We are excited to have opened our new office and training facility in Sydney, and we look forward to welcoming you. Find our gift inside your delegate bag!

Come and check out our new office and training facility

For all Passive House building needs, talk to Jesse Clarke and Sean Maxwell at the Pro Clima stand near the main entry.

Pro Clima Australia Pty Ltd
www.proclima.com.au
P 1800 PRO CLIMA (776 254)
E welcome@proclima.com.au
Level 3, 15–21 Doody St, Alexandria, Sydney NSW 2015
It's an exciting time to be involved with Passive House.

There are a growing number of certified Passive House projects: PHINZ is reporting 20 completed certified PH buildings and Australia has 12, with a strong pipeline of projects being developed.

Plus we’re in a region where there’s growing interest in Passive House. Attendees at the International Passive House Conference in Munich in March 2018 noted a strategic orientation toward China, with 25% of delegates coming from China, and the next conference to be held in China – the first time the conference will be anywhere outside central Europe.

And the cost premium to deliver Passive House buildings is coming down, particularly where modular and prefabricated construction techniques are used. Passive House Institute Conference speakers reported cost efficiencies for large PH projects – some are cost neutral relative to conventional construction and others reported a modest 2%-5% capital cost premium for delivered PH projects.

The growth and declining cost of Passive House are great reasons to be excited.

Added to that is the increasing industry interest in Passive House, evidenced through greater participation in education and training events.

Overall, there’s been great progress since we met last time in March 2017 in Christchurch, and with the fantastic range of topics on the program for this years’ South Pacific Passive House Conference, I hope you too can feel the tremendous momentum building in the Passive House movement in our region.

Chris Nunn
Chair – Australian Passive House Association
Speakers

KEYNOTES

Dragos Arnautu
Passive House Institute (Darmstadt)

Dragoș Arnăutu is an architect at the Passive House Institute in Darmstadt. He joined the Passive House team in 2012, working in the field of building consultancy and certification. He previously studied architecture at the Technical University of Cluj-Napoca, Romania, and was awarded a Deutsche Bundesstiftung Umwelt Internship at the Passive House Institute. In addition to building consultancy and certification, Dragoș is currently involved in the coordination and development of designPH and the Online Certification Platform. Dragoș regularly gives lectures on energy efficient building. He teaches responsible architecture and believes the Passive House movement is on the right path towards achieving sustainability.

Dr Rob Brimblecombe
Manager of Engineering and Sustainability, Monash University

Rob is a practicing building scientist, who manages the Engineering and Sustainability team at Monash University (Australia), overseeing the design and delivery of campus buildings and the University’s sustainability program. He lectures in energy efficiency and renewables, and is co-author (with Kara Rosemeier) of the book ‘Positive Energy Homes: Passive Houses for Better Living’, a practical guide to Passive Housing.
Karen Tam Wu
British Columbia Director (acting), Pembina Institute
Karen is the acting B.C. director at the Pembina Institute, Canada’s leading clean energy think-tank. She is also the director of the institute’s Buildings and Urban Solutions Program, and a member of the B.C. government’s Climate Solutions and Clean Growth Advisory Council. Through cross-sectoral consultation and engagement, Karen leads initiatives to advance clean energy solutions and improve energy efficiency in B.C. and across Canada. Previously, Karen worked with First Nations, communities, government, and industry on important conservation initiatives in B.C. A registered professional forester, Karen worked with forest companies worldwide for over a decade developing and implementing sustainable forest management systems.

Rachael McGinley
Senior Manager – Strategy and Development, Green Building Council of Australia
Rachael has worked at the Green Building Council of Australia (GBCA) for over five years and is committed to the GBCA’s mission of creating buildings and cities that are healthy, livable, productive, resilient and sustainable. Her current projects include developing Green Star’s future focus and the GBCA’s strategy for a more sustainable housing sector. Rachael joined GBCA as a Green Star Technical Manager and helped produce the rating tool Green Star – Design & as Built. She has over 10 years’ experience as a chartered structural engineer in the UK and Australia and has a keen interest in sustainability and heritage buildings. She holds a Master of Engineering degree from Oxford University, and MSc from University College London.
Baden Brown
Director, eHaus Builders and Supplies

Baden Brown is a licensed building practitioner and registered master builder and for twenty-one years, together with Glenda Brown, they successfully ran a construction building company. Nine years ago, ecoBuild Developments Ltd commenced and with fellow directors Jon Iliffe and Glenda Brown, the brand eHaus was developed, delivering design and build passive houses in New Zealand. eHaus now covers fourteen regions and is one of the country’s leaders in design and construction for Passive Housing in New Zealand. Baden became a Passive House designer in 2010 and currently holds a Passive House tradesperson qualification. His area of expertise includes project management, licensee engagement and he also manages national supply agreements.

