



# IRHACE

## NEW ZEALAND

THE INSTITUTE OF REFRIGERATION HEATING &  
AIR CONDITIONING ENGINEERS OF NEW ZEALAND Inc.

# 2017 Annual Report



Institute of Refrigeration, Heating and Air Conditioning Engineers Inc.  
(IRHACE)

[www.irhace.org.nz](http://www.irhace.org.nz)

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## Our Organisation

Our main aims are to promote the economic well-being and quality of life of our members, and of the heating, ventilation, air conditioning and refrigeration industries, and to improve the economic well-being and quality of life of every New Zealander through:

- representing and promoting the industry interests of our members
- advancing and promoting (including the use of standards) the technology used by and activities of those in our industry
- supporting training and education in the industry
- promoting a high level of skill, qualifications and continuing professional development
- promoting the development of practice guides and other industry Standards as the Council thinks is appropriate for and relevant to our industry that members shall follow
- providing a forum for our members, associates and affiliates to discuss and share their knowledge and experience
- providing a forum where our members, associates and affiliates and members of the public can settle their disputes

**To give effect to our aims, the strategic direction of IRHACE for the future is:**

To develop a continuing development policy and framework for IRHACE members to support a more skilled and technically competent membership.

Benefits of being an IRHACE member include:

- IRHACE Journal and electronic member updates
- Member events such as trade nights, technical tours, and social events
- Discounts to events such as the annual HVAC&R Conference and the Industrial Ammonia Plant Operations course
- Access to free publications such as the Hygiene Guide
- Having an industry voice with government
- Use of the IIR Freedoc database for members
- Having strategic relationships at a national and international level with other HVAC&R organisations
- Free membership for apprentices and students studying towards HVAC&R qualifications

# FROM THE IRHACE PRESIDENT

## From the IRHACE President

Dear IRHACE Member

The opportunity to lead as IRHACE President has been my dream from early on in my career. To see that opportunity realised, left me enormously proud, though also filled with trepidation.

The challenge to see the industry develop, and weather issues such as the Emissions Trading Scheme is part of that dream. The HFC Phasedown has been a roller coaster ride, not to mention the implementation of the HVAC&R Council, so necessary in the changing face of the industry. The HFC Phasedown is a moving feast, getting to grips with the machinations of government and ensuring our industry has a strong voice.

I've as many of you know, been enormously passionate about several things within our wider industry. I'm constantly conflicted, as are so many of us, by the changes and opportunities the industry moots on a daily basis. Notwithstanding that, I have one objective:

I wish to see to fruition, a Credential for our industry. If there was one thing that would cement a future for our industry along with ensuring standards lift for training and compliance at all levels it is a Credential. In 2018 we have the chance to realise that vision. There is work to do, so much. But the stakeholders are asking for our support and our industry must show leadership to forge that change.

I thank everyone involved in giving me the opportunity to realise that vision and in my term to achieve change for the good of IRHACE.



IRHACE President – Karl Burke

A handwritten signature in black ink, appearing to read 'K. Burke', written in a cursive style.

# FROM THE GENERAL MANAGER OF IRHACE

## From the General Manager of IRHACE

Dear IRHACE Member

I joined IRHACE some 8 months ago and could somewhat say I stepped out of the frying pan and into the fire, but I'm not complaining. Getting to grips with the entities, the issues they face and ironically the duplication (even triplication) of issue and activity from entity to entity is a revelation. And of course, the acronyms this industry uses are a challenge in themselves.

The IRHACE Centre in 2017 saw change, being loss of key staff, followed by on my arrival a restructure and other operational changes. We have subsequently, beefed up the membership engagement position to ensure member care is significantly improved. Likewise, we identified the need to consolidate and upgrade our CRM software in 2018, and this project is currently underway. Other projects to ensure an efficient organisation have been identified to follow this project.

Being more relevant to current and new members is a key requirement as we head through 2018. Of course, as our President commented, the establishment of the HVAC&R Council influenced the latter period of 2017. This council also enabled the said council to represent common industry and opportunities. In particular, training, compliance, communication and of course the issue that dominates 2018, the HFC phase down. In my view, the most valuable achievement in my tenure to date has been the stakeholder relationships we have seen develop. These are with government departments, agencies, the construction industry and within the wider HVAC&R industry also and are pivotal for us to strongly represent our industry needs.

