



S  
&T

# OUTLINES

SPRING 2007

STEPHENSON  
&TURNER  
ARCHITECTS  
ENGINEERS

# A NEW IMAGE...

Welcome to the latest edition of Outlines, and to a whole new look for Stephenson&Turner!

As you can see, the company now has a new 'face' - a bold and distinctive visual identity that reflects the direction we've set ourselves for our future. It's the culmination of many months of research and discussion, and we're delighted to give it its first official outing here.

And the reason behind the change? "Our 50th birthday celebrations last year inspired us to look back to the past and ahead to the future," says S&T's Chairman, Ken Stanton. "We recognised that the company, its clients and its business have changed dramatically in the past half century - today, our team represents more than 25 nationalities, and our work and client base continue to diversify.

"Our new identity expresses our commitment to 'creating inspirational environments' - for our staff and our clients. It's about being leaders in architecture and engineering, providing creative, innovative solutions. It's refreshingly different and remarkably flexible, just like us!"

Created in collaboration with Sanders Design, the logo's colours are deliberately 'lifestyle' oriented, with an additional focus on sustainability (green) and strength (black). Its block capitals give a subtle nod to architecture, and it's flexible enough to fit into spaces large and small and of varying shapes and sizes - which means it's great for everything from stationery to t-shirts.

So, we have a logo that says what we do and says it with style. We hope you like it!

# STEPHENSON &TURNERARC HITECTSENGI NEERSCREATI NGINSPIRATI ONALENVIRO NMENTS



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# ... AND A NEW LOCATION!



1-3 - The Stephenson&Turner new brand identity and imagery.  
4 - Business card designs.  
5 - The interior view of the Stephenson&Turner office.  
6 - Grant Thornton House.  
7 - Floor plan drawings of the new Auckland office illustrate how light, views and usable space are considered.

**“Moving into this new space has created a real buzz and sense of excitement for everyone. It’s a statement of who we are and what we do... we all love it here, it’s great.” - Paul Raven, Director**

On 25 May Stephenson&Turner’s Auckland team moved to a new location at 152 Fanshawe Street - part of a new business precinct that’s also recently become home to companies such as Vodafone and Air New Zealand, and has already been a stamping ground for a number of S&T projects.

Our view from the floor-to-ceiling glass windows on level 2 of the brand-new building takes in the constant traffic of Fanshawe Street and the contrasting vista of Victoria Park, with its summertime civilised games of cricket and wintertime bare-treed desertedness. Inside, the space is alive with industriousness, as architects and engineers work in a single, open-plan space that’s deliberately visible from the reception area.

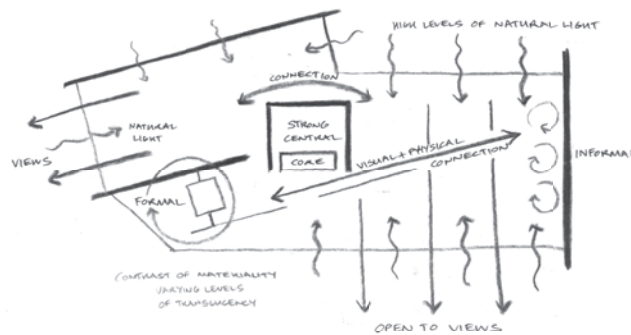
“We want our clients to feel part of our team - whether we’re at their place or they’re at ours,” says S&T Chairman Ken Stanton. “The interior design reflects this, with wide open spaces and an airiness that encourages conversation and interaction. It’s a creative, thinking environment - an office with personality.”

This ‘transparency’ is echoed in the cables, ducts and other services that can be seen above the white ceiling planes, in the exposed concrete walls and in the polished concrete floor. Timber adds necessary warmth and colour, while lighting creates a working yet welcoming ambience. To make the most of the natural light and views, the office is oriented diagonally, with a foot traffic path extending from the

working area to two small meeting rooms and one large conference-style room with expansive views to the outside.

