



PORTFOLIO

S H U Y E E C H I N



SHU YEE CHIN

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My design philosophy relies on the harmony between functional effectiveness and narrative quality of spaces. My vision as a designer is to make an impact on human lifestyles, environment, and the world we live in with innovative and inspiring design by creating unique and effective solutions without compromising the human experience of the built environment. My projects are driven to create unique human experiences through seamlessly designed spaces with evidence-based research on human-centered, wellness, universal, and sustainable design principles.

• EDUCATION

B.A. in Interior Design | August 2017-May 2021
California State University, Fresno
Cumulative GPA: 4.0 | Major GPA: 4.0

USAC (University Studies Abroad Consortium) Study Abroad Program |
February 2019-June 2019
Kookmin University, Seoul, South Korea
• Active engagement with peers and professionals of the Spatial Design department
• Cross-cultural experiences through Global Buddies program and International student organization

• EXPERIENCE

Internship program (remote)- Spring 2021
Trope Group: Herman Miller Certified Dealer
• Developed proficiency in developing furniture space planning, installation drawings, and specification book utilizing Herman Miller custom furniture, furnishings, and equipment.

• ACHIEVEMENTS

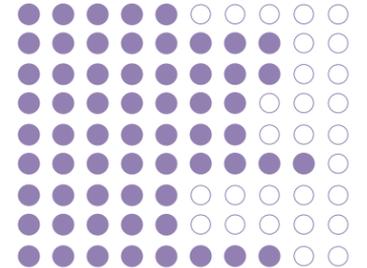
- California State University, Fresno: President List, Fall 2017-Fall 2020
- College of Arts and Humanities Honors Program 2020-2021
- College of Arts & Humanities Dean's Council Scholarship recipient
- Deans Scholarship Tuition Waiver (DSTW) recipient
- Diversity in Study Abroad Grant recipient
- Carroll Moon Scholarship recipient
- ASID Student Portfolio Competition semi-finalist

• CLUB & ORGANIZATIONS

- Active Member of American Society of Interior Designer (ASID)
- Secretary of Malaysian Student Organization (MSO)

• TECHNICAL SKILLS

- AutoCAD
- Autodesk Revit
- Adobe Photoshop
- Adobe Illustrator
- Adobe Indesign
- Microsoft Office Suite
- Sketchup Pro
- Vray
- Enscape



• SOFT SKILLS

- Organized
- Detail-oriented
- Self-motivated
- Team player
- Curious
- Proactive
- Time management

• LANGUAGES

- English (Advanced)
- Chinese (Native)
- Cantonese (Advanced)
- Bahasa Melayu (Intermediate)
- Korean (Basic)



URBAN CULTURAL OASIS

Arts and Cultural Center

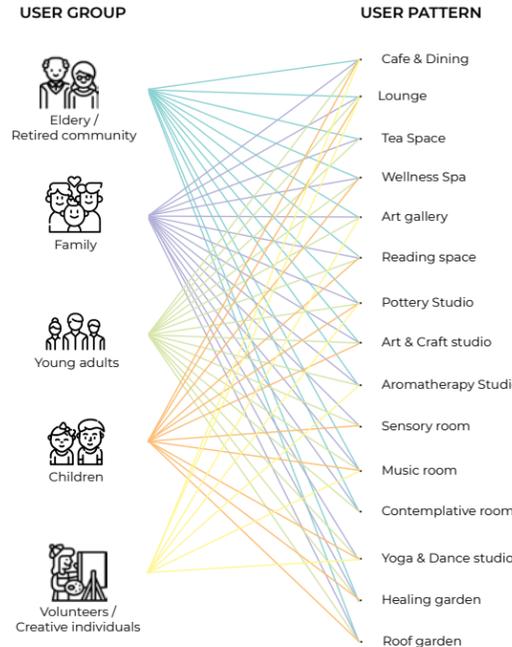
PROJECT DESCRIPTION
 Senior Year Thesis
 Project Type: Individual
 Semester: Spring 2021
 Software used: Revit, Enscape, Sketchup, Photoshop

PROBLEM STATEMENT

In this unprecedented era of digitalization and virtualization, the question that remains is what necessitates the presence of physical public gathering places in urban communities?

