The future of the New Zealand forestry sector

2017 Conference
Novotel Lakeside Rotorua · 3–6 September 2017
Welcome

On behalf of the organising committee, it is my pleasure to welcome you to the 89th annual conference of the New Zealand Institute of Forestry. This year our conference looks to the future and addresses what we can do now to ensure that, in the coming rotations, our sector fulfils its significant potential to be more profitable, vibrant, and sustainable.

In developing the conference programme the committee adopted two guiding principles. Firstly, we wanted to design a conference that was different to those in previous years. Secondly, we wanted to ensure that we responded to the feedback provided by delegates last year to deliver a conference tailored to the requests of our members. We also recognised that Rotorua is unique, not just in its culture and geology, but also in its concentration of forestry sector infrastructure and we wanted to showcase this. Taking a moment to reflect on the programme we have developed I am pleased that we have stayed true to these principles.

The session topics, and the speakers we have invited, were influenced by the comments you provided last year. This input was valuable for us and I encourage you to take the time to provide feedback this year to give next year’s volunteer organisers a starting point. We are delighted to have attracted outstanding international speakers, and domestic experts, and we are sure that they will provide fresh insight, both globally and locally, that will help us reflect on the sector with new eyes. We have also embraced technology through the use of the PollEverywhere App that will bring a new approach to interacting with conference speakers. I encourage you to get out your phones, laptops, and tablets to interact with the speakers and add your voice to the conversation. For those of you joining us on the field trip, we have developed a schedule that takes in some of what makes Rotorua unique. This will include tours of Red Stag and Scion, and visits to the Rotorua Mountain Bike Park and our unique local forests.

In an election year, we felt it would be remiss of us not to extend an invitation to the political parties and ask them to engage with the sector. We hope that they will give us their insight into how they will support the development of the forest sector should they be granted the opportunity to form our next government.

I would like to thank the organising committee, steering committee, the speakers, the sponsors, and everyone else who has contributed to making this conference happen. I hope you enjoy the conference, and for those who have travelled to be here, I hope you enjoy your stay in beautiful Rotorua.

Jonathan Dash
Chair

Conference Organising Committee
Chair: Jonathan Dash
Simon Rapley
Tony Li
Linton Winder
Ian Wilton

Conference Manager: Jay Matthes
Conference Co-ordinator: James Treadwell

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Wifi while at conference
Novotel Hotel will provide a daily login for conference attendees which can be viewed at the Registration desk. All conference attendees staying at the Hotel can use their Room login.
Speaker Profiles

WORKSHOP SPEAKERS: Sunday 3 September 2017

ANDREW MCEWEN
Andrew has been a professional forester for over 50 years, working in general forestry and research, the sale of State forests and several Treaty of Waitangi forestry settlements. He chairs both the NZIF Foundation and the New Zealand Forest Certification Association, which has recently introduced the global PEFC forest certification scheme to New Zealand. He is a registered forester, a Fellow of the NZ Institute of Forestry and has served on the Institute’s council for 11 years, the last six as President. He has received a number of awards and was appointed an Officer of the New Zealand Order of Merit for services to forestry in the 2016 New Year Honours.

ANNA TYLER
Anna has over 30 years’ experience in a range of roles in forestry in New Zealand and overseas. Her roles in government have included MPI’s forestry schemes, the Emissions Trading Scheme and being Private Secretary to the minister responsible for forestry. She is currently MPI’s lead on international forestry policy representing New Zealand’s forestry interests in fora such as United Nations Forum on Forests, APEC Expert Group on Illegal Logging and Associated Trade, International Tropical Timber Organisation and FAO’s Technical Committee on Forestry.

CONFERENCE SPEAKERS: Monday 4 September 2017

PETER CLARK
Peter Clark is Chief Executive Officer of PF Olsen Ltd and has led the company to its current position as a leading forestry service provider in New Zealand and Australia. Peter’s 40-year background in forestry includes forest operations and consulting assignments in Asia, China and the Pacific and a number of positions on forest industry and government advisory boards encompassing climate change, bioenergy, and forestry sector research. He is a Registered Forestry Consultant and Fellow of the New Zealand Institute of Forestry. Peter is President of the NZ Forest Owners Association and on the Board of the Wood Council of NZ.

