

HORTICULTURE & HUMANITY CONFERENCE



Australian Institute
of Horticulture Inc.

Promoting Horticulture
the Profession
of the 21st Century

Speakers Booklet

AIH National Conference, 21-22 September 2019, Perth WA.



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Time	Presenter and Topic
8:15 - 8:30	Conference Welcome and Introduction MC – Costa Georgiadis
8:35 - 8:50	Welcome to Country Professor Simon Forrest
8:50 - 9:05	Open Conference The Hon Rita Saffioti MLA, Minister for Transport; Planning Liveable Neighborhoods and Metronet – Blueprint for green urban renewal
9:05 - 9:35	Keynote Graeme Sait <i>Introducing the Anthropocene, consequences and horticultural solutions</i>
9:35 - 10:05	Keynote Carole Fudge <i>How horticulture became involved with climate change and reversing urban tree canopy decline</i>
10:05 - 10:40	MORNING TEA
10:40 - 11:10	Keynote Professor Peter Newman <i>The daily dose of Biophilia – why we need it and how do we get it in suburban Australia?</i>
11:10 - 12:10	CONCURRENT SESSION 1 – TREES
11:10 - 11:30	Practical tree root management in urban environments Rob Bodenstaff - Aborcentre
11:30 - 11:50	Canopy cover - what's happening in WA's local government areas Warren Stephens - Belmont City Council
11:50 - 12:10	Panel discussion Trees Carole Fudge, Rob Bodenstaff and Warren Stevens
11:10 - 12:10	CONCURRENT SESSION 2 – BIOPHILIA
11:10 - 11:25	City greening and connections to wildlife - Singapore's example Jason Wright – National Parks Singapore
11:25 - 11:40	Successful rooftop gardens and greenwalls in WA's climate Julian Rose – Deep Green
11:40 - 11:55	Where is water coming from for green space in the future? Susan Worley – Department of Water and Environmental Regulation WA
11:55 - 12:10	Panel discussion – Biophilia Professor Peter Newman, Jason Wright, Julian Rose & Susan Worley
1:10 - 1:40	LUNCH
1:10 - 1:40	Keynote Professor Lyn Abbott <i>What's happening in soil science and what does it mean for humanity?</i>
1:40 - 2:10	Keynote Graeme Sait <i>Food security - what does it mean in 21st Century Australia</i>
2:10 - 2:40	Keynote Professor Steven Hopper <i>New perspectives on revegetation with local area native plants</i>
2:40 - 3:10	AFTERNOON TEA/COFFEE
3:10 - 4:10	CONCURRENT SESSION 3 – SOILS
3:10 - 3:30	A new twist on soil carbon – An answer for the Anthropocene Andy Gulliver - Owise
3:30 - 3:50	The future of food growing – The Sundrop Farms Project Steve Marafioti Sundrop Farms
3:50 - 4:10	Panel discussion – Soils Lyn Abbott, Andy Gulliver & Steve Marafioti
3:10 - 4:10	CONCURRENT SESSION 4 – FOOD – FARMING
3:10 - 3:30	Shaping the future of sustainable food production in WA – an example for the nation Graham McAlpine – Perth NRM & Food Future
3:30 - 3:50	Tucker Bush and Bindi Bindi Dreaming – a new partnership linking traditional Aboriginal foods Mark Tucek & Marissa Verma
3:50 - 4:10	Panel discussion – Farming Graeme Sait, Graham McAlpine, Mark Tucek & Marissa Verma
3:10 - 4:10	CONCURRENT SESSION 5 – BUSH REGENERATION & ENGINEERED WETLANDS
3:10 - 3:25	Linkages - a vital strategy to overcome biodiversity collapse Dr Jane Chambers – Director NatureLink Perth
3:25 - 3:40	Rescuing rare, recalcitrant and endangered plants for rehabilitating disturbed landscapes including minesites Ben Croxford – Nuts about Natives Nursery
3:40 - 3:55	Horticulture on the Wild Side – Wetland filtering of hydrocarbon pollution project Oman David Hancock – Natural Area Consulting Management Services
3:55 - 4:10	Panel discussion – Bush Regeneration & Engineered Wetlands Prof. Steven Hopper, Jane Chambers, Ben Croxford & David Hancock
4:20 - 4:30	Conference Completion Costa Georgiadis
4:30 - 5:00	Annual General Meeting AIH
6:30 - LATE	AWARDS DINNER

Keynote and guest speakers

Graeme Sait

Presentation 1: Introducing the Anthropocene, consequences and horticultural solutions.