- Mental Health
- Privatization of Leisure and recreation
- Losing sense of place and belonging
- Social sustainability

CONSTITUENCY



CONCEPT STATEMENT

Inspired by the escalating mental health issues, privatization of leisure, losing sense of place and belonging prevalent among individuals of the urban community, the Urban Cultural Oasis functions as an Arts and Cultural center with its mission to address the losing of vital social connections between individuals in the urban community of Oakland, California. By revitalizing an existing historical building through adaptive reuse principles, the project aims to address the void of a publicly accessible Third place in the Oakland where mental health is of higher concern as compared to the state of California. The Urban Cultural Oasis is formulated on the basis of creating a restorative environment as a place for city dwellers to unwind, relax, and heal from stressful routines. Building on wellness, sustainable, human design principles, and environmental psychology, the space incorporates programming that aims to promote wellbeing holistically.



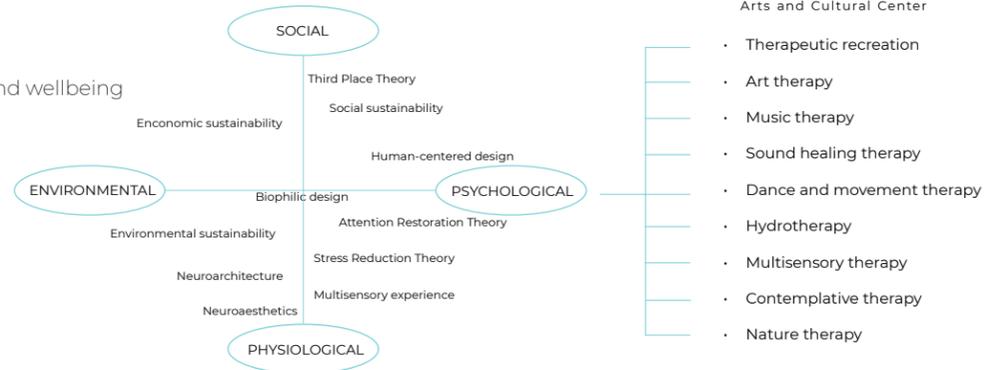
The concept of a **healing garden** is integrated into the design by incorporating outdoor pavilion, benches, and canopy strengthens the connection of the users with the temporal and seasonal changes of the natural processes happening in the ecosystem, establishing deeper connections between occupants with their surrounding natural environment. The introduction of water element into the space through a curvilinear reflecting pool is designed promoting a sense of tranquility and peace, increase perceived restorativeness of the space.



MISSIONS

- A platform for **social support** and foster **community cohesion**
- Acts as a **Third place**, a mediator between First place (home) and Second place (workplace)
- Enhance **sustainable development** with emphasis on **social sustainability**
- **Therapeutic recreation** as preventive approach to mental health issues
- Involvement in **arts, cultural, and contemplative practices** as vital approach to mindfulness and wellbeing
- Establish meaningful and engaging **multisensory human-environment experience**
- Promote **community engagement** through volunteer opportunities
- Improve human experience of public spaces through **wellness design** principles
- Revitalize historical building through **adaptive reuse** of existing building
- Enhance perceived happiness and quality of life

CONCEPT diagram



Urban Cultural Oasis

Arts and Cultural Center

- Therapeutic recreation
- Art therapy
- Music therapy
- Sound healing therapy
- Dance and movement therapy
- Hydrotherapy
- Multisensory therapy
- Contemplative therapy
- Nature therapy



