Portfolio of Environmental Design and Action

As a designer and member of the social, natural, built, and technical environment, my imperative is to facilitate and engage in activities that explore inclusive attitudes, transdisciplinary collaborations (scientific, humanistic, technical, creative, and spiritual), and whole systems thinking. My design ethos and skills are strongly attached to the public domain, civically oriented projects that ensure environmental and social justice. I use methods of design organization, creative exploration, mapping, information synthesis, and principles of landscape ecology to promote dialogues about the generation of place and plans for implementation. Please share with me in this exploration and inquiry.

Abigale Jane Stangl, 2011

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Design Manifesto

Landscape Architecture is a form of revelation, a series of acts of revealing that which was before unknown. The acts or actions of Landscape Architecture can be defined in terms of the practice of revelation and the actions that disclose new experiences and understandings of relationships in purposeful ways. The genesis of the acts, the evolution of the actions, and the associated results occurring within space and mind, intentionally and as unregulated forces, are the products of landscape architecture. Therefore, the practices become a medium through which people as well as places become and are thus revealed/exposed to the world, rather than a series of prescribed approaches.

There are many realms of actions through which the methods, processes, systems, and intentions interface to reveal complexities of our lives and environments, and thus define strong and weak relationships between terrestrial functions and human relations. However, landscape architecture, as defined, cannot function without the initial act of confirming human beings (individually and collectively) as the central position from which any other act within the field is derived. Human beings are complex creatures, and our actions, thoughts, adaptations, and attitudes have insured that our energy outputs can have great impacts.

To assume these positions, the field of landscape architecture has also taken on the task of balancing three roles, or states of being through the agents of revelation—those individuals who perform actions for the process of discovery, the landscape architects: 1) being as the receiver of revelations (the person for whom something has been revealed); 2) being as a result of the acts (the person obtaining and responding to a new understanding, new evaluation

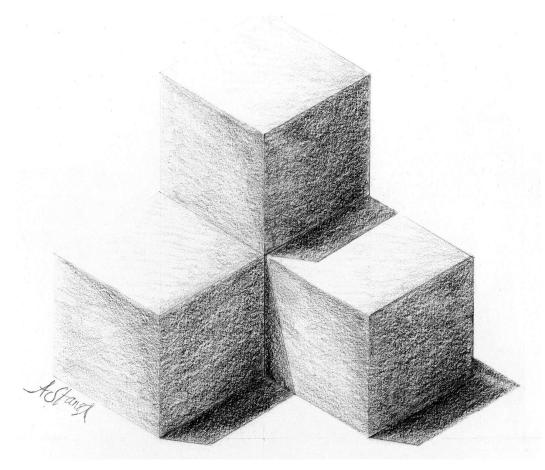
methods, new methods of observation, new opportunities for survival, or new abilities to share and transpire the new knowledge); 3) being the dictators (a person who makes pronouncements of the actions themselves). Each of these states of being fulfills the others and establishes the premise for how landscape architects might approach or respond to each of the different realms of design actions through acts of revealing that which was before unknown to themselves or to their clients, through philosophical, theoretical, or intuitive motivations that are not defined by geography or time.

While it is futile to think that every person will take on the role of the agent (a person striving to embrace the three states of being) or that the profession can take on the abilities of an individual, the nature of existence insures that every person ventures on a path of discovery through the aid of community or themselves. Furthermore, it is very rare, if not impossible, for one individual to obtain the full knowledge, intuition, or understanding of another individual, or species, or system—although we are perpetually trying to understand how through science, religion, and technology.

Therefore to assume the role of the landscape architect or the agent who performs actions to reveal that which was before unknown, we as landscape architects must embrace the responsibility of living and practicing as the mediator, or care taker of the three states of being (at both the level of the individual and the profession). The interpretation of this statement, as an action to reveal the purpose of landscape architecture, must then be responded to at the personal level, in relation to what has been revealed to the agent in his or her own development. There is an obligation to establish a foundation from which the process of revelation for oneself and for the sake of the rest of humanity can be explored.

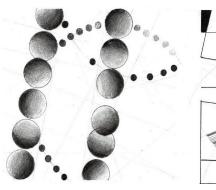
This Is My Revelation

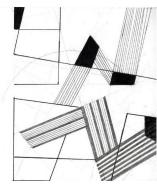
As the receiver of revelations (from external influences), as the result of the acts themselves, and as the dictator of actions, I am a person becoming through landscape architecture. I exist within the aim of empowering people. I am a resource for and a participant in the networks and systems that create awareness. I am a nurturer of those relationships through active engagement, inspecting, and development. My personal acts include: curiosity, creation, recognition, celebration, memorialization. Through the processes of observation, understanding, synthesis, creation, sharing, and disassociation (letting go of control) the result of these acts should result in: finding the beauty in hard places, extinguishing injustices, producing temporary phenomenological experiences, investment in long term health, and the growth of others. The direction of action, as dictated by me should: always encourage new revelations.