Brief

Nature is the perfect blueprint and real science involves adherence to natural laws and principles. This wondrous creation should surely inspire humility and gratitude but, unfortunately, humankind has arrogantly assumed that they could improve upon such perfection. We have taken more than we have given and consequently we are facing our greatest challenge.

Humankind are in a 'perfect storm' involving top soil loss, mismanagement of water resources, increasing chemical use, loss of biodiversity, an insect Armageddon, nitrogen abuse, rapid extinction and, of course, the spectre of climate change.

However, challenges produce opportunities.

In this fascinating presentation, you will discover multiple strategies to sequester carbon, to increase biodiversity, to reduce chemicals and water pollution, to restore degraded soils, to reduce chemicals and to increase urban cooling. In fact, you will understand how horticulture can help save the planet.

Presentation 2: Food Security what does it mean in the 21st Century Australia.

Brief

The concept of food security typically relates to the capacity of a country to feed itself in times of crisis. However, that capacity involves much more than about the percentage of food we grow rather than import. Increasingly, we are witnessing a host of new challenges that threaten to compromise our National self-sufficiency.

Colony collapse, disease and the loss of other pollinators; the loss of seven to ten tonnes of topsoil/hectare per year; burgeoning drought and weather extremes and increased pest pressure associated with climate change are just some of the threats in the security equation. Our food security is compounded by the extreme likelihood of a deflationary depression which is forecast to occur soon. In times of economic uncertainty, food thus becomes the new gold and self-sufficiency becomes the gold standard.

In this presentation, internationally acclaimed author/educator, Graeme Sait, will share strategies to counter these threats. You will learn how to boost pollinators, build the soil glue (humus) that retains top soil, increase your resilience to weather extremes and manage pests more efficiently. You will also discover how to increase profit and sustainability to better position yourself in the driver's seat in this brave, new world.

Bio

Graeme is the CEO and co-founder of Nutri-Tech Solutions (NTS), a world leader in sustainable agriculture. He is also an author/educator responsible for over 300 published articles and a popular book, "Nutrition Rules!". He created the internationally acclaimed, 'NTS Certificate in Nutrition Farming®'. This course has now extended the understanding of over 40,000 farmers, on four continents.

Graeme is a sought-after speaker, specialising in soil, plant, animal and human health. More recently that emphasis has expanded to include planetary health in recognition of the profound link between soil humus and carbon sequestration. His popular TED Talk, 'Humus Saves the World', has 200,000 views.

Graeme has influenced farmers, consultants, governments and key decision makers in Canada, USA, Mexico, Brazil, Europe, Asia, India and of course, Australia and New Zealand (his original home country). He recently consulted with the Minister of Agriculture in the U.K. to help them develop a more sustainable post-Brexit agriculture policy. In February, 2019, Graeme trained a group of Professors in India, some of whom will be involved in the World's first organic university, which is to be established soon in that region.

Carol Fudge

How did the Nursery and Garden Industry become involved in climate change?

Brief

In the early 2000's it became increasingly apparent that the Nursery and Garden Industry was going through some alarming changes. The fight for space in our urban areas to grow plants was shrinking at rapid rates and the long-term outlook was that we were losing our gardens and parks to larger houses, smaller house blocks, car parks and increasing urban density. Greenspace was not a major consideration in strategic planning and our industry did not have a seat at the table when decisions were being made about these issues.

The Nursery and Garden Industry embarked on a plan to raise the profile of green space; 'influence the influencers' were the words we used. A small group of industry advisers shaped a framework that with the help of industry levy funds and a very clever marketing company called, Republic of Everyone, became the 2020 Vision movement. It was a 'light bulb' moment not only for our industry but personally as I realised that not everyone else understands the importance that nature plays in their daily lives as much as we do in Horticulture.

Bio

I have been exceptionally fortunate to work in Horticulture since 1978, working primarily in production nurseries, but also in retail nurseries. Growing our industry and raising the importance of Nature and Green Space in our daily lives is a personal passion of mine. The last 23 years I have been working in Sales and marketing for Benara Nurseries, who are one of the largest family owned production nurseries in Australia. This has given me opportunities to travel both within Australia and internationally seeking

innovation and ideas. This in turn, has led me to taking a seat on the state Nursery and Garden Industry board. I also have a role on the Strategic Industry Advisory Panel on behalf of Nursery to Hort Innovation who manage the Industry levy funded R & D and Marketing projects.