SITE

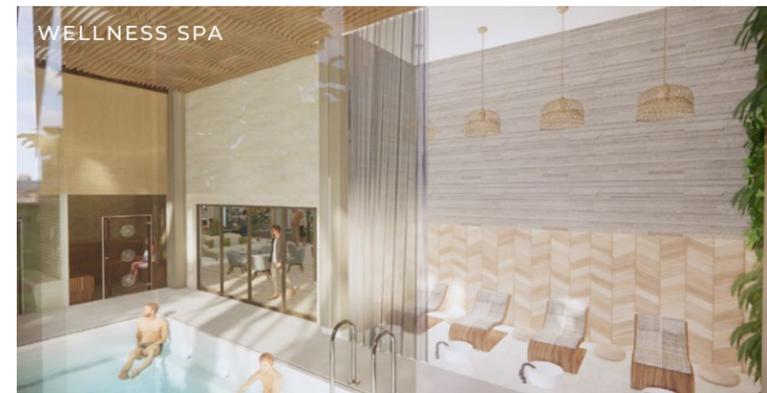
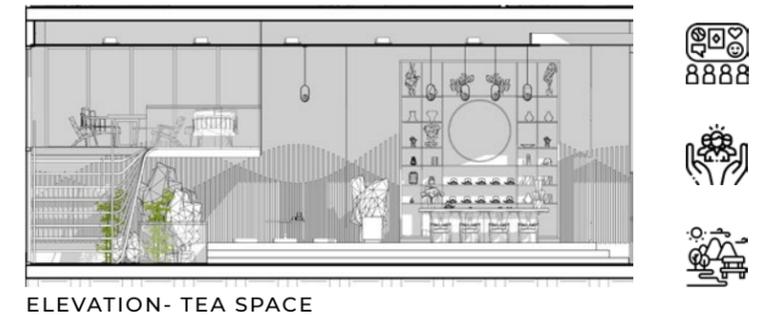
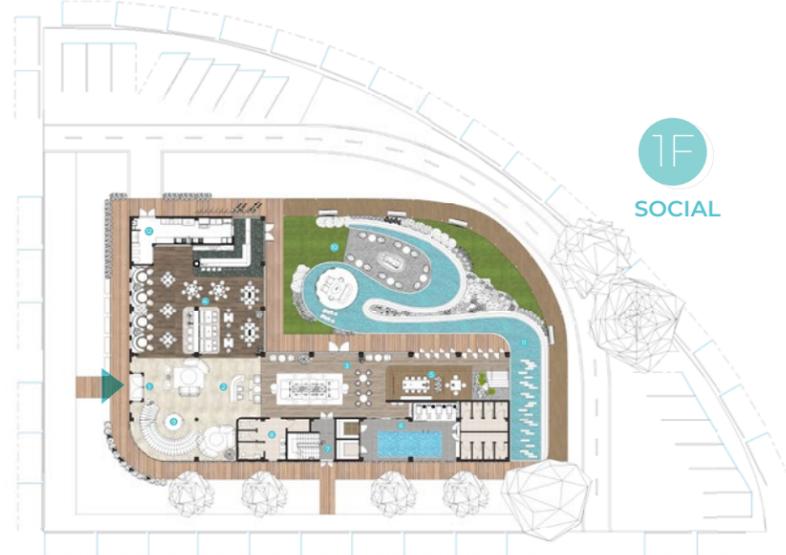
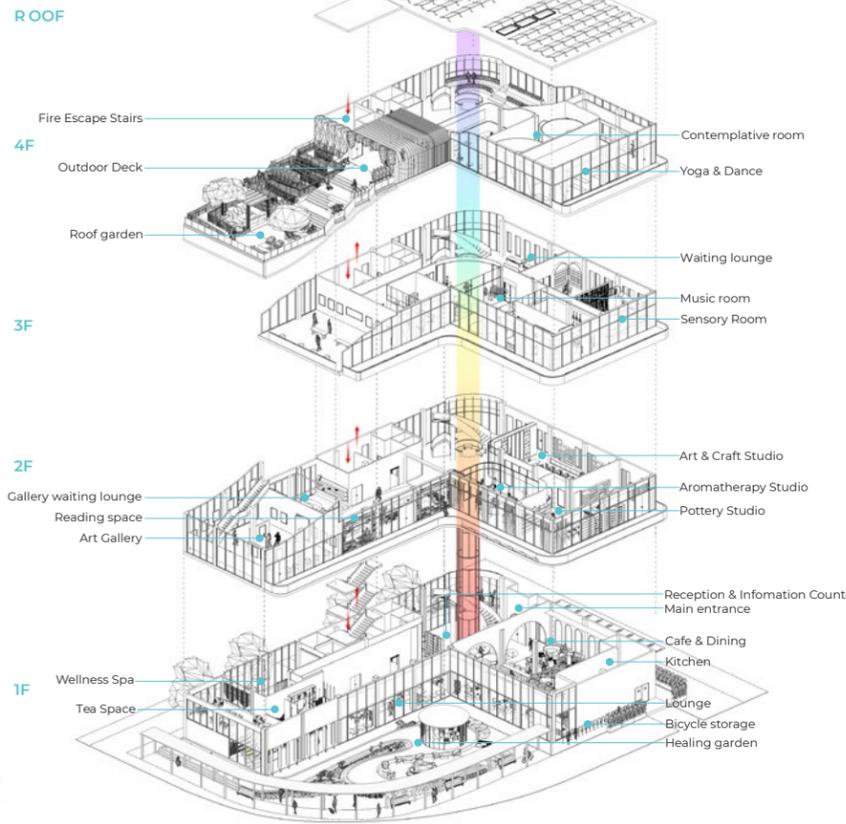
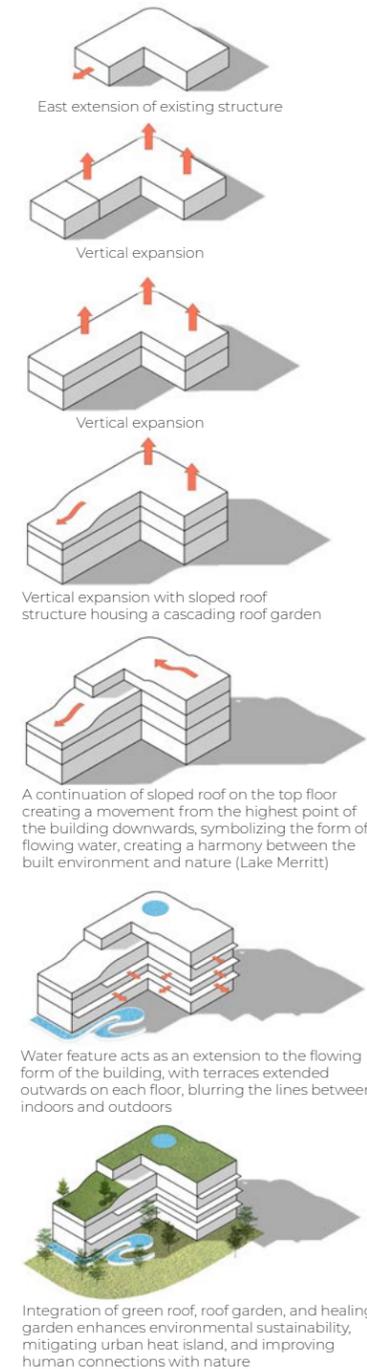
FIRE ALARM BUILDING
 1310, Oak Street, Oakland, CA 94612, USA

