

OUTLINES

**STEPHENSON
& TURNER**
SUMMER 2011

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Stephenson&Turner integrates architecture and building services engineering to deliver working, living and playing environments that bring out the best of the people who occupy the buildings and spaces created for them. To do this, our firm is influencing our future built environment in a surprising variety of ways. Our architects and engineers work at the top of their fields and, as you will see in this issue of Outlines, are thought leaders in building air flow analysis, fire safety design, lighting, climate change impacts on coastal landscapes, and conservation of our heritage built environment.

It is when our teams of experts bring their minds together that our multi-disciplinary practice truly shines on the global stage. Our very own Wellington design studio, crafted by an integrated team of engineers and architects to achieve recognition as a world excellence 6 Star Green Star Interior, is a beautiful example of our effectiveness in harmoniously designing working spaces that respect the environment, the function and the budget! We are also proud to have supported First Light at the US Solar Decathlon, providing architectural and engineering integration mentoring to the team which placed 1st in engineering, 2nd in architecture and 3rd overall in this prestigious international competition.

So please enjoy Outlines summer edition - and don't be limited to the printed page! Use your smart-phone/tablet **QR Reader** or **QR Droid** app, scan the **QR Codes**, and be taken to video vignettes which explore the issues in depth. Scan the QR Code below to be transported to our new website and leave us a comment - we would love to hear what you have to say.

