

AIRAH Award for Future Leader

Ania Hampton, M.AIRAH, Shane Carmichael, M.AIRAH, and Nirosha Munasinghe, M.AIRAH, are in line for in the Institute's prestigious Future Leader Award.

Shane Carmichael, M.AIRAH, AIR CHANGE, 28



Air Change says that bringing Shane Carmichael on board in 2005 was integral in the design, manufacture, testing and documentation of its heat recovery

HVAC range. Carmichael's posting, Air Change says, was fundamental to creating documentation and developing the tools clients needed in order to embrace heat recovery technology as mainstream in the HVAC&R industry.

The firm says Carmichael has been involved in new product development and testing, production of a new product catalogue, and development of selection software and an energy modelling tool. Carmichael has also shown management leadership in a number of ways, such as by his work on Air Change's customer relationship management system and his role in developing and training a national technical sales team. ■

Ania Hampton, M.AIRAH, HAMPTON SUSTAINABILITY, 30



As an ESD consultant specialising in energy simulation, Ania Hampton, M.AIRAH, has been involved in some of Australia's leading green buildings, and has

been central to the implementation of many then cutting-edge technologies,



such as chilled beams, cogeneration and tri-generation, displacement ventilation, geothermal systems and renewable energies.

Hampton has developed modelling methods that have been able to quantify the energy, comfort and financial benefits of green systems.

Having previously worked for Cundall, the 30-year-old founded Hampton Sustainability in 2009 with the aim of designing practical, cost-effective sustainable buildings.

She believes environmental efficiency is easily accessible on projects of all sizes, and strives to embed sustainable practices in the fundamental design of a building. Hampton has worked on and led a wide range of projects, including healthcare, community, residential and commercial.

She gains the most satisfaction from education projects, which provide the greatest opportunity to spread the sustainability message to the next generation. ■

Nirosha Munasinghe, M.AIRAH, OPEN GENERAL, 29



Nirosha Munasinghe, M.AIRAH, helped form Open General, an Australian company which designs and manufactures hardware and

software for the building automation industry.

Munasinghe is the architect of the first Australian-made BACnet open protocol smart control system – a solution that controls HVAC&R systems more efficiently than conventional analog control systems.

The smart control system results in significant energy savings and a reduction in a facility's carbon footprint.

As a newly minted graduate, Munasinghe began working for the parent company of Open General as a software engineer, analysing the possibility of developing a software and hardware building management system.

For the next three years, he worked on proof of concept, built an R&D team, and designed, developed and tested the web-based BACnet user interface and digital direct controllers.

Launched in Chicago in 2009, today the products are in use across the commercial, retail, education, health, hotel and government sectors. ■

AIRAH Award for Excellence in Innovation

There are three nominations for the 2010 AIRAH Innovation gong: Building IQ, the Energy Performance Contract for the 530 Collins St Refurb, and Seeley's Climate Wizard.

BUILDINGIQ

"BuildingIQ offers a new predictive energy optimisation system, which reduces energy consumption, operating costs and CO2 emissions while maintaining or improving tenant comfort in commercial buildings," says company CEO Mike Zimmerman.

"BuildingIQ connects to most building management and control systems using industry-standard interfaces, and can be used in both new and existing buildings. It is delivered as a software solution on a PC and requires no infrastructure upgrades or capital projects to be deployed.

The BuildingIQ technology was developed by leading scientists at the Energy Transformed Flagship at CSIRO, Australia's national research lab, and has been licensed exclusively by BuildingIQ. Current customers include top property groups such as Morgan Stanley's Investa Property Group and Lend Lease, as well as utilities and city governments.

"BuildingIQ leverages existing information from the building as well as external data (such as weather forecasts and energy tariffs) to optimise the building's HVAC energy while maintaining tenant comfort," Zimmerman says. "It determines ... relevant system parameters to achieve the desired outcomes for building operators and tenants.

"BuildingIQ continually optimises the HVAC operation by pre-planning HVAC start times and adjusting set points



throughout the day," Zimmerman says. "This results in significant reduction in energy consumption and operating costs, while maintaining occupant comfort." ■

ENERGY PERFORMANCE CONTRACT, 530 COLLINS ST MELBOURNE REFURBISHMENT

Bruce Precious, M.AIRAH, who is sustainability manager for the GPT Group's offices and industrial/business parks, has been nominated as the representative of the 530 Collins St (Melbourne) energy performance contract (EPC) project team. The team completed the works required to take 530 Collins St from a 3 Star NABERS energy rating to a guaranteed 5 Star NABERS rating.

"This is the first known guarantee of a NABERS upgrade outcome for an existing base building," says Honeywell's Bill Shaw, M.AIRAH, who submitted the nomination for the EPC team. "While

EPCs have been used widely in the public sector, they have been little used in the private sector. The project has required ... coordination and cooperation of skills, serving as a model that could be applied across the office property market.

"A unique combination of skills, from building modelling, building-system diagnosis, risk analysis, project management, to complex system cut-in on site, has needed to be deployed with great care and planning for the outcomes to be achieved to time and budget." ■

THE CLIMATE WIZARD, SEELEY

"Climate Wizard has been described as an innovation revolution because it has the potential to completely revolutionise the cooling industry globally and significantly reduce energy use," the company says.

That's a bold claim, even for a company that has a reputation for developing innovations. . . for well over a quarter of a century.

"Climate Wizard is different – and much more than an improvement on traditional technology. It's a completely new cooling category that delivers outstanding cooling performance, with previously unheard-of energy efficiencies.

"The product is an indirect evaporative air conditioner with a patented revolutionary high-performance heat exchanger. This ensures that no moisture is added to the air entering the conditioned space. At the same time, it maximises the effectiveness of all of the elements necessary to best facilitate the heat-exchange process.

"With traditional (direct) evaporative cooling, moisture is added to the air. With Climate Wizard, no moisture is added. This means that evaporative cooling becomes viable in many more locations and climatic conditions, offering potentially massive energy and running costs savings." ■

HVAC&R's night of nights

What: AIRAH Awards Presentation Dinner 2010

When: Thursday November 18, 7pm

Where: The Crystal Palace, Luna Park

Cost: \$155 per ticket

For more information, email martine@airah.org.au