New Zealand Institute of Architects Incorporated

NZIA Graphisoft 5th Year Student Design Awards 2013
Published by the New Zealand Institute of Architects Incorporated
21 Queen Street, Auckland 1010

With the support of:

New Zealand Institute of Architects Incorporated

Editor: Michael Barrett (NZIA)
Designer: inhousedesign.co.nz
Printer: Crucial Colour

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2014

ISSN 2324-3600

NZIA Graphisoft
5th Year Student Design Awards
2013

Cover drawings by Stephanie Rose
Introduction

Winner
Raphaela Rose

Highly Commended
Nathan Swaney
Alexander (Sacha) Milojevic

Finalists
Ashley Benck
Marianne Calvelo
Tara-Lee Carden
David Cook
Toby Coxon
Tessa Crosby
Hayden Grindell
Michael Holehouse
Daniel Smith

Student portraits
The NZIA Graphisoft 5th Year Student Design Awards

The 5th year Student Design Awards is a competition-based format involving four nominated students from each of New Zealand’s three architecture schools: The University of Auckland School of Architecture and Planning, Unitec Department of Architecture and Victoria University of Wellington School of Architecture. From 12 presentations, the jury selects a single NZIA Graphisoft Student Design Awards winner, who receives a monetary prize of $5,000. Two Highly Commended awards are also conferred.

The student design awards have now been running for more than eleven years and for seven of those years they have been kindly partnered by Graphisoft. One aim of the awards is to provide New Zealand’s leading architecture students with exposure to a jury of high-calibre judges. In 2013, David Sheppard, from Sheppard & Rout, Camilla Block, from Australian firm Durbach Block Jaggers, and John Melhuish, from Herriot + Melhuish: Architecture, undertook judging roles. Alongside their critical expertise, jury members were selected for their strong ties to both professional practice and academia.

The student design awards are presentation based, with nominated students required to present significant final-year projects. Across the years that the awards have been undertaken, a high standard – with respect to both quality of presentation material and verbal explanation – has become customary. In 2013, as in preceding years, there was also evidence of another awards tradition: an incredible diversity in subject matter. The student design awards have now been formally written up and carefully considered from many perspectives.

This year, the judges awarded the NZIA Graphisoft Student Design Award to Raphaela Rose. Sacha Milojevic and Nathan Swaney were Highly Commended. Without exception, the jury reports that the students acquitted themselves both highly commendably. The NZIA offers all finalists congratulations and extends its best wishes for the future.

New Zealand Institute of Architects
March 2014
Winner
2013 NZIA Graphisoft
Student Design Award

Raphaela Rose
University of Auckland School of Architecture and Planning

Above: ‘Ms. Al Capone’s Tea House for the Speculative’, one of Raphaela Rose’s 13 tongue-in-cheek structures proposed for Auckland’s CBD.

Right: ‘Rapunzel’s Titillating Observation Tower’, another of Raphaela Rose’s spectacular modern-day, theme-park structures.
Raphaela Rose  
University of Auckland School of Architecture and Planning

Sex(uality) and the City: Counteracting the Cock-ups of Auckland’s Main Strip

This project was provoked by two events in Auckland’s sexual history: the Prostitution Reform Act 2003 and plans for the Chow Brothers’ “Super Brothel” in the heart of the city. What impact do these events have on the social ecology of Auckland and what does the changing perception of sexuality and sexual economy mean for the built environment? This project proposes a smaller-scale city, a ‘speculative archipelago’ comprised of 13 individual buildings. Each addresses the symbolic significance of different issues occurring in the sexualised body politic of Auckland city, while formally, each building responds to its respective situation. In oscillations between spectacular, primitive and refined, these buildings allow a voyeuristic gaze to fall upon politically defined architectural forms.

