Welcome.

FireNZ is the annual forum for Fire Protection and Fire Engineering professionals.

FireNZ 2021 will be held in Christchurch, New Zealand 21st – 23rd September 2022.

The conference is once again presented by the Fire Protection Association of New Zealand, the Society of Fire Protection Engineers NZ Chapter, and the Institution of Fire Engineers New Zealand Branch.

Our annual FireNZ national conference has established a reputation as the premier fire industry event for keeping abreast of advancements in all aspects of fire safety in New Zealand.

FireNZ provides a comprehensive national forum for fire industry professionals. It draws delegates from countries throughout the Pacific and keynote speakers from around the world.

The conference programme is designed to provide insight and learning, to extend current thoughts on the various presentation topics, and to provide robust debate around key industry issues. FireNZ delegates are industry professionals with a strong interest in the latest developments across fire protection and related products and services.

The conference will provide information for, amongst others:

- Fire Protection Contractors
- Fire Consultants
- Fire Engineers
- Architects
- Building Surveyors
- Property Developers
- Distributors and Installers
- Insurance Professionals
- Fire Equipment Manufacturers
- Fire Survey Personnel
- Regulatory Authorities
- Territorial Authorities
- Fire Risk-Management Personnel
- Fire and Emergency New Zealand Operational and Volunteer Personnel
- Property and Facilities Managers
- System Designers HVAC/Fire

IF YOU HAVE AN INTEREST IN FIRE SAFETY, YOU SHOULD ATTEND.
FPANZ

The Fire Protection Association NZ is the primary organisation which represents the fire protection industry in New Zealand.

The Association liaises closely with relevant government departments and ministries and, has strong links with other building related associations. The Association has been operating now for over 40 years, and has grown significantly by representing more and more companies and organisations that work in the fire protection industry.

Our membership base includes businesses that are involved in fire alarm manufacturing, fire alarm services, fire protection sprinkler industry, evacuation consultants, fire equipment distributors, insurance companies, fire engineers, Fire and Emergency New Zealand and Territorial Authorities.

IFE

The Institution of Fire Engineers New Zealand Branch is part of an international learned body which was founded in 1918 and incorporated in New Zealand in 1924 with the following main objectives:

- To promote, encourage and improve the science and practice of fire engineering, fire prevention and fire extinction, and all operations and expedients connected therewith.
- To give an impulse to ideas likely to be useful in connection with, or in relation to such science and practice to the members of the Institution and community at large.

Membership of the IFE is drawn from a large cross section of the community, all with a common interest in fire engineering. Examples of organisations that members belong are Fire and Emergency NZ, Airport Rescue Fire Service, Rural Fire Service, the Insurance Industry, the Building Industry, the Fire Protection Industry, Fire Engineering Consultants and organisations tasked with emergency incident management.

SFPE

The New Zealand Chapter of the Society of Fire Protection Engineers is the primary organisation representing the fire engineering professionals of New Zealand.

SFPE NZ is the Institution of Professional Engineers New Zealand’s (IPENZ’s) Technical Interest Group for matters of Fire Engineering.

The purpose of the SFPE is to advance the science and practice of fire protection engineering and its allied fields, to maintain a high ethical standard among its members, to develop fire protection engineering guidelines and standards and to foster fire protection engineering education.

In accomplishing this purpose, SFPE NZ has engaged in activities that are educational, scientific, charitable or promote the practice of fire protection engineering since 1994.

SFPE NZ members include representatives of all sectors of the fire protection industry with an interest in the development, application and promotion of scientific and engineering methods to reduce the risks of unwanted fires.
WINSTONE WALLBOARDS (GIB)
Every day, passionate and dedicated professionals come together as an industry for the good of all New Zealanders. It’s something GIB® is proud to have been a trusted part of for over 90 years. We put our energy into delivering reliable products, systems and service, along with technical information and support you can trust. Having just launched GIB Weatherline® - a cost effective, high performance rigid air barrier solution, GIB® continues to innovate.

RYANFIRE
RYANFIRE is a New Zealand based Company whose management has over 35 years experience in the development, manufacture, testing and distribution of passive fire protection products. The Directors of the company have been involved in the supply of passive fire products to some of the world’s most iconic projects in Europe, Middle East and Australasia. This global experience places RYANFIRE in the unique position to advise its clients on the most cost effective solutions to meet the challenges of modern day construction methods. All products supplied by RYANFIRE are comprehensively tested at internationally accredited test laboratories and meet the national building code requirements. RYANFIRE has a nationwide team of specialist installers who understand the importance of correct installation methods and how critical that is to the performance of the system in a fire safety event. We believe if you specify RYANFIRE supplied products - you’re in safe hands!

ALAN WILSON INSURANCE BROKERS
Alan Wilson Insurance Brokers (AWIB) have been involved in the fire protection industry since 2004. We’re the only specialist fire protection insurance provider for Public & Products Liability & Professional Indemnity. Our product has been specifically designed for your industry and includes extensions that are normally excluded from general insurances. And yes, we can insure those in the industry who are involved with external combustible cladding. Our security is Lloyd’s of London and we are licensed insurance brokers in New Zealand. Call in and see us and say hello at stand 41 and see how we can help protect you and your business.
BRONZE SPONSORS

DULUX PROTECTIVE COATINGS

Protecting Australasia’s assets for more than 80 years, Dulux Protective Coatings provides long term protection against corrosion, chemical attack, graffiti defacement, abrasion and extremes of UV radiation on bridges, commercial buildings, educational and sporting facilities, manufacturing plants, mines, offshore structures, pipelines, power plants and water treatment. To deliver your vision, fully tintable finishes, brilliant metallic effects and micaceous iron oxide coatings offer both long-term durability and high visual impact.