Daniel Kress
Director, Smart Plus Homes

Daniel started his career as a certified carpenter in Germany, then working in Ireland on the biggest residential modular project in the world at that time. After ten years in the building industry, he commenced studies in civil engineering and worked as a researcher for the European Union in sustainable building. He finished his German and Canadian master’s degrees with the thesis: ‘Passive House Design for Perth, Western Australia’. For two years he was employed by ISMART Building Group to manage the technical support and research and development. Currently, Daniel has his own business, Smart Plus Homes, which focuses on education and consultancy for healthy and comfortable homes that are energy efficient and sustainable.

Elrond Burrell
Director, VIA Architecture & PHINZ Board Member

Elrond Burrell, director of VIA architecture, author of the blog ‘Passivhaus in Plain English & More’ and board member of Passive House Institute New Zealand (PHINZ) is a registered Architect (UK) and certified Passive House designer. He has been designing and consulting on Passive House projects in the UK, North America, Australia and New Zealand for nearly a decade. His experience spans from single family homes to large commercial and housing projects, including seminal Passive House schools and apartment buildings in the UK. He is passionate about improving people’s quality of life, health and environmental impact by designing beautiful, sustainable, high-performance architecture.
Joel Seagren
National MVHR Manager at Fantech Australia and Australian Passive House Association Director

Joel Seagren is National MVHR Manager at Fantech Australia and serves on the Board of the Australian Passive House Association. He works with Passive House consultants, mechanical consultants and contractors to design, deliver, and educate on high performance ventilation solutions for buildings. Joel has a Mech. Engineering Degree, Masters of Science (Sustainable Buildings), and a passion for helping deliver comfortable, healthy, and energy efficient spaces in high performance buildings.

Kia Mahmoudian
Mechanical Engineer, Aurecon Group

Kia is a mechanical engineer with more than ten years extensive experience both locally and internationally, with a solid background in building services and HVAC, across wide range of building types. As an experienced consulting engineer, he is passionate about delivering the best solutions, taking into consideration energy sustainability, and low energy and high-performance building criteria. Drawing on a range of experience, including building services consultancy, supervision of building construction and contractor management, he is experienced in using building thermal modeling software such as IES and HAP for building load calculation and dynamic simulation.

Sean Maxwell
Technical Manager, Pro Clima Australia

As Technical Manager of Pro Clima Australia, member of ASHRAE and deputy-chair of the AIRAH (the Australian Institute of Refrigeration, Air Conditioning and Heating) Special Technical Group in Building Physics, Sean’s driving passion is the organisation and elevation of Australia and New Zealand’s community of building diagnostic professionals. Sean is an Australia and New Zealand partner of the international Air Tightness Testing and Measurement Association (ATTMA) and is a national authority on the practice of building airtightness testing. He has been repeatedly consulted for advice on the addition of airtightness testing to the National Construction Code of Australia, and has led training on the fundamentals of building science through an Australian government initiative.
Oliver Steele
Steele Associates
As head of the Steele Associates group, Oliver brings a unique combination of skills to deliver highly sustainable design through to exemplar quality construction. Working from the belief that eco-friendly design isn’t a nice-to-have, but essential part of good architecture, Oliver advocates for a better quality of life and has a stunning portfolio of high performance projects. As architects, builders and developers, Steele Associates take control of the delivery of premium quality, without compromise on performance.

Kara Rosemeier (dinner speaker)
Chair of Passive House Institute New Zealand
Kara Rosemeier is the chair of the Passive House Institute New Zealand, leads the Passive House Academy New Zealand and teaches Building Science in Auckland. Previously, she has been the director of an engineering consultancy, advised federal state government in Germany on matters of building energy efficiency, supported private clients on Passive House design, and supervised hundreds of retrofit projects. Her book, ‘Positive Energy Homes: Creating Passive Houses for Better Living’, co-authored with Dr Robin Brimblecombe, was published in May 2017 by CSIRO Publishing.

