



Department of Water and Environmental Regulation
Department of Primary Industries and Regional Development

Nutrient Summit 2017

Productive Agriculture - Healthy Estuaries

15th August 2017

Mandurah Performing Arts Centre, Ormsby Terrace,
Mandurah, Western Australia, 6210

PROGRAM

Partners



PHCC Working Together
Peel-Harvey Catchment Council



Lower Blackwood Catchment
Land Conservation Project Committee



FERTILIZER
AUSTRALIA



WICC
WILSON INLET CATCHMENT COMMITTEE



Leschenault
Catchment
Council



GeoCatch



Western
DAIRY



Dairy
Australia

Your Levy at Work



Oyster Harbour
Catchment Group



Revitalising Geographie
Waterways

VASSE
taskFORCE

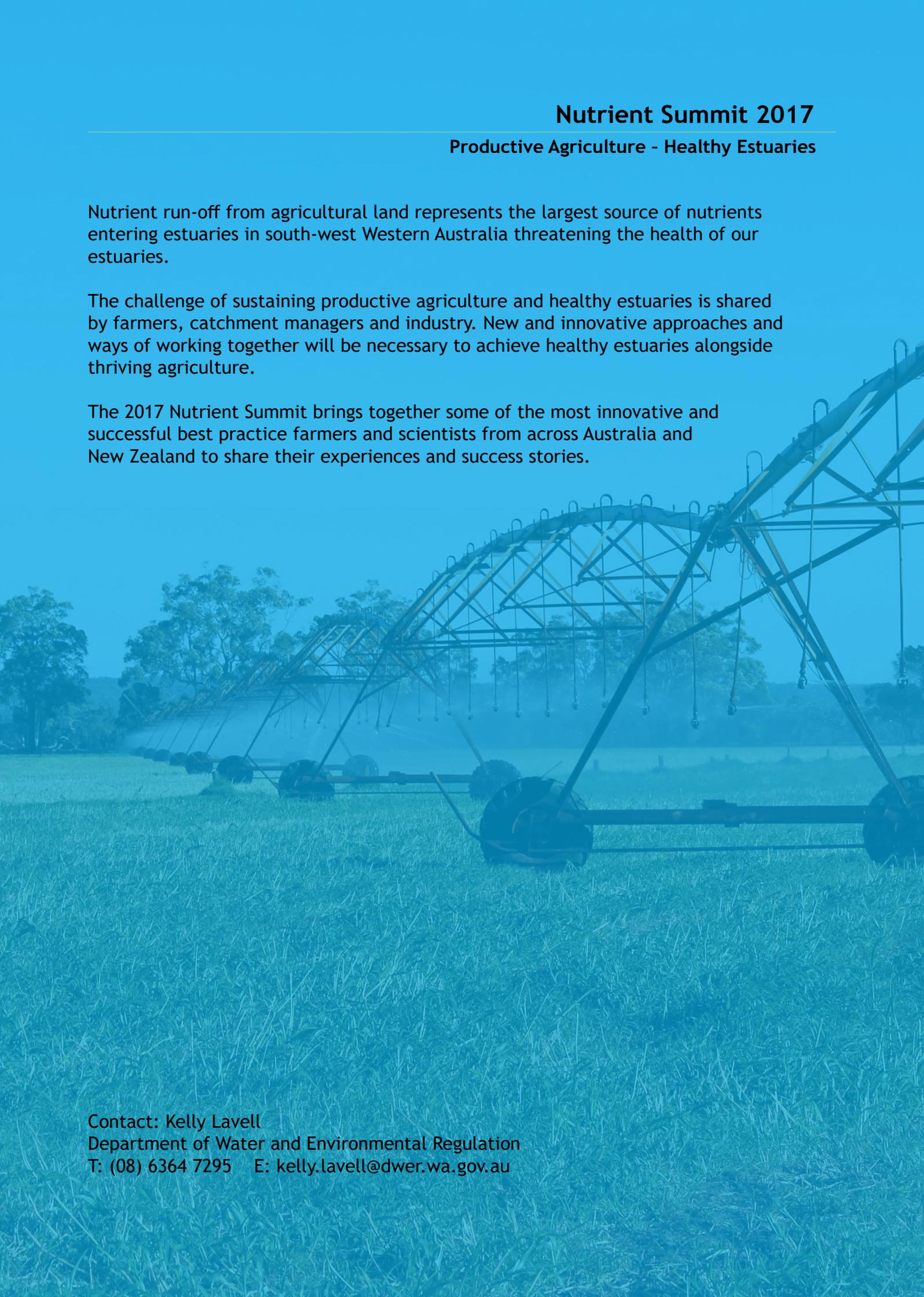
Nutrient Summit 2017

Productive Agriculture - Healthy Estuaries

Nutrient run-off from agricultural land represents the largest source of nutrients entering estuaries in south-west Western Australia threatening the health of our estuaries.