- According to the Downtown Oakland Specific Plan (August 2019) and Lake Merritt Station Area Plan (December 2014), the existing Fire Alarm Building is classified as "Opportunity Site for Adaptive Reuse".
- Located in the 14th Street Corridor as the major east-west connector between Downtown and neighborhoods east of Lake Merritt.
- Reinforces and integrates cultural and recreational resources around the area of major transit, aligning with Lake Merritt Station Area Plan.
- Address the needs to enhance bicycle and pedestrian access, streetscape circulation, safety, sustainability, and the overall vibrancy of the area.



FORM DEVELOPMENT

Existing building: 1 Level, 4500 sq. ft.
Proposed building: 4 Levels, 31, 200 sq. ft.



SOCIALIZE

Situated on the first floor, a cafe and dining, tea space, and lounge area with comfortable seating are **social spaces** that aim to foster social engagement and cohesion within the local communities to address the issues of social isolation and feelings of loneliness prominently seen in aging seniors and millennials.

Tea spaces are designated to provide a semi-private space that allows individuals to engage in the therapeutic process of tea drinking. **Tea drinking** demonstrates various health benefits to humans including cancer-preventive effects and maintenance of cardiovascular and metabolic health (Khan & Mukhtar, 2013).

Also known as water therapy, aquatic therapy, and balneotherapy, **hydrotherapy** utilizes water in various forms and temperatures to produce different effects on different system of body. Hydrotherapy is the external or internal use of water in its forms (water, ice, steam) to promote health through physiological means, through a range of temperature, duration, pressure, and location (Mooventhan & Nivethitha, 2014).



