Arboriculture Australia
Annual Conference

TRADE EXHIBITION & AUSTRALIAN TREE CLIMBING CHAMPIONSHIP

ALICE SPRINGS CONVENTION CENTRE
18 - 21 MAY 2019

2019 will see us venture into the outback of Alice Springs with its stunning sunsets, unique flora and fauna and glorious mountain ranges.

REGISTER NOW

18 MAY
AUSTRALIAN TREE CLIMBING CHAMPIONSHIP

19 - 21 MAY
TRADE EXHIBITION

20 & 21 MAY
ANNUAL CONFERENCE
Urban Presenters

LYNDAL PLANT
The life and death of the Australian leafy street
Biography
Dr Lyndal Plant is an urban forester who has worked in local government, policy and strategic planning for urban trees, including many years with Brisbane City Council. Currently, she’s a Churchill Fellow, member of TRENET management committee and now a published researcher and consultant, Lyndal has helped advance urban forest policy development, techniques and make stronger business cases for investment in green infrastructure. Lyndal now focusses on policy development/review and cutting-edge urban forest initiatives. She sees the forest just the trees – help plan and monitor outcomes, not just outputs and is committed to greener, cooler cities.

NIGEL TAPPER
Building Cooler, Healthier Urban Forests as Critical Adaptation to Climate Change
Biography
Dr Nigel Tapper holds a Personal Chair in Environmental Science (as a climate science specialist) within the School of Earth, Atmospheric and Environment at Monash University where he currently leads the Applied Climate Research Group. Nigel Co-Led Program B (Water Sensitive Urban) until 2017 and is a key researcher in the Cooperative Research Centre for Water Sensitive Cities, Outside the University Nigel has contributed strongly to the work of the Intergovernmental Panel on Climate Change where he is a Lead Author of Working Group I, Impacts, Mitigation and Adaptation. He serves in the World Meteorological Organisation as a member of the Terrestrial Observation Platform on Climate and associated task forces. He is President of the International Association of Urban Climate. Nigel has published seven books, 15 book chapters and more than 200 refereed research publications, and has supervised >50 PhD students, in academic and research career spanning 35 years. Nigel’s work has been cited 5,500 times and he has an h-index of 40. He co-authored the classic text on Australian climate – The Weather and Climate of Australia and New Zealand. Key research in recent years has been in the area of weather and climate impacts, infrastructure and urban environments and human-climate interactions. A strong climate adaptation theme is emerging in his research, especially in relation to urban environments and services. His research has a particularly strong track record in delivering industry-relevant research.

MAY CARTER
A root and branch approach to forest leadership: the importance of arborists as decision makers
Biography
Janet McDonald has been working with the Department of Agriculture, Forest Health Surveillance (FPS) team since 1998 conducting pest and disease surveys and collecting samples in the field. She has been conducting pest and disease surveys and establishing FHS systems in the Ord River Irrigation Scheme since 1998. Janet holds a Bachelor of Science with majors in botany and environmental studies. Janet has also had experience conducting pest and disease surveys and collecting samples in the field.

Thomas Cooper is a Regional Forester and joined Queensland Forestry Districts in 1988 with experience in forest and plantations. Thomas is a registered Forest Practitioner and is also a member of the Australian Forest Practitioners Association. Outside of work, Thomas enjoys fishing and playing golf.

Review of Arboriculture qualifications and units of competency
Critical information session and discussion forum to be held at this year’s conference.
• Project scope and drivers
• Project phases, development and implementation processes
• Changes to qualifications and units of competency

Validation
Industry validation forum:
• Introduction to validation - validator’s role
• Validation of qualifications
• Validations of units of competency and skill sets
• Validation wrap up and next steps

AS4970-2009 Protection of trees on development sites review
AS4970 is a critical tool for our business industry. Standards Australia have advised it must be reconfirmed, withdrawn, made optional or reviewed.

To take advantage of the largest gathering of arborists in Australia a facilitated discussion forum will be held to gather feedback to ensure the Standards remain valid.

Your participation is important to ensure that the Standard is improved and retains its status as a key tool for our industry.