ROGER SMITH
Roger leads MPI’s Operations branch with responsibility for delivering border clearance services, incursion diagnostics, surveillance, response management, compliance, intelligence, operational planning and national coordination. Roger joined MPI in 2011 as Deputy Director-General Verification and Systems and in 2014 was appointed as MPI’s Deputy Director-General China Relations based in Beijing. He took up his current role in January 2017. With over 30 years’ experience in trade and border management, Roger has also served in both Brussels and Washington DC.

CHARLOTTE SEVERNE
Dr Charlotte Severne of Ngāti Tūwharetoa and Ngāi Tūhoe, is the Assistant Vice-Chancellor of Māori and Pasifika at Massey University. She was formerly Deputy Vice-Chancellor Māori and Communities at Lincoln University. Charlotte is a geologist and was the Chief Scientist for Oceans and Māori Development at NIWA. She has a number of Tūwharetoa governance roles including Chair of the Lake Rotoaira Trusts (Forest and Lake) and is a ministerial appointment on the Ministry of Business, Innovation and Employment Science Board. Charlotte was made an Officer of the New Zealand Order of Merit for services to Māori and science in the 2016 Queen’s Birthday Honors.

ANDY DICK
Andy is a registered forestry consultant and businessman with 32 years’ active participation in the forestry sector. He has managed large forest estates for corporate foresters and has a broad operational knowledge of the sector. He has extensive overseas consulting experience and particular expertise in log value recovery and stumpage management. He is a past board member of the Logging Industry Research Organisation and a past Councillor of the NZ Institute of Forestry. He leads Toitu Te Waonui’s land engagement programme with the Bay of Plenty Regional Council and has initiated and overseen the development of the dNITRO land-use change tool.
**ROB FORD**
Rob joined Landcorp in January 2016 as General Manager – Innovation and Technology. Previously he was at the Livestock Improvement Corporation and responsible for the organisation’s business systems technology and in other roles across farm software, automation systems, farm systems, herd testing and farm consultancy. Prior to LIC, Rob was CEO of a technology start-up in Auckland where he took this business through a successful IPO listing on the NZX. Rob is the ministerial appointment on the Rural Broadband Advisory Committee that has oversight on the current roll out of fibre and mobile broadband infrastructure across rural New Zealand.

**JEFF TOMBLESON**
Jeff began his forest management research career at the Forest Research Institute, Rotorua, in the 1970s. In his research career at Scion, Jeff was engaged as a Business Development Manager with Chile as a key account. Self-employment saw Jeff working for wood processing technology providers Microtec and Springer out of central Europe. His current focus is working in Chile and marketing some of the wave of wood for clients via Stumpage Tenders. Jeff’s passion for forestry extended to investment in the 1990s farm-based plantings, and he is hosting participants at one such plantation during the field day.

**GARTH CUMBERLAND**
Garth obtained a Bachelor of Agricultural Science from Massey University in 1964. Among many investigations working as a Field Research Scientist, he conducted a fertiliser-grazing trial on West Coast sands and pioneered research work into the agricultural aspects of two-tier farming (agroforestry). He has managed his own forest and agricultural businesses including horticulture, dairy, goats, beef, sheep and agroforestry – along with investments in animal breeding, wool processing and timber marketing. He established a forestry consultancy involving investment and management services to forest industry investors and has assisted with the sector’s Forest Policy Project, the evolution of which is the subject of his paper to this conference.

**GARETH MORGAN**
Gareth is an economist, public policy analyst, motorcycle adventurer, philanthropist, and a politician. He has instigated three successful businesses and his philanthropic endeavours include the work of The Morgan Foundation on social investment in developing economies, conservation, public policy analysis and education in New Zealand. He has instigated seven books on issues of public interest, co-authored six books on offshore motorcycle trips, and three books on personal investment. His project Our Far South aims to raise New Zealanders’ awareness of the importance of the area between Stewart Island and the South Pole and he has participated in Predator Free New Zealand, Million Dollar Mouse, Predator Free Rakiura, Enhancing the Halo, and The New Zealand River Awards.

