

ForestTECH 2011

tools & technologies to improve forest planning & operations



6 - 7 December 2011
Rotorua, New Zealand



www.foresttechevents.com

DAY ONE – TUESDAY 6 DECEMBER 2011

7.30am Conference Registration

8.30am Welcome & Introduction, FIEA

SESSION 1: THE CHANGING LANDSCAPE FOR FOREST MANAGEMENT & RESEARCH IN NEW ZEALAND

8.45am **Changes to NZ Science Funding.** Increasing the alignment between research and commercial applications.
Dr Liz Jazwinska, Deputy Chief Executive, Science Strategy & Investment, Ministry of Science & Innovation

9.15am **Research Commercialisation and Improving the Uptake of R&D.** Removing the barriers to early technology adoption. Case study of an allied industry and lessons for the forestry industry.
Bruce Thorrold, Strategy and Investment Leader for Productivity, Dairy NZ Ltd

10.00am Morning Tea & Networking

SESSION 2: DEVELOPMENTS IN FIELD DATA CAPTURE TOOLS

10.30am **Mobile Computing Advancements in the Forest.** Improving data collection under canopy and advancements in mobile GIS applications.
Matt Linderman, Business Area Manager, Trimble Forestry Automation, USA & Simon Best, National Mapping-GIS Product Manager, Ultimate Positioning, Australia

11.00am **TECHNOLOGY SHOWCASE Managed Exhibitions Part 1**

12.00pm Lunch & Networking

SESSION 3: PHOTOGRAMMETRY & REMOTE SENSING TECHNOLOGIES

1.00pm **The use of LiDAR for Forest Engineering.** Results from a large scale trial using LiDAR for the development of harvest plans; from route planning through to detailed design of harvest access roads and landings in steep terrain.
Dean Neilson, National Engineering Manager, PF Olsen Ltd

1.30pm **Integrating LiDAR into Forestry Tasmania's Inventory & Planning Systems.** Three years on - case studies of how LiDAR is now being used in operational planning within the business.
David Mannes, Resources Manager, Forestry Tasmania, Australia

2.00pm **What next for LiDAR – Beyond Empirical Modelling.** Not only does LiDAR hold benefits for forest managers now in Digital Elevation Models and volume estimations, technological improvement is allowing increasing levels of inventory information.
Thomas Adams, Scientist, Scion

2.30pm **Photogrammetry versus LiDAR: Clearing the Air.** Results from the first trial using Multi-ray photogrammetry on a forest estate.
Steve Laming, Managing Director/Steve Smith, Business Development Manager, Aerial Surveys Ltd

3.00pm Afternoon Tea & Networking

3.30pm **Radar in Conjunction with Optical Imagery.** The first large project in Australia assessing annual changes in the national forest cover.
Stephen McNeill, Scientist, Landcare Research

4.00pm **Operational Forestry Applications Using RapidEye Satellite Data.** Assisting forest planning using RapidEye high resolution imagery.
Gail Kelly, Satellite & Aerial Products Leader, AAM, Australia & Pete Watt, Head of Resource Mapping, Indufor Asia Pacific Ltd

4.30pm Refreshments & Networking

6.00pm **Conference Dinner**
Conference drinks sponsored by Eagle Technology

DAY TWO: WEDNESDAY 7 DECEMBER 2011

SESSION 4: FOREST SAMPLING & INVENTORY

8.30am **How Effective are LiDAR-based Inventory Systems?** Results from recent Australasian trials. Stratifying the forest through LiDAR data to increase the accuracy of volume estimates
Hamish Marshall, Senior Consultant, Interpine

9.00am **Airborne LiDAR Resource Inventory in NSW Softwood Plantations.** Examples of LiDAR-based wood resource inventories in Forests NSW and a preview of new LiDAR on-screen interpretation software for forest managers.
Russell Turner, Research Forester – Remote Sensing, Forest Biosecurity & Resource Assessment Science & Research, NSW Department of Primary Industries, Australia

9.30am **Using Unmanned Aerial Vehicles for Multi-Scale and Ultra-high Resolution Mapping of Natural Environments.** Options for forestry applications.
Rowland Harrison, Director, Hawke Eye UAV Ltd

10.00am Morning Tea & Networking

10.30am **The National Forest Inventory Standards for Carbon Measurement.** Standardised inventory systems to collect and analyse data.
David Herries, General Manager, Interpine

11.00am **TECHNOLOGY SHOWCASE Managed Exhibitions Part 2**

12.00pm Lunch & Networking

SESSION 5: FOREST MANAGEMENT SYSTEMS & ESTATE PLANNING

12.45pm **Integrating Strategic Forest Estate Modelling with Tactical Planning.** Recent case studies from Forestry Tasmania and American Forest Management Inc.
Mike McLarin, Senior Forest Resource Planner, Forestry Tasmania, Australia, Andy Ferguson, Senior VP/Director, American Forest Management Inc., USA & Greg Singleton, Global Director, Natural Resources & Environment, Remsoft, Canada

1.30pm **Forest Information Management and Decision Support Tools To Improve Forest Planning and Operations.**
Megan Costello, Harvest Engineer, Ernslaw One & Christian Pilaar, Software Engineer, ATLAS Technology

SESSION 6: TOOLS FOR HARVEST OPTIMISATION

2.00pm **Enhancing Forest Machine Efficiency using on-board Computers.** Results from recent trials in Victorian native forest, Radiata pine in SA and Blue gum plantations in WA.
Martin Strandgard, Research Fellow, CRC Forestry, University of Melbourne, Australia

2.30pm Afternoon Tea & Networking

2.50pm Safety Showcase. Improved safety and staff management using innovative GPS tracking.
Gary Batey, Sales Manager, Sea Air & Land Communications Ltd

3.10pm Integrating Sonics into Tree Processing Heads. Results from recent harvesting trials in Northland, Nelson and WA.
Peter Carter, CE, Fibre-gen

3.35pm Aligning Research within the Forestry Sector. An outline of WoodCo's new Science & Innovation Plan - recommendations and implications for forestry operations in New Zealand.
Peter Clark, CEO, PF Olsen Ltd

4.00pm Conference Concludes

What is ForestTECH 2011?