Peter Newman

The Daily Dose of Biophilia: Why we need it and how do we get it in Sub-urban Australia?

Brief

The idea of garden cities has always been more than about aesthetics. What we are now seeing is that a daily dose of nature is essential for both human health and planetary health. The Anthropocene era is being defined by Planetary Boundaries which are now being translated into actionable practices for: greenhouse emissions, tree cover, aerosols, ozone, Nitrogen and Phosphorus, water, biodiversity and plastics. I will make suggestions as to how gardens can help (or cause more damage) with these actionable practices.

Bio

Peter Newman is the Professor of Sustainability at Curtin University in Perth, Australia. He has written 20 books and over 340 papers on sustainable cities. In 2014 he was awarded an Order of Australia for his contributions to urban design and sustainable transport and in 2018 was made WA Scientist of the Year. Peter has worked in local government as an elected councillor, in state government as an advisor to three Premiers and for the Australian Government on the Board of Infrastructure Australia and the Prime Minister's, Cities Reference Group. He is a Co-ordinating Lead Author for the IPCC on Transport and his latest book is Resilient Cities: Overcoming Fossil Fuel Dependence. He is Editor-in-Chief of Sustainable Earth, a new Nature journal.

Lynette Abbott

What's happening in soil science and what does it mean for humanity

Brief

This presentation will address recent advances in knowledge of soil, especially those characteristics that relate to soil biological fertility. It will consider how we currently use and treat soil and how this influences the capacity of soil to deliver into the future. While soil management practices underpin sustainable food production, the quality of food produced and maintenance and improvement of soil conditions are also important considerations. How does knowledge of soil science contribute to understanding short-term and long-term impacts of soil management practices on soil security?

Bio

Lynette Abbott is Emerita Professor at The University of Western Australia. Her research focuses on the role of soil biological processes in nutrient acquisition by plants and includes bio-chemical and bio-physical interactions with soil amendments and plant-microbe interactions. She has presented many workshops on soil health and is a Fellow of Soil Science Australia and a Fellow of AgInstitute Australia.

Professor Steven D. Hopper

New perspectives on revegetation with local area natives

Brief

New research, at landscape level, from biodiversity and Aboriginal studies has revealed fresh perspectives on revegetation with local area natives. Noongar teachers convey a fundamental insight on caring for country summarized by their words kaat (hill, head) and beeliar (fresh water bodies). This distinction is emphasized for biodiversity in Ocbil theory, pertaining to old, climatically buffered infertile landscapes seen predominantly in the southern Hemisphere, equivalent to the concept of kaat. The practical ramifications for revegetation with native plants from kaat or Ocbils have rarely been a conscious focus. Instead, most revegetation draws upon theory and practical frameworks derived for beeliar species, that are on young, often-disturbed and fertile landscapes (Yodfels). This talk explores such insights pertinent to revegetation with Australian endemic native plants.

Bio

Professor Steve Hopper AC is a field-active conservation biologist, who is a widely travelled and well-published scientific author. Currently, as University of Western Australia's (UWA), Professor of Biodiversity, he leads a program on sustainable living with biodiversity at the Albany campus. His focus is on old, climatically-buffered, infertile landscapes (Ocbils), such as granite outcrops, and on cross-cultural studies with Aboriginal people. A graduate from UWA (1974) with a PhD awarded in 1980, Professor Hopper has named some 300 plants new to science. He was the Western Australian's government's first Flora Conservation Research Officer in 1977. Following overseas study in 1990 in Georgia (USA) and California, Professor Hopper served as Director both at Kings Park and Botanic Garden in Perth (1992-2004) and at the Royal Botanic Gardens, Kew, in London (2006-2012). In 2012 he was awarded Australia's highest civilian honour (Companion of the Order of Australia) and inducted into the Western Australian Science Hall of Fame.

Concurrent session, panel and tour speakers

Rob Bodenstaff

Practical tree root management in urban environments.

Brief

"It is the root system of a tree that sustains the leaves that provide our canopy cover... Leaves are simply the solar panels that power the running of a root system. This presentation informs on what it takes to increase the tree sustainability that serves us at least cost".

