



2019

AUSTRALASIA-PACIFIC EXTENSION NETWORK

CONFERENCE

12 - 13 September, 2019 | Mindil Beach Casino Resort, Northern Territory



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President Welcome



It is my pleasure to welcome you to the Australasia-Pacific Extension Network conference in Darwin – the first time that we have held a conference in the Northern Territory.

We live at a time of rapid change and considerable uncertainty – a time in which extension skills are essential in assisting individuals and communities to respond to the many challenges we face. Additionally, many of the skills we possess can be of benefit more broadly within our local and international communities. The conference theme – “Extending Horizons: Extension’s role in climate, rural industry, and community challenges” reflects the broader role that extension will have.

Since our last conference in Townsville APEN has transitioned to a company limited by guarantee with a skill based board. This has resulted in significant workload for Rosemary Currie our APEN secretariat and the board members. I’d like to thank them for their efforts and their enthusiasm in establishing APEN as the lead organisation for extension professionals “working with people to enable change and innovation in primary industries, natural resource management and communities”.

During the conference we will be holding our AGM and I encourage you all to consider how you might support the activities of APEN, through membership of the board, one of the APEN committees, as a Regional Coordinator and/or participation in regional activities.

I’d like to sincerely thank the conference committee for their efforts in making this conference happen. I appreciate the efforts of our keynote speakers, abstract presenters and the poster presenters in delivering what I believe will be an entertaining and informative program.

Please make the most of this opportunity to further strengthen your extension networks and create new connections that will further the profession of extension in the Australasia-Pacific region. In particular I’d like to thank Jake Betros for his enthusiasm as the Conference Convener, and Rosemary Currie who unfortunately cannot be with us at this conference. Their efforts will go a long way to making this conference a success.

Finally, I’d like to thank each of you for attending the conference. For some of you it will be one of several that you have attended and for others it may be your first. Please make the most of this opportunity to expand and strengthen your networks, and further the ongoing development of our profession. I’m sure this will be an exciting event here in the Top End.

Graham Harris
APEN President

Convenor Welcome



Welcome to warm, tropical Darwin! And what a stunning location to have the 2019 Australasia-Pacific Extension Network Conference, right on the beach! You can't ask for much more... but we hope to deliver more than you expect.

I want to personally welcome each and every one of you to the conference, and thank you for making the trip to the Top End. We know it can be a bit difficult to get to, so for that we have made a conference worth your while, with ground-breaking workshops, adventurous field trips, top billing keynote speakers, and most importantly, plenty of time to network and meet other extension professionals! Don't forget to learn from your peers through over 70 concurrent presentations and posters. I can't wait to hear presentations such as:

- Everything I need to know about extension, I learned from my cows
- If you show me your extension, I'll show you mine
- Pushing Dinosaurs Uphill

I want to thank the conference committee for the countless meetings and phone calls, as they were always willing to answer my annoying emails with advice and assistance that this conference could not have done without. Also thank you to our professional conference organiser, Associated Advertising and Promotions, make sure you say hi to Natalie and Rosie throughout the conference!

As always, sponsors play a large part in making these conferences possible. So thank you to each and every sponsor for the assistance provided, which will make this event as beneficial as it can be for you.

Once again, welcome to the 2019 APEN Conference here in the Northern Territory, known to many now as one place left in the world with enough silence for your voice to be heard, and enough space for your ideas to come to life.