“Moving into a new space has enabled us to design an office for the future,” says Ken. “We have room to grow, plus technology options that include audio-visual and videoconferencing facilities - a key factor in enabling effective communications between our Auckland and Wellington offices. We’re also close to the motorway and have great parking facilities - and we can promise excellent coffee to our visitors!”

**“After celebrating our 50th anniversary last year, this is a fantastic new beginning. We’re in an environment that expresses how we see ourselves, that complements our new brand and to which we’ll be proud to invite our clients. Combining our professional disciplines is also a great new approach - as a working hub it encourages creativity and collegiality at a whole new level.” - John Wardle, Director**



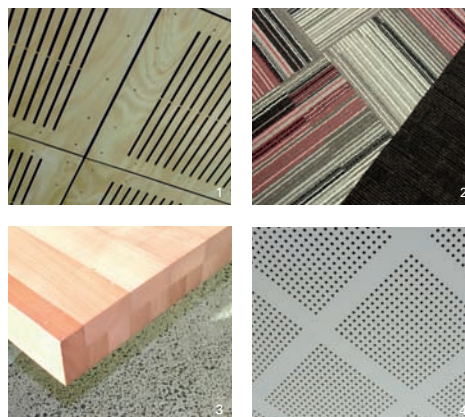
# REACHING FOR THE 'GREEN' STARS

**Proud of our commitment to environmentally sustainable design, Stephenson&Turner has taken a 'Green Star' approach to designing its new Auckland office.**

The interior design is based on the published Australian Green Star accreditation tool, as a New Zealand equivalent is not yet available. Recycling is a key focus, with shelving, tables, internal doors and kitchen joinery transferred from S&T's previous office. Workstation screens are also reused, covered with new, 100%-recycled polyester fabric to suit the new fit-out. Elsewhere, environmentally friendly materials include nylon modular carpet tiles, eco-sourced timber and plywood, and plasterboard ceilings.

Energy savings have been achieved by:

- using a variable refrigerant volume (VRV) heat recovery system for the air conditioning, meeting Green Star requirements for ozone depletion potential
- dividing the open-plan floor into air conditioning zones of about 50 square metres with a VRV controller in each, providing each zone with comfort control and, outside standard working hours, operation for individual air-conditioned zones
- monitoring and controlling CO<sub>2</sub> by varying the fresh air supplied to zones
- shutting down the supply of fresh air and cooling to empty meeting rooms
- installing stand-alone air conditioning in S&T's computer server room to avoid running the building's base system continually
- using motion sensors that switch lights on and off in areas of intermittent use, such as meeting rooms, toilets, corridors and back-of-house spaces
- restricting lighting - for the first person to enter the office, only the corridor and their work area will illuminate
- using manual light switching in individual offices and enclosed spaces
- installing light-level sensors that dim lights gradually then switch them off if there is enough daylight to provide 400 lux at desk level. Facilities are provided for window blinds to close if the perimeter light level exceeds 650 lux
- ensuring efficient water use with pressure-reducing valves
- enabling the re-routing of fresh air from the open-plan area to a function area created by opening up the reception area, meeting rooms and boardroom.



Natural light is also maximised, with light from windows expected to significantly benefit 60% of the open-plan area (an important Green Star measure). Noise levels and reverberation times are within the recommended range for open-plan offices.

S&T is also working with the building's owner, Townscape Halsey Investments, on applying Green Star principles to other tenancies. We'll be undertaking post-occupancy energy system tuning and energy-use recording and are planning a number of recycling programmes. We're also addressing the building's environmental management by monitoring waste recycling, waste reduction, water consumption, the use of low-impact cleaning products and the maintenance contracts for heating, ventilation and air conditioning (HVAC) systems. S&T is currently developing a Tenant Guide for all building tenants to help ensure the systems are used efficiently.