GREG MOORE
Minimising the hazards and risks that may arise from the development of lignotuberous and epiphytic orchids
Biography
Greg Moore, Senior Research Associate, University of Melbourne, Burnley, was Principal of Bunya (nyungai) Botanic Park and Chair of the School of the Resilience Management (2002-07). Interested in plant science and ecology, Greg specialises in arboriculture. He was inaugural president of SAAC, and has been a member of its board of directors for 4 years. Greg is a Register of Significant Trees since 1988 and chair since 1996. On the Board of Governing Australia (2008-2012), Trust for Nature (2009-2017) and Sustainable Gardening Australia, he has chaired TRENET since 2005. He has written two books, five book chapters and 80 scientific papers and articles. He was awarded an OAM for services to the environment, particularly arboriculture.

IAN LEAHY
Title: 1 Vibrant Cities Lab
Title: 2: Trees Equity: Career Pathway
Biography
Ian Leahy has overseen American Forests’ urban forestry program since 2014. Based in Washington, he has overseen development of a Community Resilient program that helps cities across the United States build capacity for managing and greening their urban forests through a comprehensive change model. Ian’s career includes developing innovative funding, innovative financing, and restoration projects. Community ResilNet has won numerous awards, most notably the Climate Leadership Award for Innovative Partnerships, Ian has also led initiatives to advance the urban forestry movement in general, including the Vibrant Cities Lab (vibrantcityslab.com), Tree Equity Pathways, and new tools to advance climate mitigation and public health.

Prior to American Forests, Ian served as the State Urban Forester and policy Coordinator for the District of Columbia and managed his own landscape design and installation business. He studied natural resources management at Cornell University.

MARK HARTLEY
Managing greywater within the enclosure envelopes
Biography
Dave Cashman is an Associate Director and Principal Consultant at Heritage Building Aid, one of the UK’s most successful Arboreticultural Practices, working primarily in the planning and legal sector involving major projects across the UK. He is also a member of a team of 14 people, specialising in assessing trees on development sites and project managing their protection through to occupation.

Dave worked for 40 years, starting his career with the London Borough of Sutton, first as a climbing arborist and then as a tree officer. In 2003, after 15 years in local government, he joined BFI, bringing his wealth of public sector planning expertise into the private practice sector. He has delivered a number of tree surveys and tree management plans for a large number of projects in the private and public sector and has successfully completed a significant number of. He has also given evidence as an expert witness in the United Kingdom and the United States. His reputation and expertise in tree management and tree services gives him a unique ability to integrate the expertise and knowledge into a range of professional services in the UK and overseas.

DAVID CASHMAN
Title: 1 Trees and development - bridging the gap between design and construction
Title: 2: Managing trees in urban environments
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Utility Presenters

STACIE GRASSANO & JEFF FILIP
A practical approach to vegetation group asset management
Biography
Stacie Grassano – GM Technology and Operations, Intelfuse
Stacie is Co-Founder and General Manager Technology and Operations at Intelfuse and has fifteen years’ experience in the geospatial, energy, and transportation industries. Stacie has a Bachelor of Science in Electrical Engineering from the University of Denver, and is a certified Project Management Professional with the PMI.
Stacie has served as Project Director for major I&RD and development and delivery projects in North America and Asia Pacific, including major Remote Sensing Electricity Transmission and Distribution Projects. Stacie’s core focus is the development and implementation of innovative LiDAR processing technology that greatly advances analytics for vegetation and asset management projects.

JEFF FILLI – GM Strategy Development, Intelfuse
Jeff joined the Australian Power Sector during the mid-80s when utilities were dealing with bushfires caused by vegetation in conflict with live lines. Jeff played a key role in implementing bushfire policy at a regional level and has held senior management, strategy and technology development roles in both the public and private sector. He heads up Risk Solution Strategy at Intelfuse and is involved in development of new service offerings and around LiDAR automation and technology. Jeff holds an Associate Diploma in Electrical Engineering, Master’s Degree in Business Management and an MBA in Entrepreneurship.