**STUART NASH**
Stuart is the Member of Parliament for Napier where he grew up. He has Masters degrees in Law, Management and Forestry. His work experience includes working in forestry and agriculture in Japan, and working in IT, marketing, strategic projects and resource planning for Fletcher Challenge Forests. Stuart worked for Carter Holt Harvey’s forestry division in sales and marketing before joining Chemiplas NZ Ltd as General Manager Marketing responsible for international market development. He was Director of Strategic Development at AUT University before entering Parliament as a list MP in 2008–2011. Stuart worked in Parliamentary Services and as Executive Director South Campus for AUT before returning to Parliament in 2014 as the Labour elected member for Napier.

**JAMES SHAW**
As Green Party Co-leader James strongly believes that New Zealand can lead the world in transitioning to a high-value, clean-tech, post-carbon economy that works for everyone. Prior to becoming an MP, James had a successful career in management consulting, primarily in London, working with large multinational companies across Europe and around the world, developing their sustainable business practices. His diverse business experience and expertise, from working for multinational corporates through to local start-ups and community organisations, will enable him to lead the Green Party and New Zealanders towards a high-tech post-carbon economy and society.
LOUISE UPSTON
Louise is the Member of Parliament for Taupō. In December 2016, she became a Cabinet Minister and was appointed Minister of Corrections. She is also the Associate Minister of Education, Associate Minister for Tertiary Education, Skills and Employment and Associate Minister for Primary industries and has previously held roles in Land Information, Local Government and Women. Prior to entering Parliament in 2008, Louise was self-employed as a project management consultant and held directorships in a number of trusts and companies involved in property, tourism, management, and consulting. Louise holds an MBA from Waikato University.

FLETCHER TABUTEAU
Fletcher is the New Zealand First spokesperson for Energy, Revenue, Trade, Commerce, Tourism and Associate for Finance and is on the Foreign Affairs, Defence and Trade Select Committees. Fletcher has a strong family history in Rotorua and the surrounding districts, and is of Ngati Ngaranui, Ngati Rangiweewehi, and Ngati Whakaue descent. He has worked in the tourist and education sectors in a diverse range of roles: for the past few years he has been in the tertiary education environment heading the School of Business Management, and developing qualifications at the post-graduate and masters levels. Fletcher is a registered New Zealand Business Mentor, helping local business owners with strategic business and marketing decisions. He wants the best for the people of Rotorua and for the government to make decisions in the best interests of New Zealanders.

ROBERT NOLA
Robert is recently retired from the Philosophy Department of the University of Auckland where he was Professor Emeritus and taught for 47 years. He researched and published on topics such as philosophy of science, metaphysics and the theory of knowledge. A related side interest has always been how people come to have the beliefs they do and the non-rational factors which can shape them. Alas, the recently identified domain of the “post-true” along with the idea of “fake news” gives a new edge for research into an old problem about human belief formation (as old as the ancient Greek philosopher Plato who wrote about this extensively under the title ‘rhetoric’).

BRIAN RICHARDS
For 25 years, Brian has been involved in brand strategy and has advised governments, companies and communities across the world in defining their point of difference. He has a special interest in the primary sector and its future and has led a number of value-added initiatives in this sector – Zespri, Cervena, and FirstLight. His challenge to the forestry sector is: how might we better capture our collaborative energies to deliver new value-added products and services? He now leads the team at Richards Partners – a creative agency in New Zealand that sits at the intersection of strategy and design.