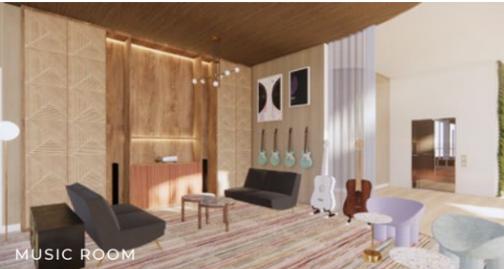
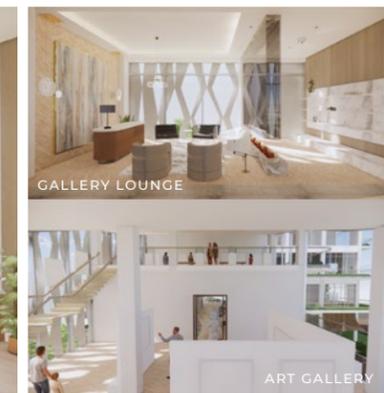
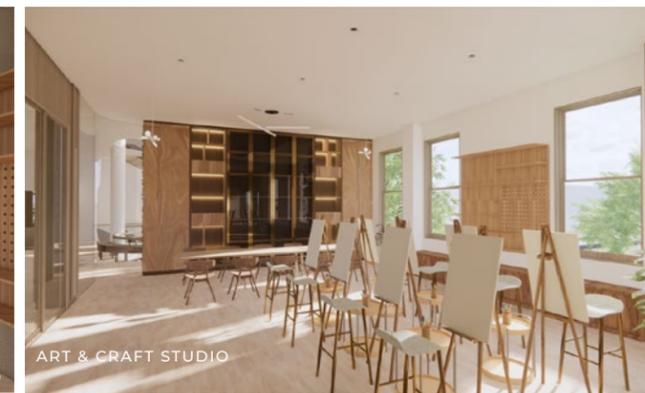


2F
CREATE



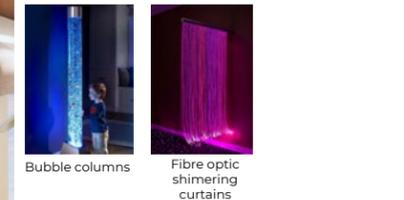
"Recreational therapy, also known as therapeutic recreation, is a systematic process that utilizes recreation and other activity-based interventions to address the assessed needs of individuals with illnesses and disabling conditions, as a means to psychological and physical health, recovery and well-being" (NCTRC, 2021). Creative arts (CA) including dance movement, drama, music, and visual arts are utilized to target depression and associated symptoms. Art therapy (AT) presents a cost-effective treatment model for mental health symptoms (Uttley et al., 2015).

- 2F LEGEND
- 1. Reading space
 - 2. Art Gallery
 - 3. Gallery waiting area
 - 4. Pottery Studio
 - 5. Art & Craft Studio
 - 6. Aromatherapy Studio
 - 7. Fire Escape Stairs
 - 8. Bathrooms
 - 9. Elevator



MUSIC THERAPY
To **listen, play, and create** music as a therapeutic approach to alleviate stress and anxiety.

Interactive sensory stimulation equipments:



MULTISENSORY THERAPY
Positive benefits of **sensory stimulation** provided through multisensory rooms is effective in lowering stress levels of individuals with and without medical implications.



3F
INTERACT

- 3F LEGEND
- 1. Music room
 - 2. Sensory room
 - 3. Waiting lounge
 - 4. Office
 - 5. Art Gallery
 - 6. Fire Escape Stairs
 - 7. Bathrooms
 - 8. Elevator



4F
REFLECT

- 4F LEGEND
- 1. Yoga & Dance studio
 - 2. Contemplative room
 - 3. Social stairs lounge
 - 4. Outdoor deck
 - 5. Roof Garden
 - 6. Fire Escape Stairs
 - 7. Bathrooms
 - 8. Elevator

NATURE THERAPY

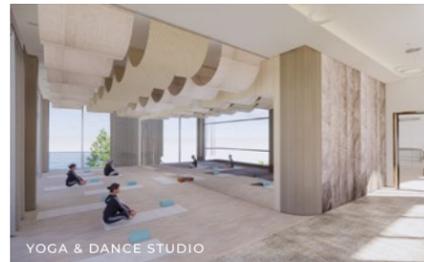
- Roof garden encourages social interactions through direct physical and visual connections with surrounding natural environment, providing a restorative oasis in the city.
- ADA accessible ramp is designed to accommodate every individual regardless abilities.
- Biophilic design principles are utilized to elevate human-nature connections.

