

December 2018

## FROM THE CHAPTER PRESIDENT

Hi everyone. The year is drawing to a close very quickly, (still at a frantic pace!). We've had a fantastic gala dinner and awards night, and some had an even more fantastic time in Wellington after that. My congratulations to those of you that received excellence and commendation awards. Congratulations also to Laurie Cook and Richard Bracebridge on achieving the grade of Fellow of our Society. This is high honour indeed. I am also pleased to be able to congratulate Brian Ellis who was moved from Life Member to Life Fellow, in recognition of his long standing and continuing contribution to the Society.

The Chapter Management Committee are having a holiday too, though we are planning to meet in Late January to look at business planning for next year. If you have any ideas, challenges, threats or opportunities that you would like us to be aware of going into the new year, please feel free to drop me a line at [nzchapter@iesanz.org](mailto:nzchapter@iesanz.org)

As we head into the new year, please take care, have a ball of a time, take a moment to remember the reason for the season.

Warm regards  
Greg



### ***In This Issue...***

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## NOTES FROM THE EDITOR

Congratulations to you all on a fantastic year, there have been some amazing projects going in across the country, highlighted in this years lighting awards. Thank you all for making it the amazing night it was. Details of the awards from the evening can be found from page 4.

All the best for the holidays and looking forward to seeing everyone in the new year.

Best regards,  
Chris



## EDUCATION REPORT

Huge congratulations to Massey Year 2 student Corin Roland, this year's winner of the Student Lighting Design Award. The lighting awards were a big night for Corin, as he was also part of a team that picked up two other awards. Congratulations Corin!

A special mention goes to Alan Baird-Smith, who was the runner up in the student competition. This is the third time that we've run the competition, and the entries are always extremely impressive.

We look forward to welcoming a new group of students for Massey's IESANZ-accredited programme in 2019. Enrolments are open, and are capped at 25 students per year group. Please contact me if you would like to receive more information – I have a small enrolment guide that makes the process a little easier.

Wishing you all a happy Christmas



Susan Mander  
Education Chair



## S & Q UPDATE

Congratulations to the recent Technical Associate Upgrades:  
Joshua Rietema  
Evelyn Williams

Wishing everyone an enjoyable break. Once the mad rush is over, take the opportunity to complete those MIES and FIES applications that have been sitting around gathering dust from the past year.

Regards  
David Arthur



David Arthur  
S & Q Chair

## STANDARDS UPDATE

AS/NZS2293.2 is due out in the new year. It's with Standards Australia Standards Writer as we speak. As/NZS 2292 parts 1 and 3 are available for Standards now.

Cheers  
Clark Houltram



Clark Houltram  
Standards Chair

## TECHNICAL EVENTS

### NZ Technical Events in February – Save the Dates!

#### February 12th-15th, 2019

Michael Duce from Australia will talk on **Emergency Lighting Standards**. Presentations in Auckland, Wellington and Christchurch, supported by Clevertronics

#### February 19th-21st, 2019

Martin Valentine from the UK will talk on Ice and **Darkness - Lighting for a Base in Antarctica**. Presentations in Auckland, Wellington and Christchurch, supported by Impressions.

Regards  
Michael Warwick



Michael Warwick  
Technical Events Chair



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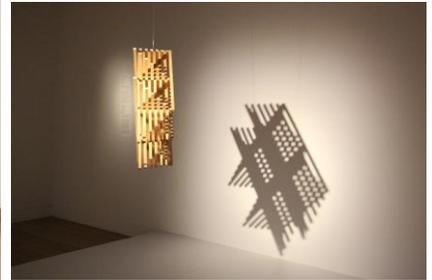
## AWARDS PROGRAM 2018

Convenor of Judges	Amy Taylor
Chair of Judge	Tracy Bronlund
Judges	Laurie Cook - Beca
	Richard Bracebridge - Light Works
	Susan Mander -Massey University
	Domenico De Vincentis - Stephenson & Turner
	Mike Jackson - Metlifecare

# Watt Fountain, Whanganui



AWARD	Excellence - LuDA
PROJECT NAME	Watt Fountain, Whanganui
PROJECT ADDRESS	Intersection Victoria Avenue and Rutland Street, Whanganui
AWARDEES	Michael Warwick of MAW Design
CREDIT	Stephenson & Turner, Glasswork NZ, Adrian Barnes Electricians
CONVENOR	Amy Taylor
DESIGNER'S STATEMENT	<p>The design objective was to retrofit historic gas lanterns with electric lighting maintaining the aesthetic and integrity of the original craftsmanship. This project also involved the addition of lighting to the base and the niches.</p> <p>The solution was to mount an LED fitting as a light engine in the base, use a custom made, hand blown glass drop to reflect vertical light and a convex mirror to reflect light out. The glass drop then appears to glow like a lamp without the high glare that a direct view of the LED would have. The light output is enough for pedestrian activity, however these lanterns are not intended to replace, nor even supplement the street lights at the fountain.</p>
JUDGE'S COMMENTS	<p>This was a very complex retrofit project, soundly constructed and producing better light outcomes than the original gaslight solution.</p> <p>"..a work of art with carefully hand blown glass and a lovely bespoke way of utilising modern LED technology"</p> <p>"..high level of craftsmanship and sensitivity towards the conversion to LED."</p> <p>"A beautiful lighting solution which combines old techniques with new technology."</p>