An additional feature of the new premises is its closeness to major bus routes virtually outside our door on Fanshawe Street. Plans are underway to install bike racks in the basement to encourage staff to leave their cars at home.

It all adds up to a new, highly energy-efficient environment in which it's also enjoyable to work - a statement of best practice in environmentally sustainable design.



1-4 - S&T has taken a Green Star approach to its new Auckland office. Recycling is a key focus, with table tops transferred from S&T's previous office, nylon modular carpet tiles and eco-sourced timber and plywood and plasterboard ceilings.

5-7 - Broadway Junction in Newmarket, Auckland, winner of the Excellence Award in the retail category. Photography by Patrick Reynolds.

8 - 22 Viaduct Harbour Avenue, winner of the Excellence Award in the commercial office category. Photography by Patrick Reynolds.

## S&T AGAIN PROMINENT IN PROPERTY COUNCIL AWARDS



Stephenson&Turner's architects and engineers have received industry recognition in the 2007 Property Council of New Zealand Awards.

The Excellence Award in the retail category went to Nuffield Lane Ltd and Newcrest Group for Broadway Junction in Newmarket, Auckland - one of New Zealand's most highly regarded retail precincts.

The Broadway Junction project converted an eclectic strip of outdated shops into larger, contemporary retail spaces. S&T's challenge was to design an effective and innovative retail strip that both provided flexibility and future-proofing to suit retail tenants' requirements and fitted within the scale of the existing urban fabric. S&T's design solution achieved this objective with an innovative, integrated building services design that used simple yet precisely detailed elements to deliver a 'blank canvas' on which retailers could express their own brands.

Newcrest Group was also involved in M4 Investments Ltd's 22 Viaduct Harbour Avenue project, which won an Excellence Award in the commercial office category. The project was developed as the final stage in a three-stage master-planned development overlooking the Viaduct Harbour.

S&T provided a full complement of engineering services for the project, which comprised a total of 10,215 square metres of office and supporting retail premises. Our solution also provided a largely seamless integration of tenancy fit-outs for major corporate tenants Microsoft and Hewlett Packard.

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## CAPITAL FOOTBALL TEAM MOVES HOUSE

The new Wellington Phoenix football team - New Zealand's only professional football franchise and the only Kiwi team in the Australian Hyundai A-League competition - now has a new training base at Newtown Park.

Originally located beneath the Park's stadium, the new training base provides modern, spacious facilities and much-needed shelter from the wind for the Park's running track. If needed, the single-storey structure can be modified to accommodate additional spectator seating above - providing flexibility for the future of this fledgling team.

**Client:** Wellington City Council  
**Architecture and Services Engineering:**  
 Stephenson&Turner



## NEW LABORATORY FOR UNIVERSITY

The University of Auckland's Faculty of Medical and Health Sciences now has a new teaching laboratory for pharmacy and pharmacology students.

Replacing an inefficient and outdated teaching area, the laboratory provides a modern, open-plan learning environment with flexibility - for teaching either two groups of 36 students or one group of 72.

"We've employed modular island teaching benches, served with essential services such as water, power and data, vacuum, compressed air, natural gas and carbogen [a mixture of carbon dioxide and oxygen gas]," says Stephenson&Turner Director Alan Seelye.

"To provide for maximum workability, we've located these services clear of the benches so that students can use their entire surfaces for equipment and lab work. We've also placed 'wet stations' at each end of the benches, and located support areas and other equipment around the perimeter."

The facility is also served by a suite for teaching laminar flow techniques under aseptic conditions - it includes separate wash/gown entry and exit lobbies.

"The Faculty is recognised around the world for its excellent teaching and research programmes,

and it understands the importance of offering its students modern, sophisticated teaching and learning environments," says Alan. "This new laboratory meets international standards, and should serve the University's requirements for many years to come."