STEVE WILTON
Steve has been with Forest Enterprises since 1991 and Managing Director since 2000. He oversees all activities across the two companies: the forest investment management company and the land and tree crop management company. Steve manages the company in a continually changing environment while remaining responsive to changes in regulation and meeting the needs of an increasing investor appetite for forestry investment – for its profitability and its green credentials as a sustainable and environmentally positive industry sector. Steve is a foundation member of the Forest Growers Levy Trust and was re-elected in 2015 to the Forest Growers Levy Trust Board.

PETER OLIVER
Peter has worked in a variety of management, technical, and planning roles for commercial forest companies in a number of areas from Northland to Southland since the early 1980s. Currently Peter is General Manager, Forest Assets for City Forests, which is owned by the city of Dunedin. His role combines overall responsibility for the management of the company’s forest assets, including forest growing activity, with yield regulation, environmental management, and leading the company’s research and development work. He is a member of the Forest Growers’ Environment Committee, a member of the Otago Regional Council’s Water Quality Advisory Group, and on the Technical Steering Team for the Forest Growers Research programme.
CONFERENCE SPEAKERS: Tuesday 5 September 2017

CAMERON BAGRIE
Cameron has worked as an economist in New Zealand for 20 years, including 10 as Chief Economist of ANZ New Zealand. As Chief Economist, Cameron leads a team of economists and strategists working in ANZ’s financial markets operation, with responsibility for forecasting of the New Zealand economy, analysis of New Zealand monetary policy as well as forecasting and strategy work associated with fixed income research. On top of this he provides considerable strategic input to clients and the bank.

MIKE MAY
Michael joined FuturaGene in 2012, bringing experience in international cooperation in the biotech sector in different cultural and professional settings. Michael has gained more than a decade’s postdoctoral experience in genetics and molecular biology at the University of Oxford and the University of Gent, Belgium. Prior to joining FuturaGene, Michael held a number of positions in companies, academia and as an entrepreneur which helped shape his interest in policy and its role in driving the creation, uptake and diffusion of advanced technologies as solutions for global challenges.

TIM PAYN
Tim is a Fellow of the NZIF and a Principal Scientist at Scion where he works on sustainable forest management and climate change, including environmental impacts of steepland harvesting, social license to operate, and forest ecosystem services. He is involved in international sustainability initiatives including the Montreal Process, Future Earth, the IUFRO Task Force Sustainable Planted Forests for a Greener Future and the IUFRO Working Party Research and Development of Indicators for Sustainable Forest Management. He has been a member of the joint NZFOA/NZFFA Resource and Environment Committee since 2002.

RUSSELL DEATH
Russell is a Professor in Freshwater Ecology in the Institute of Agriculture and Environment at Massey University with nearly 30 years’ experience in ecological research and teaching. His area of expertise is the ecology of stream invertebrates and fish. Although his primary interest is ecology research he has been involved in applying that science in planning arenas such as the One Plan, Canterbury Regional Plan and Ruataniwha irrigation scheme.

SALLY STRANG
Sally is Environmental Manager for Hancock Forest Management (NZ) Ltd and responsible for managing environmental compliance for approximately 206,000 hectares of plantation forest managing third-party certification to both FSC and PEFC. She is a member of the FOA Resources and Environment Committee, has been a member of the stakeholder working group developing the National Environmental Standard for Plantation Forestry and is a board member of the NZ Forest Certification Association.

GLENN THORLBY
Glenn is a Plant Molecular Geneticist with specialised experience in gene discovery and functional genomics. He leads Scion’s Plant Biotechnology research area focusing on the use of genetic modification technologies to improve tree productivity. His current research includes work on control of conifer reproduction in order to prevent the future spread of wilding conifers. He also has a keen interest in the New Zealand debate on evidence-based decision-making and the regulation of biotechnology.

CHRIS FOWLER
Chris is a Senior Environmental Law Specialist who has worked with the forestry sector for over 15 years. During this time he has guided forestry companies through a range of challenging issues including district and regional plan hearings and Environment Court appeals regarding water yield and water quality, wilding conifer control, indigenous biodiversity management, earthworks and financial contributions. He provides policy advice regarding forest offsetting under the Climate Change Response Act 2002 and proposed national planning instruments.