AWARD	Commendation - LiDA
PROJECT NAME	Toi Art
PROJECT ADDRESS	Museum of NZ, Te Papa Tongarewa, Cable Street, Wellington
AWARDEES	Marc Simpson of Toulouse Ltd.
CONVENOR	Amy Taylor
DESIGNER'S STATEMENT	<p>The project was to provide illumination to the new national art gallery "Toi Art" at Te Papa Tongarewa. The design was to accommodate a variety of exhibition styles as well as compliment the exhibition spaces and provide continuity and easy navigation for the public. It was essential the lighting met the high standard of the existing building as well as speak to the creation of a new artistic space. It needed to draw the public toward the exhibitions and support wayfinding to move around the space. Lighting was key to linking spaces and creating uniformity between them. The solutions needed to be sympathetic to the conservation of artworks housed in and around the spaces. Lux levels had to be carefully measured and monitored to ensure that maximums were never exceeded, and the balance could be maintained between architectural and exhibition lighting.</p> <p>The project opened on time to critical acclaim within a few dollars of budget. The design demonstrates success through its flexibility, creativity and maintainability. It meets diverse needs of specific exhibitions whilst providing flow and continuity throughout the space.</p>
JUDGE'S COMMENTS	<p>"Pleasant variety of light effects and good visual arrangement. Light framing is excellent!"</p> <p>"A challenging variety of connecting spaces. A nice use of focus and consideration of equipment."</p> <p>"...appreciated the complexity of luminaire selection in a museum environment."</p>

# The Justice & Emergency Precinct



AWARD	Commendation - LiDA
PROJECT NAME	The Justice & Emergency Precinct
PROJECT ADDRESS	20 Lichfield Street, Christchurch
AWARDEES	Jason Bretherton and Mike Dent of WSP-Opus
CREDIT	Opus Architecture, Harvey Duncan, Warren & Mahoney, Nick Warring
CONVENOR	Amy Taylor
DESIGNER'S STATEMENT	The Christchurch Justice & Emergency Services Precinct is an anchor rebuild project of the 2011 earthquake recovery. It is a large multi-agency facility, incorporating three 5 level buildings with an area in excess of 33,000m <sup>2</sup> . The precinct is amongst the largest multi departmental facility in New Zealand. It accommodates the Ministry of Justice, New Zealand Police, Department of Corrections, Fire Emergency of New Zealand, St John, Ministry of Civil Defence & Emergency Management, Canterbury Civil Defence, and the Emergency Management Group (Including Environment Canterbury and the Christchurch City Council). The interior lighting installation covers a wide range of applications including; offices, courtrooms, judicial facilities, police station operations, emergency operations and control centre facilities, public circulation, amenities, services areas and car-parking. Comprehensive emergency egress and critical function lighting is included, and exterior lighting is provided for amenity, security, and aesthetic effect.
JUDGE'S COMMENTS	“Down-to-earth’ project for a serious institutional building. Clean and efficient without extravagances. The final look is quite technical, as desired by the client.” “Large scale complexity and volume with many lighting approaches. Nicely integrated.”

# Te Auaha – Whitireia and Weltec



AWARD	Excellence - LiDA Commendation - ENERGY EFFICIENCY AWARD- LiDA
PROJECT NAME	Te Auaha - Whitireia and Weltec, Wellington Central Campus
PROJECT ADDRESS	65 Dixon Street, Te Aro, Wellington 6011
AWARDEES	Laurie Cook, Beca; Michael Melville, Foster + Melville; Corin Roland, Beca; Sam Brown, Foster + Melville.
CONVENOR	Amy Taylor
DESIGNER'S STATEMENT	<p>Te Auaha is a teaching environment of creative technologies for the next generation of New Zealanders. The client desired a space that encourages the sharing of skills and collaboration across all educational disciplines, to be facilitated by the extensive use of glazing and illumination of the activities within.</p> <p>This design approach encourages transparency and interaction between creative disciplines being taught within the building. Artificial lighting plays an important role in achieving this by opening up occupied spaces and drawing the interest of fellow students and staff to areas of different creative disciplines. The extensive use of direct and indirect lighting is instrumental in creating well illuminated and inviting environments. This is enabled with the use of low glare luminaires that provide good vertical illuminance within each space. In some spaces the additional use of indirect luminaires provided softly illuminated ceilings and textures creating the feel of a larger volume space.</p>
JUDGE'S COMMENTS	"A confusing 'high-tech' interior design where boundaries between spaces does not exist, Hence, a challenging space for lighting. The provided solution is clean, efficient, and adequate for the requirements"