Architecture is cleverly and gainfully employed as a satirical tool in this mischievous project. The scenario calls for the city blocks containing the Sky Tower, casino and proposed new super-brothel to be surrounded by a fun park themed by recent local sex scandals. The result is a joyful, rollicking series of attractions, each of them like an exquisitely and wittily conceived fable. Beneath that sugar-coating, a subversive message filters through, undermining the current environment that has been foisted upon the city.

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Nathan Swaney
University of Auckland School of Architecture and Planning

Extraction Lands and the Permanence of Production
This design forms part of a wider discussion on how we have become reliant on the landscapes that provide for us. In extraction lands – oil fields, mines, and quarries – what role does architecture play once the resource is depleted? This project’s context is Taranaki, with New Plymouth on a finite timeline thanks to oil and gas extraction. The proposed Seafarer’s Centre and Shipbreaking Yard has three main aims: to find alternative futures for the machinery once used in this process of extraction from the earth; to recycle some of the material produced by extraction efforts; and to attempt to re-engage the transient and disconnected operations of a reclaimed wharf site with the local community.

Citation
Offshore oil and gas rig hardware, salvaged and recycled as a ship-breaking yard, is this project’s guiding idea. The scope is expansive and heroic. The themes of industrial decay and rebirth – as well as waterfront habitation – are convincingly juxtaposed.
Newmarket Campus as a Porous Megaform

The impetus for this project is the University of Auckland’s replacement of two outer-suburb campuses with a new 5.2ha campus on the site of the old Lion Nathan Brewery in Newmarket. The design is conceptualised as a dense and porous aggregation of overlapping places that are carefully excavated and geological in form. There are places for singular and group learning amongst ramps and roof terraces, there are shared spaces, retail opportunities, and places for transportation. The aim of this ‘special place apart’ is to be different from the rest of the city, yet contribute good urban design through built-in permeability.

Created with intelligence and intuition, this project offers a vision of an educational community, conceived in an organic manner from a series of single rooms outwards. It recognises the ‘world apart’ quality great universities share, yet does not ignore its urban context. Every part of this deftly presented scheme exudes a sense of passion for architecture.
Ashley Benck  
Victoria University of Wellington, Faculty of Architecture and Design

Bio-Body Reactor  
This thesis questions how the cyborg – as a hybrid creature, composed of organism and machine – can be used as a catalyst to re-engage the body with architecture. The method employed is iterative, with three key areas explored in the argument of the proposition: precedent, site and programme. The design method concentrates on a process of fluctuation between the analogue and digital, micro and macro, body and machine. The inquiry also acknowledges and accentuates the current condition of Wellington City as a macro entity, and prepares it for the future by rethinking existing parts, such as the industrial mechanisms that could contribute to the city’s energy generation.

Citation  
This exploration of the complex relationship between humans and machines (cyborgs) is presented with impressive, evocative imagery. Integral to the concept is the presence of algae and its potential to sustain humanity on several levels. The building itself has a cinematic, menacing and thought-provoking quality.
Marianne Calvelo
University of Auckland School of Architecture and Planning

Mad Women: A Contemporary Architectural Translation of Domesticity
This project – a proposed headquarters for Architecture + Women NZ – is sited within Auckland’s St. Kevin’s Arcade, on Karangahape Road. ‘Mad Women’ is an investigation of how a contemporary translation of domesticity is being negotiated today. It recognises the developing conflation of the domestic realm and the workplace, historically viewed in spatial opposition, analyses the position of women within in the architectural profession operating within this blurred condition, and traces the development of an alternative framework of dynamic and flexible workspaces that are explored through a multi-layered drawing process.

Citation
One of Auckland’s much-loved buildings, St. Kevin’s Arcade, is reinterpreted as the headquarters for Architecture + Women NZ. The result is a genuine alternative to conventional workspace, with cleverly integrated children’s play areas and flexible gathering rooms. The whole is intimate and intricate.

Below St Kevin’s Arcade, at the edge of Myer’s Park in Auckland, reimagined as an office for Architecture + Women NZ.