The challenge of sustaining productive agriculture and healthy estuaries is shared by farmers, catchment managers and industry. New and innovative approaches and ways of working together will be necessary to achieve healthy estuaries alongside thriving agriculture.

The 2017 Nutrient Summit brings together some of the most innovative and successful best practice farmers and scientists from across Australia and New Zealand to share their experiences and success stories.



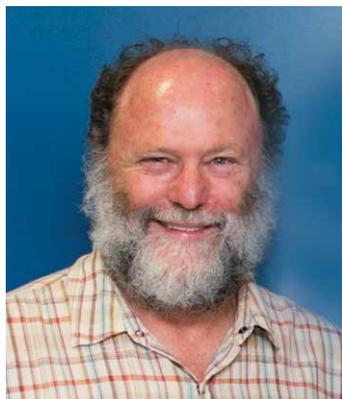
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GUEST SPEAKERS

Nutrient Summit 2017

Productive Agriculture - Healthy Estuaries

Time	Activity
10:30	REGISTRATION AND COFFEE ON ARRIVAL
11:00	Welcome to Country Harry Nannup, Noongar Elder Welcome and official opening Mike Rowe, A/Director General Department of Water and Environmental Regulation
11:20	Learning from experience, changing our future Malcolm Robb, Manager Water Science Department of Water and Environmental Regulation
11:40	SESSION 1 Enhancing nutrient use efficiency from planet to paddock Dr Cameron Gourley, Senior Research Scientist Victorian Department of Economic Development, Jobs, Transport and Resources Fertilizer industry - Part of the problem... Nick Drew, Executive Manager Fertilizer Australia
12:40	LUNCH BREAK
13:40	SESSION 2 Engaging stakeholders: Getting the messages right! Tracy Schultz, PhD Candidate University of Queensland Productive Agriculture - Healthy Estuaries: Queensland experiences Dr John Bennett, Chief Scientific Officer Queensland Department of Environment and Heritage Protection Why telling it how it is really matters David Defranciscis, Innovative Queensland sugar cane grower
15:20	AFTERNOON BREAK
15:50	SESSION 3 Beyond planning: Using investment strategies to implement the Tamar Estuary and Esk Rivers Water Quality Improvement Plan Dr Rebecca Kelly, Director isNRM, Tasmania Achieving positive change in farming communities: A farmer's experience George Moss Leading New Zealand dairy farmer
16:50	Close



Malcolm Robb

Water Science Manager, Western Australian Department of Water and Environmental Regulation

In a career spanning more than 40 years, Malcolm Robb's specialist expertise in the field of water science and water management is recognised in Australia and internationally.

With degrees in earth science and marine chemistry and marine geology, followed by post-graduate work in chemical oceanography in Alaska, Malcolm is a tireless advocate for "doing good science" to solve water productivity and quality problems, especially those associated with land use intensification and urbanisation.

His area of expertise include the establishment of long term data sets to assist understanding of estuarine responses to nutrient and organic loading and developing indicators of estuary health that support management actions. He has contributed to the development of Water Quality Improvement Plans, estuary health assessments, phosphorous binding treatments, and monitoring programs for catchments and estuaries. He has collaborated internationally to develop innovative oxygenation technology in estuaries and initiated and managed the implementation of catchment models in six large water basins that links water quality to land use and management practices.

Malcolm is a passionate spokesperson on behalf of estuaries in WA, and based on 20 years of learning was successful in securing funding in 2016 to implement the Regional Estuaries Initiative to improve the health of six regional Western Australian estuaries.

Presentation title: Learning from experience, changing our future



Dr Cameron J P Gourley

Senior Research Scientist - Soils and Land Management

Dr Cameron Gourley is a Senior Research Scientist with the Agriculture Research Division of the Victorian Government, and an Associate Professor with the School of Chemistry at Monash University.

Cameron is a soil scientist and has worked for 34 years in the area of pasture and animal production research with a focus on productivity, profitability and minimising environmental impacts. He is recognised both nationally and internationally for his work on improving nutrient management in grazing-based production systems, particularly the dairy industry.

His areas of expertise include quantifying nutrient flows, transformations and use efficiency at the whole-farm and within-farm scale, the development of national standards, tools and indicators which meet industry and community needs for environmental performance; improving fertiliser decisions through soil test development and interpretation, as well as waste stream management from dairy farms and milk processors.

Cameron has published over 60 refereed journal articles and 10 book chapters and technical bulletins and is a regular contributor to training forums for industry advisors and livestock producer.

Cameron also contributes to government and industry policy development relating to improving nutrient and waste management practices in agricultural landscapes.

Cameron has linkages and collaboration with international researchers in North America, New Zealand, United Kingdom and Europe. He is a contributor to the International Task Force on Reactive Nitrogen (TFRN), the FAO Livestock Environmental Assessment Program, and is Task Leader within the UNEP supported Towards INMS program.

Presentation title: Enhancing nutrient use efficiency from planet to paddock



Nick Drew

Executive Manager, Fertilizer Australia.

Nick manages strategy development and implementation as the head of Fertilizer Australia.