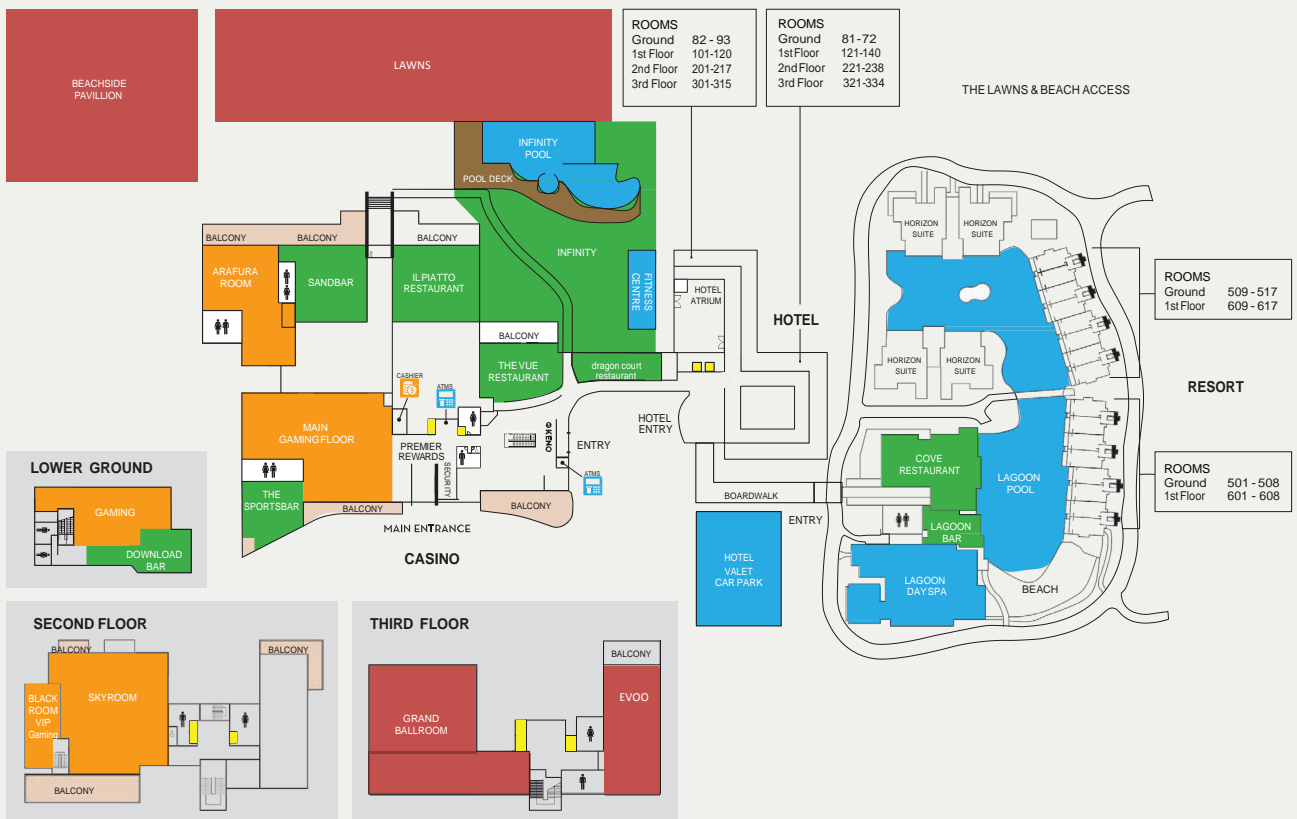
Cheers,
Jacob Betros

Conference Site

Mindil Beach Casino Resort

Key

- APEN Conference Facilities
- Restaurants & Bars
- Casino
- Facilities
- Lifts
- Smoking Area



Conference Help

Need Help with anything conference related? Look for one of our helpful team members wearing a bright orange APEN conference shirt!

For urgent conference matters, please contact Jacob Betros (0438756481) or Natalie Bell (0419653729)



Technical Information

Connect to WIFI

1. Find and select the APEN network using your Wi-Fi enabled device's network settings
2. The password for the conference Wi-Fi is APENCONF123 (please note the password is case sensitive)
3. Open your Internet browser and accept the Terms & Conditions

Wifi Name: APEN + Password: APENCONF123

Interact with speakers at the APEN Conference

Direct the browser on your device to www.sli.do and enter the code:

#APEN



Slido can be used on a smartphone or tablet.

Conference delegates will be able to vote in polls and send questions to speakers and panel members.

Social Media

Make sure to use #APEN19 when posting on Facebook and Twitter!