Bio

Rob has spent the past 30 years pursuing the better management and utilisation of trees in Western Australia's diverse urban environs. Arbor Centre currently employs 23 full time staff that are in ever increasing demand for many large scale CBD projects and Estate developments (predominantly in Perth), but which also include Melbourne, Sydney, Adelaide, Singapore, China and Brunei; where arboricultural input has needed to successfully coalesce with Engineers, Architects, Landscape Architects, Planners and Designers.

Andy Gulliver

A New Twist on Soil Carbon – An Answer for the Anthropocene

Brief

This presentation takes a light-hearted, provocative look at the carbon story. It will attempt to join the dots in the plot and save the planet in just 15 minutes, providing food for thought about how horticulture can help humanity survive the Anthropocene Era.

This is how its' done:

Progressive farmers build soil carbon as a pragmatic approach to profitability. This can save the planet as building soil carbon builds resilient ecosystems.

But how does that work? Can healthy soil be compared to the new science around gut health and the microbiome? Gut health is emerging as a key driver of human health and well-being. It's the same for soil as soil carbon improves soil performance, food quality and the community health budget.

Bio

A long career in the mushroom industry taught Andrew the importance of balancing ecosystems and commercial reality in a tough environment where the cost of failure is high.

The combination of holistic and hard-nosed principles served well in working with other crops. Over the last 20 years Andrew has applied this knowledge and experience to the transformation of carbon into high performance products for farming and other land management systems.

He has worked on developing productive, resilient farming systems based on

biologically healthy soils promoting the value of soil carbon and the role that the composting process plays in creating a carbon economy that supports a wider circular economy.

Andrew is actively interested in encouraging successful horticulture, regional development and the contribution business makes to improved social and environmental outcome for his community.

Dr Jane Chambers - Director NatureLink Perth

Linkages – a vital strategy to overcome biodiversity collapse

Brief

Perth is in a global biodiversity hotspot with unique plant and animal species threatened with extinction as the city continues to grow. The good news is that integrating nature into our city will benefit people and wildlife – one that will promote our health and wellbeing and that of our children. This talk describes how NatureLink Perth, a hub to connect and coordinate a diverse array of stakeholders, is working to retain and connect remnant native vegetation to nurture a biodiverse city.

Bio

Dr Jane Chambers is the Director of NatureLink Perth and an academic in Environmental Science, Management and Sustainability at Murdoch University. She has over thirty years' experience in research, coordinating trans disciplinary teams and managing the interface between wetland and terrestrial ecosystems. On 1st February this year she launched NatureLink Perth. NatureLink Perth provides a hub for diverse stakeholders working together to integrate nature into our city, to sustain our world class biodiversity and provide a healthy, liveable city benefiting the economy, the environment and people.

Ben Croxley

Mine site rehabilitation Australia-wide concern needing horticultural solutions.

Brief

Post-mining restoration is complex and good results can be achieved but more can be done. There are opportunities to increase biodiversity or preserve endangered species by utilizing horticultural solutions. To this end, our nursery focuses on the propagation of rare or recalcitrant plant species by undertaking research and applying modern propagation techniques including plant tissue culture to aid this. These can then be utilised in post-mining situations.

Bio

Ben Croxford has over 18 years of experience as the owner and manager of Nuts About Natives nursery which specialises in the contract growing a large variety of native plants. Most of these plants are propagated from wild, collected, provenance correct material and supplied for specific restoration projects including former mine sites. Their nursery's focus has been on increasing biodiversity in restoration by concentrating on recalcitrant (and sometimes rare) species by applying a scientific approach to propagation and utilising modern nursery techniques including plant tissue culture.

David Hancock

Horticulture on the Wild Side

Brief

This presentation is about the design and construction of a new nursery in the Omani Desert located in Oman in the Middle East. It involved the growing of 800,000 plants for a constructed wetland to purify oil field wastewater. The challenges, risks and environmental benefits to deliver all from scratch in a 12 month time frame were significant.

In early 2018 I was approached by the Project Manager for the German environmental company, Bauer Resources, to provide consulting services for a new nursery development and propagation project for the Nimr oil field in Oman. Nimr is home to the largest constructed wetland in the world which is used to purify oil laden water. To facilitate a 250-hectare extension of the wetland, I was engaged to consult on the project in a wide brief to advise on seed collection and processing, propagation, nursery design & construction, operating procedures and risk management.

