



MAINTENANCE ENGINEERING SOCIETY of NZ (MESNZ)
2021 CONFERENCE PROGRAMME
12 – 14 October 2021



Tuesday 12 October Pre-Conference Day: Training/Workshops

Pre-Conference Training/Workshops (Completely separate to the Conference – Please book and pay directly with providers, see emails and website)

8:30 – 4:00pm	Failure Prevention & Material Awareness \$480 + GST pp.	Barry Robinson – Metex Ltd Email: Barry@safegroup.co.nz
8:00 – 12:00pm	Compressed Air System Best Practices \$240 + GST pp.	James Neale – Energy Systems Management Ltd , Email: office@energysm.com
12:30 - 4:00pm	Ultrasonic Condition-Monitoring Fundamentals \$240 + GST pp.	James Neale – Energy Systems Management Ltd , Email: office@energysm.com
8:00 – 12:00pm	Safety of Machinery-4024 the road to No-where or Compliance \$240 +GST pp.	Brian Anderson – Pilz NZ Email: office@pilz.co.nz
12:30 – 4:30pm	Risk Assessment Workshop-What do you say to taking chances? \$240 +GST pp.	Brian Anderson – Pilz NZ Email: office@pilz.co.nz

Field Trip

2:30 – 5:00pm	Field Trip to Stainless Design Ltd Strictly Limited Number Bus departs/returns:	Everyone invited, included in conference registration fee
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4:30 – 5:00pm **Student visitors welcome & briefing**

5:00 – 6:30pm	Welcome Function & Meet the Exhibitors Networking event for all Delegates, Sponsors, Speakers, Exhibitors & Students	Everyone invited, included in conference registration fee
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Wednesday 13 October – MESNZ Conference Day 1

	Main Plenary and Expo Zone
8:00am	Registration Open, Exhibition Viewing & Networking, with Fresh Coffee
9:00am	Welcome to the MESNZ Conference 2021 <i>presented by the MESNZ & Conference Principal Sponsor ABD Group</i>
9:15am	OPENING KEYNOTES: Manufacturing Matters! How will NZ industry successfully transform to address current and future challenges and opportunities. What you need to know, and what part you need to play. Nick Collins – NZ Manufacturing Alliance, ex CEO Metals NZ.
9.50am	Learning to thrive in a Low Carbon Economy - James Neale
10:30am	Morning Tea – freshly brewed coffee, tea, networking and exhibition viewing

11:00am	Tackling the Circular Economy – Rachel Barker, Plastics NZ		
11:35am	Industrial Machine Automation (Industry 4.0). Dieter Adam, The Manufacturers Network		
12:00pm	Celebrating Success, Achievement & Amazing Progress MESNZ Bill Buckley Scholarship Award. \$5000 training scholarship awarded to most promising young engineer. Stuart Tolhurst Memorial Apprentice Award, awarded to an outstanding apprentice.		
12:20pm	Lunch, Exhibition Viewing & Networking		
1:05pm	Stream A Technical: Smart Connected Machines	Stream B Technical: Materials & Failure Prevention	Stream C Safety:
1:10pm	IOT Sensor Selection	Failure of Bolts, both good & bad. Barry Robinson, Metex	Truths about Safety Training & Unit Standards. Troy Twomey, Elite Training Services
1:45pm	IOT Pneumatics	Shaft & Axle Failures: Paying Attention to Detail Andrew Ouwejan, Metlab	Machine Guarding Essentials. Brian Anderson, Pilz NZ
2:20pm	IOT Condition Based Lubrication: James Neale	Failure Analysis & Prevention with Finite Element Analysis: Paul Bosauder. Matrix	Safety Culture/Implementation
2:50pm	Afternoon Tea – freshly brewed coffee, tea, networking and exhibition viewing		
3:25pm	Changes in the NZ Engineering space: An update on the current Review of Vocational Education, and <i>Who is allowed to call themselves an Engineer?</i> Martin Pratchett, Engineering NZ		
3:55pm	First Day Wrap up		
5:30 – 9:30pm	Social Function & Award Night For all Conference attendees, Exhibitors and Presenters. Don't miss it – this is where really valuable connections are made, and a chance to recognise excellence among your peers! Includes Dinner, Drinks and Networking. Home before 10 pm. VENUE: Sky City Hamilton		

Thursday 14 October – MESNZ Conference Day 2

	Main Plenary and Expo Zone		
7:30am	MESNZ AGM All Welcome		
8:30am	Tall Stories, Freshly Brewed Coffee, Exhibition Viewing & Networking, Social Function Photos		
9:00am	Day 2 – Opening		
9:10am	<u>OPENING KEYNOTES:</u> Safety Myths and B-S (What is Rumour vs what is actually the Law). Troy Twomey, Elite Training Services		
9:50am	Forum. Problems with getting staff and retaining staff. Options for quality professional development.		
10:15am	Morning Tea – freshly brewed coffee, tea, networking and exhibition viewing		
10:45am	Stream A Technical: Smart Connected Machines	Stream B Projects, Contracts, Outages, Problem Solving	Stream C Asset Management & Technology Show Case
10:50am	IOT Motor Control & Connectivity	Asset Criticality Analysis – a simple practical approach. Darrin Hawkes, MEL	Assets replacement and reinvestment optimization & implementation. Vladimir Kabanov, Mercury Energy
11:25pm	Finding the needle in your IOT data haystack!	Successful Problem Solving & cost validation in the real world. James Neale, Energy Systems Management	Water Asset Management
12:00pm	Modelling a Digital Twin. Case Study from OMV	What does a successful Outage look like?	Wire-Arc Additive Manufacturing. Mike Fry, Tida.
12:35pm	Industrial Cyber Security	Capital Effectiveness - Industrial Project Delivery & Front End Loading (FEL). Darrin Hawkes, MEL	Full-Strength Metal 3D Printing. Warwick Downing, RAM3D
1:05	Lunch, Exhibition Viewing & Networking		
2:10	- Closing Forum Discussion – Tying it all together!		
2:40	CLOSING KEYNOTE		
3:20	MESNZ 2021 Conference Wrap-up and Closing Remarks		
3:30pm	Conference Closes		