@APEN2019



@APENenews



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Pre-conference Workshops

Wednesday, 11th September

Communication skills for all professionals

10am – 4pm - Evoo

A day of fun and engaging Professional Development with Darwin business owner, communication guru and comedian Amy Hetherington (Amiable Communications)

It's time to focus on communication and community-building skills. This full day workshop (with lunch and afternoon tea) includes interactive and engaging sessions on:

- **Networking** and creating a lasting impression
- **Public Speaking**
- Developing **elevator pitches** for your brand and message
- **Social media** and building communities
- **Making content** for social media on your smart phone
- **Confidence** building activities
- Delivered all with a bit of **comedy fun!**

Fearless facilitation and great group dynamics

10am – 4pm – Grand Ballroom

If you're into the art of facilitating groups of people for learning and change, and helping groups hum, this workshop is for you. This might include:

- An **ongoing discussion group**;
- A **committee** (those meetings where nothing gets decided...);
- A **group formed for a particular event** (e.g. strategic planning, team building), or
- **Breakout groups or sub-groups** from a larger event.

This workshop will...

- be an interactive hands-on practical workshop
- get you learning from each other and learn from presenters/facilitators

You'll leave with...

- Facilitation tips and techniques
- An understanding of how groups work and group dynamics
- A network of people to learn with in the future
- Ideas for working through issues in groups
- Five points towards your CPAg accreditation

Program Opening

Wednesday 11th September

Registration Desk Open from 5.00pm on the lawns

Welcome Reception

5.30pm – 7.00pm – Mindil Beach Casino Resort Lawn

Join your fellow delegates on the beautiful and stunning Mindil Beach Casino Resort Lawn, to celebrate the opening of the 2019 Conference. Mingle, meet, and network as you get to watch the iconic Top End sunset over Mindil Beach.

We will be joined by Trent Lee (Larrakia Traditional Owner) to welcome us to country. The Hon Paul Kirby MLA, Minister for Primary Industry and Resources will formally open the conference with the assistance of the APEN President, Graham Harris.

RAID Networking Event

7.00pm – 9.00pm Meet at Mindil Beach Casino Resort Lawn



Come along to the RAID Q&A and Networking Event for the 2019 Australasia-Pacific Extension Network Conference!

This free event invites agricultural professionals from the NT, interstate and overseas to join in exploring the challenges and opportunities in communication in agriculture.

A panel of experienced local and interstate agriculture communicators will share their knowledge and experience around effective communication practices in agriculture. Guests will have the opportunity to ask questions and raise topics for discussion throughout and after, in an informal Q&A.

PANEL:

- Professor Andrew Campbell, Australian Centre for International Agricultural Research
- Sally Leigo, CRC for Developing Northern Australia
- Wendy Pritchard, Northern Territory Department of Trade, Business and Innovation
- Matt Brann, ABC Rural
- Clinton Muller, RM Consulting Group

Take advantage of the opportunity to network with conference delegates and local industry professionals, meet the panellists, ask questions and share your industry knowledge.

This is a free event open to APEN conference delegates and whom ever else is interested, and includes entry, dinner and refreshments.

Program Day 1

Thursday 12th September

Thursday 12 September 2019		
8.00am	Registration Desk Open	Beachside Pavilion
8.30am	Conference Opening and Welcome Jacob Betros – APEN NT Regional Coordinator	Beachside Pavilion
8.45am	Keynote Speaker John Pickering – Behaviour Innovation <i>Whose Behaviour Should we Change? A Behavioural Scientist's Perspective on Extension</i>	Beachside Pavilion
9.15am	Keynote Speaker Peter Ellerton – University of Queensland <i>Critical Thinking: the ultimate 21st century skill</i>	Beachside Pavilion
9.45am	Guest Speaker Andrew Campbell – Australian Centre for International Agricultural Research <i>Extension in the Anthropocene: forgotten, but still relevant</i>	Beachside Pavilion
10.15am	Morning Tea	Beachside Pavilion