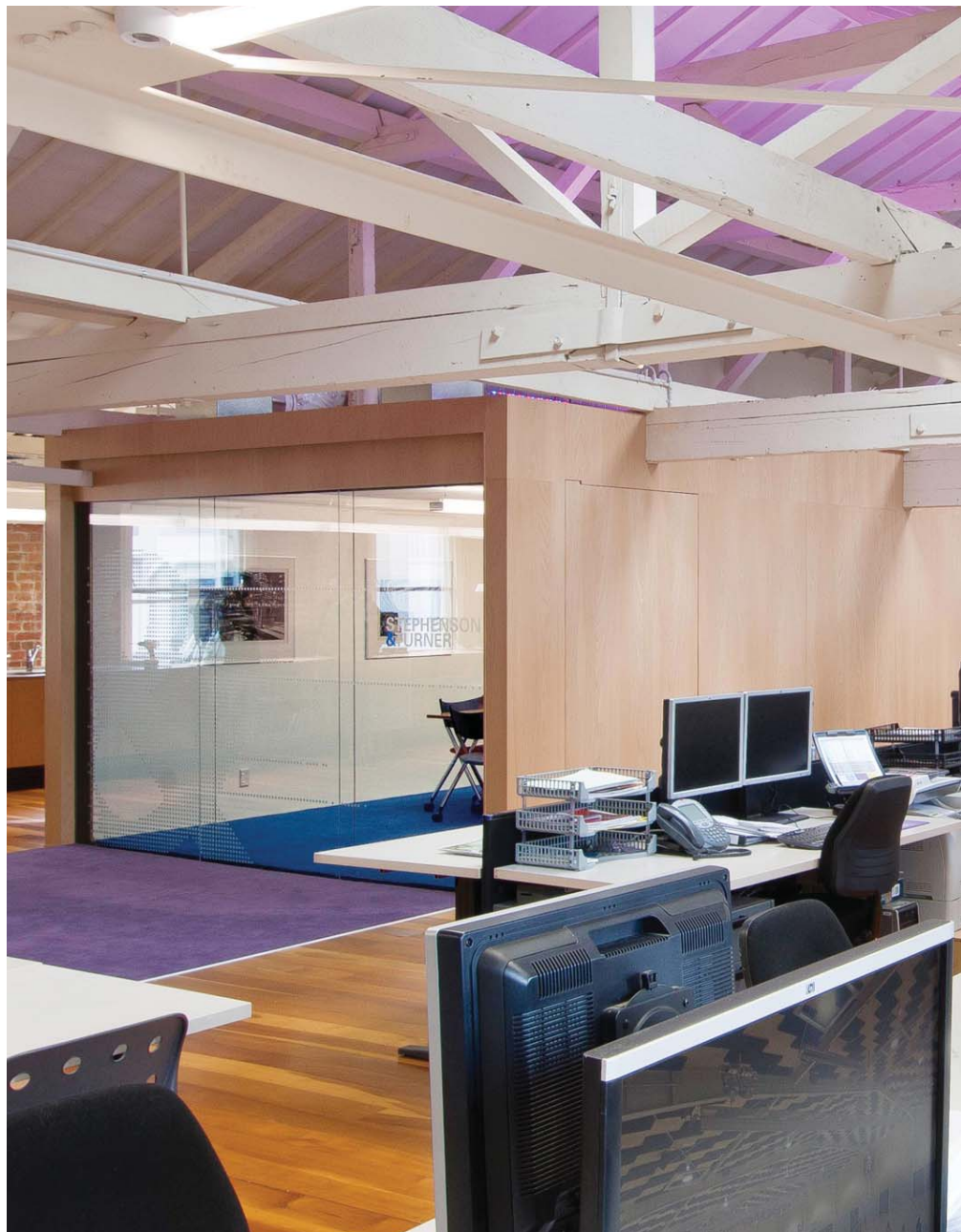


Murray Pugh
CHIEF EXECUTIVE



STOP PRESS

Congratulations to Pierre Van Tonder, William Lindesay and Jeremy Quiding each of whom are now Registered Architects. Holding the legal title of Registered Architect sets a professional apart from other designers, having satisfied their peers that they are competent practitioners in their own right across a multitude of skills and capabilities. S&T now boasts 11 Registered Architects servicing clients throughout New Zealand and the Asia Pacific region.



6 GREEN STARS FOR S&T

Officially open for less than six months, S&T's Wellington Design Studio is being hailed by our team and other industry professionals as a resounding refurbishment success. Not only is the light, open-plan environment encouraging communication and productivity within the Wellington team, but it is also winning numerous design awards. The fitout is the first historic building in New Zealand to attain a 6-Star Green Star Interiors rating from the New Zealand Green Building Council - the highest possible under Green Star.

The studio's grand opening held on June 30 was attended by about 150 of our valued friends and colleagues. Jane Henley, World

Green Building Council CEO, and Celia Wade Brown, Mayor of Wellington, performed the opening night honours.

Through this design S&T aimed to prove that great sustainable design is not necessarily about spending excessive money or adding worthless appendages to design. The open-plan office speaks to our firm's core philosophy of "creating inspirational environments."

For the entire article and videos from opening night please visit www.stephensonturner.com/articles, or for more information on Green Star refurbishments, please contact **Dennis Chippindale** at **04 894 4709** or dchippindale@stephensonturner.com.



PROJECT:
S&T DESIGN STUDIO

LOCATION:
WELLINGTON

SERVICES:
ARCHITECTURE & BUILDING
SERVICES ENGINEERING

AWARDS:

6 STAR OFFICE INTERIORS
New Zealand Green Building Council

SILVER DESIGN AWARD - OFFICES
& WORKPLACE ENVIRONMENTS
*Designers Institute of New Zealand's
Best Design Awards*

SUSTAINABLE SYSTEM AWARD
Resene Total Colour Awards

AWARD OF EXCELLENCE - ENERGY
EFFICIENCY
IESANZ Lighting Design Awards

AWARD OF COMMENDATION -
LIGHTING DESIGN
IESANZ Lighting Design Awards





A PLAN FOR PAIHIA

The best design solutions are those which evolve out of a joint venture between users, inhabitants and planners where urban designs are enhanced by local knowledge of a community's specific needs.

S&T have been privileged to work on a truly collaborative project with Paihia, a bustling little seaside town with a rich history and flourishing tourist economy. The goal was to create a new plan with a focus on delivering a unique sense of place for the town with a contemporary maritime feeling and enhanced connection between the land and sea. The process itself was enjoyable and involved full engagement and communication between designers and client.

The master plan provides a future 'look and feel' for Paihia, however, as with all good long-term planning, the staged design retains flexibility to meet the changing needs of the growing community.

We look forward to working with the Focus Paihia group in seeing this fantastic plan to fruition and to meeting their goal of becoming the number one tourist destination in the country!

Read the full story at www.stephensonturner.com/articles. For more information on the Paihia Master Plan or how S&T can help reinvigorate urban areas elsewhere, please contact **Ken Stanton** at kstanton@stephensonturner.com or 09 920 9510.