KEY SPONSORS

ARGUS FIRE PROTECTION

– Coffee Cart Sponsorship

Argus Fire Protection is committed to providing the most advanced and intelligent systems and services to ensure life safety and property protection for some of New Zealand’s largest and most prestigious organisations.

We are a New Zealand owned and operated company with a well-established history and a reputation for service, quality and competitiveness that is second to none. We are known for providing fire protection solutions that suit their clients’ needs, not tailoring our clients’ needs to suit their products or services.

Argus Fire Protection is large enough to cope – but small enough to care.

Ministry of Business, Innovation and Employment – Building System Performance

– Lanyard Sponsorship
PERTRONIC INDUSTRIES

– FireNZ Cafeteria

As the leading supplier of fire alarm systems in NZ and employing over 100 staff, Pertronic prides itself on its ongoing commitment to research and development, as evidenced by the company’s comprehensive range of analogue addressable and conventional fire control panels and accessories.

R&D and production is based at the NZ-owned company’s Lower Hutt headquarters (currently undergoing expansion), with a sales/support office in Auckland and branches in five Australian states. Proud to be a regular sponsor of FireNZ, Pertronic will be showcasing the company’s latest developments in analogue addressable fire alarm technology.

VICTAULIC

– Gala Dinner

Since 1919, Victaulic has been the world’s leading producer of grooved mechanical couplings and pipe-joining systems. Used in the most demanding markets including commercial building and fire protection, oil and gas, chemical, mining and power, Victaulic innovative piping technologies and services put people to work faster while increasing safety, ensuring reliability and maximizing efficiency.

The company has 15 major manufacturing facilities, 28 branches worldwide and over 3,600 employees who speak 43 languages across the globe. Victaulic mechanical pipe joining systems can be found in projects across New Zealand including The Warehouse’s National Distribution Centre and the Americold storage facility at the Auckland International Airport.

As a leader in the industry, Victaulic continues to develop accredited training and certification programs for the industry’s latest trends and technologies.

WE WISH TO ACKNOWLEDGE AND THANK ALL OF THE SPONSORS FOR THIS YEAR’S CONFERENCE AND EXHIBITION
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<td>8.30am</td>
<td>Opening by MC</td>
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<td>8.35am - 8.50am</td>
<td>Opening address by FPA, IFE, SFPE Presidents</td>
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<td>8.50am - 9.00am</td>
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<tr>
<td>9.00am - 9.40am</td>
<td>Keynote Speaker Dr Claire Benson</td>
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<td>1.15pm - 1.45pm</td>
<td>Speakers Saskia Holditch &amp; Kevin Frank</td>
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<td>1.45pm - 2.10pm</td>
<td>Speakers Dr Klementina Gerova &amp; Jeremy Gall</td>
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<td>2.10pm - 2.50pm</td>
<td>Keynote Speaker TBA</td>
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<td>2.50pm - 3.15pm</td>
<td>Speaker Dr Jeremy Chang</td>
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<td>3.15pm - 4.00pm</td>
<td>AFTERNOON TEA</td>
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<td>4.00pm - 4.30pm</td>
<td>Speakers Dr Colleen Wade &amp; Prof Andy Buchanan</td>
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<td>4.30pm - 5.00pm</td>
<td>Speaker Akshat Malhotra</td>
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<tr>
<td>5.10pm - 5.20pm</td>
<td>Conference Close / Recap</td>
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# Programme

## Thursday 22nd September

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| 8.30am - 9.00am | **Speaker**
|               | George Hare                                                          |
| 9.00am - 9.30am | **Speaker**
|               | Dr Colleen Wade                                                     |
| 9.30am - 10.00am | **Speakers**
|               | Daniel Pau & Dr Dennis Pau                                          |
| 10.00am - 10.30am | **Speaker**
|               | TBA                                                                 |
| 10.30am - 11.15am | **Speaker**
|               | Prof Andy Buchanan                                                  |
| 11.15am - 11.45am | **Speaker**
|               | Christian van der Pump                                              |
| 12.10pm - 12.35pm | **Speaker**
|               | Saskia Holditch                                                     |
| 12.35pm - 1.35pm | **Speaker**
|               | Tania Morgun                                                         |
| 2.05pm - 2.35pm | **Speakers**
|               | Grant Haggett & James Firestone                                     |
| 2.35pm - 3.05pm | **Keynote Speaker:**
|               | TBA                                                                 |
| 3.05pm - 3.35pm | **Keynote Speaker:**
|               | TBA                                                                 |
| 3.35pm - 4.05pm | **Speaker:**
|               | Dr Jason Barden                                                     |
| 4.05pm - 4.25pm | **Keynote Speaker:**
|               | Dr Claire Benson                                                    |
| 4.25pm - 4.55pm | **Keynote Speaker:**
|               | Emma Sutcliffe                                                       |
| 4.55pm - 5.25pm | **Conference Close / Recap**                                        |
| 5.25pm - 5.30pm | **Drinks and Canapes**                                              |
| 6.30pm - 10.30pm | **GALA DINNER**                                                     |
|               | Close of Day Two                                                    |

**Speakers**

- **Lithium-Ion batteries - What's the problem?**
- **Calculating fire load and charring of timber in mass timber buildings**
- **Fire Safety in mass timber apartment buildings - case study and design sensitivity**
- **Smoke explosions, the unexpected and unexplained hazard on the fire ground**
- **Encapsulation for mass timber structures**
- **Historic performance of building codes in New Zealand and Australia**
- **Upcoming changes to C/AS2 in the ‘22 BC Update**
- **Environmental impacts excluded from current building design considerations**
- **TBA**
- **TBA**

**Keynote Speaker:**

- "Fire Drawings – "This is my picture!" - bringing a Fire Report to life."