Program Day 1

Thursday 12th September

Concurrent Session #1				
Location	Beachside Pavilion	Grand Ballroom 1	Grand Ballroom 2	Evoo
Subject	Technology & Innovation	Rural Community	Sustainable Agriculture	International Extension
Session Chair	Adrian Englefield	Heather Collins	Caroline Coppo	Shayne Hyman
10.45am	<p>Rabi Maskey</p> <p>Energy Decision Support Tool for Irrigation Systems: A tool to improve the efficiency of your irrigation system?</p>	<p>Niall Connolly</p> <p>The Enhanced Extension Coordination in GBR project: Improved effectiveness and efficiency of extension service delivery through improved collaboration and coordination.</p>	<p>Warren Hunt</p> <p>How small groups served as an engine room for innovation in the Northern Territory mango industry.</p>	<p>Peter Walton</p> <p>Enhancing access to agricultural information and knowledge in the Pacific Islands: a strategic model</p>
11.00am	<p>Carol Rose</p> <p>Pushing Dinosaurs Uphill - Implementing digital technology in a vocational environment</p>	<p>Jillian Kelly</p> <p>Drought Smokos</p>	<p>Sarah Hain</p> <p>Behaviour change and building trust in the mango supply chain</p>	<p>Georgie McCarthy</p> <p>How agricultural extension leads to practice change</p>
11.15am	<p>Amy Cosby</p> <p>An Evaluation of Central Queensland Livestock Technology Workshops</p>	<p>Diana Saunders</p> <p>Developing an effective career pathway into Agriculture: The Agriculture Extension Work Placement Program</p>	<p>Carl Larsen</p> <p>Learn, Experience, Connect - continuing to drive innovation in extension in the Australian vegetable industry</p>	<p>Severine van Bommel</p> <p>What can we learn from the co-innovation process of the Roundel laying hen husbandry system in the Netherlands</p>

Program Day 1

Thursday 12th September

Concurrent Session #1 Continued

11.30am	<p>Nadeem Akmal</p> <p>Information Communication Technologies (ICTs) Pave the Way to Make Farmers Information Poor to Information Rich</p>	<p>Meg Humphrys</p> <p>Innovation in engaging and empowering youth within the Northern Territory Public Service</p>	<p>Clinton McGrath</p> <p>Multi-modal extension creates real vegetable exports and an improved understanding for growers of free trade agreements</p>	<p>Roy Murray-Prior</p> <p>Behavioural science insights into application of conservation agriculture in the East Ganges Plains</p>
11.45am	<p>Jodie Ward</p> <p>What gets clicked might not get liked – measuring social media success</p>	<p>Three minute research thesis presentations</p>	<p>Ian McBean</p> <p>A whole-of-sugar-industry approach to adoption: The strategy for Industry Led Adoption Activities in the Sugar Industry</p>	<p>Subhasis Mandal</p> <p>Cropping system intensification for small-holder farmers in coastal salt-affected areas in West Bengal, India - Options and Determinants</p>
12.00pm	<p>Break</p> <p>Make your way to the Casino Main Entrance to board your field trip bus. Please find the bus with the same number and colour as your field trip ticket.</p> <p>Field trips will be allocated randomly when you register. Please ensure you are wearing a hat and enclosed shoes. Lunch will be provided on the field trip.</p> <p>Buses depart at 12.30pm sharp</p>			

Program Day 1

Thursday 12th September

Field Trips

12.30pm

Field Trip A:

Crocodylus Park

Crocodylus Park is the best place in Australia to come face to face with the largest reptiles on the planet! Built upon 30 years of experience in crocodile research and conservation, Crocodylus Park plays host to over a thousand crocodiles from 30 cm long hatchlings to massive adults measuring over 4.8 m and weighing more than half a ton! There is a diverse array of other wildlife, including big cats, primates, birds and other reptiles, ensure the crocodiles don't steal all the limelight.

Menzies School of Health and Research

Menzies School of Health Research is one of Australia's leading medical research institutes. We are dedicated to improving the health and wellbeing of Indigenous Australians, and are global leaders in tropical research into life-threatening illnesses.