NEW ZEALAND THIRD IN U.S. SOLAR DECATHLON!

During the excitement of the Rugby World Cup you might have missed New Zealand's success in another prestigious international competition - only this one was a competition showcasing the best in solar-powered housing.

Every second year the U.S. Department of Energy holds a competition challenging university teams to design, build, and operate the most attractive, effective, and energy-efficient solar-powered house. The Victoria University of Wellington First Light team took third place in the competition - a truly amazing result for the first time entrants in a fierce competition against 19 other invited university teams from around the world.

As proud Gold Sponsors of the team, Stephenson&Turner provided the services of Michael Warwick, lighting and electrical engi-



PROJECT:
FIRST LIGHT HOUSE FOR U.S. SOLAR
DECATHLON

LOCATION:
WASHINGTON, D.C., USA

SERVICES:
MENTORING / ELECTRICAL ENGINEERING

**STEPHENSON
&TURNER**

neering Associate, to assist in the engineering design and architectural integration.

To read the full article, please visit www.stephensonturner.com/articles. For more information on First Light please visit their website at www.firstlighthouse.ac.nz or contact Michael Warwick at 04 894 4711.

PROJECT:
MIDLAND PARK LIGHTING

LOCATION:
WELLINGTON

CLIENT:
WELLINGTON CITY COUNCIL

SERVICES:
LIGHTING DESIGN



S&T LIGHTING

New technologies are transforming the world of lighting – a world where the shape of light is limited only by the imagination and where a myriad of colours can transform a space and enhance performance and mood.

To further S&T's passion for creating inspirational lighting environments, Principal Glen Wright has established S&T Lighting which brings together a group of experienced, award-winning lighting designers. The uniqueness of our lighting

designers is that they live in an architectural and engineering environment where there's a cross pollination of architecture and engineering and a mix of aesthetic and technical skills.

If you were disappointed with the lighting on a past project, you feel that there was an opportunity lost, or you have a lighting concept or objective you would like to see implemented please don't hesitate to contact **Glen Wright** at **04 894 4723** or **gwright@stephensonturner.com**, or to read the full story go to **www.stephensonturner.com/articles**

DESIGN FOR A RESTLESS LANDSCAPE

In the June issue of Outlines we discussed the issue of climate change and the increasing threat of sea level rise on large urban centres like Auckland and Wellington.

Since then S&T Principal Bernd Gundermann, a Professional Teaching Fellow at the University of Auckland, led a seminar for Masters students at the School of Architecture and Planning tackling this relevant issue. The challenge he posed to students was to envisage Auckland in one hundred years time with a significant rise in sea level and then to propose ways to reshape selected coastal areas.

The solutions the seminar students came up with ranged from the pragmatic to those almost verging on science fiction. They are a demonstration of the power of unrestrained thinking applied to a potentially devastating problem. These case studies envisage an urban future behind safe coastlines and strengthen New Zealand's leadership in the worldwide efforts to meet the challenge of climate change.

For the entire article please visit www.stephenson-turner.com/articles. For more information, please contact **Bernd Gundermann** at 09 914 6093 or bgundermann@stephensonturner.com.

"It is encouraging that the emerging generation of architects, witnesses of the disasters of Christchurch, are open to take our urban culture to the next level. Driven rather by their adventurous spirit than by despair, they have evidenced that they can assess the problem and tackle it on a professional level." – Bernd Gundermann



Image courtesy of Gabrielle Free



FACELIFT FOR WELLINGTON HERITAGE BUILDING

In challenging economic times New Zealanders are, more than ever, acknowledging the economic and sustainability benefits of renovation versus building new. It is encouraging to see building owners are not only saving money and reducing the amount of extra waste that ends up in our landfills, but they are also preserving and protecting the cultural heritage of our country by restoring buildings of historical importance.

The AMP Society Building at 86 Customhouse Quay in Wellington is a great example of this. After a year on site the final finishing touches have been made and the last of the scaffolding has come down to reveal the glory of the building's freshly refurbished façade. Having stood since 1928 with minimal exterior maintenance,

it is no surprise that the building façade was showing significant signs of deterioration by its 80th birthday. The exterior of the building was generally stained and in need of cleaning and repointing in its entirety.