**Client:** The University of Auckland  
**Architecture and Building Engineering Services:**  
 Stephenson&Turner



# A SPORTING OPPORTUNITY

Ten years after Stephenson&Turner designed and built a new aquatic centre for Porirua City Council, we're back on site - building a new recreation centre adjacent to the very successful swimming facility.

Destined for completion in spring 2008, the new centre (which replaces a smaller facility that no longer meets modern standards) comprises two main halls. One houses three large, competition-sized basketball/netball courts, while the other fits just one court. The centre also includes support facilities such as a fitness gym, changing rooms, meeting rooms, offices and staff services. The recreation centre will share the aquatic centre's existing entrance area, so that's being revamped - and the surrounding Te Rauparaha Park is being improved and extended.

"The Council was looking for a venue with the capacity to host national basketball and netball competitions, that could also be used for concerts, seated-meal events and trade shows," says S&T Director Dennis Chippindale. "The result is a simple, modern form made of materials designed to complement its intended uses."

The building has a concrete and profiled metal exterior, with an exposed concrete block interior - contrasted with carpet and splashes of colour. All sports flooring meets international rating requirements, and there is seating for 2000 people (3000 for an indoor concert).

"The residents of Porirua - and visitors from beyond the city - will have a much-improved sporting and events facility," says Dennis. "What's more, the combination of recreation centre, aquatic centre and Te Rauparaha Park will provide an enhanced visitor experience that's sure to prove popular."

**Client:** Porirua City Council

**Architecture and Services Engineering:**  
Stephenson&Turner



**"...the result is a simple, modern form made of materials designed to complement its intended uses."**



1 - The Newtown Park training base for the Wellington Phoenix football team.

2-4 - New laboratory for the University of Auckland's pharmacy and pharmacology students.

5-8 - Renderings of the Porirua recreation centre by Ian Stantiall of Stantiall Studios.

## ENHANCING OUR FIRE ENGINEERING EXPERTISE

**“It’s very satisfying to create systems that are designed to save people’s lives, often within very complex buildings.”**

In the past few months we’ve tripled the size of our fire engineering team with the appointments of Martin Wong in Wellington and Vitali Prylepski in Auckland. This increased capability enables fire safety to be truly integrated into building designs early in the design process.

Fire safety engineer Martin Wong is originally from eastern Malaysia - he travelled to New Zealand in 1993 to undertake his seventh form year at high school in Christchurch. That was followed by a civil engineering degree and a Master’s in fire engineering at the University of Canterbury, and three years as a fire engineer with Beca Carter.

Martin’s role at S&T includes auditing and reporting on buildings’ fire safety systems as well as developing fire-protection specifications and dealing with local authorities on consent applications and other necessary documentation.

“I find the work interesting and challenging,” he says. “It’s very satisfying to create systems that are designed to save people’s lives, often within very complex buildings. I also enjoy the interaction between S&T’s architects and engineers - when these different perspectives meet, we can often find innovative solutions to our clients’ needs.”

S&T’s Director of Mechanical Engineering, Chris Rowe, is delighted that Martin has joined the team. He says Martin is a free thinker and is excelling in the S&T ethic of innovative, cost-effective, design-led solutions.



Vitali Prylepski joined S&T in October 2006 after three and a half years with Beca Carter, two years with Fraser Thomas Engineering and five years with Wormald - all in Auckland. He’s a native of the Ukraine, and travelled to New Zealand in 1996 on the recommendation of friends who’d already immigrated.

Vitali gained a Bachelor of Engineering degree in electrical engineering from Kiev University in 1987 and has worked in fire protection ever since, initially designing fire alarm/control systems for nuclear power stations in the Ukraine. He’s now a chartered professional engineer and member of IPENZ.

“I enjoy the variety of the work at S&T,” he says, “and the unusual thinking and alternative solutions it often requires. Sometimes you have to feel the design, not just follow instructions or the usual ways of doing things.”