STEPHEN MARTIN
Right of Way Management - Insights from the International Symposium, Denver
Biography
Stephen is actively involved in knowledge sharing, which is demonstrated through his involvement with various industry bodies, such as the Energy Network Association Vegetation Management Working Group. Stephen Martin is currently Land Strategist for Powerlink Queensland, which includes setting policy, performance, liaison with stakeholders and identifying efficiencies during a period of significant industry change.
In 2018, Stephen realised a career goal and presented two papers at the International Right of Way Symposium in Denver, Colorado. Stephen will discuss the learnings and experience from the Symposium at the Arboriculture Australia Annual Conference.

JAMES URBANOWSKY
Presentation #1: Title: Reliability Based Vegetation Management Strategies in the US and Canada.
Presentation #2: Title: Future Directions on Vegetation Management Practices and Strategies in the US and Canada.

DANIEL HEYDBURN
Keeping our people safe - understanding the past, present and future
Biography
Daniel Heyburn is a Senior Environmental Manager for Endeavour Energy. Daniel has a Bachelor of Science in Environmental Science and currently manages the Vegetation Management, Wildlife, and Environmental Health portfolios. Daniel has been involved in the implementation of LiDAR technology, vegetation data management, and LiDAR quality assurance procedures. Daniel has also been involved in electronic safety management systems and the development of safety programmes.

Census
A practical approach to vegetation group asset management
Biography
James is currently Senior Engineer T&D Vegetation Asset Management for Endeavour Energy. He has been responsible for the development and implementation of T&D vegetation annual plans, integrating LiDAR into vegetation management and vegetation management best practices.
As well, James is an industry expert working day to day in the field, through the study (CAS) and Natural Areas Analysis (NAA) and benchmarking utility vegetation programs, leveraging GIS for vegetation mapping, applying linear analysis and setting policies and defining strategies for improved reliability based vegetation management.
James is a Professional Engineer, Professional Arborist, a Certified Arboriculturist, and a Certified Utility Arborist. He holds a Bachelor of Science in Environmental Science from the University of Denver.

RANDEL MILLER
Abstract 1: Reliability-based Vegetation Management

Abstract 2: An Overview of Utility Arboriculture: The Utility Specialist Certification Guide
Biography
Randel Miller joined Oi&c as the Director of Research, Development and Industry Intelligence in May 2017 and currently manages and cultivates a cadre of LiDAR practitioners. Oi&c, as a professional development organization dedicated to LiDAR, has been working to build LiDAR capacity for utility and specialty LiDAR users. Randell works closely with members to articulate opportunities and barriers to LiDAR LiDAR adoption and facilitates industry-driven collaborative efforts among industry leaders, utility professionals, academic institutions and in the geospatial industry.

Randel performs formal benchmarking and attribute comparisons across regions, company types, and programs dedicated to LiDAR. Prior to joining Oi&c, he worked at Pacificorp for more than 23 years, including nearly six years as an area forester, 18 years as system forester, and retiring from the company as the director of vegetation management. As Pacificorp’s VM Director, Randell developed comprehensive specifications based on industry practices, and managed thousands of overhead transmission and distribution lines for the utility. He served on AFGC’s Board of Directors from 2009-2015.

Randel holds a bachelor of science degree in horticulture from the University of Wisconsin-Madison and a master’s degree in urban forestry from the University of Wisconsin-Madison. He is an ISA Board Certified Master Arborist and an ISA Certified Utility Specialist (IL-002516). He has been Chair of the Tree Benefit Fund Board of Trustees, President of the Utility Arborist Association, Chair of the Houston Arborist Society, and currently serves on the Board of Directors of the Arboriculture and Urban Forestry Center (now Oregon Community Tree), and editor of the ISA Rocky Mountain Chapter newsletter. He has served on the ISA Certification Test Committee and on the Editorial Board of the Journal of Arboriculture and Urban Forestry.

Randel is a recipient of the American Forestry Association’s Student Arborist’s Scholarship and has the ISA Integrated Vegetation Management Best Management Practices and, with Geoff Kempter, the ISA Utility Specialist Certification Study Guide under his credits. He speaks widely at international and domestic conferences.