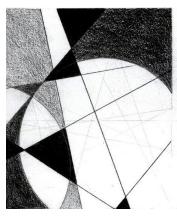


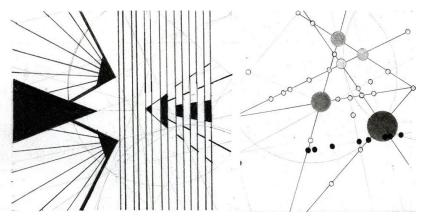
Multimedia Exploration

The exploration of colour, texture and form is a vital part of my life and understanding of the world around me. From abstract light, experiments with printing, to landscape sketches, I search for the relationships between the beautiful and ugly, the soft and the coarse, waste and abundance.













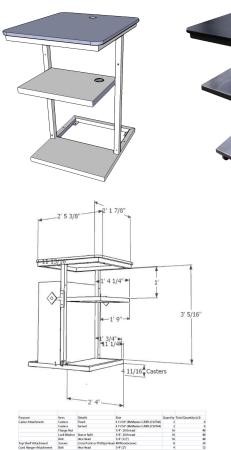














Computer Stand Fabrication

Under the direction of a subcontractor for the Department of Homeland Security, I functioned as the project manager and codesigner of this electronics/computer stand. Presented with rough analogue sketches, I drafted and evolved the design in SketchUP and CAD. I worked with an artists to complete the fabrication.

Community Library Design Model



An abandoned armoury site in Boulder, Colorado has the potential to be repurposed into a site for a new community library. These models were constructed from hard wood during the conceptual library design assignment.





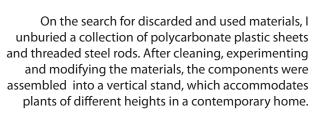






















Private Residence Perennial Planting Plan and Garden



The Butler Residence

Situated within a suburban neighbourhood, this client was looking for a colourful, low maintenance garden and deck design. To establish a dynamic backyard space, I suggested a staggered garden boarder with vegetative anchors and diversity of native and perennial plants.

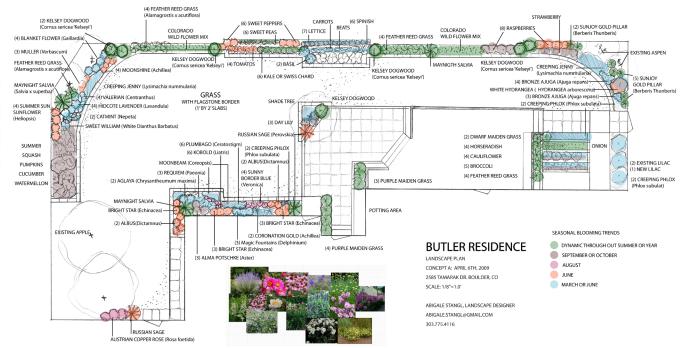


3

Pre-Implementation







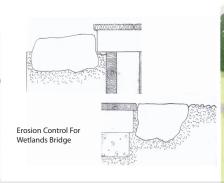
Recreational Trail Maintenance Design Details



UVa-Wise Wetlands Project

The UVa-Wise Wetland Project began as an effort to remediate the impacts of acid mine drainage on the University of Virginia's College at Wise campus. These design details were used to solicit funding, preform maintenance to the site to insure safe visitor usage of a recreational trail through the wetlands.







Gondwana "Ancient Ones" Flora and Fauna Demonstration Area: Botanical Garden Design, Christchurch, New Zealand



Between approximately 200 and 30 million years ago, the planets earthen formations evolved into what we know as distinct continents and geographic locations. The once unified, the southern precursor subcontinent of Gondwana incubated the planets first species. As the landmass drifted apart, the living species began adapting to the environmental conditions according to climatic and geographic conditions. What lies beyond this map however is the living floristic evidence that unquestionably connects South America, Africa, India, Madagascar, Australia, New Zealand and Antarctica as the ancient Gondwanaland.

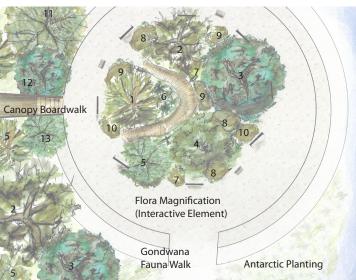


A "rift" walkway separates each sections flora. Within each sections there is a dense and diverse ecosystem of native plants endemic to the respective location, representing the primary plant families indicated to the right. Beginning in the centre at the Extinct Plants Memorial Site and Algae Pool visitors will be reminded of the plants we have lost (anthropologically caused or not) and the origin of all plant life (algae).

Ancient Greats of New Zealand flora can be recognized, cherished, and celebrated within the Christchurch Botanical Gardens. Through the use of large scale (both in terms of the flora's size and notoriety within culture), this planting design is focused to provide visitors with a series of sensational moments during their visit, all the while learning about the diverse flora, ancient roots and their biological connections around the world. Plants were selected by their iconic standings with culture, connection to the primary plant species that existed prior to the rift between New Zealand and Australia (80 MYA).