Matthew Cutler-Welsh
Pro Clima HUB & Education Manager & PHINZ Board Member
Matthew’s mission is to inspire people to make a better place to live. He is currently the facility and education manager at the Pro Clima HUB – Centre for Advanced Building Systems. Matthew has 10 years of experience leading residential energy efficiency projects, including nearly four years as technical manager for Homestar at the New Zealand Green Building Council. In 2016 he joined the Board of the Passive House Institute New Zealand. Prior to training as an engineer, Matthew was an Outward-Bound instructor in New Zealand and the US.
Clare Parry  
**Director, Grün Consulting**

After stumbling on Passivhaus through a curiosity for international best practice, Clare has found her career path significantly realigned after early training as a mechanical engineer. In 2013, Clare joined David Power and Chris Begert to found the Australian Passive House Association and became Founding Chair. In 2015, in response to demand for Passivhaus services, she founded Grün Consulting and found an industry hungry for change. With nearly 60 Passivhaus projects now underway, the company is now leading the change in the built environment and is using a strong research focus to influence widespread uptake. Clare is a Certified Passivhaus Designer and Trainer, and is one of just three Building Certifiers in the ANZ region.

Cameron Munro  
**Principal, CDM Research**

Cameron has a PhD in aircraft aerodynamics and works as a transport planner specialising in cycling and walking. He has an interest in sustainability, energy efficiency and building physics. His main focus is in the verification of building performance using bespoke sensor electronics and software to provide high quality, cost effective and objective verification of building energy requirements.

David Halford  
**Passive House Designer, Sustainable Building Design**

David Halford has wide ranging experience as an architect for four decades in the UK and as a certified Passive House designer in Australia. He has three occupied Passivhaus projects including the first Passivhaus Plus buildings outside Europe, half a dozen more due for completion this year (including the first Passivhaus school building in the southern hemisphere) and another half dozen in consultancy stages for builders, schools and private clients.
Nick Mulvany
Associate Sustainability Consultant, Umow Lai

Nick is an associate sustainability consultant with Umow Lai’s specialist sustainability division. He is a building services/ESD consultant with technical foundations in mechanical & HVAC engineering, sustainable building principles and technologies, rating & benchmarking systems, advanced analysis tools and regulatory compliance requirements. Nick has a Master of International Urban and Environmental Management and worked in South Africa assisting the Green Building Council of South Africa. Nick is also a certified Passive House consultant (Passivhaus), a qualification gained from the Passive House Institute, Germany. Nick’s knowledge extends across both the fundamental building physics, which are core to the Passive House standard, and the critical integration with contemporary building services within non-residential buildings. Nick has also developed Umow Lai’s capacity with regards to the detailed analysis and design of renewable energy systems, specifically PV and energy storage.

Jesse Clarke
Building Science Manager, Pro Clima Australia

Currently working in a technical lead role for Pro Clima, servicing Australia and New Zealand, Jesse is a building scientist and engineer with more than 15 years’ experience in the construction industry. He is the chairman of the Australian Institute of Refrigeration and Heating (AIRAH) Special Technical Group for Building Envelope Physics advocating for a holistic approach to the development of industry guidance, standards and codes. Jesse works closely with ABCB and Standards Australia with the aim to realise the internationally proven benefit of integrated mechanical system and envelope design to deliver world class energy efficient and healthy buildings with all the associated positive outcomes for designers, builders and the inhabitants of Australian buildings.
Dr David Kroll  
Lecturer in Architecture, University of South Australia

Born in Berlin, Dr David Kroll qualified as an architect in London. He has a background in professional practice, academic teaching and is particularly interested in housing and sustainable design related research. David was involved as an architect in several high-profile projects including energy-efficient housing at the Athletes’ Village, the Darwin Centre Two for C.F. Moller Architects, and the Brisbane airport extension for BVN. In the UK, he held lecturing positions at the University of East London, Anglia Ruskin University and the University of Kent. In 2015 he relocated to Australia, where he has lectured in architecture in the Construction and Environment stream at the University of South Australia. He also recently completed a one-year Postdoctoral Research Fellowship at the Innovation in Applied Design Research (IAD) Lab at the University of Sydney.