Randel H. Miller holds an MS in Urban Forestry from the University of Wisconsin-Madison. He is a Certified Arboriculturist and Utility Specialist. Randel has been involved in the field of vegetation management after 23 years at Pacificorp in May 2017. He writes and speaks widely on arboricultural topics and consults with Geoff Kempter on the revised utility specialist study guide.

STACEY GRASSANO
Biography
Stacie Grassano is actively involved in knowledge sharing, which is demonstrated through her involvement with various industry bodies, such as the Energy Network Association Vegetation Management Working Group. Stacie is a former certified gas pipeline inspector and ROM Agent, currently serves on the ISA Rocky Mountain Chapter Board, Utilities Special背 and Past President of SA Atlantic.

SHEPHEDE BRUNKER, SOPHIE DAVISON & SCOTT McKENZIE
Understanding the past, present and future of vegetation risk on a hosepipe limited electricity network with geospatial analysis techniques
Biography
Shane Brunner - Technical Director, NM Group
Shane is currently responsible for the development of new products and services with our R&D branch and leads on the implementation of new software and systems. Shane has been with NM Group for 7 years and previously managed our field operations and processing team. His background is the geospatial and remote sensing industries, having earlier worked for the spatial and land information side of government.

Sophie Davison - Product Manager, NM Group
Sophie is currently a product manager at NM Group, focusing on innovating their geospatial vegetation management solutions, and previously spent the best part of the last 5 years both in researching and researching forest environments. Sophie shares academic and industry experience in using LiDAR and other Remote Sensing technologies to model and visualise these complex natural systems, having spent time working at both academic institutions and in the geospatial industry.

Scott McKenzie (Vegetation Management, Endavour Energy)
Three decades of studying Australian vegetation, Scott McKenzie has developed, managed and taught a range of conservation/risk-based programs in Australia. Specialising in NSW environmental legislation and risk-based modelling, Scott has co-authored a range of papers and presentations, including Environmental Division’s vegetation control manual, hazard tree identification course and has been a technical reviewer for the industry safety standards (NSW) including bushfire risk mitigation. In 2018 Scott collaborated with a team to develop a risk-based model assessing growth rates and hazards to optimise vegetation maintenance performance cycles using LiDAR technology.

OXANA DANKOVA
Global vegetation management practices – Pathway to 4.0
Biography
Oxana Dankova is a Partner and Managing Director in BCG’s Energy Practice, based in Sydney. Oxana is a core member of BCG’s global Network Transformation Services team and since 2006 she has worked with multiple BCG Energy clients in Russia, Europe, North America and Middle East prior to transferring to Australia in 2015. In Australia, she has been supporting several NEM CRMs in end-to-end network operations improvement, process redesign and digitization, advanced asset management capability build, and vegetation management. Oxana holds an MA in Economics and a BSc from the Central Economics and Mathematics Institute of the Russian Academy of Science.

ALEXANDRA LEWIS
Working with our stakeholders to deliver improvements and reduce our vegetation clearance requirements
Biography
Alexandra Lewis joined SA Power Networks in September 2013 within the Strategic Asset Management team which is responsible for the long term and high-level management decisions relating to the electrical assets.
Since joining SA Power Networks she has been instrumental in the preparation of a long-term plan for vegetation management near powerlines, in close consultation with Local Government and key stakeholders, which aims to reduce the need for tree trimming over time and improve how we manage vegetation near powerlines.
Alex has a Masters in Environmental Planning and has worked for the past 20 years in a range of stakeholder engagement and environmental planning and development positions across state and local government, and the private sector. Alex has extensive experience in stakeholder and community engagement.

OHEA FREIWIND
Six impacts of distributed energy on utility vegetation management
Biography
Heath Freiwind is Manager Strategy – Vegetation at Essential Energy, having recently joined the organisation in February 2019. He has been acquired by Essential Energy to provide strategic direction and leadership in the development, implementation and monitoring of strategies and risks relating to the vegetation demonstration/corridor asset class.
Heath is a passionate advocate for true risk-based and asset-management structured approaches to utility vegetation management. Previous employment has included time as Head of Distribution with the leading national electricity and gas utility lobby, Energy Networks Australia (ENA), where he was an integral part of influencing the existing and future regulatory environment for utilities.

Register Now
*Presenters and presentation titles are subject to change.