HARRI SAVONEN
Harri is the Director of Education at North Karelia Training Consortium, Valtimo, responsible for training and development of secondary education in the forestry sector. Prior to this, Harri worked as a trainer for forest machine manufacturer Ponsse, and he has experience as a forestry engineer and as a harvester operator in Finland, Russia and Sweden. He has also studied leadership, didactics and pedagogy during his career.
LINTON WINDER & DAVID EVISON
Linton is the Head of Primary Industries, Science and Environment at Toi Ohomai Institute of Technology. His background is as an applied entomologist and conservation biologist with a strong interest in environmental sustainability. His research focuses on the control of insect pests, and the conservation of tropical forests in the South Pacific.

David is employed as Senior Lecturer at the School of Forestry, University of Canterbury. His research interests include forestry sector investment, trends in wood end-use and markets, economics of tree breeding, and of carbon forestry.

MARK PREECE
Mark is Sector Manager at Competenz with responsibility for developing qualifications and arranging training and assessment in the forestry and wood manufacturing sectors for 2900 trainees and apprentices across the forestry sector. He has held various management roles in forestry, harvesting and logistics for Forestry Corporation, Fletcher Challenge and Carter Holt Harvey in Rotorua and Tokoroa.

RICHARD PARKER
Richard is a Senior Scientist at Scion in Christchurch. His research focuses on difficult, dangerous and essential occupations such as forest harvesting and rural fire fighting. He is involved in developing robots for forest operations and the human factors of forest work and leads research on rural fire fighter performance and new technologies for fire detection and suppression.

ROSS DAVIS
Ross has been in the logging industry for 35 years and has run both groundbase and cable logging crews. He has been a FICA board member for 15 years, and president for the last 3 years.

STEVE CHADWICK
Steve (Stephanie) Chadwick has been Mayor of Rotorua since 2013 and her leadership has seen significant programmes to encourage sustainable living, revitalise the inner city, create economic growth, provide outstanding places to play and support Rotorua’s creative communities. In 2015, Rotorua Lakes Council became the first council in New Zealand to develop and adopt a Wood First policy.

MARTY VERRY
Marty is CEO and Chair of Red Stag group, a vertically-integrated wood processing company based in Rotorua with New Zealand’s largest sawmill, forest, frame and truss, pre-fabrication and property development businesses. Marty will outline the market drivers behind Red Stag’s growth, the trends he sees affecting the market in the next 5 years, and how he rates the forestry/wood processing policies of each political party heading into the 2017 general election.

TOBIAS SMITH
Tobias is a structural engineer and General Manager of Christchurch-based structural engineering consultancy PTL. He is passionate about project management and delivering quality timber buildings of all shapes and sizes on time and on budget. He is the current chairman of the NZS1720 code committee working on the replacement of the New Zealand structural timber design code, and an observer to the review of Eurocode 8 Section 8: Seismic design of timber structures.

FLORIAN GRAICHEN
Florian is Science Leader at Scion developing advanced biobased products through modification and engineering of biopolymers and chemicals. This includes agile, modular and mobile processing such as 3D printing and customized extrusion approaches. Key to success is the ability to match biobased materials with the performance requirements of innovative products.

DAIMAN OTTO
Daiman is co-founder and Director of Tall Wood Limited, an Auckland-based company focused on producing affordable buildings utilising engineered timber, offsite fabrication and digital technologies. Tall Wood is involved in a number of projects specialising in affordable housing and medium-density residential. Daiman is a board member and immediate past chair of PrefabNZ and since 2008 has specialised in prefabrication design, prototyping, digital disruption and innovation.
GUEST SPEAKER
ANGELA SWANN-CRONIN

Our after-dinner speaker Angela Swann-Cronin was born and raised in Rotorua, is the first Māori woman to become a pilot in the New Zealand Air Force, and is an accomplished and self-taught artist. Angela has kindly donated a painting, oil on canvas, called *Ngahere* to this year’s conference, and the Institute is offering all delegates the opportunity to win this wonderful picture.