Right A sectional view of the office, which marries aspects of home and office life in the form of flexible workspaces.
City of Flux: Liberating the Concrete Terrain

City of Flux considers the Wellington CBD’s potential response to climate change over the next century. The design component of this research is to modify a section of the existing urban fabric, like a hinge between land and sea, to accommodate, prepare and adapt for flooding. In order to form a design framework to respond to sea-level rise, internationally implemented adaptive strategies have been employed. The scheme operates as a water-management network, with an infrastructural backbone in the form of a high- and low-line canal system for ferry transport and three architectural connectors that allow direct access to buildings flanking the site.

This imaginative proposition grapples with the almost insurmountable problem of impending sea level rise. Moats, canals, locks and aqueducts are all employed to create a new urban playground and work precinct on the Wellington waterfront. The need to think beyond artificial property lines and take into account the city’s underlying geomorphology is addressed directly and confidently.

Citation

Tara-Lee Carden
Victoria University of Wellington, Faculty of Architecture and Design

Left: Canals and connections envisaged as an architectural response to future sea-level rise in Wellington.

Right: Drawings based upon strategies of sea-level rise adaption: accommodate, defend, retreat.
David Cook  
Unitec Department of Architecture

Reclaiming the Lost City
This work addresses the historical pieces of architecture that have survived the Christchurch earthquake. What happens to these remaining fragments of history? The earthquakes have presented Christchurch with an opportunity to build a central city with new and exciting buildings, but what is to become of the surviving fragments of Christchurch’s architectural history? This project looks for the balance between responding to both the past and the future. Above all, it explores how a theatre project inserted between the ruined façades of old buildings might revitalise the city. This civic gesture invites people back into the city with an architecture that connects to their senses and memories.

Citation
This design for a civic arts space is a thoughtful response to some of the questions now facing Christchurch. Using materials lovingly rescued from earthquake rubble, a centrally placed oculus acts as a symbol of light and hope. The spirit of preservation embodied by the project provides an alternative to wholesale demolition.
Desiring Affect
Following recent ontological shifts within the social sciences, discourse within architectural and geographical circles has sought an understanding of space and the built environment through the lived experience of the body. This design explores the Spinozan notion of ‘affect’ as a strategic approach to design – that is, how to overcome experiential limitations of conventional design processes. This reconsideration of an everyday space – a bakery/café – seeks to engage at a visceral level. Moving imagery becomes a diagrammatic driver for the multiple imperatives of the design – program, movement and form – with a particular focus on the intangible conditions of space.

Citation
This ambitious investigation into the beginnings of the design process questions the fundamentals of static habitation. The result is a proposed bakery/café composed of a sequence of sculptural, elastic spaces.

Toby Coxon
Victoria University of Wellington, Faculty of Architecture and Design

Bottom: Chaffers Street Bakery incorporates moving imagery into its design in an attempt to break down spatial boundaries.

Below: Various perspectives of the conceptual design.
Social Sutures: The Integration of the Medical Facility into the Urban Tissue

'Social Sutures' explores the relationship between architecture, urban design and healthcare. Hospitals, frequently, are large institutional complexes located on city fringes. What if a multifunctional institution was stitched into a city’s urban tissue? This scheme – for a Regional Oncology Centre in Auckland’s CBD – investigates just that. This work contends that such a design would provide greater social connection for patients and enhance inclusion, significance and belonging in the wider social context.
Date with Data
This project explores the emerging architectural typology of digital data infrastructure, those places known, more commonly, as data centres. Data centres are the core physical infrastructure of digital information networks and are typically isolated from population centres due to functional constraints and potential tension with urban contexts. This design concept argues that the integration of digital data infrastructure within the city can be beneficial, and the design research addresses the context in which the physical infrastructure of global information networks can be reconfigured to contribute spatially and technologically to urban Wellington.