**For the forum of fire protection, fire safety and fire engineering professionals**

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2022
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| **8.45am - 9.15am** | Speaker: Shane Wyatt  
Intumescent Encapsulation Coatings for Engineered Timber Products |
| **9.15am - 9.45am** | Speaker: Paul Ryan  
Smoke and Mirrors                                                   |
| **9.45am - 10.15am** | Speaker: Matthew Wright  
Understanding key components of product conformity - the foundation of compliance and safety objectives |
| **10.15am - 11.00am** | MORNING TEA                                                          |
| **11.00am - 12.10pm** | Discussion and Questions  
Run by MC - Brett de Hoedt                                           |
| **12.10am - 12.15pm** | Formal conference closing address  
Brett, Chris, Jason, Carol                                           |
| **12.15pm - 1.15pm** | LUNCH                                                                |
| **1.15pm**    | Tradeshow Closes                                                      |
| **1.15pm - 2.15pm** | Site Visit/Presentation - TBA                                        |
| **1.15pm - 2.15pm** | Workshop                                                             |
| **1.15pm - 2.15pm** | FPA Workshop  
Llewellen Mudrovcic, Rob Holland  
Safety In Fire Design                                                |
| **1.15pm - 2.15pm** | Workshop                                                             |
| **2.15pm - 2.45pm** | AFTERNOON TEA                                                        |
| **2.45pm - 4.15pm** | Workshop                                                             |
| **2.45pm - 4.15pm** | FPA Workshop  
Nicky Marshall  
Building Interface CoP & Workshop                                   |
| **2.45pm - 4.15pm** | Workshop                                                             |
| **4.15pm**    | Conference Closes                                                    |
Site Visit

*Further details to be announced soon*
Workshops

Further details to be announced soon
We wish to acknowledge and thank all of the Speakers for this year’s conference and exhibition.

**Keynote Speakers**

**Dr Claire Benson**  
*Safety & Compliance Officer – Fabrum Solutions Ltd*

Dr Claire M. Benson is a fire scientist and engineer working as a safety & compliance professional at Fabrum AFCryo. Prior to coming to NZ, as an academic Claire was actively involved in research and consultancy work for over 17 years, testing fuels and materials, and working to improve industrial, aviation and building fire hazards. She has a BSc (hons) degree in forensic science, and a PhD in chemical engineering specialising in high pressure oxygen system safety for aerospace.

She has conducted research for the London Fire Brigade, Sellafield Ltd and the UK Ministry of Defence, and collaborated with the British Standards Institution, the UK Health and Safety Executive, and numerous aerospace and industrial engineering companies.

She is also a Member of the Institute of Fire Engineers New Zealand branch council. Most recently her work has focused on hydrogen safety in a variety of industrial contexts, and her research interests include building fire safety, and fire investigation methods.

**Inspector John McDonough**  
*FRNSW, Australia*

John has been a professional firefighter for 35 years and is an Inspector with the Fire and Rescue NSW (FRNSW). He is currently an operational Duty Commander in charge of 14 stations in the busy inner west zone of Sydney. From 2003 to 2017, he was Team Leader of the Fire Operational Training Team. This team trains all firefighter and officers in structural fire behaviour and fire fighting techniques and tactics.

After returning from a study trip to Sweden and the UK in 2002, he was tasked with the introduction of modern fire behaviour based firefighting techniques and tactics specifically developed to make the role of firefighters safer and more effective. These skills were taught within a training program known globally as Compartment Fire Behaviour Training (CFBT). Over the last 17 years, this has developed into a standardised doctrine for how FRNSW firefighters act and behave at the task and tactical level. It is taught at all levels from recruit to Station Officer.

He has travelled extensively in order to study modern firefighting trends and benchmark against these for world’s best practice in developing training programs. He has delivered fire training courses in Germany, Croatia, Belgium, Poland, France, Canada, Hong Kong and the US. In Europe alone he has trained over 500 fire behaviour instructors. He is a founding member of the International Fire Instructors Workshop (IFIW).

He was a lead instructor on the Canadian ‘F.I.R.E – Firefighting, Instruction, Research and Engineering’ project, designed to reduce risks and impacts due to fire. This project trained instructors from a number of Canadian Provinces and developed a freely available online fire dynamics training program (2013 – 2018). He was also one of four international experts selected as a panel member for the ‘Study of the Impact of Fire Attack Utilizing Interior and Exterior Streams on Firefighter Safety and Occupant Survival’. This research was conducted by Underwriters Laboratories (Chicago 2014 - 2017).

He is a co-author of ‘3D Firefighting – Training, Tactics and Techniques’, which in published in the USA by FPP/IFSTA. In 2009 he was awarded Australia’s highest honour for Fire Officers, the Australian Fire Service Medal for his work in structural firefighting.
Emma Sutcliffe
Project Director – EV FireSafe

Emma Sutcliffe is a CFA volunteer & EV driver, charging her transport & life from an off-grid home. Emma co-founded an EV charging company in 2018, then went on to establish several other electric vehicle sector businesses focused on charging software, EV knowledge & the conversion of classic cars to electric.