12.30pm

Field Trip B:

Menzies School of Health and Research

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Program Day 1

Thursday 12th September

Field Trips Continued

12.30pm

Field Trip C:

Territory Wildlife Park

At the Territory Wildlife Park, not only do you see wildlife up-close in their natural habitats, you meet them walking through tree top aviaries, strolling around a natural lagoon and even get to interact with them during daily presentations. The experienced team love sharing their knowledge of the wildlife and the habitats in their care. It's what the people are passionate about. The more you ask, the happier they are to share.

Darwin Aquaculture Centre

The Darwin Aquaculture Centre has undertaken a range of research and development projects on pearl oysters, tropical oysters, sea cucumbers, giant clams, prawns, barramundi, blue fin tuna, mud crabs, reef fish, copepods, rotifers, algae, and a number of disease investigations in the 28 years since it was established.

12.30pm

Field Trip D:

Darwin Aquaculture Centre

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Program Day 1

Thursday 12th September

Field Trips Continued

12.30pm	<p>Field Trip E:</p> <p><i>Beatrice Hill Farm</i></p> <p>Beatrice Hill is the headquarters of Australia's buffalo dairy industry, with most of the farm's young buffalo destined to be sold to dairies scattered across Australia. It runs one of the nation's biggest herd of Riverine buffalo — the breed whose milk is used to make genuine mozzarella cheese.</p> <p><i>Windows to the Wetlands</i></p> <p>Window on the Wetlands Visitor Centre's interactive displays explain the Aboriginal and European histories of the area, its ecology, seasonal changes and the abundant wildlife of the northern coastal wetlands. It is perched on Beatrice Hill, one of the highest points overlooking the Adelaide River floodplains.</p>
5.00pm	Buses return to Mindil Beach Casino Resort

Conference and Awards Dinner

6.15pm	<p>Come along in tropical semi-formal attire and enjoy our NT inspired 3 course meal and drinks</p> <p>Master of Ceremonies – Matt Brann – ABC Rural</p> <p>Guest Speaker</p> <p>Aimee Snowden – Little Brick Pastoral</p> <p><i>Sharing agriculture with the LEGO® Farmer</i></p> <p>APEN Award Presentations</p>	Beachside Pavilion
10.15pm	Dinner Concludes	

Program Day 2

Friday 13th September

Thursday 12 September 2019

8.00am	Registration Desk Open	Beachside Pavilion
8.30am	Keynote Speaker Fiona Simson – National Farmers Federation <i>Agriculture's Road to \$100 Billion</i>	Beachside Pavilion

Concurrent Session #2

	Beachside Pavilion	Grand Ballroom 1	Grand Ballroom 2	Evoo
Location	Beachside Pavilion	Grand Ballroom 1	Grand Ballroom 2	Evoo
Subject	Climate & Environment	Rural Community	Sustainable Agriculture	International Extension
Session Chair	Dani England	Peter Long	Callen Thompson	Jeanette Gellard
9.15am	Richard Carter BounceBack 2018 - A Positive Drought Response in Central Tablelands NSW - using a plan-on-a-page	Georgie Oaks Ladies in Livestock - Progressive Ladies, Productive Decisions	Clare Edwards Fostering soil and pasture health knowledge in Central Tablelands landholders	Sandra Heaney-Mustafa Development of Farmer Integrated Learning Model (FILM)
9.30am	Lana Hepburn Prioritisation in practice	David McGill Interactive digital-based applications support agricultural extension workers in Pakistan by increasing smallholder farmer engagement	Bruce Maynard Everything I need to know about extension, I learned from my cows	Clinton Muller The Potential of International Landcare in Agriculture Extension