ForestTECH 2009 and ForestTECH 2010 were the first technology programmes of their type run for forest managers, forestry consultants and technical foresters in Australasia. Over the two years, the full breadth of tools, from genetics and tree breeding through to harvest planning were covered as part of the ForestTECH series.

ForestTECH 2011 will look at some of the high technology sensing and analytical tools that have recently been adopted by forestry companies and are making significant differences to their financial and operating performance.

It's apparent in many instances that people, capital and process adoption are often more limiting than the technology development itself. For this reason, the ForestTECH 2011 series will concentrate on what the technology is, how it's been adopted and implemented and what impact it's had on the company's operation.

For ForestTECH 2011, technical foresters in Australia and New Zealand will be able to learn from each other and from leading technology providers who are supplying innovative technical solutions in the field.

Presented by: Forest Industry Engineering Association, a division of Innovatek Ltd

What will the programme cover?

ForestTECH 2011 includes an integrated series of practical workshops, managed exhibitions, displays and demonstrations. Key themes being covered in this two-day programme will include tools & technologies in:

- Field Data Collection
- Forest Management Systems & Estate Planning
- Remote Sensing
- Forest Sampling & Inventory
- Harvest Optimisation

Who will be attending?

- Forestry managers
- Forest owners
- Technical foresters
- Forestry consultants
- Plantation forestry researchers

Conference Details

Venue: Distinction Rotorua Hotel & Conference Centre, 390 Fenton Street, Rotorua

Accommodation: Special ForestTECH 2011 room rates from \$150 (incl GST) for a limited number of rooms are available to delegates at the Distinction Rotorua Hotel. Please state you are attending the ForestTECH 2011 conference when booking.

For room reservations call Freephone: 0800 654 789,
Ph: +64 7 349 5200 or
E-mail: reservations@distinctionrotorua.co.nz

Please note that FIEA reserves the right to change the programme, if needed, without prior knowledge to event delegates.

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ForestTECH 2011 Programme

6 –7 December 2011, Distinction Rotorua Hotel & Conference Centre, Rotorua New Zealand

Conference Registration Form

SPECIAL Early Bird Discount: Register BEFORE Friday 28 October 2011

Discounts available for FIEA and NZIF Members

Delegate Details:

Name	Position	E-mail
Company:		
Postal Address:		
Tel:		Fax:

Programme Rates:

Activities	Delegate Rate	# of Delegates	Total
Conference Early Bird Event Rate (before 28 October):	NZ\$880		\$
Standard Conference Rate (after 28 October):	NZ\$980		\$
Group Conference Rate (3 or more from same workplace)	NZ\$780		\$
NZIF Discount*(10%)			\$
FIEA Discounts** (10-25%)			-\$
Sign up here to become an FIEA Member			
FIEA Large Company <input type="checkbox"/> NZ\$1500	FIEA Medium Company <input type="checkbox"/> NZ\$1250	FIEA Small Company <input type="checkbox"/> NZ\$750	FIEA Individual <input type="checkbox"/> NZ\$300

SUBTOTAL	\$
+ GST (15%)	\$
GRAND TOTAL	\$

* Members of the New Zealand Institute of Forestry (NZIF) receive a 10% discount off the advertised rates.

** Forest Industry Engineering Association (FIEA) member discounts of 10-25% apply on ALL conference rates. FIEA Membership Details and Benefits can be seen on www.fiea.org.nz. Membership status and discounts available can be checked by calling our FIEA offices. If signing up for FIEA Membership as part of this registration, the discounted rates will apply.

- All prices exclude GST (15%).
- To be eligible for the Early Bird Rate, registrations and payment must be received **BEFORE Friday 28 October 2011**. All 'Early Bird' discounts require payment at time of registration and before the cut-off date in order to receive any discount.
- Any discounts offered (including group discounts) require payment at the time of registration.
- Your conference registration payment covers the morning and afternoon teas, lunches, the conference dinner, refreshments, a conference handbook and access to presentations (electronic download for those presentations where presenter approval has been given).

Note: 50% of the fee will be refunded for late cancellations if notice is received before Friday 28 October 2011. Cancellations after this date will not qualify for a refund. However, other persons within the same company can attend in place of the cancelled registered delegate.

Payment:

<input type="checkbox"/> Cheque payable to Forest Industry Engineering Association enclosed, or
<input type="checkbox"/> Direct credit our Westpac Account: 031552-0257749-00, or
<input type="checkbox"/> Please debit my MasterCard/Visa/Amex (circle one)
Amount Enclosed: \$
Credit card number:
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FOR MORE INFORMATION:

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OR register electronically on
www.foresttechevents.com