1. Agathis australis (Araucariaceae) largest species, standing 50 m tall with smooth bark and small oval leave

2. Dacrydium cupressium (Podocarpaceae)

A slow-growing tree, attaining a height of up to 50 m, although most surviving

3. Podocarpus totara (Podocarpaceae)

gevity and the great girth of its trunk. The bark peels off in papery flakes, with a purplish to golden brown hue. The largest known living totara, is over 35 meters

4. Dacrycarpus dacrydioides (Podocarpaceae)

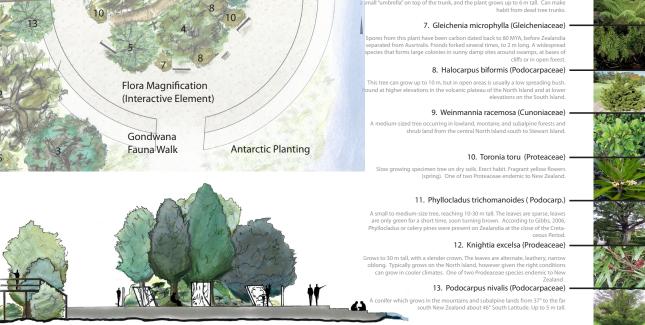
ters, dominant in lowland forest and wetlands throughou the North and South Islands. The leaves are spirally arranged

5. Nothofagus fusca (Nothofagaceae)

A medium-sized evergreen tree growing to 35 m tall. The leaves are alternate Nothofagaceae species have been recorded from before 80 MYA.

6. Dicksonia squarrosa (Dicksoniaceae)

v large fronds, sprout out horizontally and reach 1.5 – 3 m in length. They form nall "umbrella" on top of the trunk, and the plant grows up to 6 m tall. Can make



Sydenham Square Site Analysis: Spatial Understanding and Diagramming, Christchurch New Zealand

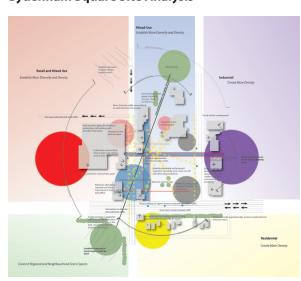


The settlement of Christchurch was planned in England using the standard orthogonal rectangular grid of colonial settlement. Regularity was only broken by the Avon River and two diagonal streets. As Christchurch has grown beyond the point of English planning, the overall pattern has changed and become decentralized. The Christchurch Urban Development strategy has proclaimed that growth management with for Christchurch has often been criticized for being "too permissive and market-driven" and as a result the patterns of the outer city have very divergent patterns of growth.

Sydenham Neighbourhood Transect



Sydenham Square Site Analysis



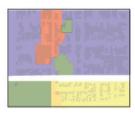
Green space and tree canopy and nearby school ground site establish the natural features of the overall neighbourhood



Primary vehicular nodes indicate a framework of intersections and movement around the site.

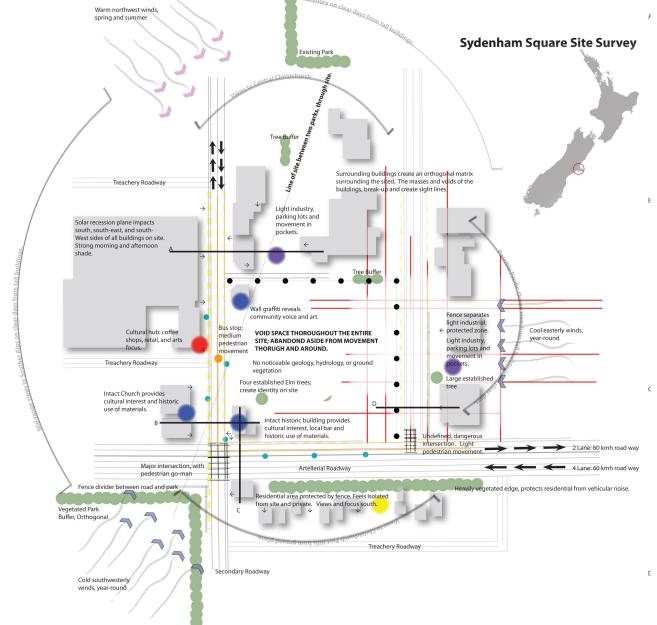


Neighbourhood zoning indicates that this area is the transition point for multiple city uses.



Boundaries around Sydenham square exist in part because of the strong road axis and blocks of development





Sydnem Square sits on the south boundary of the strictly established orthogonal grid, and can be seen as a threshold community; influenced by the orthogonal character of the down town Central Business District (CBD), the angled streets of surrounding residential properties, the intersection of Brougham Street (a primary artillery street) and Colombo, and its overall multiuse character.

