping of biomes</li> <li>• Visualising human impacted landscapes around the world</li> <li>• Global food production change: now and the future</li> <li>• Challenges for food production, security and sustainability in Australia</li> <li>• Calculating your ecological and water footprints</li> </ul>	<p><b>Workshop 3.4</b> <i>Links to Year 7 Place &amp; liveability; Year 8 Changing nations; Year 9 Biomes &amp; Food security</i></p> <p><b>Sustainable livelihoods</b></p> <p>Case study focus on ...</p> <ul style="list-style-type: none"> <li>• initiatives around community based natural resource management</li> <li>• biodiversity conservation</li> <li>• rights, equity and social justice</li> <li>• rural settlements</li> <li>• food security</li> <li>• resilience and adaptations concerning diverse social-cultural groups and communities from different parts of the world</li> </ul>
<p><b>Dr Bryan Boruff Alex Saunders Dr Natasha Pauli</b> University of Western Australia School of Agriculture &amp; Environment</p> <p><b>Dolphin Room Cut off 14</b></p>	<p><b>Mrs Susan Martin</b> Teacher of Geography and Humanities and Social Sciences</p> <p><b>Water Wall Room Cut off 35</b></p>	<p><b>Dr Eloise Biggs</b> University of Western Australia School of Agriculture &amp; Environment</p> <p><b>Pagoda A Room Cut off 35</b></p>	<p><b>Dr Sudeep Thing</b> Curtin University School of Design &amp; the Built Environment</p> <p><b>Pagoda B Room Cut off 35</b></p>

12.20 – 1.00pm **Set 4 Teacher Workshop Presentations ... “stories from the white board”**

<p><b>Workshop 4.1</b> <i>Links to Years 7–10 HaSS, Years 11 &amp; 12 Geography</i></p> <p><b>Pedagogical and ICT/Geographical Information Systems skills focus</b></p> <p>Demonstration and trial of free GIS tools and databases.</p> <p>Classroom tasks include:</p> <ul style="list-style-type: none"> <li>• Applications of GIS apps</li> <li>• GIS learning activities</li> <li>• Useful ICT websites</li> </ul>	<p><b>Workshop 4.2</b> <i>Links to Years 7–8 HaSS Geography Mapping Skills</i></p> <p><b>Making Geography fun ... A series of hands-on mapping activities for HaSS Year 7 – 8 students</b></p>	<p><b>Workshop 4.3</b> <i>Links to Year 9 HaSS; Cross Curriculum Priorities</i></p> <p><b>Applying geography outside of the classroom: Excursions and fieldwork in a changing regional city.</b></p> <p>This workshop will investigate:</p> <ul style="list-style-type: none"> <li>• Utilising and adapting existing fieldwork tasks to suit your local context</li> <li>• Interconnections</li> <li>• Data collection and analysis</li> <li>• Incorporating the Cross-Curriculum Priorities</li> <li>• Engaging with your local government</li> </ul>	<p><b>Workshop 4.4</b> <i>Links to Year 12 Global environmental change Year 12 Planning Sustainable Places</i></p> <p><b>The facts: Three year cycle – reviewing past Geography exams – A statistical analysis of student performances</b></p> <p><b>NOTE: this workshop is NOT discussing / reviewing the ATAR Geography curriculum or structure of the course.</b></p>
<p><b>Dr Bryan Boruff Alex Saunders</b> University of Western Australia School of Agriculture &amp; Environment</p> <p><b>Dolphin Room Cut off 14</b></p>	<p><b>Tracy Smith</b> Geography Specialist Mindarie Senior College</p> <p><b>Water Wall Room Cut off 35</b></p>	<p><b>Tim Collier</b> HaSS Teacher Champion Bay Senior High School</p> <p><b>Pagoda A Room Cut off 35</b></p>	<p><b>Mr Richard Kostecki</b> Richard.Kostecki@aquinas.wa.edu.au HOLA – HASS Aquinas College</p> <p><b>Pagoda B Room Cut off 35</b></p>

1.00 – 2.00pm **International Buffet Lunch held in Pagoda Restaurant and including Conclusion to Conference, Completion of Evaluation Survey & Thankyou Ceremony** Leo Conti.

**GAWA Conference Convener** Leo Conti (GAWA President)

**Conference Sub Committee**

Peggy Bakalis (Vice President)      Laura Billington (Vice-President)      Rosemary Cawley      Ben Curtis      Lidia Di Giuseppe (Secretary)  
Angela Jones      Tracy Smith (Treasurer)      Jon Wyllie

**AV managers**  
Rick McMahon  
Charissa Efthvoulos

**Photographers**  
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**University support**  
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Dr Tod Jones (Curtin Uni)