Program Day 2

Friday 13th September

Concurrent Session #2 Continued

9.45am	<p>Con Simos</p> <p>Does provision of better coffee at seminars promote increased adoption?</p>	<p>Truyen Vo</p> <p>Overcoming language barrier to successful adoption agricultural innovation: multiple-case study of successful adoptions knowledge-based technologies by Vietnamese Australian vegetables growers in Western Australia.</p>	<p>Angela Hammond</p> <p>Profitable Grazing Systems</p>	<p>Thivahary Geretharan</p> <p>Agricultural support service provision - voices of smallholder farmers from post-war northern Sri Lanka</p>
10.00am	<p>Roy Murray-Prior</p> <p>Building climate resilience in farm businesses: how effective was the Farm Planning program?</p>	<p>Tracey Schultz</p> <p>Using the principles of behavioural science to achieve agricultural practice change through engagement and place based initiatives</p>	<p>Kylie Hopkins</p> <p>The P message: Improving phosphorus nutrition management with a new extension approach</p>	<p>Jorie Knook</p> <p>Evaluation of participatory extension programmes from an institutional logics perspective</p>
10.15am	<p>John Noonan</p> <p>Facilitating a more climate resilient future for farm businesses</p>	<p>John James</p> <p>The world premiere of the Enablers of Change podcast and YouTube channel for extension professionals</p>	<p>Breanne Brown</p> <p>Building the gap between soil testing and true practice change for improved fertiliser management in the Geographe catchment of Western Australia</p>	<p>Clinton McGrath</p> <p>Collaborative effort to export strawberries to Honk Kong and Macau</p>
10.30am	<p>Morning Tea</p>			<p>Beachside Pavilion</p>

Program Day 2

Friday 13th September

11.00am	<p>Poster Session</p> <p>Take the opportunity to talk to the authors of the posters. Poster titles are listed on Page 21</p>	Beachside Pavilion
11.20am	<p>Muster Yard</p> <p>Delegates will be invited to participate in a World Café style event, where they will have structured conversations and knowledge sharing to discuss topics based on the concurrent session themes. Delegates will switch tables periodically and be introduced to the new topic and previous discussion at their new table by a designated host.</p>	Beachside Lawn
12.20pm	<p>Lunch</p> <p>APEN AGM - Held in Beachside Pavillion</p>	Beachside Pavilion

Concurrent Session #3				
Location	Beachside Pavilion	Grand Ballroom 1	Grand Ballroom 2	Evoo
Subject	Climate & Environment	Rural Community	Sustainable Agriculture (a)	Sustainable Agriculture (b)
Session Chair	Pat Hamilton	Roy Murray-Prior	Anthony Kachenko	Les Baxter
1.20pm	<p>Jude Matusiewicz</p> <p>What the FEC?? Lessons learned from initiating extension within Australia's horse industry about increasing worm resistance to anthelmintics</p>	<p>Amanda Leach</p> <p>The hearing for learning initiative</p>	<p>Iftikhar Hussain</p> <p>Performance of two adult learning models in enhancing farmer water management skills in Pakistan</p>	<p>Terry Parminter</p> <p>Extension in a time of regulation</p>

Program Day 2

Friday 13th September

Concurrent Session #3 Continued

1.35pm	<p>Adrian Englefield</p> <p>NSW DPI VineWatch - Connecting the NSW wine industry</p>	<p>Jeanette Gellard</p> <p>Empowering women to radically change the way agriculture is portrayed at the Thriving Women 2018 Conference</p>	<p>Sue Heisswolf</p> <p>Reflections on five years in automation, robotics and sensing</p>	<p>Vicki Horstman</p> <p>Peer Support Model as Catalyst for Change</p>
1.50pm	<p>Belinda Pritchard</p> <p>Young Farmer Business Network - Connecting young farmers with farm business information</p>	<p>Nadeesha Jayasena</p> <p>Smallholder participation in milk markets in Sri Lanka: A livelihood analysis</p>	<p>Kate McCarthy</p> <p>Improving Biosecurity and Animal Health practices amongst per-urban and absentee landholders</p>	<p>Daisy-May Denny</p> <p>Assessing the effectiveness of extension methods and engagement using biophysical data</p>
2.05pm	<p>Nicole Sallur</p> <p>FutureBeef: coordinated and collaborative delivery of online information for the northern beef industry</p>	<p>Alexandra Hicks</p> <p>The Young Farmer Business Program</p>	<p>Heidi Hatch</p> <p>RP161: A new approach to providing value through extension to Burdekin cane growers in the Great Barrier Reef catchment</p>	<p>Callum Eastwood</p> <p>Human-centred design that works for farmers</p>
2.20pm	<p>Ruth Nettle</p> <p>On-line learning, micro-credentialing and the flipped classroom - new arenas for professional development in extension?</p>	<p>Margaret Ayre</p> <p>What counts as evidence in Monitoring & Evaluation (M&E) for Indigenous land and sea management?</p>	<p>Ruth Redfern</p> <p>Soiling your undies... and other lessons in impactful extension from the first seven years of CottonInfo</p>	<p>Deborah Holtham</p> <p>Unique partnerships and collaborations for Sustainable Agriculture in Western Australia</p>