In the last few IRHACE Journals you have read about my gripes, and frustrations, and I'm sure I'll find plenty more to focus on in coming months. Prevalent in my mind is the paucity of involvement and attendance at industry events. This apathy is endemic in most membership organisations and as mentioned above, we must work to be more relevant to our membership and be innovative in attracting new members. This won't always be popular, but if we don't challenge the process, IRHACE won't remain relevant and our membership numbers will dwindle

On a more positive note, looking back on the last 8 months, I am constantly astounded by the commitment of a group of talented volunteers who really care and want to 'give back' to their industry. In the National Council and at branch level, there is so much knowledge and experience which as an entity we need to better harness. As an industry you can be justifiably proud.

What's on the horizon in 2018? In the first quarter we have already completed several IRHACE initiatives along with progression on some for the HVAC&R Council. Top of that list is, membership development and recruitment. These strategies go 'hand in hand' and we recognise they are pivotal to the survival of IRHACE.

We have limited resource with equivalent of 3 FTE's including myself currently overseeing 3 entities. That said, we know what we need to do and myself and the team are committed to making a difference in 2018 and beyond.



Christine Johnson – General Manager

# IRHACE COUNCIL

## IRHACE Council

NAME/POSITION		
 <p data-bbox="228 760 391 779">Karl Burke - President</p>	 <p data-bbox="618 760 829 779">Deirdre Johns - Past President</p>	
 <p data-bbox="228 1163 391 1182">Dave Nicholls - Councillor</p>	 <p data-bbox="618 1163 829 1182">Ashwin Patel - Councillor</p>	 <p data-bbox="1052 1163 1218 1182">Dave Noyer - Councillor</p>
 <p data-bbox="228 1656 391 1675">Mark Meyer - Councillor</p>	 <p data-bbox="618 1656 829 1675">Paul Shaw - Councillor</p>	 <p data-bbox="1040 1656 1229 1675">Tony King - CCCA Interlocutory</p>

# COUNCIL MEMBER APPOINTMENTS FROM AGM 2017

## Council Member Appointments from AGM 2017

### Council

POSITION	NAME	ELECTED/ CO-OPTED/ APPOINTED	TERM ENDS/ RESIGNATION SUBMITTED EFFECTIVE
President	Karl Burke	AGM 2017	AGM 2019
Past President	Deirdre Johns (President 2015- 2017)	AGM 2017	AGM 2019
President Elect	Vacant	-	TBA
Elected Councilor	Mark Meyer	AGM 2016	AGM 2018
Elected Councilor	Dave Nicholls	AGM 2017	AGM 2019
Elected Councilor	Dave Noyer	AGM 2017	AGM 2019
Elected Councilor	Paul Shaw	AGM 2017	AGM 2019
Elected Councilor	Ashwin Patel	AGM 2017	AGM 2019
Elected Councilor	Tony King	AGM 2018	AGM 2020

### Council Meetings

Council activities in 2017 have consisted of 5 board meetings plus the AGM in May. In addition, board members represent CCCANZ at events and on various committees. These are described in further detail in upcoming pages.

# ACTIVITIES IN 2017

## Activities in 2017

### CCCANZ Trusteeships

Refrigerant License Trust Board in 2017 continued their good work, with the following courses.

ACTIVITIES FOR RLTB IN 2017		
Course Name	Completions	Courses
Approved Fillers Courses (Face to Face)	409	40
Approved Fillers Courses (Online)	364	N/A
Handlers Courses( Renewals)	46	N/A
Flammables Courses (Face to Face)	47	2
Flammables Courses (Online)	29	N/A
Ammonia Operators Courses (In conjunction with AIRAH)	11	1

With the loss of key employees in this entity in 2017, the ability to influence new course offerings was constrained.

### Recovery Trust

The trust for the Destruction of Synthetic Refrigerants and the Recovery Operating Company Limited's financial statements for the year ending 31 March 2017 are included with the communication that this document is part of.

