CEATI INTERNATIONAL

6th Annual

# Vegetation Management Conference

December 3-4, 2019 • San Antonio, TX

## Overview

This conference will expand on three primary focus areas, that being program management, technology and environmental issues. Presentations in the program management sessions will demonstrate the importance of effective communication with stakeholders for the implementation and acceptance of vegetation management plans as well as aligning corporate goals with long-term objectives in safety, reliability and reduced costs. These strategic goals extend to selecting and retaining skilled workers in addition to ensuring contractor suitability to achieve customer satisfaction.

In support of strategic goals, attendees will gain insight on current technologies for data gathering, strategies for leveraging data, and methods for transferring data between owners and third parties for work management. Some of the many topics that will be covered are successful inventory collection programs, computer models for growth, prescription, and management optimization as well as paperless workflows.

A third focus of this conference are environmental issues seeing that climate change is forcing utilities prepare for extreme weather fluctuations and its impact on forest health. As a result, this session will support utilities to better understand how to develop or depend on weather prediction systems and experts to assist in storm-related damage predictions, put restoration plans in place and depict the regulatory role in program adaptation. Another pillar within this session is herbicide use, which ties in to aspects covered throughout the conference by demonstrating new technologies and techniques for herbicide application, methods for predicting growth cycles and environmental stewardship.

## Themes

1. Program Management – Strategic vs Operational Planning
2. Program Management – Contractor Procurement Strategies
3. Technology – Data Collection and Prioritization
4. Technology – Mobile Data Use / Paperless Programs
5. Environmental Issues – Adaptation Strategies / Risk Mitigation
6. Environmental Issues – Effective Herbicide Use

## Who Should Attend?

- Electric Utilities
- Consultants
- Equipment Vendors
- Research Facility and Laboratory Personnel
- Academics

**This event was created with the help of our utility members:**

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# Vegetation Management Day 1

***December 3, 2019***

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|---|---|---|
| 8:15-8:30 | **Welcome & Introduction** | *Rob Young, CEATI International* |
| **Session 1: Program Management – Strategic vs Operational Planning** | | |
| 8:30-9:00 | **A Strategic Approach to Risk-Driven Vegetation Management** | *Jeff Filip, Intelfuse (Australia)* |
| 9:00-9:30 | **Automatic Generation of Prescriptions Using AI To Empower UVM Programs** | *San Gunawardana, Enview* |
| 9:30-10:00 | **Leveraging Prescriptive Modelling & Optimization for a Program Management Approach to Utility Vegetation Management** | *Mike Oliver, Remsoft* |
| | **10:00-10:30 Break** | |
| 10:30-11:00 | **VM Program Optimization through Virtual World Asset Management** | *Anthony Palizzi, Fugro* |
| **Session 2: Program Management – Contractor Procurement Strategies** | | |
| 11:00-11:30 | **Using Lidar to Negotiate Distribution Vegetation Management Contracts** | *Craig Jackson, DTE Energy*<br>*Michael Fuller, Quantum Spatial* |
| **Session 3: Technology – Data Collection and Prioritization** | | |
| 11:30-12:00 | **Use of LiDAR for GIS Applications** | *Vladimir Kadatskiy, Leading Edge Geomatics* |
| | **12:00-1:30 Lunch** | |
| 1:30-2:00 | **Reinventing Vegetation Management with Hyper-Spectral Analytics at Utility Scale** | *Rob Berglund, The Weather Company*<br>*Bryan Sacks, IBM* |
| 2:00-2:30 | **Applications of Artificial Intelligence (AI) and Machine Learning (ML) within Vegetation Management Programs** | *Kimberly Laing, Manitoba Hydro International* |
| 2:30-3:00 | **Vegetation Management 2.0: Large Scale Operational Experience of Drones, Analytics, and 3D** | *Antoine Martin, Accenture Digital* |
| | **3:00-3:30 Break** | |
| 3:30-4:00 | **Condition-Based Maintenance using Remote Sensing** | *Jack Gardner, Duke Energy*<br>*Jacob Hall, Quantum Spatial* |
| 4:00-4:30 | **CEATI TLAM Project: Guidelines for Managing Transmission Line Clearances** | *Chuck Anderson, ECI Consulting* |
| 4:30-5:00 | **Accuracy of LiDAR-Derived Encroachment Data** | *Chinmoy Saha, Green Grid*<br>*Kevin Buteau, PG&E* |

**6:00-7:30 Reception**

*Agenda is subject to change without notice.*

# Vegetation Management Day 2

## *December 4, 2019*

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| 8:25-8:30 | **Day 2 Introduction** | *Rob Young, CEATI International* |
| | **Session 4: Technology – Mobile Data Use / Paperless Programs** | |
| 8:30-9:00 | **Xivic - A Deliverable for Paperless Workflow Plus Much More** | *David Glenn, Delta Utilities (New Zealand)* |
| 9:00-9:30 | **Digital Vegetation Management Solutions: Should you take the leap?** | *Kris Myers, American Electric Power*<br>*Meera Kulkarni, GeoSpatial Innovations* |
| 9:30-10:00 | **LiveEO: Delivering Answers from Above** | *Sven Przywarra, LiveEO (Germany)* |
| | **10:00-10:30 Break** | |
| 10:30-11:00 | **Using Satcoms for Real Time Reporting and Cost Analysis** | *Martin Stanley, Point4* |
| 11:00-11:30 | **The Case for Integration in Vegetation Management** | *Justin Stratton & Vince Mikulanis, Davey Resource Group*<br>*Joe Purohit, Ecolayers*<br>*Peter Gollinger, City of Palo Alto* |
| | **Session 5: Environmental Issues – Adaptation Strategies / Risk Mitigation** | |
| 11:30-12:00 | **Modeling Tree Susceptibility to Windthrow for Vegetation Management Decision Support** | *Yohannes Yimam & Brian Schmid, Formation Environmental* |
| | **12:00-1:30 Lunch** | |
| 1:30-2:00 | **Adapting to Challenges for Transmission Land Assets in Australia** | *To be Announced* |
| 2:00-2:30 | **Leveraging Remote Sensing Data to Quantify Vegetation Risk Characteristics** | *Bob Bell, PG&E*<br>*Jennifer Whitacre, Quantum Spatial* |
| 2:30-3:00 | **Understanding the Past, Present and Future of Vegetation Risks on a Wildfire-Prone Electricity Network using Geospatial Analysis** | *Scott McKenzie, Endeavour Energy (Australia)*<br>*Sophie Davison, NM Group* |
| | **3:00-3:30 Break** | |
| 3:30-4:00 | **We BELIVE in a Biodiversity and Security Match Under Power Lines** | *Lisa Garnier, RTE France* |
| | **Session 6: Environmental Issues – Effective Herbicide Use** | |
| 4:00-4:30 | **To be Announced** | *To be Announced* |
| 4:30-5:00 | **To be Announced** | *To be Announced* |
| 5:00-5:05 | **Concluding Remarks** | *Rob Young, CEATI International* |

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