Jessica Hogg  
Associate, Grün Consulting/Inhabit Group

Jess is an associate for the Building Physics team of Inhabit in Melbourne. Hailing from the UK, she has experience working in the sustainable development industry in both Europe and Australia. A mechanical engineer with a background in building services, she is experienced in dynamic thermal modelling for energy and comfort, in addition to various global sustainability rating tool frameworks, but also has a detailed understanding of façade design and expected limitations in performance. Jess is a certified Passive House designer as well as being a Green Star Accredited Professional. Her current role in a team focussed on sustainable design within a façade engineering consultancy allows for some unique insight into the trials and tribulations of delivering high performance building envelopes, assisting in determining the feasibility of turning architectural vision into the reality of construction.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.45–09.00</td>
<td>APHA Chairperson’s Welcome: Chris Nunn</td>
<td></td>
</tr>
<tr>
<td>09.00–09.40</td>
<td><strong>KEYNOTE:</strong> Responsible Architecture.</td>
<td>Dragos Arnautu, Passivhaus Institut</td>
</tr>
<tr>
<td>09.40–10.05</td>
<td>Passive House Co-Housing Project (Dunedin, New Zealand).</td>
<td>Baden Brown, Ecobuild Developments</td>
</tr>
<tr>
<td>10.30–11.00</td>
<td>MORNING TEA</td>
<td></td>
</tr>
<tr>
<td>11.00–11.25</td>
<td>Passive House for medium density housing in New Zealand.</td>
<td>Elrond Burrell, VIA Architecture</td>
</tr>
<tr>
<td>11.25–11.50</td>
<td>The challenges and opportunities of going large in a warm climate.</td>
<td>Dr. Rob Brimblecombe, Monash University</td>
</tr>
<tr>
<td>11.50–12.10</td>
<td>Principal sponsor’s welcome Pro Clima Australia</td>
<td></td>
</tr>
<tr>
<td>12.10–13.10</td>
<td>LUNCH</td>
<td></td>
</tr>
<tr>
<td>13.10–13.50</td>
<td><strong>KEYNOTE:</strong> A carbon positive roadmap for buildings.</td>
<td>Rachael McGinley, Senior Manager, Strategy and Development, Green Building Council of Australia</td>
</tr>
<tr>
<td>13.50–14.15</td>
<td>MVHR Integrated Heating and Cooling.</td>
<td>Joel Seagren, Fantech</td>
</tr>
<tr>
<td>14.40–15.05</td>
<td>Blower Door Testing for Big Buildings.</td>
<td>Sean Maxwell, AIVAA</td>
</tr>
<tr>
<td>15.05–15.35</td>
<td>AFTERNOON TEA</td>
<td></td>
</tr>
<tr>
<td>15.35–16.00</td>
<td>Realising Passive House – Finance Case Study for medium density in Sydney.</td>
<td>Oliver Steele, Steele Associates</td>
</tr>
<tr>
<td>16.00–17.00</td>
<td>Panel discussion: Financing Passivhaus. Led by Chris Nunn, Head of Sustainability, AMP Capital</td>
<td></td>
</tr>
<tr>
<td>19.00–23.00</td>
<td>GALA DINNER</td>
<td>Passive Houses: A History. Kara Rosemeier, Chair of Passive House Institute New Zealand</td>
</tr>
</tbody>
</table>
SATURDAY 5 MAY

09.00-09.40  KEYNOTE: From niche to norm: How British Columbia became a hot spot for Passive House development in North America and the role of advocacy organizations in the Passive House revolution. Karen Tam Wu, Pembina Institute

09.40-10.05  Education for Change. Matthew Cutler-Welsh Pro Clima NZ

10.05-10.30  Don’t Change the Player, Change the Game: Can we affect systems change in Australia with Passivhaus? Clare Parry, Grün Consulting

10.30-11.00  MORNING TEA

11.00-11.25  Post-construction evaluation of a Passive House retrofit. Cameron Munro, CDM Research

11.25-11.50  Experience from a Variety of Australian Passivhaus Case Studies. David Halford, Sustainable Building Design

11.50-12.15  The Limestone House. Nick Mulvany, Umow Lai

12.15-13.15  LUNCH


13.55-14.20  Approaches to High R-value Structures – avoiding long term moisture damage. Jesse Clarke, Pro Clima Australia

14.20-14.45  Passive Volume Housing in Australia?: An Applied Design Research Case Study. Dr David Kroll, Lecturer in Architecture, University of South Australia

14.45-15.15  AFTERNOON TEA


15.40-16.40  Panel discussion: Passive House Certification. Glenn Murdoch, Clare Parry, Luc Plowman, Jason Quinn