# MEMBERSHIP ACTIVITIES IN 2017

## Membership Activities in 2017

MONTH	EVENT	INFORMATION
APRIL	MOTAT Science Fair	A Sunday in April sees the MOTAT science fair held. In 2017 the YEP (Youth Engagement Programme) initiative supported the initiative. IRHACE and CCCANZ staff and families both supported this event.
MAY	HVAC&R Trade Exhibition and Industry Conference	<p>The annual HVAC&amp;R Conference was held at ASB Events Centre in Auckland in May 2017. With over 70 trade stands, attendance was from both IRHACE (hosts) and CCCANZ membership.</p> <p>The speaker streams were informative, the excellent social events and exhibitors from as far afield as Thailand and Canada</p> <p>The theme was '<i>Natural Refrigerants and New Technology</i>'</p>
MAY	IRHACE Awards	<p>The following awards were presented at the HVAC&amp;R Industry Conference Awards Dinner:</p> <ul style="list-style-type: none"> <li>- Fellow Membership Award, Dave Nicholls</li> <li>- Branch Service Award, Mark Baxter</li> <li>- Branch Service Award, Julie Keegan</li> <li>- Branch Service Award, Elias MacKenzie</li> <li>- Branch Chair Award, Dean Moffatt</li> <li>- Presidents Meritorious Service Award, Mike Odey</li> </ul>
MAY	Wallie Askew	<p>Another successful Wallie Askew was held in conjunction with the Branches and HVAC&amp;R Conference.</p> <p>Further details of the competition and winners are detailed below</p>
OCTOBER	Women in Leadership in the HVAC&R Sector & Wider Built Environment	The second Women in HVAC&R event was held in 2017 in Christchurch. Christine Johnston and Deidre Johns, spoke on varied topics to a group of some 25 industry members.

# IRHACE BRANCH ACTIVITY IN 2017

## IRHACE Branch Activity in 2017

The committed teams in the branches work hard to represent their industry. In 2017 activities in the branch events included

MONTH	BRANCH	EVENT
February 2017	Canterbury/Westland	Golf Day and AGM
		University of Cant. RSIC Building Site Visit
March 2017	Wellington	Golf Day
April 2017	Auckland	Wallie Askew Memorial Workskills Competition
		AGM and Trade Night
	Nelson/ Marlborough	Golf Day
	Wellington	Wallie Askew Memorial Workskills Competition
		Fishing Trip
September 2017	Wellington	Trade Night – Weltec
October 2017	Canterbury/Westland	Pita the Hori centre Site Visit (District Heating Scheme)
		Women & Leadership in the HVAC&R Sector and the Wider Built Environment event
November 2017	Wellington	10 Pin Bowling
	Canterbury/Westland	Christmas Party
	Auckland	Branch Trade Night and Christmas event

# WALLIE ASKEW WORKSKILLS COMPETITION

## Wallie Askew Workskills Competition

The esteemed 2017 Annual Wallie Askew Workskills Competition for Apprentices was run during March and April 2017. The national finals were then held at the HVAC&R Conference. An outstanding opportunity for apprentices to showcase their skills in the trade, national finalists and placings were:

PLACE	APPRENTICE	EMPLOYER	BRANCH
1	Denzel Morris-Ponga	White Refrigeration (1988) Ltd	Auckland
2	Tim Bell	McAlpine Hussmann Ltd	Hamilton
3	Thomas Hay	Total Refrigeration Ltd	Auckland
4	Adam Matthewson	Active Refrigeration, South Canterbury Ltd	Canterbury/ Westland
5	Scott Wilkins	Excel Refrigeration & Air Conditioning Ltd	Wellington
6	Jarrold Begg	White Refrigeration (1988) Ltd	Auckland
7	Bradley Gibbons	Absolute Control	Wellington
8	Shane Maber	McAlpine Hussmann Ltd	Bay of Plenty

# INDUSTRY INITIATIVES

## Industry Initiatives

### Current Projects

Projects for 2018 have been divided across entities and where common to all entities adopted by the HVAC&R Council. These are by no means the only initiatives identified, however due to the sheer volume of initiatives, the below have been identified as priorities.

HVAC&R Council 2018 Initiatives (common to all entities)		
Initiative	Detail	Month
HFC Phasedown	As the HFC Phasedown heads to ratification for 1 January 2019. The industry watches and waits for government to establish its position. In an effort to provide leadership and an industry voice the HVAC&R Council have joined with Recovery enabling them to speak for all entities and on behalf of industry on this critical issue	Ongoing
Industry Credentials	Working with MBIE the health & safety, and labour force aspects of the HFC Phasedown come to play. This is in the formative stages but gives our industry the long-awaited opportunity to influence compliance and possibly a form of registration for technicians and engineers.	Potentially prior to end 2018
Apprenticeships	A common concern across all entities is the ability to recruit, engage and retain sufficient apprentices to sustain our industry position. An issue common to all in the construction industry, the HVAC&R council see the need to represent industry in this critical issue.	Ongoing
Continuing Professional Development	Known as CPD to many, this was partially developed in 2017 and will be completed in 2018 as a robust fulfilment programme for all members to upskill and record their progress	August 2018
HSAW2015 Training	Our industry must continue to upskill as mentioned above. As issues and opportunities for H&S training are revealed to ensure a high level of compliance and understanding, additional training workshops will be developed. There is a commitment in the Council to ensure this is developed as required	November 2018 and Ongoing

There are a number of other HVAC&R Council initiatives however the above are the key ones identified.