AWARD	Excellence - ENERGY EFFICIENCY AWARD - LiDA
PROJECT NAME	Kaiapoi High School
PROJECT ADDRESS	101 Ohoka Road, Kaiapoi 7630
AWARDEES	Rey Sidon & Gareth Arnold of Aurecon
CREDIT	Noordanus Architects
CONVENOR	Amy Taylor
DESIGNER'S STATEMENT	<p>The project involved lighting to the main atrium space and needed to be energy efficient, cost effective and respond to the Ministry of Education's sustainable aspirations. The main atrium space (7 metres high) is open with an integrated tiered seating for presentation. It is described as the social learning area and envisioned to be an inviting space designed to encourage the development of skills and learnings in a more interactive format.</p> <p>The Rexel Highlight LED High Bay with twin LED gear trays and Y5 diffuser (88% transmittance) was chosen to meet the UGR of 19 and maintained illuminance of 320 lux at the working plane. Given the excellent lighting distribution, a high 0.6 horizontal uniformity was met at the main thoroughfare and 0.7 at the tiered seating.</p> <p>The designated lighting power density for the space is approximately 4.48 Watts/m<sup>2</sup>, with an average illuminance of 320 lux equating to 1.4 W/m<sup>2</sup> per 100 lux, which is comparable to the maximum allowable points under Green Star compliance. The energy consumption for this space is 5,365kWhr per year and equates to 3,822kWhr of energy saving per year and approximately \$840 saving on annual energy bill.</p>
JUDGE'S COMMENTS	<p>"..even illuminance for a low energy project."</p> <p>"..small but efficient lighting design that provides the required good illuminance and uniformity. Well executed."</p>

# Huami Restaurant



AWARD	Commendation - LiDA
PROJECT NAME	Huami Restaurant
PROJECT ADDRESS	87 Federal Street, Auckland 1010
AWARDEES	Laurie Cook & Wilson Yu of Beca
CREDIT	Moller Architects, YWS Design & Architecture (Singapore)
CONVENOR	Amy Taylor
DESIGNER'S STATEMENT	<p>From the onset, the key consideration for the Client was that the food and patrons be at the centre of the restaurant dining experience. The architecture and interior design had to promote a comfortable, inviting and luxurious interior, with the lighting design being driven by accent lighting, discreet luminaire locations, warm colour temperatures and flexibility in lighting control.</p> <p>The open dining is lit from discreet track-mounted spotlights located above the lattice ceiling and provide targeted downlighting to the dining tables below. Discreet downlighting provides feature lighting to the display shelves above the kitchen counter and duck oven. The downlighting also provides task lighting for kitchen staff while creating a visual separation between the kitchen and dining area. Warm white lighting and high-colour rendering is retained so that the lighting effect is consistent with the dining area.</p> <p>The centrepiece is the bar island and associated display shelving as a lit feature, that is used to draw patrons into the space. The bottle display shelving acts as a backdrop to the bar. Linear LED micro-profiles integrated to the shelving highlight the bottles as well as providing graze lighting to the exposed brick wall for added texture.</p>
JUDGE'S COMMENTS	<p>"A dark space that is hard to illuminate without excessive contrast..."</p> <p>"Nice effects from the use of shelf lighting and track lighting throughout the main area."</p>