The association manages engagement in public policy, sustainability and stewardship on behalf of its members. It assists members develop and implement codes of practice and the Fertcare® training and accreditation program. It has a focus on environment, food safety, quarantine, and product security.

Nick has had a 33-year professional career in agriculture since completing his bachelor degree in applied science, rural technology. Prior to his current role he has worked in commercial cotton production, in research

and extension in the public sector, and in various roles in the fertilizer industry.

When not at Fertilizer Australia Nick is likely to be working on his hobby farm, hammering in the forge, walking in the mountains, touring on his motorbike or playing veterans rugby.

Presentation title: Fertilizer industry - Part of the problem...



Tracy Schultz

PhD Candidate at the University of Queensland

Tracy Schultz is a PhD Candidate at the University of Queensland. Before starting at UQ, Tracy worked as an environmental policy officer with the Queensland Government and as a research officer with the Queensland Centre of Mothers and Babies.

In those roles Tracy realised the value of engaging the wider public with policy initiatives, which led to research at the University of Queensland in environmental and social psychology. Her research explores the properties or dimensions of images that engage people with pro-environmental communication. Her research is part of a larger project looking at how we can engage communities in water sensitive cities as part of the CRC for Water Sensitive Cities.

Presentation title: Engaging stakeholders: Getting the messages right!



John Bennett

John Bennett has just retired after 43 years of water quality planning and management experience with the Queensland Government Environment Departments. His positions have ranged from “hands on” roles leading water quality modelling and monitoring studies to applying this experience to guiding waterway/water quality planning and catchment management strategies, such as Southeast Queensland Healthy Waterways Strategy and all the Great Barrier Reef Water Quality Improvement Plans.

John has also participated on a number of national water committees, including the current reviews of the National Water Quality Management Strategy and Water Quality Guidelines.

In the last 20 years, John’s main role was providing the links between science and policy, including his final role as Chief Scientific Officer for the Office of the Great Barrier Reef.

He has a M.Sc. from University of Newcastle upon Tyne and a B.E (Civil) from University of Queensland.

Presentation title: Productive Agriculture - Healthy Estuaries: Queensland experiences

GUEST SPEAKERS

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David Defranciscis

David is a leading sugar cane farmer from Burdekin in north Queensland. Burdekin is located between Townsville and Bowen in the delta of the Burdekin River which is Australia's largest river by peak discharge volume and economically is the second most important river in Australia, behind the Murray River.

In the river's lower catchment, is northern Australia's largest irrigation area with approximately 80,000 hectares under irrigation, predominantly for growing sugarcane.

David has been growing sugar cane for 40 years and was responsible for developing a very successful fertiliser project with the Queensland Government called the RP-20 project, which was aimed at validating the correct Nitrogen rates required to grow sugar cane. This project has provided farmers with the opportunity to learn from other farmers and see

the results of correct fertiliser management for themselves.

David is now instrumental at promoting fertiliser best practice and encouraging farmer involvement in similar fertiliser programs through-out Queensland.

Presentation Title: Why telling it how it is really matters



Dr. Rebecca Kelly

Director of isNRM

Rebecca received undergraduate degrees in Science and Economics, with First Class Honours in Mathematics. In 2002 she completed her PhD in integrated modelling, looking at economic and environmental trade-offs of water allocation arrangements in cotton growing areas in Northern NSW.

She then spent several years living and working in Canberra as an academic at the Australian National University, completing a range of integrated modelling projects on coastal lake and estuary systems as well as further research on water allocation for irrigation. She moved to Launceston in 2006, leaving her position of Fellow at the Australian National University in 2008 to set up her own consultancy business, isNRM.

Rebecca specialises in science for management, using a mix of mathematical modelling and community engagement skills to improve decision making. Her work aims to bring together the best available science with community knowledge and translate it for use by policy and decision makers. She has spent the last decade completing Water Quality Improvement Plans for catchment and estuary systems in NSW, Tasmania and the Northern Territory.

Presentation title: Beyond planning: Using investment strategies to implement the Tamar Estuary and Esk Rivers Water Quality Improvement Plan



George Moss

George Moss is a prominent New Zealand dairy farmer. He and his wife Sharon milk 335 cows across three adjoining properties totalling 184 hectares near Tokoroa, New Zealand. George is serious about reducing his farm's impact on the iconic Waikato River and the surrounding environment and actively participates in farmer and community programs.

George is a member of the Waikato Collaborative Stakeholder Group which assisted in the writing of the bold Waikato Regional Plan Change to address the complex issue of addressing water quality in the Waipa and Waikato Rivers. George is also a member of DairyNZ's committee that has led the development of Sustainable Milk Plans in the Upper Waikato catchment.

Presentation title: Achieving positive change in farming communities: A farmer's experience



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VENUE DETAILS

(08) 9550 3900

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RECOMMENDED HOTELS

Seashells Mandurah

Dolphin Quay Apartments

The Sebel Mandurah

Mandurah Ocean Chalets

VENUE MAP