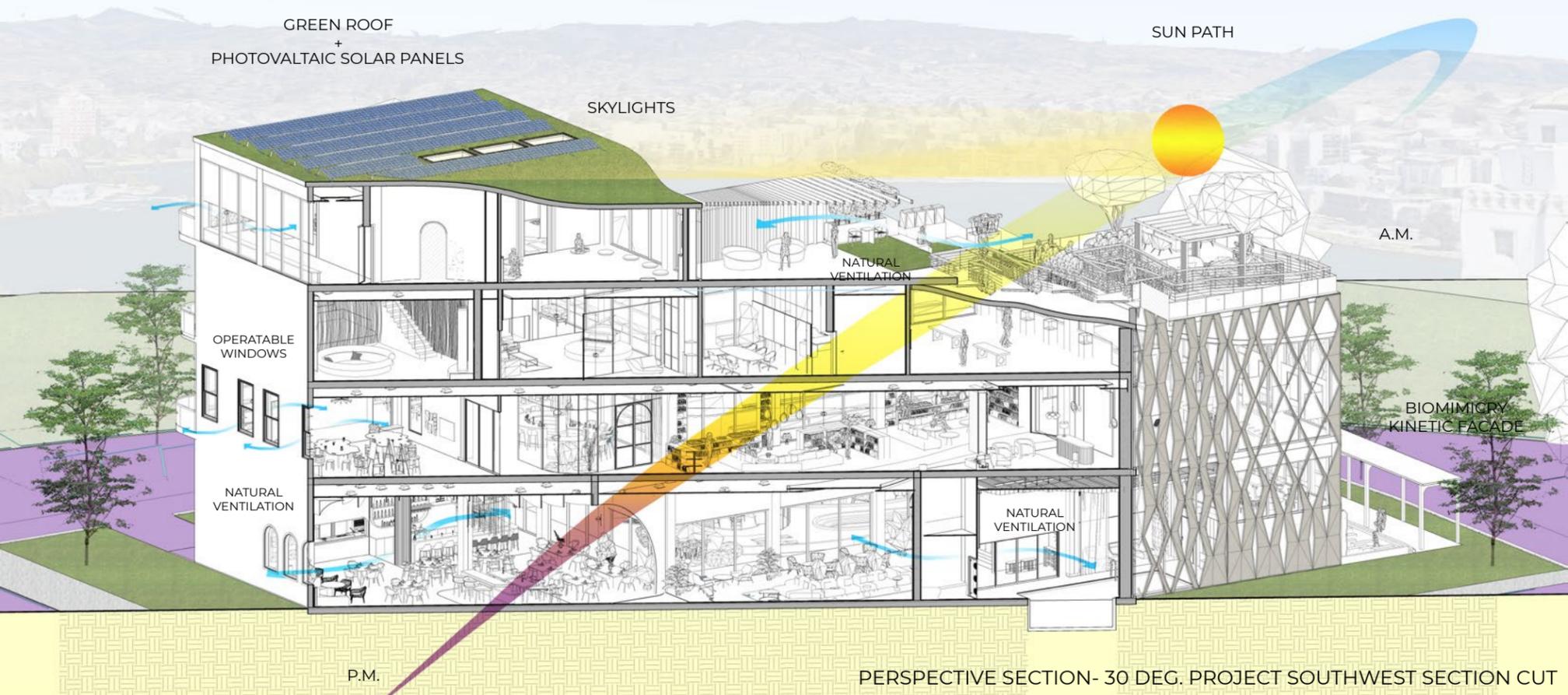


NEUROARCHITECTURE

With the help of **Externally Induced (EX-I) contemplative practice**; architecture-based contemplative experience, research shows that an architecturally induced "meditative" state in spaces designed for contemplation is likely to involve a greater number of activations of brain regions compared to the perception of ordinary buildings. It can be deduced that contemplative built environments can offer a decreased dependence on self-regulation in Internal-Induced (IN-I) meditation by strategically utilizing Externally Induced (EX-I) methods with the help of well-designed restorative built environments.

Mindfulness interventions analyzed through various studies demonstrate positive benefits in mitigating depression, chronic pain, and generalized anxiety disorders by lowering stress sensitivity. The restorative environment of contemplative space invites users to practice Mindfulness-Based Stress Reduction (MBSR) through guided large and small group contemplative activities, allowing opportunities to relax and reflect, addressing the escalating mental health issues by promoting psychological well-being.