Like Martin, Vitali’s involved in assessing and reporting on fire safety systems for both existing and proposed buildings, including specifying egress routes and fire ratings for structures and partitions. He also designs fire-protection systems, such as sprinklers and detectors, and special protection systems such as VESDA alarms and gas flooding fire-suppression systems.

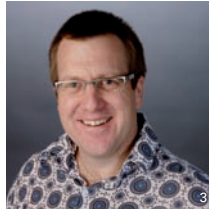
# NEW ASSOCIATE DIRECTORS APPOINTED

## Stephenson&Turner is delighted to welcome two new Associate Directors to the company.

Murray Robertson joined the company in 2005, bringing with him more than 10 years' architectural experience in Wellington, Edinburgh and Bristol. Murray's work has spanned the architectural range, from residential, high-density residential and retail to commercial architecture, including student accommodation and laboratory projects. His recent work with S&T has included the award-winning refurbishment of Wellington's AMP Building (which featured in the June 2006 issue of Outlines) and the Laby Building extension at Victoria University of Wellington.

Murray says he's especially interested in sustainable design - a key focus of S&T's work. "The philosophy and practice of sustainable design are particularly relevant to S&T, with our engineers and architects working side by side to produce environments that really work," he says.

Murray is an accredited assessor for BRANZ's Green Home Scheme (an independent method of assessing the environmental performance of new homes) and is currently undertaking training for accreditation for the Green Star programme (an environmental rating system for buildings). He's also responsible for co-ordinating training for the Wellington team, which aims to ensure we share our skills and knowledge as effectively as possible.



1 - Martin Wong  
2 - Vitali Prylepski  
3 - Murray Robertson  
4 - Paul Duval

Building services engineer Paul Duval has joined S&T after five years as Plant and Systems Manager at the University of Auckland. British born, Paul has spent most of his life in Christchurch and has worked in a variety of maintenance and project management positions. He has considerable experience managing major mechanical services and infrastructure engineering projects in the health and education sectors. Paul holds New Zealand Certificates in Engineering in both HVAC and mechanical engineering and in 2001 graduated with a Master of Engineering Management from the University of Canterbury. He moved to Auckland in 2002.

As an Associate Director, Paul will be responsible for managing engineering projects and design teams, taking a particular interest in building services controls.

He comments, "Although I've spent most of my working life in the building services field, my experience has been mainly in building, maintaining and operating mechanical services systems rather than designing them. I'm looking forward to this new challenge, and hope that my practical experience will be reflected in efficient and easily maintained mechanical services systems."

## FAREWELL TO TWO COLLEAGUES

**Stephenson&Turner's Company Secretary and Accountant John Wheeler and Associate Director Dennis Smith will soon be retiring after many years of dedicated service. We asked them to tell us about the highlights of their careers, and their plans for the future...**

### John Wheeler

On 7 June this year John Wheeler completed 30 years of service with S&T as our Company Secretary and Accountant - what a milestone!

Not one to relish the limelight, John typically understates the contribution he's made in that time. However, having been with S&T since the days we were a Kiwi/Oz company, he's seen plenty of change - in the people who work here, the way we work and the way he does his job (although he continues to do his spreadsheets by hand). But his dedication has never wavered - he says he still prefers Monday mornings to Friday afternoons, and that he simply enjoys working.

Based in Wellington, John's role has evolved over the years from pure accountancy to a more management-oriented approach. He's also taken on extra duties along the way - like making sure there are biscuits in the tin and refreshments in the fridge! Come Easter, he also enjoys giving Easter eggs to the ladies at S&T Wellington, although his supply has had to expand to cope with the numbers - from three or four when he first started, to 18 in 2007! He insists that the demand on his wallet is not the reason behind his retirement...

Talk personal highlights and John mentions the overseas trips he's taken with the company - he reckons he's been to more countries, eaten in more restaurants and stayed in more Hilton hotels than the rest of the S&T team. "I've also had a load of laughs," he says. "We've had some great people working here, and I enjoy giving the young newcomers a hard time. It's been fun."