In recognition of the conference being held in Rotorua, we are running a raffle (tickets only $10!) with all proceeds to be donated to Rotorua’s School for Young Parents. The school offers education to students under 19 years of age who work on individual educational programmes to suit their future goals and previous schooling. The NZIF is delighted to support this local organisation that offers Rotorua’s young parents the opportunity to continue their education.

\*\* Poll Everywhere \*\*

This year the conference will be using a new convenient app called “Poll Everywhere”. This will allow conference attendees to ask questions of the speakers in real-time.

You can download the app from the Apple Store or from Google Play by searching for “poll everywhere” in the search bar. Alternatively you can use any device that can be connected to the internet by simply going to the website [www.pollev.com](http://www.pollev.com).

Once you have the app downloaded or are on the Poll Everywhere website simply:

» Select “I’m participating” on your mobile or laptop.

» Enter the following poll code to join: NZIF2017ROTORUA

» Done! You are ready to go! No account registration is required.

When each speaker starts their presentation you will be able to submit up to 3 questions that you would like to ask.

You are also able to show your support for others by voting for an existing question that you would like the speaker to answer. Live results of the question poll will be available on your screen.

You have until the speaker finishes their presentation to add a question or vote for existing questions. Having access to the poll results in real-time means that we can all see which question are the audience’s favourites and which other questions are getting hotter.

For the last 5 minutes of the allotted time the session chair will ask the highest polling questions of the speakers.

Once a presentation has finished the App will automatically set up a new question poll for the next speaker.

**Not interested in going online to ask a question?**

No worries, we will still allow at least one question coming from the audience after each presentation.
Conference Programme Sessions

MONDAY 4TH SEPTEMBER

SETTING THE SCENE
This opening session will set the scene by exploring some of the key challenges and opportunities facing the sector. We will hear from keynote speakers who will draw on their experience to offer insights into the contribution made by the forest industry to New Zealand’s economy and communities.

FORESTRY IN THE NEW ZEALAND LANDSCAPE
This session will focus on the contribution that forestry can make to the economic prosperity and resilience of communities within New Zealand. The economic benefits of forest enterprises will be explored, contextualised within the need to deliver both environmental sustainability and maximise the utilisation of marginal land. We will hear from key stakeholders shaping the development of the sector and hear evidence of a need for greater sector cohesion as we look towards the future.

POLITICAL HUSTINGS
2017 is election year, and this session will provide New Zealand’s political parties the opportunity to present their forestry policies and articulate their commitment to supporting the sector. This will be a great chance for delegates to interact with politicians and question them on their plans to support the forestry industry.

FORESTRY IN THE PUBLIC EYE
We now live in a post-truth world where it is increasingly difficult to communicate effectively. As a sector we are no longer judged simply by the integrity of our actions, but by how well we manage the information we provide, and the image we portray to the public. In a world where elections are won and lost on social media, how can we effectively deliver the message about the opportunities within the sector, and our contribution to society? Business as usual is not a sustainable action in a rapidly changing world; we will hear the thoughts of experts from within and outside the sector and gain insights into how we can communicate effectively.

TUESDAY 5TH SEPTEMBER

INTERNATIONAL PERSPECTIVES
This session challenges us all to look beyond New Zealand in order to find out how the international forestry community is developing. Viewing our sector through an international lens will provide a broad perspective, offering insights into the economic forces and research developments that affect us.

ENVIRONMENTAL AND SECTOR RESILIENCE
All primary industries impact the natural environment. This session explores some of the key environmental challenges facing New Zealand, and how the sector can mitigate both its own impacts and those from other sectors.

HUMAN FACTORS... WORKFORCE, TRAINING AND EDUCATION
Our sector needs highly trained and committed professional foresters. This session looks both within and beyond New Zealand to explore how educational providers can meet this industry need.