Regional Urban Resilience Between 2010 to 2110: Regional Planning, Christchurch, New Zealand

Resilience is the property of a material to absorb energy, become deformed and then, and then recover upon unloading of the energy recover. The City of Christchurch was developed in an area which is subject to many natural disasters and potential deformation. Strategies for resilience as waters rise, land uses change, and resources diminish, is a key factor in the sustainable/long term survival of the city.

The following concept explores one conceptual possibility, which would anchor poignant corridors of the city into the underlying ecology and existing built infrastructure will allow for positive succession, densification, and diversification.

**Please Note: This design exploration was completed one week prior to a 7.2 Magnitude earthquake in the Canterbury region, and was prepared as a conceptual approach to redevelopment before the city was dramatically impacted. The image below is of Christchurch during a subsequent 9.2 magnitude earthquake which has devastated a majority of the inner city and neighbourhoods.



Lavers of Resilience

Resilience and Dense City Centre Character

Cultural attractions, central business district activity-highest density, the most infrastructure security, and still equitable social diversity. Opportunities for cultural expression should occur, and all infrastructure development should look to regionally effective sustainability strategies.

Moderate Density and Resilience

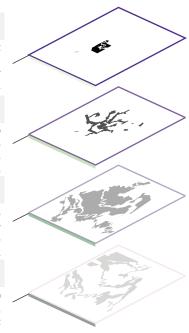
The primary reliance corridors should provide residents with unobstructed access to the respective communities, have a range of uses, and include hubs for public services including fire, gas, police, education, libraries, small industry, and high density living. These areas will provide the infrastructure needed for times of emergency.

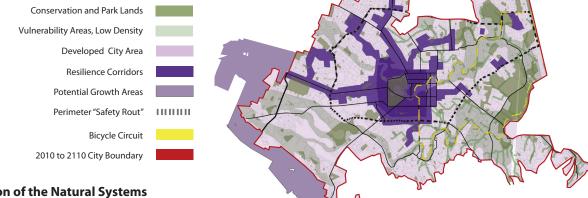
Primary Resilience Corridors

This zone acts as the buffer between the lower density areas and the resilience corridors. Much of the housing in this area is medium density with fingers of higher density laced through. The character and identity of these areas can thrive as there are balanced infrastructural amenities.

Underlying Resilience Corridors

This area is most subjected to natural disasters. Density should not exceed 2010 density rates, and residential properties must also be utilized for food production. These areas are furthest from the Resilience Corridors, but can produce the most food.





Repatriation of the Natural Systems

Green Connections and Waterways

Urban Agricultur

Areas within the city that do not fall within the densest infrastructure resilience corridors shall start to assume more and more responsibility over the next 100 years to utilize the land for food production or other goods that will supply city residents with needed services. Tax incentives may be distributed to people who initiate the system.





2010-2110 Growth Boundary Freeze

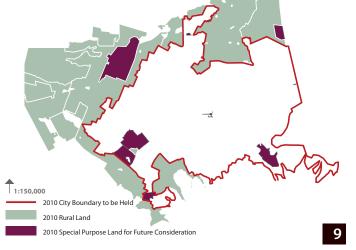
To help promote density increase within the existing city boundary, all permits for building outside of the indicated boundary should cease to be granted until the optimal density is achieved. This will maintain valuable agricultural land close to the city centre for future food needs, and will allow maximum flexibility for future generations land needs, without accruing unnecessary infrastructure costs for society today, and focus efforts towards restoration of currently uninhabitable areas.

Renatriation of Natural Systems in Urban Contex





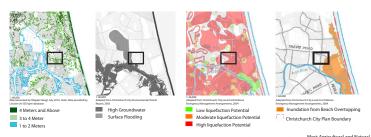
Less Significan



Three Studies of Local Urban Resilience Planning: Urban Design, Canterbury, New Zealand

At every scale the strengthening of Christchurch, to insure its resilience to natural disasters, will depend upon the stabilization, densification, and repatriation of the natural and human systems. With a vision to increase density and establishing distinguishable and diverse community character, the following three urban design projects exemplify how the cite's infrastructure can become more resilient while using the existing framework.

Primary Roadways Permeable Roadways Permeable Roadways Green Space Agricultural Margins Spacific Public Use Spaces Commercial Community Buildings L1 Zoning L3 Zoning Miked Use (A Density) Flood Zone Flood Zone Compilion Wealth Cames Court and Promenade Agricultural Margins Spacific Public Lee Spaces Commercial Community Centre All Zoning L1 Zoning L2 Zoning L3 Zoning Miked Use (A Density) Agriculture Corridor and Boulevard Urban Agriculture Corridor and Boulevard Urban Agriculture Corridor and Boulevard Urban Agriculture Corridor and Boulevard