Pro Clima
proclima.com.au

Pro Clima is a leader in development and manufacture of high-performance roof and wall membranes, the INTELLO® air control layer, tapes and fixtures creating healthy, comfortable, energy efficient and low allergen emitting environments for families, schools and businesses. Pro Clima’s patented systems ensure the long term effectiveness of insulation and the structural durability of the building. Pro Clima has been providing intelligent airtight and weathertight building solutions from Germany to the world since 1981. Lothar Moll, Director of Pro Clima Australia and Pro Clima Germany, is a world leading building physicist and expert on airtightness systems. In 1994 he discovered the MVTR – moisture vapour transmission rate variable membrane, the Intelligent part of INTELLO, which became part of the patented pro clima Intelligent Airtightness System (IAS). Pro Clima Australia Pty Ltd was established in 2010 after extensive research identified a need for high quality air and weather tightness products in Australia. Based in New South Wales, with partners in Sydney, Melbourne, Perth, Hobart and Canberra, a new Pro Clima office and training facility opened in Sydney in April 2018. Pro Clima Australia Pty Ltd is also a distributor of Minneapolis Blower Door equipment and the Corporation Partner of Fraunhofer IBP for WUFI®. They specialise in providing technical support, solutions and products via:

• 1800 PRO CLIMA (776 254)
• welcome@proclima.com.au
Grün Consulting
grunconsulting.com

Grün exists to create a better built environment. With a passion for excellence in buildings, real outcomes for people and the environment, we seek to learn and share our experience to help others turn ambitious ideas into great spaces.

We provide leadership in design and construction and have the largest Passivhaus team in Australia. Working across Australia and South East Asia, we believe in better buildings that provide the highest levels of comfort and efficiency.

Our passion is building performance, for the benefit of the occupants and the environment. We pursue healthy, comfortable and energy efficient buildings and promote the use of the Passivhaus standard as best practice.

Working collaboratively with our clients and their design teams, we help develop sustainable design strategies for planning, compliance and high-performance design specifically tailored to your project. Our experienced and knowledgeable team offer a broad range of performance simulation and design advice services to quantify aspects of building performance during the design documentation stage.

These include:
• Passivhaus
• Net Zero Carbon/Net Zero Energy
• Living Building Challenge
• Green Star
• Green Mark
• LEED
• Life Cycle Analysis
low embodied energy materials selections
• NABERS
• Post occupancy Monitoring and Analysis

grün
Fantech manufactures and distributes one of the most comprehensive ranges of ventilation products in Australia, New Zealand and South East Asia. The extensive range includes a core series of fans, fan controllers, heat recovery ventilators, air handling units, attenuators and ancillaries. The company is recognised for its technical expertise and continual quest for improvement. Fantech has worked hard to develop its reputation as an industry leader and maintain its emphasis on reliability and energy efficiency.

Efficiency Matrix manufactures and distributes one of the most comprehensive ranges of ventilation products in Australia, New Zealand and South East Asia. The extensive range includes a core series of fans, fan controllers, heat recovery ventilators, air handling units, attenuators and ancillaries. The company is recognised for its technical expertise and continual quest for improvement. Efficiency Matrix has worked hard to develop its reputation as an industry leader and maintain its emphasis on reliability and energy efficiency.

Proctor Group is Proctor Group Australia (PGA) is all about the building envelope and interaction with all aspects of indoor environmental quality (IEQ). Since 2005, PGA have been offering Australasian customers an extensive portfolio of thermal and acoustic insulation, geotextiles, air barriers, vapour permeable membranes and accessories. The growing range of solutions now includes Ventient passive ventilation systems.
LAROS is the leading national building materials supplier and consultant for passive house construction in Australia. We collaborate with home owners, architects, engineers, contractors and builders to provide expert advice and high quality materials. LAROS supplies Windows, Energy & Heat Recovery Ventilation, Airtightness Systems and Structural Thermal Breaking products.

Kingspan are a market leading manufacturer of innovative, high performance insulation products like thermo-reflective AIR-CELL® and rigid phenolic Kooltherm® which offers among the most efficient thermal performance currently available. By improving the thermal efficiency of building envelopes, we aim to help significantly reduce heating and cooling loads and energy use.

CSR Bradford Insulation is Australia’s leading supplier of insulation, building wraps and energy saving products for homes & commercial buildings. The Passive House principle of a high performing thermal envelope is well support by Bradford’s range of high performance Glasswool, Rockwool, Polyester and PIR Board insulation. Air tightness is supported by Enviroseal (vapour permeable) and Thermoseal (vapour barrier) building wraps and accessories. Contact Bradford’s DesignSmart Technical Team for expert advice 1800 354 044.
DINNER SPONSOR

EXHIBITORS