Dr Jason Barden
Senior Fire Engineer – Beca

Jason is a Chartered Engineer with 7 years of work experience in the building sector. He holds a Master’s Degree in Physics from University College London and a PhD in low-speed aerodynamics from Cranfield University (UK). He is currently a Senior Fire Engineer with Beca based in the Auckland office with prior work experience in England and the Middle East.

A significant number of Jason’s projects involved in performance based designs involving CFD design, with a focus on complex egress and Mechanical Smoke Control Systems for both residential and commercial buildings.

Prof Andy Buchanan
Principal – PTL Structural Consultants

Dr Andy Buchanan is a structural engineer with special interests in fire safety of timber buildings. He is a Principal at PTL Structural Consultants, Christchurch, after retiring as a Professor in Civil Engineering at the University of Canterbury.

Andy has a B.E.(Honours) degree from the University of Canterbury (1970), a Masters degree from the University of California at Berkeley (1972), and a Ph.D from the University of British Columbia, Canada (1984).

He has wide experience with the timber industry, the fire engineering community, and the structural engineering profession.

Dr Jeremy Chang
Technical Director – Holmes Fire
Jeremy has 15 years of experience as a Fire Engineer with Holmes Fire after obtaining his PhD in Fire Engineering from the University of Canterbury. Jeremy specialises in structural fire engineering and has taught this topic at the University of Canterbury for several years and contributed to the New Zealand and international design guides. He also has a wealth of experience applying structural fire engineering principles to fire design.

Luke de Schot
Senior Fire Engineer – WSP
Luke is a Senior Fire Engineer from a multi-disciplinary background; with experience in mechanical, aerospace, and fire engineering. He has competence in the development and delivery of fire engineering solutions using a variety of compliance methodologies; Acceptable Solutions, Verification Method, and Alternative Solution using Performance Based Design principles. Luke has over nine years of experience conducting technical analyses and delivering complex engineering projects, often in highly regulated and constrained environments. He has a passion for solving problems with innovative technical solutions, has a diverse background and good engineering know-how. His experience in multiple engineering disciplines allows him to contribute to effective project solutions at many levels.

James Firestone
Fire Engineer – FENZ
James is the Wellington Fire & Emergency Team Leader located at FENZ HQ. He has worked in NZFS and FENZ for 22 years. Projects include:
- Development of the FENZ National Buildings visits process
- NZ Built Environment fire risk profile for the Department of the Prime Minister & Cabinet as part of the National Intelligence and Risk Coordination (included input into the Hazardous Substances and Natural Fire programs)
- FENZ Home Sprinkler System National Strategy for legislation enablement
- Water tank strategy for fire fighting water supplies for rural fire risk
- NZS Standards, Risk Management, Fire Sprinkler Systems for houses, NZFS Fire Fighting Water Supplies CoP

Prof Charles Fleischmann
Professor – University of Canterbury
Professor Fleischman has been a part of the University of Canterbury Fire Engineer program since it started in 1994. He regularly teaches Fire Dynamics and Advanced Fire Dynamics to the masters students. His research interest include in fire dynamics, compartment fire modeling, performance based codes, backdrafts, and smoke explosions.

With over 100 publications, he is an accomplished presenter and is regularly invited overseas to teach and present his research. In 2019, he spent 3 months at the Underwriters Laboratory Firefighter Safety Research Institute as a visiting scholar researching smoke explosions and teaching fire dynamics.
Kevin Frank
Senior Fire Research Engineer – BRANZ Ltd

Kevin has been a fire research engineer at BRANZ since 2016. Kevin has a BSc and MSc in Mechanical Engineering from the University of Alberta in Canada and a PhD in Fire Engineering from the University of Canterbury. Kevin’s research interests include the performance and effectiveness of fire safety systems (including facades) and risk-informed fire safety design methods.

Prior to moving to New Zealand, Kevin worked as a forensic engineer in Canada primarily doing fire investigations.

WEDNESDAY
1.15pm – 1.45pm

Jeremy Gall
Senior Fire Engineer – Beca

Jeremy is a senior fire engineer at Beca in Auckland with five years’ experience in fire engineering, including two years with the Fire Engineering Unit at Fire and Emergency New Zealand reviewing designs for buildings across New Zealand. He is involved in the fire engineering design for construction projects across a range of sectors, including commercial, residential, healthcare, education, industrial and infrastructure projects.

Jeremy is currently involved in the fire engineering design for the International Terminal integration works at Auckland Airport, and large development projects at the University of Auckland.

WEDNESDAY
1.45pm – 2.10pm

Dr Klementina Gerova
Senior Fire Engineer – Beca

Klementina is a Chartered Engineer and active member of the Institution of Fire Engineers (IFE) and Society of Fire Protection Engineers (SFPE). She is a contributing member of British Standards technical committees and involved with NFPA technical groups.

As a member of the Smoke Control Association Klementina has co-authored guidance on CFD for smoke control. Klementina holds a Master’s degree in Computational Fluid Dynamics and a PhD in Applied Aerodynamics from Cranfield University (UK).

Before joining the Fire Safety Industry, her past work experience includes work for Aircraft Research Association (ARA), and Airbus. Current Fire Safety work involvement includes MEP experience in the field of smoke control systems, performance-based fire safety design and AHJ/warranty verification work. She is currently a Senior Fire Engineer with Beca based in the Auckland office.

WEDNESDAY
1.45pm – 2.10pm

Biswaetheep Ghosh
Fire & Life Safety Manager – WSP

Biswaetheep (Deep) is the Manager Fire & Life Safety for WSP NZ and is based in the Auckland office. He is responsible for ensuring each project is resourced with the most appropriate engineers and that the level of client services is consistently to a high level.