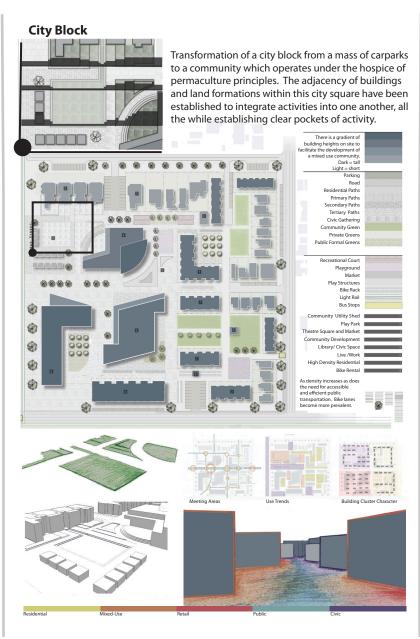


The plan above shows the maximum density envisioned for long-term development (2010 to 2110), and has been designed as a Strong Infrastructure Corridor for the community of North New Brighton. Buildings and infrastructure within this corridor should be developed or retrofitted to be resilient

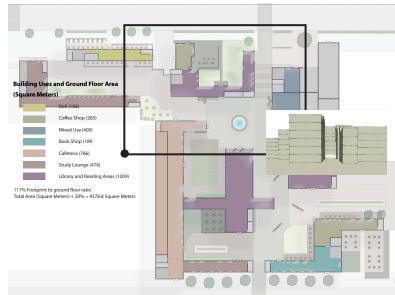
Buffering Based Resilience

Most Social
Service Based
Infastructure
Resilience

against the factors caused by natural disasters, while providing high density living, diverse uses, and many opportunities for community place-making.



Commercial Plot



Transition of an abandoned commercial complex into a university student-housing in the heart of downtown Christchurch. The site has a variety of scaled courts to enable diversity of use, while helping the public move through the threshold of public to semi-private spaces. Use of Visual Passages, Sculptures, Changes in Ground Height, and a series of Green Roof Gardens create many opportunities for engagement.



Bayou Bienvenue Recreation: Wetlands Restoration Design, New Orleans, Louisiana, USA

In 2005 waters of Hurricane Katrina flooded into Bayou Bienvenue and thus converged at the levees on the Mississippi River Gulf Outlet, breaking the constructed walls and quickly inundating the Ninth Ward community. All homes were devastated by the natural disaster and the entire community was displaced.

Joining an effort to explore redevelopment options, I visited the Bayou, met with community members, and conducted local research to identify the need for a passive, yet structural wetlands system that would begin the restoration of a coastal wetlands system and provide a centre for tourism and wildlife observation.







Bayou Bienvenue Pre-MRGO



In 1956 the United States
Congress passed the River
and Harbour Act which
enabled the City of New
Orleans, Louisiana to create
a route between the Gulf of
Mexico and New Orleans's
inner harbour. The construction of the Mississippi River
Gulf Outlet (MRGO) enabled
deep-draft vessels a shorter
rout into the city ports than
the twists of the Mississippi
River and the canal locks
of the Industrial Canal.

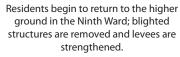
Shortly there after, saltwater began to seep into the lowlands of the Bienvenue, turning a landscape once abundant with Cyprus trees (and even platted for residential use) into an exposed, flooded basin.

ا Hurricane Katrina Hits New Orleans

Property Map of Bayou Pre-MRGO Many Lower-Ninth Ward residents own parcels of land in the Bayou, of which today is water and marsh. Utilizing an

Many Lower-Ninth Ward residents own parcels of land in the Bayou, of which today is water and marsh. Utilizing an ordering system based in historic neighbourhood street patterns I designed a terraced, floating wetlands system to prevent harmful storm serges, while acknowledging the industrial heritage, cultural heritage, and issues of environmental justice deeply embedded in NOLA and the Lower 9th Ward.







10 Years

Wetlands Terraces are functional and passively working. Rebuilding of residences begins to progress.

Transit Oriented Development begins to

take hold near transition and established Bayou Wildlife Conservation Centre.

20 Years





2005

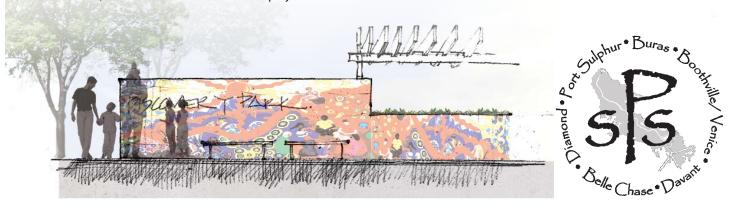
Davant Park: Community Restoration, Louisiana, USA



While visiting Davant Park and presenting conceptual design ideas to the community, residents voiced their immediate need for a children' park and a place for physical activity.

In 2005 Hurricane Katrina destroyed 95% of the homes and structures in Plaquemines Parish, Louisiana. Many of the small and rural communities located along the alluvial deposit of the Mississippi River, including the community of Davant, instantly became displaced from their homes and community. Before the hurricane, Davant Park had the largest community centre and swimming pool on the east side of the Mississippi in Plaquemines.