AWARD	Commendation - LiDA
PROJECT NAME	Greenwood Roche
PROJECT ADDRESS	CIP House, Level 13, 36 Customhouse Quay, Wellington
AWARDEES	Jonathan Custance of Custance
CREDIT	Interior Designer: Laura Perica of Custance
CONVENOR	Amy Taylor
DESIGNER'S STATEMENT	<p>Greenwood Roche is a medium sized legal practice who have recently moved to the top floor of their existing building near the Wellington waterfront. With existing low ceilings and the client's requirement for a densely populated floor plan, the illusion of space became the primary design challenge. The intent to make the office appear higher whilst opening out to the views, resulted in a tight space plan and tedious ceiling design. Regardless of complexity, the appearance of simplicity and volume was paramount, which meant light fittings had to remain inconspicuous or concealed wherever possible.</p> <p>The selection of fittings were chosen very early on in the design process in order to accommodate the restricted height which later informed the bespoke ceiling design. Visual comfort, minimal maintenance and sustainability were also key considerations in the selection of light fittings. Light was used to delineate communal areas from work zones and allow the client flexible control to illuminate each zone. Integral lighting also essential in highlighting the bespoke design features without overpowering them.</p> <p>As a subtle extension of the design itself, light creates rhythm, increasing the sense of volume and accentuating 3-dimensional form. Greenwood Roche's new office is an efficient and dynamically lit space, supporting it's extensive views and providing them with a facility to welcome staff and guests into their vibrant, family-like culture.</p>
JUDGE'S COMMENTS	<p>"Clean, simple architectural treatment of a commercial space. Clever use of fixtures and techniques to create a variety of spaces.."</p> <p>"Good integration between interior architecture and lighting design"</p>

# Gateway Bridge, Arches



AWARD	Excellence - LiDA Commendation - DARK SKY AWARD
PROJECT NAME	Gateway Bridge, Arches
PROJECT ADDRESS	Memorial Avenue, Christchurch
AWARDEES	John Mackensey of LDP Limited
CREDIT	Warren and Mahoney, AECOM
CONVENOR	Amy Taylor
DESIGNER'S STATEMENT	<p>The brief was to provide a lighting design which would complement the iconic bridge structure and provide a great experience for locals and visitors whilst ensuring the safety for motorists and pedestrians.</p> <p>The design strategy was to deliver a uniform luminous effect to the structure to enhance its size and scale. The designer wanted to provide impact from distant views, without being overpowering or distracting to drivers closer to the interchange. Maintaining a balance of intensity between the general road lighting levels and the arch lighting was important. Variable colour-changing effects to suit the seasons and specific occasions was integral to the design.</p> <p>The installation comprises 50 x Energylight Lumenpulse Lumenbeam RGBW DMX controlled LED projectors. Various models and beam angles were used – a very narrow 6 degree beam for longer throws allowing a superior focus of light on the target surface and limiting the light spill, through to a 40 degree x 10 degree elliptical beam for very close throws.</p> <p>The luminaire wattage, when displaying full white, ranges from 14W to 100W depending on the model. The small form factor blends easily into the environment discreetly during the day.</p>
JUDGE'S COMMENTS	<p>"A very challenging project with technical and aesthetic requirements. It is great to see the project included a full mock-up"</p> <p>"Great use of coloured light"</p> <p>"The design minimizes light spill, provides safety for pedestrians and prevents distractions to passing drivers."</p>

# Armstrong Prestige, AMG Performance Centre



AWARD	Commendation - LiDA
PROJECT NAME	Armstrong Prestige, AMG Performance Centre
PROJECT ADDRESS	6 Detroit Place, Addington, Christchurch
AWARDEES	Evan Owens of Cosgroves
CREDIT	MSH Architects
CONVENOR	Amy Taylor
DESIGNER'S STATEMENT	<p>At Armstrong Prestige, the vehicles need to be the centre of attention showcasing the premium performance and desirability of the Mercedes AMG brand. The key requirement of the lighting is to highlight the vehicles and provide a warm and inviting experience for customers to 'build their dream'.</p> <p>Using a combination of track mounted adjustable Parscan luminaires (4000K, 46° and 60°) provides over 2000 lux to each of the three vehicles. The relatively wide beam angle of the luminaires aimed at minimal tilt angle results in extremely effective glare control with high visual comfort.</p> <p>In the adjoining sales area and customer lounge there is a combination of warm white ERCO Gimbal and Skim downlight luminaires. The result is high visual comfort and ambience.</p> <p>The inventive solution has managed to meet the requirements of the brief, whilst providing an elegant lighting solution that truly showcases the engineering excellence Mercedes-AMG epitomises.</p> <p>Clients walking into the new AMG Performance Centre are greeted with exquisitely presented "precious gem-like" luminous vehicles. The space is warm, inviting and personable, providing the perfect setting for them to build their new dream vehicle. All this is achieved while still creating drama and contrast with high visual comfort.</p>
JUDGE'S COMMENTS	<p>"Excellent visual perception of the cars as 'display objects', contrasting with the office areas through the change of colour temperature. Simple but good!"</p> <p>"Good use of technical equipment to create efficient results with good impact on the key areas."</p> <p>"Appropriate use of colour temperature and rendering and appropriate life/cycle luminaire selection"</p>



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# NEW ZEALAND CHAPTER MANAGEMENT COMMITTEE (NZ CMC) 2018/19

Our thanks to the following people for volunteering their time to help run the IESANZ here in New Zealand, as well as their employers for supporting them in their respective roles:

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