A POSITIVE FUTURE
To finish the conference, we look at new and emerging opportunities that are resulting in positive changes for sector businesses and local communities. We will hear about new technologies, confident investments, and emerging solutions that are driving us towards a profitable, sustainable and vibrant future for the forest sector.
Conference Programme
SUNDAY 3RD SEPTEMBER

12 noon Registration

12.30–13.00 Valuation Working Group update

13.00–15.00 The Real Estate Agents Act Exemption CPD Workshop

» Do you know if you may be breaching the Real Estate Agents Act?
» What is the exemption that NZIF has sought and that is to be granted?
» When will it come into force?
» What does it mean for the NZIF registration scheme and for registered members?
» What are the implications for other NZIF members?

These topics and more will all be explored during the workshop. It is a must attend workshop for all Registered members and all other members who are involved in any way with transactions involving the transfer of land or forests, forestry rights, leases, licences, or the granting of leases, licences, forestry rights, easements, etc.

The workshop will be led by Andrew McEwen, who has been leading the push to gain the exemption since December 2010. We are hoping to include a Q&A panel session with legal and regulatory members on the panel to allow attendees to seek answers to specific questions and to raise concerns.

15.00–15.30 Break

15.30–17.00 International timber legality import regulations CPD Workshop

Illegal logging and trade is a significant issue globally. The US, EU, Australia and Indonesia have introduced laws and regulations to address illegal timber.

A number of our key markets in the Asia Pacific region are also developing similar regulations. Despite the low level of risk of illegal timber in New Zealand, these laws and regulations apply equally to our forestry exports.

Hear from MPI about these developments and how they might impact you.

The workshop will be led by Anna Tyler of MPI. The chair of the NZ Forest Certification, Andrew McEwen, will also describe a proposal for a simple legally harvested certification scheme the association has developed.

17.30–18.30 89th NZIF Annual General Meeting

18.30–20.00 Networking Drinks. After this time a cash bar will be provided.
### MONDAY 4TH SEPTEMBER

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<td>Andy Dick – Toitu Te Waonui: An experiment in planting under-utilised Māori land</td>
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<td>Rob Ford – A safer Landcorp</td>
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<td>Jeff Tombleson – Pruned wood supply from the Central North Island and disrupter influences on wood processing</td>
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<td>Garth Cumberland – The forest sector’s policy initiative: Holistic forestry for the future</td>
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<td>Robert Nola – Fake news and post-truth: Does philosophy have anything to say to forestry?</td>
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<td>16.30–16.50</td>
<td>Brian Richards – Positioning forest industries brands from the outside in</td>
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<td>Steve Wilton – Kiwis investing: The ultimate industry endorsement</td>
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<td>Peter Oliver – Forestry’s narrative, fact or fiction, and does it matter?</td>
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<td>18.00–19.00</td>
<td>Networking drinks. After this time a cash bar will be provided.</td>
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## TUESDAY 5TH SEPTEMBER