The demanding brief, short timetable, remoteness of the location and the growing conditions made for an intensive and demanding project. This 15 minute presentation will detail the steps taken to achieve success and the fun and satisfaction from being involved.

Bio

I founded the Natural Area business in 2003 after a long period of environmental volunteering. My current role at the business is to support the family Directors and guide the nursery operation by coaching the nursery manager & staff.

The company currently employs 70 full time plus seasonal casuals. Natural Area provides a complete suite of environmental services. The Natural Area nursery is Accredited under the NIASA scheme and has twice been awarded best nursery status by the NGIA. I have been directly involved full time in seed collection, propagation, nursery construction and management for 15 years. I am a long time member of IPPS, SERA, ANPC & RIAWA. I am a Board member of IPPS and SERA and have travelled extensively on IPPS & SERA delegations throughout Australia and to UK & Europe, South Africa, Singapore, Hawaii, New Caledonia and New Zealand. I established Perth Plant Propagation Pty. Ltd. 4 years ago to provide these services to Natural Area, work on some plant breeding projects (I have provisional PBR status on two native plant variants) and to consult to industry.

Graham McAlpine

Perth NRM - Project Manager, Sustainable Agriculture Program

How can Horticulturists help moderate human effects on our planet?

Brief

Adaptive horticulture is the key to humanity managing the effects of our increasing population on this planet. Not only do we have climates that are evolving from our increased presence, our agriculture practices in many cases, have depleted soils,

contaminated water systems that results paradoxically in declining nutrition in many of our staple plant and animal systems.

Our challenge is to 'think globally, act locally' and to strategically use our skill sets to contribute to positive change. Whether its food or our living environment its game on. We'll look at some frameworks that help us to see that we are not working in isolation plus some examples of programs working in this space.

Bio

Graham has worked in the agriculture food supply chain since 1980 assisting various sectors to manage risk, retain and improve market access, interpret and deal with changing market requirements and regulation. He worked for 20 years as a horticulture technical officer with the Western Australian Department of Agriculture with production, post-harvest, biosecurity and market access responsibilities. Since 2000, Graham has worked with industry professional and technical specialists developing training and education tools in the food supply chain and on farms in property, environmental, biosecurity and business management.

As a project manager in the Perth NRM Sustainable Agriculture team since 2014, Graham's role has been to assist food producers and land managers to improve their skills to manage their properties and businesses with funding from the National Landcare Program. Since 2015, he has been implicit in the development of Perth NRM's Food Future WA program with program manager Keith Pekin.

The program has been framed to facilitate a more transparent engagement state-wide, in sustainable food production and supply chain linkages linking consumers. This is in the face of projected population expansion, effects of changing climate and with a focus on food safety, human health, nutrition & consumption, food production capability, provenance and natural resource use / availability. He has been a Director on the board of Freshcare, Australia's largest on-farm assurance certification program, since 2016.

Dr. Jane Chambers

Linkages - A vital strategy to overcome biodiversity collapse

Bio

Dr Jane Chambers is the Director of NatureLink Perth and an academic in Environmental Science, Management and Sustainability at Murdoch University. She has over thirty years of experience in research, coordinating trans disciplinary teams and managing the interface between wetland and terrestrial ecosystems. On 1st February this year she launched NatureLink Perth. NatureLink Perth provides a hub for diverse stakeholders working together to integrate nature into our city, to sustain our world class biodiversity and provide a healthy, liveable city benefiting the economy, the environment and people.

Jason Wright

City greening and connections to wildlife- Singapore's example

Brief

After over 50 years of greening, Singapore is today not just a Garden City, but a biophilic City in a Garden where people live amid a sustainable and biologically diverse urban ecosystem. Through a process of restoring habitats and nurturing communities love for nature, Singapore will continue to ensure the resilience of our parks, gardens and nature reserves.

Bio

Jason Wright is the Director (Ag) of Design at the National Parks Board of Singapore and has over 15 years of experience in landscape architecture and multi-disciplinary design practice. He has been involved in many inter-agency master plans and designs for parks, gardens, infrastructure and town planning. His recent work has included developing a therapeutic garden network, master planning a 14th century hill park in the Civic District of Singapore and designing Singapore's garden at the World Horticulture Expo in Beijing, China. His design approach is to extract the essence of a landscape and overlay these qualities with visitor's aspirations and natural processes to transform regular spaces into desirable and liveable ones. He holds a Master of Landscape Architecture from The University of Gloucestershire, and is an Accredited Landscape Architect in both the UK and Singapore.