After sourcing supply of closely-matching Sydney Sandstone and an expert stone masonry firm, Traditional Stonemasonry Ltd, to carry out the refurbishment works, work commenced in September 2010. It has been a privilege for S&T to lead this work, ensuring one of Wellington's most unique and significant heritage buildings is conserved for years to come.

Read the full article on our website at www.stephensonturner.com/articles. For more information on S&T's work on historic building renovations, please contact **Chessa Stevens** at **04 894 4713**.

PROJECT:
AMP BUILDING FACADE RESTORATION

LOCATION:
WELLINGTON

CLIENT:
AMP

SERVICES:
CONSERVATION ARCHITECTURE

STEPHENSON&TURNER
ARCHITECTS AND ENGINEERS

A beautiful, enduring building begins with people...

This belief drives us to bring together a team of architects and engineers, who listen, question and imagine the potential to craft something of real, lasting value.

For more information on our full range of services please visit www.stephensonturner.com or contact these offices:

AUCKLAND
152 Fanshawe St.
Level 2
PO Box 1830
Auckland, 1140
+64 9 303 1249

WELLINGTON
158 Victoria St.
Level 2
PO Box 11393, Manners St.
Wellington, 6142
+64 4 472 7899

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PO Box 1830
Auckland, 1140
+64 9 309 9419

WELLINGTON
PO Box 10145
Wellington, 6143
+64 4 472 7905

CHRISTCHURCH
PO Box 13324
Christchurch, 8141
+64 3 377 3757

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AUCKLAND
PO Box 1830
Auckland, 1140
+64 9 377 6500

WELLINGTON
PO Box 5666
Wellington, 6145
+64 4 384 6890

Creating inspirational environments.

**STEPHENSON
&TURNER
ARCHITECTS
ENGINEERS**

Articles are available in extended format at:
www.stephensonturner.com/articles

Outlines is printed on environmentally responsible stock. It is manufactured using Elemental Chlorine Free (ECF) pulp sourced from sustainable, well-managed forests. Oxygen bleached, dioxin and acid free. Certified under ISO 14001.



Image courtesy of Event Base: www.eventbase.co.nz

A SAFER RWC

Thanks to S&T's fire engineers and several event organisers it's good to know that festivities surrounding the recent Rugby World Cup were not only fun, but safe. Michael Dixon and his team carried out fire safety reviews of temporary structures created for specific events, including the Fanzones for the RWC, Cirque du Soleil and structures erected for seasonal functions like the Winter Garden at Wynyard Quarter. These structures range from simple marquees to inflatable buildings, some with a combination of rigid and flexible coverings.

Depending on the size and type of event, most of these structures required a building consent and part of that process is a fire safety review. Fire reviews focus particularly on the occupancy numbers and egress provisions, but also look at the flammability of the fabrics used. Some projects included temporary seating that required temporary installations of manual fire alarms, signs, or emergency lighting. S&T's fire engineers carry out these reviews to the building code requirements and liaise closely with the Fire Service to ensure requirements under the Evacuation Regulations are met.

Partygoers and event organisers were able to relax and enjoy the festivities thanks to the efforts of that went in beforehand to ensure the public's safety.

For more information on conducting fire safety reviews for your future event, please contact Michael Dixon at 09 920 9500 or mdixon@stephensonturner.com.



Biosciences Centre Atrium at the University of Auckland

SUSTAINABLE DESIGN - AN ENGINEER'S HEADACHE?

Design trends for modern buildings are setting high expectations for comfort, amenity, and sustainability. The emphasis on open spaces, indoor-outdoor flow, and open roofs and galleries, is creating a lot of complexity for engineers responsible for air flow and ventilation.

When the ventilation systems are a component of fire safety design, the reliability of engineering predictions becomes a life safety issue. There is a growing awareness of the complexity of analysing air flow in a building under such conditions, and the need for peer review to ensure the robustness of design.

Stephenson&Turner's engineers offer a one-stop shop for peer reviews and original design requiring close interaction between fire and mechanical systems. For more information please contact Paul Taylor at 09 920 9512, or read the entire article at www.stephensonturner.com/articles.