This project began as part of the Plaquemines Silver Strand master planning initiative, one of seven parks identified for renewal. As a UCAN Serve AmeriCorps, I approached this design process as a means to provide the community of Davant with tools to build their capacity and inspire imagination for what can be created. Specific amenities include play structures and earthen mounding, safe water access, and formal and unstructured play areas.





Davant Park has been a place for recreation and barbecue gatherings for many decades. As the formal parish centre, the residents of Davant have a strong identity and sense of place. The over arching goal for this design was to remind the residents of Davant of what is available for the survival of their community.



Platt Middle School Consolidation: School-yard Site Planning, Boulder, Colorado, USA

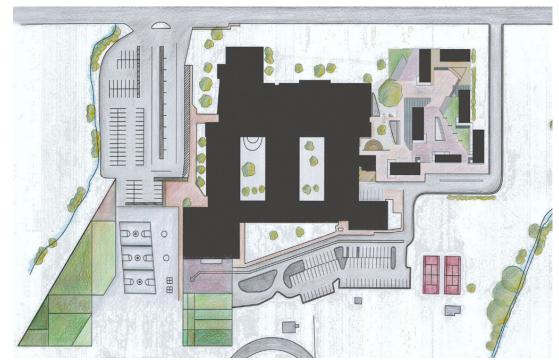
In the fall 2006, Boulder County, Colorado residents passed a public bond measure to replace Casey Middle School with a state-of- the-art "green" school facility on its existing site in Boulder, Colorado. In January 2009 Casey Middle School community moved to the Platt Middle School campus, where Platt and Platt Choice now share their space.

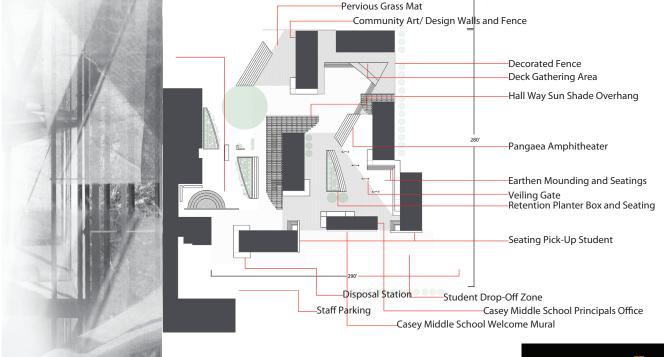
The goal of the project was to incorporate three middle schools onto the same campus, while providing space for each community to maintain their unique identities. The design process consisted of meeting with area middle schools, administrations, and parent organizations to involve all parties in the planning of their temporary school.

















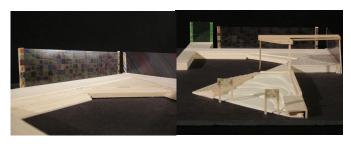


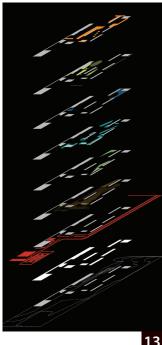






Through the formation of unique land features and veiled and revealed spaces, informal and formal gathering places were established amongst temporary class rooms. Designed with the social behaviour of middle school aged students in mind, no space is too exposed or hidden. The primary ordering system is established by the shifting vertical and horizontal planes and the changing levels as one moves through space. Each space is framed and then revealed by another.

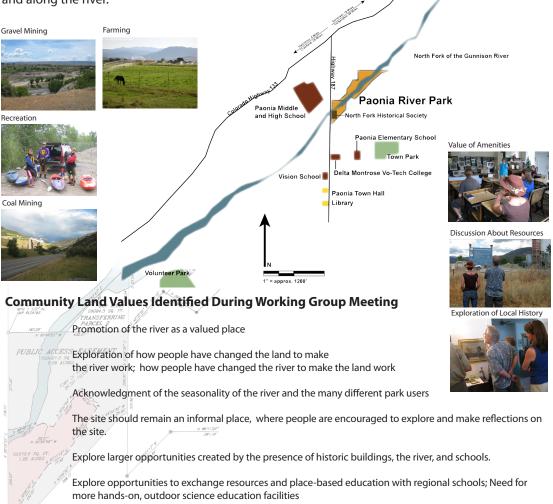


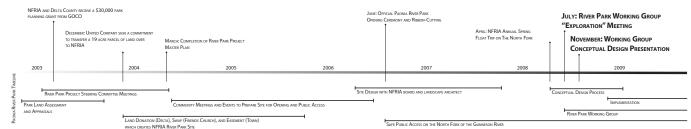


Paonia River Park: Community Development and Watershed Support, Paonia, Colorado, USA

In 2003 the North Fork River Improvement Association began an initiative to create a public access on the North Fork River, now known as the Paonia River Park. Ninety-five percent of the land bordering the North Fork is privately owned, offering no public access to the river. In 2006 a local gravel mining company donated I9 acres of land to the local watershed organization and a public access to the river was created.