John's assistant, Song Jing, will be taking over the reins when John leaves. As for the future, he plans to travel - to Scotland (where his wife Shea comes from) next year and to places new after that. "We'll take it day by day," he says. We like that approach.

### Dennis Smith

Dennis Smith has been an architect with S&T since 1984.

After qualifying in New Zealand, his wife's linguistic studies led Dennis to Switzerland in 1964, where he worked for two years with Burckhardt Architekten in Basel. Burckhardt had strong links with several of the major Swiss pharmaceutical companies and Dennis designed research buildings for subsidiary companies in Britain, the United States and Brazil.

He then moved to north Germany as an architect in the private practice of Professor Walter Henn at the Technical University of Braunschweig, using his Swiss experience on a project for Schering Pharmaceuticals in Berlin, together with several Bürolandschaft office buildings and a competition for the new University of Bochum.

Dennis and Christine returned to New Zealand in 1968, where he joined multi-disciplinary practice KRTA. His first project was the North Shore Crematorium, followed by work on Fisher & Paykel's Springs Road fridge factory - and Khon Kaen University Health Sciences Centre in north-eastern Thailand added hospital design to his laboratory experience. Dennis also designed the New Zealand Treasury offices at No. 1 The Terrace in Wellington.

In 1984, Dennis joined the S&T Auckland office, becoming project architect for the Starship Children's Hospital, which was then at sketch design stage. The Hospital dominated Dennis's time for the next seven years, and he has subsequently worked on a number of health/research-related projects at the University of Auckland and Auckland and Middlemore Hospitals and commercial projects for AMP (including a refurbishment of the Treasury building), TOWER and other clients. Most recently he's managed S&T Auckland's move to its new location.

Dennis won't be leaving S&T altogether - his technical know-how is too highly prized! He'll be helping us on some specific projects while also taking the time to enjoy his retirement, which is bound to include a trip or two to Germany to visit one of his daughters, and more regular tramping and fishing.



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# NEW LABORATORIES FOR ENVIRONMENTAL HEALTH SCIENTISTS...

ESR (Environmental Science and Research) will soon have access to a new laboratory building at the National Centre for Biosecurity and Infectious Disease, at Wallaceville in Upper Hutt. ESR will become a key partner in the Centre alongside the Ministry of Agriculture and Forestry (MAF), AgriQuality and AgResearch.

ESR teams will use the laboratories for biosecurity and environmental health protection and management. They will undertake molecular biology, virology and bacteriology work and have access to a suite of support spaces that include equipment, specimen, incubator and isolation rooms. Open-plan write-up areas outside the containment laboratory zone will have direct observation access to the labs for peer review and safe practice monitoring. The building will also include a number of small meeting areas, with larger conference facilities to be available in a new adjacent MAF building.

Designed to reflect the functions it houses, the building will also complement the existing facilities and the rest of the Wallaceville campus. It will fit in with the landscape and its large mature native trees,

using traditional, long-life materials with neutral colours to harmonise with the environment.

As with any facility of this type, says Stephenson&Turner Director Alan Seelye, the design had to meet stringent workflow, safe practice and contamination-containment requirements. Working closely with the ESR project team, S&T has ensured a comfortable and safe working environment in a building whose modular design not only meets current needs but can be extended and altered in the future.

**Client:** ESR  
**Facility Planning, Architecture and Building Engineering Services:** Stephenson&Turner





### Services provided

- Architecture
- Interior design
- Urban design and site development planning
- Engineering:
  - Heating, ventilation and air conditioning
  - Electrical systems
  - Plumbing and drainage
  - Fire engineering
  - Acoustic engineering
  - Communications and information technology
  - Lift and escalator systems
  - Security systems
- Facility planning
- Facilities' management
- Feasibility and space utilisation studies
- Building surveys and due diligence reports
- Plant and energy audits

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