He has a clear focus on client satisfaction and serving specific client needs by tailoring a fire engineering strategy to the aims and constraints of the project. Deep adds real value to a project by facilitating departures from prescriptive codes allowing architectural freedom and cost savings in design.

His expertise includes facilitating fire engineering designs in accordance with the Acceptable Solutions, Verification Method and alternative design approaches to demonstrate compliance. He has experience and good working relationships with the New Zealand Fire Service, regulatory reviewers and building certifying authorities to develop a fire engineered solution that is independently verified, acceptable to all stakeholders and delivered through the regulatory process in a timely manner to avoid delays to the project and provide a satisfactory outcome for the client.

FRIDAY
1.15pm – 2.15pm
Grant Haggett  
Fire Safety Specialist – Objective Corporation Solutions NZ Ltd

Grant has a NZ Diploma in Architectural Technology with an interest in Compliance Schedules, and has worked in fire safety and accessibility design with 21 years experience working with Acceptable Solutions to comply with NZBC C1-6, D1, and F6-8. Works in coordination with designers, owners and contractors to provide common sense solutions, providing preliminary concepts updated as designs evolve from drawing board to completed work. He has completed more than 100 fire reports for MoE on school sites and 1000s of commercial buildings throughout NZ.

George Hare  
Fire Research Engineer – BRANZ Ltd

After arriving in New Zealand in 2006, George has spent more than 5 years as a volunteer fire-fighter in both rural and urban brigades. Moving to the Wellington region in 2016, George joined the Fire Testing team in the BRANZ Consultancy Services group, providing independent fire testing and assessments of products, primarily to AS 1530.4.

In 2019 George moved across to the Industry Research side of BRANZ, joining the Better Buildings Research team, with an initial focus on risk-informed fire engineering design.

Recent work includes fire-safe use of mass timber, looking at both fire resistance and flame spread. Interests include façade fire safety, lithium-ion battery fire hazards (he is a member of the Alternative and Renewable Energy Technologies sub-group in AFAC) and he is currently beginning research into potential unintended consequences of high-performance construction.

Saskia Holditch  
Fire Engineer – MBIE BSP

Saskia Holditch is a fire engineer with experience in both industry and government administration. She worked in the fire safety industry in the Caribbean and Ontario before moving to New Zealand. She holds a Bachelor’s Degrees in Engineering and in Public Safety Administration, as well as a post-graduate degree as a “Hoofdbrandmeester” (fire and emergency manager).

Saskia been a part of the Ministry of Business, Innovation & Employment (MBIE)’s Building Performance & Engineering team for 3 years, working on the New Zealand Building Code and its compliance documents. She is a past and current committee member for several New Zealand fire safety systems’ standards, as well as the SFPE Standards Committee on Performance-Based Design.

Frank Kang  
Technical Support & Development Engineer – Winstone Wallboards Ltd

Frank Kang is a Technical Support & Development Engineer for Winstone Wallboards Ltd, based in Christchurch. He is also contracted to PTL Structural Consultants to work part time as a Senior Fire Engineer. He enjoys using his ten years of experience in technical field service, and fire and structural engineering consultancy to work on research and development projects, assist customers with technical enquiries, and offer product and system support.

His educational journey started with a Bachelor of Civil Engineering from the University of Auckland, which was awarded in 2011. He also completed a Master of Engineering in Fire Engineering at the University of Canterbury in 2021. His thesis focused on measuring the performance of load-bearing timber-framed gypsum plasterboard walls subjected to two-sided fire exposure.
Akshat Malhotra  
**Associate – Mechanical Engineering, Beca**

Akshat is an Associate Mechanical Engineer at Beca, and has 7 years of professional experience working as a mechanical building services engineer and managing delivery of multi-disciplinary projects. He leads teams delivering large commercial building projects in the Auckland region - this includes projects such as the University of Auckland Student Accommodation, AUT Engineering School, SkyCity Convention Centre & Grand Hotel and Hotel Grand Chancellor buildings.

In the last 3 years, Akshat has been leading Beca’s Passive Fire delivery and team on projects all across the country. Akshat also has a deep understanding and familiarity with the non-structural elements for the seismic design and construction. Coupling building services, passive fire and seismic knowledge – he is in a unique position to understand and coordinate holistic solutions.

Akshat is a Chartered Professional Mechanical Engineer with Engineering New Zealand and the Chartered Institute of Building Services Engineers. Akshat was awarded the Engineering New Zealand Outstanding Emerging Professional Award in the Auckland region, and was one of the finalists for the prestigious Engineering New Zealand Young Engineer of the Year award in 2021.

He is a Young Professional Advisor and part of the for New Zealand Institute of Buildings and Association of Consulting Engineers New Zealand organisations.

Tania Morgun  
**Senior Fire Engineer – MBIE BSP**

Tania has an extensive knowledge of the fire engineering, building regulations and consenting requirements in New Zealand. Her career started with a Bachelor of Engineering in Building Services with Honor in the Ukraine in 1988. She worked as a building services engineer until she relocated to New Zealand in 1995, where she obtained a Master’s Degree in Fire Engineering from the University of Canterbury.

Tania is a CPEng fire engineer, and practice area assessor for Engineering New Zealand. Tania’s background in engineering and regulatory sector provides a unique balance between technical expertise and knowledge of regulatory requirements.