As the lead designer my role was to facilitate conversations and include the ideas generated from the Working Group into the conceptual design of the River park. Paonia is a small rural community, and it was critical to acknowledge the hard work that occurs in the North Fork Valley and along the river.











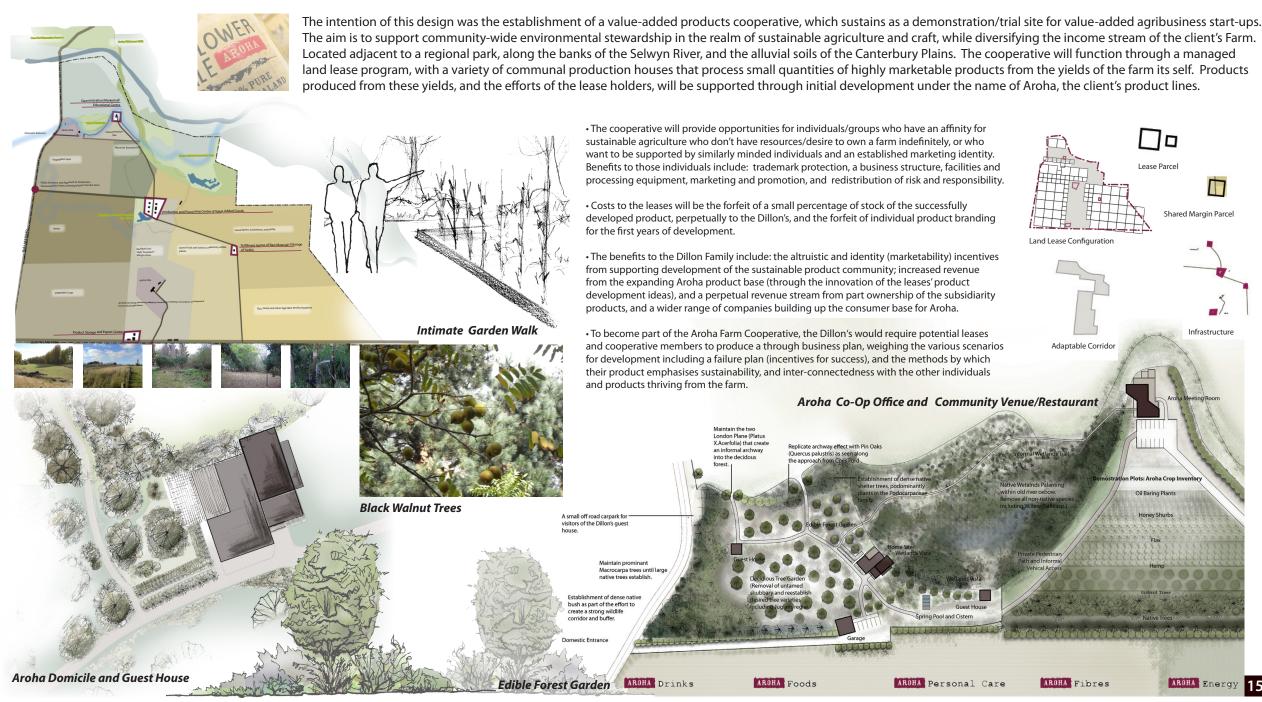




Prior to safe public access, too many residents and visitors trespassed on private land – both illegal and unsafe – creating a potential liability for river-front landowners and ill feelings among residents. The collaborations developed during the design process further opened the land to public use and a diversity of activities.



A Sustainable Value-Added Cooperative at Waikirikri Farm: Social Entrepreneurship, Canterbury, New Zealand



Curriculum Vitae and Contact

ABIGALE JANE STANGL,

Danish Address: Jagtvej 109 H 1.th. 2200 Kbhn, Danmark Environmental Designer and Landscape Planner abigale.stangl@gmail.com +45 50424851 American Address: 350 27th Street Boulder, Colorado 80303, USA

EDUCATION

Lincoln University, Canterbury, New Zealand, School of Landscape Architecture

2010

- Rotary International *Temple Buell* Ambassadorial Scholar (2009-2010)
- Graduate Diploma in Landscape Studies

University of Colorado at Boulder, College of Architecture and Planning

2004-2008

- Bachelors of Environmental Design, Major in Planning with emphasis in landscape design (G.P.A. 3.8/4.0)
- Vice-President of Architecture and Planning Student Government (2007-2008)

RELEVANT WORK EXPERIENCE

Instillation Design and Fabrication Associate, Jen Lewin, Blue Ink LLC

June 2009 to January 2010

Boulder, Colorado, USA

- Creative and technical sculpture development
- Materials research and adaptation
- Mechanical and electrical assembly
- Project management and events planning

Landscape Design and Community Planner, North Fork River Improvement Association Hotchkiss, Colorado, USA