# INDUSTRY INITIATIVES

## Industry Initiatives

IRHACE Council 2018 Initiatives (Specific to IRHACE)		
Initiative	Detail	Month
Wallie Askew	In its 20 <sup>th</sup> year, Wallie Askew continues to be the opportunity for the crème of apprentices who have completed their year 3 block course to shine. In 2018, the programme will incorporate the Air Conditioning sector and at Branch and National levels	May through August 2018
Update IRHACE Hygiene Guide	With legislative and other procedural changes there was a need to update the Hygiene Guide. Reformatted this is a continued member benefit	April
Ductsizer	Council have identified tools that should be available to all members. The Ductsizer is the first of those tools and is being distributed with the April/May Journal to all members.	April (completed)
Enthalpy and Psychometric Charts	Other tools and benefits for membership are Enthalpy and Psychometric Charts. Both are to be developed in pad form as helpful member resources	May/June 2018
Social Media Activity	Communicating with membership at all levels is vital as the entities struggle to maintain relevance in our changing world. An increase in appropriate posts and information have been planned to connect more readily at this level.	Ongoing
Facebook Student Site	Our connection to students has been very passive and in order to connect and improve contact we have developed a Facebook site specifically for IRHACE Student members.	May 2018 (completed)
Enhanced Member Benefits	To ensure relevance to members a review of current benefits and new opportunities will be carried out. These along with the initiatives listed will see benefits for members far greater than their membership fee.	June / July 2018
Membership Recruitment	To retain membership and attract new members is a key focus for the Council and the Centre are charged with achieving this in 2018. This may include engaging with other cultural groups or sector specific activity.	Ongoing
Branch Activity	Support and enhanced activity for the branches and ensuring their activity is relevant to our wider membership is vital. Again, their support to attract membership is also necessary.	Ongoing

## Benefits for IRHACE Members

Member benefits are constantly the stuff of conjecture. What is a benefit for one is not necessarily a benefit to another. Listing them provides clarity on the benefits currently available through IRHACE Membership. In 2018 as mentioned above, enhancing benefits is a key focus to ensure membership engagement

- 6 issues of IRHACE Journal per year
- Monthly digital newsletter
- Facebook and LinkedIn Social Media sites
- Branch member events such as trade nights, technical tools and social events
- National and industry events
- Discounted entry to member events including HVAC&R conference
- Industry specific publications such as the Hygiene Guide
- Maintaining an industry voice with Government and the wider construction industry
- Affiliations with sister entities in Australia, Britain and United States
- Use of the IIR Fredoc Database for members
- AIRAH Technical Handbook
- Discounted courses such as Approved Filler Courses through RLTB
- N3 Discount Card

# STRATEGIC RELATIONSHIPS

## Strategic Relationships

IRHACE maintains strong national affiliations and memorandums of understanding to ensure a strong presence and voice. These entities within NZ include



Ministry for the Environment



Ministry of Building Innovation and Employment



Environmental Protection Agency



Energy Management Association of New Zealand

Energy Management Association of NZ



Engineers NZ



Chartered Institution of Building Services Engineers



Worksafe NZ



Engineering Associates Registration Board



International Institute of Refrigeration NZ National Committee

# INTERNATIONAL COMMITTEES AND RELATIONSHIPS

## International Committees and Relationships

IRHACE maintains strong international affiliations and memorandums of understanding to strengthen our presence and voice on the world stage



Institut International du Froid  
International Institute of Refrigeration

**International Institute of Refrigeration**



**The Australian Institute of Refrigeration, Air  
conditioning and Heating**



**The American Society of Heating,  
Refrigerating and Air-Conditioning  
Engineers**



**Institute of Refrigeration**

## Membership Policy

There were no changes to IRHACE membership policy in 2017

# CONTACT INFORMATION

## Contact Information



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