

# ForestTECH 2011

tools & technologies to improve forest planning & operations



1 - 2 December 2011  
Albury, NSW, Australia



Forests NSW is a public trading enterprise within NSW Department of Primary Industries.



[www.foresttechevents.com](http://www.foresttechevents.com)

**DAY ONE – THURSDAY 1 DECEMBER 2011**

**7.30am** Conference Registration

**8.30am** Welcome & Introduction, FIEA

**SESSION 1: THE CHANGING LANDSCAPE FOR FOREST MANAGEMENT & RESEARCH IN AUSTRALIA**

**8.45am** **The Challenges Facing the Australian Forest Products Industry.** The current state of the industry, the significant challenges it faces and the role of the new industry association, AFPA, in meeting those challenges.

*Linda Sewell, CEO, HVP Plantations & Transitional Board Chairperson, Australian Forest Products Association*

**9.15am** **Changes in the R&D Landscape.** Investment & funding for research by the Australian forest products industry. Opportunities for improved uptake and commercialisation of research results.

*Professor Gordon Duff, Chief Executive Officer, CRC for Forestry*

**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*

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

**12.00pm** Lunch & Networking

**SESSION 3: PHOTOGRAMMETRY & REMOTE SENSING TECHNOLOGIES**

**1.00pm** **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*

**1.30pm** **Case Study – Resource Inventory Assessment.** A multi-faceted approach (LiDAR survey, multi-spectral imagery and ground based sampling of tree biometrics) for a “whole of forest” inventory.

*Jeremy Friend, Forest Assessor, Planning, Environment & Silviculture, Forest Products Commission & Ross Lewin, Director, Outline Imagery*

**2.00pm** **Web-Based Tools using Intelligent Processing of Satellite Imagery.** Providing monthly trends in plantation condition of Pinus radiata plantations in the Hume Region.

*Christine Stone Program Leader - Forest Biosecurity & Resource Assessment, Science & Research, NSW Department of Primary Industries*

**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, New Zealand (by video link)*

**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, New Zealand & Australian Co (tbc)*

**4.00pm** **Operational Forestry Applications Using RapidEye Satellite Data.** Assisting forest planning using RapidEye high resolution imagery.

*Gail Kelly, Satellite & Aerial Products Leader, AAM & Pete Watt, Head of Resource Mapping, Indufor Asia Pacific Ltd, New Zealand*

**4.30pm** Refreshments & Networking

**6.00pm** Conference Dinner

**DAY TWO: FRIDAY 2 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, New Zealand*

**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*

**9.30am** **Multi-Sensor Unmanned Aerial Vehicle (UAV) Remote Sensing for Forest Mapping and Inventory.**

*Luke Wallace, PHD Student, School of Geography and Environmental Studies, University of Tasmania*

**10.00am** Morning Tea & Networking

**SESSION 5: FOREST MANAGEMENT SYSTEMS & ESTATE PLANNING**

**10.30am** **Forest Information Management and Decision Support Tools To Improve Forest Planning And Operations.**

*Rob Kirwood, GIS Team Leader, Forest Information & Planning, Forests NSW & Christian Pilaar, Software Engineer, ATLAS Technology, New Zealand*

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

**12.00pm** Lunch & Networking

**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 Resources Planner, Forestry Tasmania, Australia, Andy Ferguson, Senior VP/Director, American Forest Management Inc., USA & Greg Singleton, Global Director, Natural Resources & Environment, Remsoft, Canada*

**SESSION 6: TOOLS FOR HARVEST OPTIMISATION**

**1.30pm** **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*

- 2.00pm Safety Showcase.** Improved safety and staff management using innovative GPS tracking  
*Richard Saad, Regional Sales Manager, Pivotal Satellite, Australia Pty Ltd*  
  
*Roger Ghent, National Sales Manager, Ezy2c*
- 2.40pm Online Safety Support for Forestry Contractors**  
*David Bennett, Manager Forestry Systems, PF Olsen (Aus) Pty Ltd*
- 3.00pm Integrating Sonics into Tree Processing Heads.** Results from recent harvesting trials in Northland, Nelson and WA.  
*Peter Carter, CEO, Fibre-gen, New Zealand*
- 3.30pm Conference Concludes.**  
**Afternoon Tea & Networking.**

**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
- Harvest Optimisation
- Forest Sampling & Inventory

**Who will be attending?**

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

**Conference Details**

**Venue:** Albury Entertainment Centre, Swift Street, Albury, NSW, Australia [www.alburycity.nsw.gov.au](http://www.alburycity.nsw.gov.au)

**Accommodation:** Special ForestTECH 2011 room rates from AU\$158 for a limited number of rooms have been set up for delegates at Quest Albury. Quest Albury has 104 serviced apartments.

Please state you are attending the ForestTECH 2011 conference when booking.

For room reservations Ph: +61 2 6058 0900 or Email: [questalbury@questapartments.com.au](mailto:questalbury@questapartments.com.au)

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

1-2 December 2011, Albury Entertainment Centre, Swift Street, Albury, NSW, Australia

## Conference Registration Form

SPECIAL Early Bird Discount: Register BEFORE Friday 28 October 2011

Discounts available for FIEA, IFA and AFG Members & Group Bookings

### 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):	AU\$880		\$
Standard Conference Rate (after 28 October):	AU\$980		\$
Group Conference Rate (3 or more from same workplace)	AU\$780		\$
IFA and AFG Member Discounted Rate (10%)			\$
FIEA Discounts** (10-25%)			-\$
Sign up here to become an FIEA Member			
FIEA Large Company <input type="checkbox"/> AU\$1500	FIEA Medium Company <input type="checkbox"/> AU\$1250	FIEA Small Company <input type="checkbox"/> AU\$750	FIEA Individual <input type="checkbox"/> AU\$300

SUBTOTAL	\$
+ GST (10%)	\$
GRANDTOTAL	\$

\* Members of the Institute of Foresters of Australia (IFA) and Australian Forest Growers' (AFG) 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](http://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 (10%).
- 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 25 November 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:

Cheque payable to Forest Industry Engineering Association enclosed, or
Direct credit our Westpac Australia Account: BSB 033115 Account # 137710, or
Please debit my MasterCard/Visa/Amex (circle one)
Amount Enclosed: \$
Credit card number:
Expiry date:
Cardholder's name:
Cardholder's signature:

### PLEASE RETURN TO:

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### FOR MORE INFORMATION:

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[www.foresttechevents.com](http://www.foresttechevents.com)