UAA Panel Sessions

- Panel Session: Who’s engaging the customer, and where’s the value? (Chair: Heath Freiwind, Vegetation Strategy Manager, Essential Energy)
- Panel Session: Working near power lines safely, 100% of the time (Chair: Pete Halliwell, Commercial Manager, Essential Energy)
- Panel Session: The value and challenges of implementing long term Vegetation Management strategies (Chair: Matt Palmer, Vegetation Specialist, Energy Queensland)
- Panel Session: Big data - what vegetation data do we really need? (Chair: Kevin Hamblin, General Manager, Utility Contracts, TreeServe)
### Programme

#### Monday 20 May  **URBAN FORESTRY**

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<td>Chair’s Welcome</td>
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<tr>
<td>8.30am</td>
<td>The Blooming Desert: The flora of arid Central Australia - Its diversity and potential uses</td>
<td>Peter Jobson (NT)</td>
<td>Ellery Room A, B, C, D</td>
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<td>An overview of Utility Arboriculture: The Utility Specialist Certification Study Guide</td>
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<td>May Carter (WA)</td>
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### Monday 20 May  **UTILITY ARBORICULTURE**

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<td>Plenary Session</td>
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<td>Understanding the past, present and future of vegetation risks on a bushfire prone electricity network with geospatial analysis</td>
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Programme subject to change. Please check daily boards at venue.
**Tuesday 21 May URBAN FORESTRY**

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<tr>
<td>8.30am</td>
<td>The Urban Visual Vitality index (UVVI) - a visual assessment method of crown condition in urban trees</td>
<td>Denise Johnstone (Vic)</td>
<td>Ellery Room B &amp; C</td>
</tr>
<tr>
<td>9.15am</td>
<td>Minimising the hazard and risks that may arise from the development of lignotuberous and epicormic shoots: lessons from a study of Eucalyptus obliqua l’Herit.</td>
<td>Greg Moore (Vic)</td>
<td>MacDonnell Room B &amp; C</td>
</tr>
<tr>
<td>10.00am</td>
<td>The North Sydney Council Experience - Tracking canopy change over 20 years, the ups, the downs and taking a new approach</td>
<td>Melissa McManus (NSW)</td>
<td>Ellery Room B &amp; C</td>
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<td>11.15am</td>
<td>The life and death of the Australian leafy street</td>
<td>Lyndal Plant (Qld)</td>
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<td>Tree Equity Career Pathways</td>
<td>Ian Leahy (USA)</td>
<td>Ellery Room B &amp; C</td>
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<td>1.45pm</td>
<td>Building a Tree Planting Framework for urban resilience</td>
<td>Ian McAlister (NSW)</td>
<td>MacDonnell Room B &amp; C</td>
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<td>Afternoon Tea - Trade Area</td>
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<td>MacDonnell Room B &amp; C</td>
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<tr>
<td>3.00pm</td>
<td>Managing large roots within the excavation envelope</td>
<td>David Cashman (UK)</td>
<td>Ellery Room B &amp; C</td>
</tr>
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<td>3.45pm</td>
<td>Arboriculture Qualification update - Subject Matter Experts</td>
<td>Tom Vassallo</td>
<td>MacDonnell Room B &amp; C</td>
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<tr>
<td>3.30pm</td>
<td>Conference Close</td>
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**Tuesday 21 May UTILITY ARBORICULTURE**

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<td>Daniel Heyburn (Qld)</td>
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<td>Future Directions on Vegetation Management Practices and Strategies in the US and Canada</td>
<td>James Urbanowski (USA)</td>
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<tr>
<td>9.00am</td>
<td>Panel Session 3</td>
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<td>MacDonnell Room B &amp; C</td>
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<tr>
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<td>Stacie Grassano (Aus)</td>
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<td>Impacts of wildfire on North American Utilities</td>
<td>Randy Miller (USA)</td>
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<td>Panel Session 4</td>
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<tr>
<td>4.30pm</td>
<td>Conference Close</td>
<td></td>
<td>MacDonnell Room B &amp; C</td>
</tr>
</tbody>
</table>

Programme subject to change. Please check daily boards at venue.
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