Program Day 2

Friday 13th September

Concurrent Session #3 Continued

2.35pm	<p>Heather Collins</p> <p>Virtual discussion groups: how can we build meaningful interactions? Insights from New Zealand.</p>	<p>Susanne Casanova</p> <p>If you show me your extension, I'll show you mine</p>	<p>Greg Owens</p> <p>Promoting IPM control in asian vegetable crops in the Northern Territory using plots of a range of vegetables to demonstrate the principles and techniques to growers.</p>	<p>Col Freeman</p> <p>Beyond Program Logic: Using Program Theory to (re)focus on people and practices</p>
2.50pm	Afternoon Tea			Beachside Pavilion
3.20pm	<p>Muster Yard Review</p> <p>Table hosts will be asked to present key discussion points raised during the Muster Yard session to the entire conference</p>			Beachside Pavilion
3.50pm	<p>Panel Session</p> <p>We welcome back our keynote speakers to discuss their key points from the conference, and answer any remaining questions</p> <ul style="list-style-type: none"> • John Pickering – Behaviour Innovation • Peter Ellerton – University of Queensland • Aimee Snowden – Little Brick Pastoral • Andrew Campbell - ACIAR 			Beachside Pavilion
4.30pm	<p>Thanks & Wrap Up</p> <p>Graham Harris – APEN President</p>			Beachside Pavilion
4.45pm	Close			
	<p>Farewell Function</p> <p>Farewell your fellow delegates over a complimentary beverage</p>			Sandbar

Poster Presentations

Available in the Beachside Pavilion throughout the conference

Adrian Englefield	NSW DPI VineWatch - Connecting the NSW wine industry
Venkata Kadali	How do we equip agricultural students for success in extension careers? A student's perspective using climate resilience as a case study
Andrea McKenzie	Remote Presenting to Bring the World the Graziers
Muhammad Sajid Shahzad	Farmer learning through Organic Research and Collaborative Development (ORCD) method - a case study of onion seed production
Raheela Khan	Women Empowerment through Sustainable Agriculture
Daisy-May Denny	What ground cover data informs us about graziers adoption of grazing land management practices
Ruth Nettle	Farm practice change in Australia: Busting some myths about the non-adopting farmer
Jed Sommerfield	Enabling producers to present at events
Timothy Moravek	Assessing the effectiveness of extension methods and engagement using biophysical data
Rabi Maskey	Benefits and barriers of converting conventional border-check irrigation systems to pressurised systems for crops and pastures in northern Victoria: farmers' perspective
Sylvia Jelinek	VegNET NSW - Monitoring to Measure Practice Change Impact!
Matthew Plunkett	VegNET NSW - A knowledge and practice change success story!
Elya Richardson	Evaluating Primary School Program for Community Development
Matt Brown	Extension Tools Change Business Direction
Callen Thompson	Weeds in Hay - managing biosecurity in drought
Callum Eastwood	Successful farmer-to-farmer learning based programmes require a focus on active farmer engagement
Carla Eisemberg	The Iron Turtle Network: Addressing anaemia and fostering new enterprise using traditional bushmeat
Rachel Hay	Better Connected Developing Relationships and Trust in Extension

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CottonInfo is the Australian cotton industry's extension program. We deliver the latest research and development findings to help growers boost their productivity, profitability and best practice.

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Territory Natural Resource Management (TNRM) is an independent not for profit, membership based organisation which has been working with landholders, community groups, industry and government since 2003, to ensure sustainable management of water, land, soils and biodiversity in the Northern Territory.

2019

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CONFERENCE