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<td>Cameron Bagrie – Averting the 10-year boom-bust pattern</td>
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<td>9.20–10.00</td>
<td>Key note 4 – The people, genetics and environment of forestry in 2050</td>
<td>Mike May</td>
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<tr>
<td>10.00–10.30</td>
<td>Break</td>
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<td>10.30–10.50</td>
<td>Session Theme = Environmental and sector resilience</td>
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<tr>
<td>10.50–11.10</td>
<td>Tim Payn – Future environmental challenges and New Zealand’s planted forests</td>
<td>Ian Wilton</td>
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<td>11.00–11.30</td>
<td>Russell Death – Why can’t I see the forest for the cows: Arboreal solutions for New Zealand’s water quality crisis</td>
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<td>11.30–11.50</td>
<td>Sally Strang – The future of forest certification for New Zealand plantations</td>
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<td>11.50–12.10</td>
<td>Glenn Thorby – Biotechnology: A solution for wilding conifers in New Zealand?</td>
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<td>12.10–12.10</td>
<td>Chris Fowler – NES plantation forestry: Implications for foresters</td>
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<td>12.10–13.05</td>
<td>Lunch</td>
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<tr>
<td>13.05–13.30</td>
<td>Session Theme = Human factors... workforce, training and education</td>
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<td>13.30–13.50</td>
<td>Harri Savonen – Forestry machinery training center, Valtimo, Finland</td>
<td>Simon Rapley</td>
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<td>13.50–14.10</td>
<td>Linton Winder &amp; David Evison – Education for forestry: Opportunities and challenges</td>
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<td>14.10–14.30</td>
<td>Mark Preece – Industry training: Where to next?</td>
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<td>14.30–14.50</td>
<td>Richard Parker – Forestry automation and robotics</td>
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<td>14.50–14.50</td>
<td>Ross Davis – Labour shortage: Is there a plan?</td>
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<td>14.50–15.10</td>
<td>Break</td>
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<td>15.10–15.30</td>
<td>Session Theme = A positive future</td>
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<td>15.30–15.50</td>
<td>Steve Chadwick, Mayor – Rotorua Lakes Council’s Wood First policy</td>
<td>Murray Parrish</td>
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<td>15.50–16.10</td>
<td>Marty Verry – Wood will be the norm in New Zealand mid-rise buildings by 2030: Here’s the pathway</td>
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<td>16.10–16.30</td>
<td>Tobias Smith – The timber renaissance: Materials, technologies and techniques</td>
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<td>16.30–16.50</td>
<td>Florian Graichen – Advanced biobased products: Combining sustainability with performance</td>
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<td>16.50–17.00</td>
<td>Daiman Otto – Engineered timber and the future of digital construction</td>
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<td>18.00–23.00</td>
<td>Pre-dinner and networking drinks. After this time a cash bar will be provided.</td>
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Conference Dinner and Awards from NZIF and NZIF Foundation with after-dinner guest speaker Angela Swann-Cronin.
WEDNESDAY 6TH SEPTEMBER

Field Trip 8am to 5.00pm

Pick-up will be 8am at the Novotel Hotel. The field trip will visit the following locations in smaller groups.

Red Stag
A guided tour of Red Stag sawmill where attendees can see the continued investments in this vital processing business including the new USNR Tandem-Quadsaw sawmill line that make this one of the most advanced sawmilling sites in the world. Red Stag cuts 550,000 cubic metres of timber per year generating an annual turnover in excess of $220 million and employing approximately 300 staff.

Scion – NZ Forest Research Institute
The field trip will lead us to New Zealand’s largest forest research facility where delegates will receive a multi-stop walking tour of the Scion Campus. This will include visits to state-of-the-art facilities for wood quality research, tissue culture, genomics, and biomaterials research. Here we will have a unique opportunity to hear from scientists who support our sector by pushing the boundaries of forest productivity, new technologies, and genetic improvement and see their research first-hand.

Horohoro forest
We will visit a local forest where we will discuss the challenges and opportunities faced by woodlot growers. Presentations will encompass the economics of small plantations and land-use restrictions affecting growers in the local region. The study forest includes a unique set of trials that are now reaching maturity. These will provide us with a chance to see first-hand the impact of silvicultural practice, including final crop stocking, on the return to growers. We will also have the chance to observe the effects of genetic improvement on tree growth. Attendees will walk amongst stand trees with clearly labelled genetic composition.

Rotorua Redwoods – LUNCH
Lunch will be held in Rotorua’s famous Redwoods, one of the must-go-to places for visitors to Rotorua. The unique Sail venue will ensure that we stay dry no matter the weather and lunch will provide another fantastic networking opportunity, while surrounded by majestic giant trees.

Rotorua Mountain Bike Park
In recent years the rapid development of the young sport of mountain biking and the trail network centred on Whakarewarewa Forest has transformed Rotorua into a must-visit destination for mountain bikers from around the world. These developments are bringing large numbers of new visitors into our forests providing significant contributions to the local economy, and community, but also bringing a unique and complex set of challenges for forest managers. We will hear from the team behind Mountain Bike Rotorua (responsible for bringing the world-famous CrankWorx festival to New Zealand), the Rotorua Trails Trust, and other stakeholders on the growth of the sport and plans for future developments.