In 2020 Tania joined MBIE as a Senior Fire Engineer. Her aspirations are to encourage higher standards of performance for the fire safety in New Zealand. She aims to continuously improve performance requirements through regular Building Code updates, and to provide guidance that support industry and consumers.

Daniel Pau  
**Fire Engineering Leader – Cosgroves**

Daniel is a Fire Engineering Leader at Cosgroves Auckland. He has a total of 6 years experience as a fire engineering consultant.

Daniel holds a Masters of Engineering in Fire Engineering (MEFireE) and is currently a Chartered Professional Engineer (Fire) and a Chartered Member of Engineering New Zealand.
Dr Dennis Pau  
Lecturer – University of Canterbury  

Dennis Pau is a Fire Engineering Lecturer at University of Canterbury and a Chartered Professional Engineer. He graduated from UC with Ph.D. in Fire Engineering in 2013. 

Dennis currently teaches fire engineering courses and carries out fire engineering research at UC while continues to engage closely with the fire engineering industry. 

His research interests include burning behavior of fuels, fire spread behavior, and fire safety of sustainable building design.

THURSDAY  
9.30am – 10.00am

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Paul Ryan  
Managing Director – RyanFire Products Ltd  

Paul has been involved in the passive fire protection industry for nearly 40 years, previous owner of Firetherm Intumescent and Insulation Supplies Ltd in the UK, Firetherm Middle East in the UAE and Firetherm NZ in New Zealand, owner of Ryanfire Products Ltd, a leading supplier and manufacture of passive fire protection products, previous FPANZ Passive Fire Protection Special Interest Group Chair and currently Vice President of FPANZ.

FRIDAY  
9.15am – 9.45am

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Christian van der Pump  
PhD Candidate – University of Canterbury  

Canterbury university student completing a PhD into the economic characteristics of the fire engineering market, looking at the various forms of market failure that naturally occur within fire engineering, how good legislation plays a valuable role in correcting for these failures, and how bad legislation creates artificial market failures. Supervised by the Civil Engineering Department and the Economics Department.

THURSDAY  
11.45am – 12.10am

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Dr Colleen Wade  
Director – Fire Research Group  

Dr Colleen Wade is a fire research specialist with interests in fire modeling, flame spread, risk analysis and fire dynamics in mass timber enclosures. 

She is a Director at Fire Research Group based in Hawkes Bay. Colleen has a PhD in Fire Engineering (University of Canterbury), a MS in Fire Protection Engineering (WPI, USA) and a BBSc (Honours) from Victoria University. 

She is convenor of WG6 (design fires) in ISO Technical Committee 92 and a Fellow of SFPE. She has more than 30 years experience as a fire researcher and is the developer of the fire zone model B-RISK. Her PhD research was modeling post flashover fires in mass timber enclosures. 

She is a co-author of the global design guide Fire Safe Use of Wood in Buildings (2022).

WEDNESDAY  
4.00pm – 4.30pm  
THURSDAY  
9.00am – 9.30am

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THE FORUM OF FIRE PROTECTION, FIRE SAFETY AND FIRE ENGINEERING PROFESSIONALS
Matthew Wright
Built Environment Manager, Australasia – UL

Matthew Wright is UL’s Built Environment Manager for Australasia - a position created by UL to spearhead development of UL service offerings tailored to Australia and New Zealand. With a passion for delivering safety in the built environment, Matthew has held roles implementing and developing requirements and good practice guidance across all building types. This has included collaborating with national and international stakeholders to build relationships and improve outcomes.

As an influential industry advocate, Matthew has achieved meaningful change in legislation, codes and Standards, including strategic generational change to the fire safety strategies of national construction codes, as well as frameworks for practitioner competency. He has worked in local government and private industry building enforcement and approval, as well as roles with the fire brigade and Australia’s peak fire protection association.

Matthew’s current role is focused on championing product safety and certification solutions and providing a conduit to contemporary research responding to emerging trends and hazards, building on UL’s global reputation for integrity, safety science and thought leadership.

Matthew holds a Bachelors Degree in Building Surveying, a Graduate Certificate in Performance Based Building and Fire Codes and a Graduate Diploma in Fire Safety and Risk Engineering. By Ministerial appointment Matthew also served two terms as a member on the State of Victoria’s Building Appeals Board and was Fire Protection Association Australia’s inaugural Building Codes Committee representative for the Australian Building Codes Board. Matthew was appointed as one of 5 members of an international jury for the Council for Tall Buildings and Habitat’s “Fire and Risk Engineering Award” and presents regularly at industry events.

Shane Wyatt
Technical Director – Tech Coatings NZ Ltd

Shane Wyatt, Co-Founder and Technical Director of Tech Coatings. Shane is committed to contribute to the ongoing trans-formative changes of the Passive Fire Industry in New Zealand. As the Chair person (member) of Coatings Working Group, appointed by FPANZ, he is leading the team of experts to compile the industry Code of Practice for the specification and application of Intumescent Coatings on structural steel. Thanks to this initiative, Shane’s main aspiration to restore the trust in safe building practices in New Zealand is promising to be an industry reality one day.

One of Shane’s main responsibilities in his role as a Technical Director of Tech Coatings is overseeing company’s extensive fire-testing regime with CSIRO, BRANZ and most recently with Fire TS Laboratory. Through this extensive testing Shane has a unique understanding of intumescent coatings and is currently focusing on providing tailored solutions to the construction industry in New Zealand.
Llewellen Mudrovcic  
Regional Sprinkler Service Manager – Argus Fire Systems Service Ltd

Llewellen (Mud) has over 20 years extensive work experience in the fire industry starting his career in London England in 1999. He has developed expertise in performance based Fire Engineering from working on a wide range of building types, including large industrial projects, alterations to operational shopping centres, high-rise apartment buildings, large warehouses and office buildings.