Hayden Grindell
Victoria University of Wellington, Faculty of Architecture and Design

Citation
An unglamorous and ordinarily unseen part of our infrastructure – data storage – takes centre stage in this project. Several solutions are investigated, one of them a self-contained tower of austere beauty. In another, complex, sectional relationships are explored to house disparate uses with deft integration of the ground plan.
Architecture for the Whangamarino Wetland

This project addresses the lack of access to the Whangamarino Wetland, a significant freshwater wetland situated in the Waikato. A range of architectural interventions scattered across the wetland have been explored, with each pertaining to a different part of this rare and important habitat. The project recognises the inextricable links between earth, water and vegetation, with these three key factors combining in different degrees to create a variety of unique, ever-changing conditions for architecture.

Below: A section of a viewing tower proposed for the wetland setting in the Waikato.

Right: Render of a ‘summer bridge’, designed to accommodate seasonal variations in water level.

Conceived as a distilled series of poetic moments, this project sensitively opens the door to a previously inaccessible wetland. Considered, restrained archetypal forms (demonstrated by highly crafted models) have been designed to eloquently acknowledge the ground conditions on which they stand.
Humanitarian Architecture, People, Place & Power

Architecture is often concerned with humanitarian needs. Often, the concern of the architectural profession is improving the quality of the built environment for those in need. This project, which recognises that without participatory design processes, humanitarian architecture risks being detrimental, expands the facilities of the Mercy School, in Cambodia. It creates a space for positive social engagement between the various groups of people within the community. Programmatic and social needs were achieved by designing boundaries and thresholds that reveal spaces for public social activities, while creating visual privacy where needed.

Citation

The challenges facing a Western architect assisting in a Third World country are at the heart of this project. After exhaustive consultation with the inhabitants of a Cambodian village, the designer has arrived at a sensitive, honest solution for a series of new public buildings. On a site with difficult climatic conditions a limited palette of materials and construction techniques has been harnessed to deliver a convincing, positive outcome.
David Sheppard
David, the current President of the New Zealand Institute of Architects, is a director of Christchurch firm Sheppard & Rout Architects, a practice he established with the late Jonty Rout in 1982 after a period managing the Christchurch office of Kingston, Reynolds, Thom and Allardyce. After graduating from the University of Auckland, David attended the University of Pennsylvania and then spent a decade in practice in the United States and England. He has a strong background in planning and urban design and recently was a member of the team that produced the Blueprint plan for the redevelopment of central Christchurch.

Camilla Block
Camilla is a director of Sydney-based Durbach Block Jaggers, a practice that undertakes residential and public projects with equal vigour. Born in South Africa, Camilla moved to Australia at age 12. She studied architecture at the University of Sydney and, in her final year, was taught by fellow South African émigré Neil Durbach. In 1992 Camilla joined Durbach in practice; six years later Durbach Block was established, and in 2011, with David Jaggers becoming a director, the firm expanded. Camilla has been a design principal on all the firm’s major projects, including those that received the AIA’s Robin Boyd Award for Housing and Wilkinson Award for Housing.

John Melhuish
John is a founding director of Herriot + Melhuish: Architecture, which he set up with Max Herriot in Wellington in 1997. Prior to the establishment of Herriot + Melhuish, John worked for 10 years with Athfield Architects. John’s projects at Herriot + Melhuish have run the gamut from residential alterations through to exhibition design and commercial office development. He is particularly interested in the adaptive re-use of heritage buildings, and puts a strong emphasis on the fabrication and construction of buildings that are designed with creativity and flair.

Award for Housing
Each year the NZIA presents the Education Award for Housing. The award is open to final year students of the Bachelor of Architecture degree who have a particular interest in housing and are in the process of designing a housing development. The award includes an honorarium of $500 and a certificate. The winners are selected by a panel of judges from the entries received. The judges are selected by the NZIA for their expertise in architecture and related fields. The judges are: David Sheppard, Camilla Block, and John Melhuish.