June 2008-December 2009

riotciikiss, Colorado, USA

- Coordinated community working-group, stake-holder meetings
- Managed design visioning and development with governmental, non-profit, and community organizations
- Performed landscape design for the *Paonia River Park* on the North Fork of the Gunnison River
 - Post-industrial (gravel) landscape, floodplain morphology, community park and river access
- Performed grant writing and project support

 $\textbf{Environmental Planning and Watershed Coalition Intern,} \ \textit{Alaska Conservation Foundation}$

May 2007- August 2007

Yakutat, Alaska USA and Haines, Alaska USA

- Edited Yakutat Borough comprehensive plan for format, content, and vision in collaboration with the Yakutat Salmon Board
- Developed educational outreach materials, public radio show scripts, and educational program proposals
- Assisted with stream assessments including culvert recovery and salmon habitat evaluations
- Performed juvenile fish trapping and biological presence studies with the Takshanuk Watershed Council

Water Resource Research Intern, Western Resource Advocates

August 2006- December 2006

Boulder, Colorado

- Conducted research on strategies for meeting western city's water needs, analysis of demand and supply water use
- Contributed general research support for the WRA report "Urban Water on the Wasatch Front," 2006
- Developed educational brochures on efficient household water use, and green-build technologies

Watershed Development and Community Coordinator, University of Virginia's College at Wise Wise, Virginia (Office of Surface Mining/AmeriCorps* Volunteer In Service To America)

August 2005- July 2006

- Coordinated improvement of a constructed wetlands and abandoned mine land reclamation site/educational facility
- Performed fundraising, strategic planning, and community planning meetings
- Facilitated community partnerships between K-12 schools, universities, citizen and student groups, and local and federal governmental agencies.

- Coordinated a 250 person academic conference, "UVa- Wise Landscapes as Our Legacy Conference" to support the utilization of local resources and place-based models of teaching
- Developed and led environmental education based fieldtrips for up to 200 students
- Organized and led a wastewater pollution survey and monitoring project, including bacteria and benthic monitoring

Project Development and Community Liaison, Office of Surface Mining Intern at AMD&ART, Inc.,

May 2005-August 2005

Vintondale, Pennsylvania

- Supported community outreach and event planning (AMD&ART Dedication Weekend/ History Symposium)
- Performed grant writing and general organizational support
- Performed field projects, including vegetation management, stream assessments, and community education

OTHER WORK EXPERIENCE

- The Academy Retirement and Assisted Living Community, Care Giving, Boulder, CO (March 2009-Jan. 2010)
- Q's Restaurant, Restaurant Services, Boulder, CO (Sept. 2004-May 2005)
- Jackson Hole Mountain Resort, Lift Operations/Snowboard Instruction, Jackson, WY (Dec. 2003-April 2004)
- Gros Ventre, River Ranch, Ranch Services, Moose, WY (May 2003-Oct 2003)
- Hampshire College Farm Center, Organic Farm Work, Amherst, MA (Sept. 2002-June 2003)

HONORS AND AWARDS

- Rotary International Temple Buell Ambassadorial Scholarship (2009-2010)
- Giffin Soper Memorial Academic Scholarship (2007-2008)
- University of Colorado at Boulder, Deans List (2004-2008)
- AmeriCorps* UCAN Serve, Plaquemines Parish Park Design (Fall, 2007)
- AmeriCorps* Volunteer In Service To America Volunteer (2005-2006)
- New Vista High School, Culminating Project- Mediation and Arbitration, City of Boulder Mediation Program (2002)
- Rotary International Youth Exchange to Sweden (Junior Year, 2000-2001)

OTHER OUALIFICATIONS AND INTERESTS

- Intermediate proficiency in Swedish, Beginners Danish
- Proficient with Mac and PC, MS Office, Adobe Suite, SketchUp
- National Science Teachers Association (NSTA) member
- ESOL (English for Speakers of Other Languages) Tutor
- Hiking, Snowboarding, Mandolin

PRESENTATIONS

Presenter, Landscape Architecture for Environmental Justice, Lincoln University, School of Landscape Architecture-Seminar Series Lincoln, New Zealand, (July, 2010)

Presenter, River Park Exploration Report, North Fork River Improvement Association-Annual Meeting Paonia, Colorado (March 2009)

Presenter, Building Capacity in Hardrock Mining Communities, National Summit of Mining Communities Butte, Montana (October 2008)

Conference Organizer and Moderator, UVa-Wise Wetlands Project- Legacy As Our Landscape Conference Wise, Virginia (October 2006)

Presenter, Brownfields in Coal Country, New Approaches, Engineers Society of Western Pa.- Business of Brownfields Conference Seven Springs, Pennsylvania (April 2006)

Presenter, Wise Wetlands, Reclamation Studio, Virginia Lakes and Watershed Association Annual Conference Richmond, Virginia (March 2006)

Presenter, Emerging Alternatives in Reclaiming Place, Liabilities to Assets, Goddard College Action In Place Conference Plainville, Vermont (Oct. 2005)