He is a well-rounded and extremely knowledgeable in the sprinkler industry and currently works as the Sprinkler Manager at Argus Fire. Llewellen (Mud) has managed a number of high profile projects including:
- Auckland’s University’s new Science Centre Building 302
- Auckland’s 5 star Langham Hotel including sprinklers, hydrants and fire alarm system
- Sky City, Auckland Convention Centre including sprinklers, hydrants and fire alarm system
- Auckland Natural History Museum major upgrade.

Rob Holland  
Principal – RJ Nelligan & Associates

Rob is a Chartered Professional Fire Engineer, working in the fire safety industry for the last 15 years across a wide range of residential, commercial and industrial projects.

For the last 8 years Rob has also consulted most of the country’s leading installers and certifiers of height safety systems. It is from these two lines of work that Rob had developed a passion for safety in design and it is why he joined the New Zealand Society of Safety Engineering (an Engineering NZ technical interest group) of which he is Treasurer.

One of the main missions of the NZSSE is to promote the safety in design message as well enhance the passing of ideas between various disciplines and industry sectors so that plant, machinery and buildings are designed to be safer for everyone.
For more accommodation options and details of local attractions and activities in Christchurch visit [https://www.christchurchnz.com/about-us](https://www.christchurchnz.com/about-us)

**RYDGES LATIMER**
30 Latimer Square,
Christchurch Central
T +64 3 379 6760 or 0800 176 176
www.rydges.com/accommodation/new-zealand/latimer-christchurch/

**ONLINE BOOKING DIRECTIONS**
- Visit www.rydges.com
- Select *Rydges Latimer Christchurch*, enter your dates* and number of people and click ‘GO’
- Click ‘I have a code’
- In the ‘Corporate ID’ field enter your booking code: FIRENZ
- Click ‘UPDATE’
- Your special rates will appear on the rates screen

*These rates are available for stays between 20 September 2022 and 24 September 2022 (inclusive).

**CROWNE PLAZA CHRISTCHURCH**
764 Colombo Street
Christchurch 8011
T +64 3 741 2800
Reservations.christchurch@ihg.com
www.crowneplaza.com

Crowne Plaza Christchurch is a 4.5 star hotel conveniently located in the vibrant heart of Christchurch City, in a privilege location opposite Te Pae Convention Centre. The hotel combines what’s really important – location, comfort, style, technology and service.
- King Standard Room $205.00 per night
- Discounted Breakfast $30.00

**ONLINE BOOKING DIRECTIONS**
- Follow the booking link and enter your booking dates and the booking code will auto-populate.

*These rates are available for stays between 20 September 2022 and 24 September 2022 (inclusive).

**NOVOTEL & IBIS CATHEDRAL SQUARE**
52 Cathedral Square
Christchurch 8011
T +64 3 372 2102
Reservations.christchurch@ihg.com
http://www.all.accor.com

We are pleased to offer a preferred accommodation discount of 15% off* the flexible rate at Novotel Christchurch and Ibis Christchurch.
- Novotel - Breakfast NZD$28.00 per person
- Ibis – Breakfast NZD$24.00 per person.

**ONLINE BOOKING DIRECTIONS**
- Follow the booking link and enter your booking dates and the booking code will auto-populate.

*These rates are available for stays between 20 September 2022 and 24 September 2022 (inclusive). *Please note rates are valid until 14 days prior to arrival. Rates are subject to availability. All reservations must be guaranteed with a credit card valid at the date of the start of your stay, unless otherwise specified. No cancellations charge applies prior to 18:00 (local time) the day prior to arrival. Beyond that time, the first night will be charged.

**DISTINCTION HOTEL CHRISTCHURCH**
14 Cathedral Square
Christchurch 8011
T +64 3 377 7000
reservations@distinctionchristchurch.co.nz
www.distinctionhotelschristchurch.co.nz

Distinction Christchurch Hotel is pleased to extend special accommodation rates to those delegates attending the Fire NZ Conference. For more information, [click here](https://www.distinctionhotelschristchurch.co.nz/FIRENZNZ2022)

**ONLINE BOOKING DIRECTIONS**
- Follow the booking link
  www.distinctionhotelschristchurch.co.nz/FIRENZNZ2022
- Choose your accommodation option and follow the instructions on screen.

*These rates are available for stays between 20 September 2022 and 24 September 2022 (inclusive). See booking link for more terms & conditions.

www.firenz.org
### PURCHASER DETAILS (please complete all fields)

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### REGISTRATION FEES excl. GST

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<th>Non Member excl. GST</th>
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<tr>
<td><strong>Full Registration:</strong> includes attendance and catering for the full 3 days including conference dinner, workshops and site visit. <em>Cost will be $999 for registrations after 31 July 2022</em>*</td>
<td>*<em>$999 EARLY BIRD SPECIAL!</em> <strong>Cost will be $999 for registrations after 31 July 2022</strong></td>
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**Conference Dinner** *(No Membership discount applies to dinner tickets)*

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<td>$156</td>
<td>$1200</td>
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Note: The member price applies to FPANZ, IFE and SFPE USA only.