Julian Rose

Deep Green

Successful rooftop gardens and green walls in WA's climate

Brief

Deep Green Wall projects Perth:

PROJECT NAME	OWNER/MANAGER	ADDRESS
PINNACLE APARTMENTS	Pinnacle South Perth	Pinnacle Apartments - 30 Charles St, South Perth
VG CLOISTERS	BRE	Cloisters Arcade - 865 Hay St, Perth CBD
VG CURTIN UNIVERSITY	B105	Curtin Uni, Curtin University Building B105 - Hayman Road, Waterford
VG NORTHBRIDGE PIAZZA	City of Perth	Northbridge Piazza - Cnr James & Lake Streets, Northbridge
VG PERTH LIBRARY	City of Perth	City of Perth Library - Hay Street, Perth CBD
VG REVELEY	Quay Hospitality	Reveley Bar - 139 St Georges Terrace, Perth CBD
VG VERDANT	BGC Constuction	Verdant Apartments - 78 Stirling st, Perth
WHITFORDS SC	Scentre SC Management	Whitfords Shopping Centre - Marmion Ave, Whitfords

Bio

Julian Rose has been working in the landscape construction and building industry for over 20 years. Since starting Deep Green Landscaping in 2004, Julian has steered his company towards mainly inner city construction projects. The company specializes in both hard and soft construction along with extensive green roofs and large scale vertical gardens.

His experience on these large inner city projects has enabled Deep Green to refine the process of managing the logistics of building inner city projects and develop an appreciation of the nature of urban infill projects.

Deep Green Landscaping has been working with Perth's largest builders (Multiplex, Mirvac and Probuild) for many years now. Deep Green has been contracted by these building companies to construct the hard and soft landscaping to the exteriors of their large commercial projects. These projects have involved high levels of project management, supervision and coordination between the builders and multiple other trades.

Morgan Gilham

Josh Byrne & Associates

Tour leader

Brief

WGV is a 2.2ha medium density, 100-dwelling residential infill development located in the City of Fremantle. Led by the WA State Government's land development agency, LandCorp, WGV demonstrates design excellence on several levels; by incorporating diverse building typologies (detached houses and apartments), climate sensitive considerations, solar energy generation and storage, innovative water management and creative urban greening strategies. The project has received international certification as a One Planet Living community.

Steve Marafioti

CEO Sundrop Farms

The future of food growing – The Sundrops Farms Project

Brief

Steve Marafioti is the CEO of Sundrop Farms, Australia's largest single horticultural investment. The business is an innovative greenhouse producer of tomatoes based at Port Augusta, farming 50 acres under high tech glass greenhouses. It is supported by a solar energy system and desalinating sea water to reinvent commercial thinking about farming.

Bio

He joined Sundrop Farms in early 2016 after his former role of CEO of the SA Potato Company which is one of Australia's largest potato farming, processing and marketing companies. He is the former Chair of the Premiers Food Council, director of Potatoes SA, and has a long history in senior management within the Australian and International Food and Agricultural sectors. Steve has worked in more

in more than 35 countries and is a third-generation horticulture and business leader. In his various positions, he has overseen projects from business development to the turnaround of many operations in complex and highly innovative settings.

Ms Susan Worley

Where is water coming from for green space in the future?

Brief

Being located on one of Australia's best groundwater resources has enabled Perth to be a green city. Now, with reduced rainfall due to climate change and our ongoing dependence on groundwater, Perth's aquifer system is out of balance. Moving to a more sustainable use of our water resources drives the need to use water wisely and, where necessary, to augment groundwater supplies. Many in the green space sector are already using groundwater more effectively through improved technology and design while others are exploring options to supplement their use of groundwater.

Bio

Director Science and Planning, Department of Water and Regulation's

Department of Water and Environmental Regulation, Western Australia

Susan has been involved in water resources management in Western Australia over the past 24 years with educational, regional and planning roles. Her key role has been in the development of Western Australia's water allocation planning framework to support sustainable water resource management and inform regulation of water licence allocations. She is currently responsible for water planning which reflects the Department's move towards a more integrated planning approach for water allocation, water source protection, non-potable supply and urban water.