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<th>FPANZ Member</th>
<th>IFE Member</th>
<th>SFPE Member</th>
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**Please note: Registrations must be received no later than Friday 16th September 2022**

### Attendee 1: (please complete all fields)

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<th>DAY 1 Please tick if attending. Tick attendee preferences</th>
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<td>DAY 2 Please tick if attending.  Conference Dinner</td>
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<tr>
<td></td>
<td>DAY 3 Please tick if attending.  Site Visit: X</td>
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**Send Completed Registration form to:**

Email: info@fpanz.org
Ph: 0800 037 269

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<th>Visa</th>
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<td>Cardholder’s Signature:</td>
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### CANCELLATION POLICY:

All cancellations must be made in writing to FPANZ. A cancellation fee of 25% will be charged for cancellations until 30 days prior to the event. No refund will be offered for cancellations 30 days prior to the conference. A substitute may attend in place of a registered delegate.

### PAYMENT:

A tax invoice will be provided on receipt of the registration form. Delegates can also choose to pay by credit card, using either Visa or Mastercard. A 4.5% surcharge applies to all credit card transactions.

### COVID-19:

Due to the possibility of ongoing uncertainty around government regulations on mass gatherings in response to COVID-19 at any particular time or region, the organisers may determine to postpone the event. You acknowledge and accept this possibility and accept that any postponement will entitle you to request a refund or transfer your registration to a future date.
## Attendee 2: (please complete all fields)

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<td>Dietary Requirements (if applicable):</td>
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- [ ] **DAY 1** Please tick if attending. Tick attendee preferences
- [ ] **DAY 2** Please tick if attending.  [ ] Conference Dinner
- [ ] **DAY 3** Please tick if attending.  [ ] Site Visit: X

## Attendee 3: (please complete all fields)

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<td>Dietary Requirements (if applicable):</td>
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- [ ] **DAY 1** Please tick if attending. Tick attendee preferences
- [ ] **DAY 2** Please tick if attending.  [ ] Conference Dinner
- [ ] **DAY 3** Please tick if attending.  [ ] Site Visit: X

## Attendee 4: (please complete all fields)

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<td>Dietary Requirements (if applicable):</td>
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- [ ] **DAY 1** Please tick if attending. Tick attendee preferences
- [ ] **DAY 2** Please tick if attending.  [ ] Conference Dinner
- [ ] **DAY 3** Please tick if attending.  [ ] Site Visit: X

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**Send Completed Registration form to:**

Email: info@fpanz.org
Ph: 0800 037 269

*Please note: Registrations must be received no later than Friday 16th September 2022*
This year the FireNZ committee wish to initiate a number of annual awards that become recognised as being representative of the entire fire industry and create a legacy that becomes an aspiration for achievement.

We are delighted to announce that nominations are now sought for several awards to be presented at this year's FIRENZ Gala Dinner, 23rd September being held at Te Pae, Christchurch.

For more information please visit www.firenz.org

“The fire industry awards represent the best of the fire industry and recognise those that contribute to achieving a safer New Zealand”
Outstanding Engineering Achievement
The FireNZ award aims to recognise contributions made by the candidate to the promotion of the engineering profession. This could be in recognition of:

- Significant contributions to the advancement of the professional recognition of the fire protection engineer.
- A fire design that represents a novel, artistic and imaginative solution to a problem
- A project that has delivered enormous value and impact to either a community, country or organisation
- An outstanding collaboration between an engineering organisation and one or more other organisations, that results in a better project outcome or has a significant positive impact on a workforce, customers or community
- A breathtakingly clever engineering project or product launched or completed in the past two years that has solved an age-old problem or shifted from the ‘always done this way’ mentality
- An individual or team for inspiring engineering education or a significant initiative. It may include student or peer support, teaching, research or other significant initiatives that result in an enduring positive impact

Lifetime Achievement Award
The Lifetime achievement / outstanding contribution award is a prestigious recognition of life-long contributions to and career achievements in the field of fire safety in New Zealand.

Young Professionals Award
The Young Professionals award is for a young person who has demonstrated outstanding leadership qualities, excellence in their career, academic excellence and/or has provided a contribution to the fire safety community.

Candidates must be within five years from completion of their most recent qualification at the time of nomination or start of employment in the fire industry. The maximum age of the candidate is 35 years at the date of the award.

Competenz Learner of the Year Award
The Competenz Learner of the Year Award celebrates excellence among learners and highlights trades careers in the fire protection industry. The Award acknowledges learners whose skills, drive, commitment and work ethic has helped them to achieve outstanding outcomes. It’s open to anyone who has completed a Level 3 or 4 programme through Competenz between 1 January 2021 and 31 May 2022. Entry details will be available shortly and will be advertised through Competenz.

NOMINATION PROCESS
A nomination from any person or organisation within the fire industry will be accepted and membership of the three FireNZ organisations is not required.
Self-nominations are not accepted

FIRENZ AWARDING COMMITTEE
The nominations will be considered and recipients chosen by the FireNZ Awarding Committee which is made up of representatives of the FPA, SFPE and IFE.
The judges decisions are final and no correspondence will be entered into.

21-23 SEPTEMBER 2022
TE PAE CONVENTION CENTRE, CHRISTCHURCH
NEW ZEALAND

All award nominations can be submitted to info@fpanz.org
CONFERENCE & EXHIBITION
WWW.FIRENZ.ORG

FIRENZ CONFERENCE ORGANISER
c/- Fire Protection Association NZ | Private Box 302-372, North Harbour, Auckland
Ph: 0800 037 269 | Email: info@fpanz.org

THE FORUM OF FIRE PROTECTION, FIRE SAFETY AND FIRE ENGINEERING PROFESSIONALS