BIOMIMICRY- ENVIRONMENTAL SUSTAINABILITY

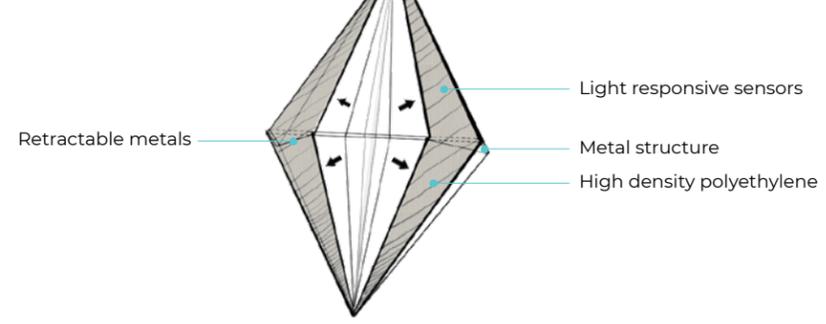
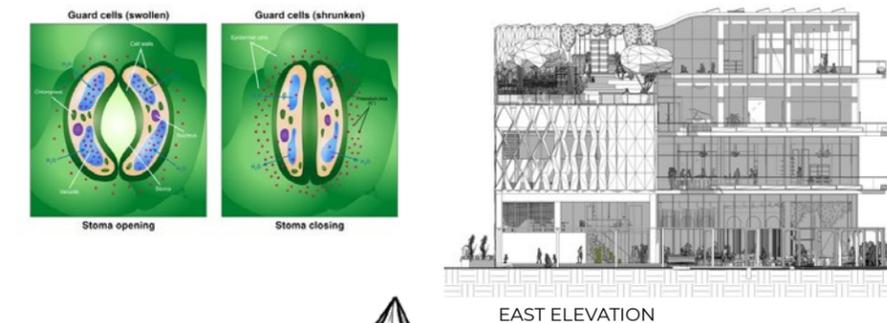


Figure: Detail diagram

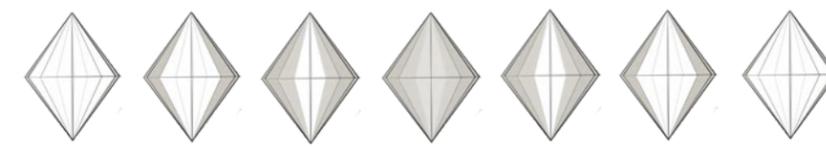
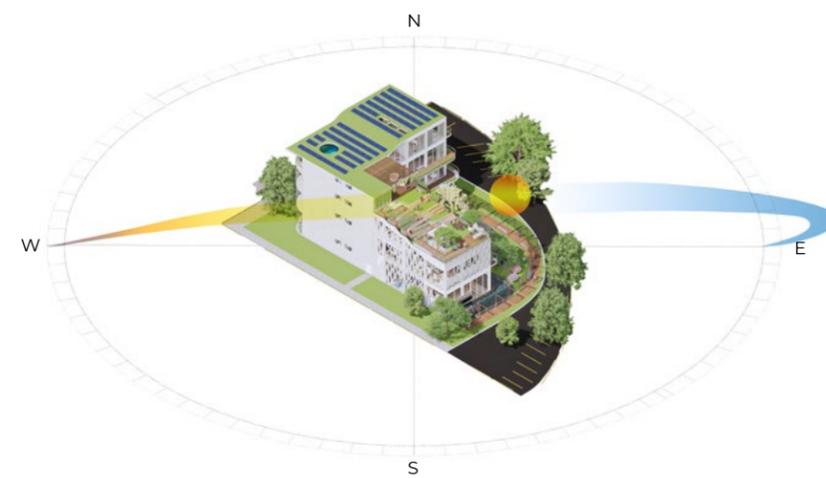


Figure: Closing and Opening of Kinetic Facade



CONCEPT

With the aim to create a more sustainable built environment and possibly contribute to the betterment of human psychological well-being, this project proposes a conceptual framework of sustainable **facade design** utilizing principles of **biomimicry**.

The facade design employs an **indirect, solution-driven approach** by taking the plant's transpiration process as an inspiration toward a **light responsive facade mechanism** resembling the opening phenomenon of plant stomata cells during transpiration process.

By mimicking the **form, mechanism, and function** of guard cells of stomata that open in response to light to obtain carbon dioxide for photosynthesis, the facade design centers itself in the similar mechanism by utilizing **light** as the activating medium to facilitate the opening and closing of the facade. By mimicking the oval form of two guard cells forming the opening of stomata cells, the facade will be designed as a series of connected openings that envelop the **south facing facade** of the building due to their constant exposure to sunlight throughout the year.

The mechanism of opening of the curved facade is inspired and abstracted from the opening mechanism of guard cells, in which two retractable metals drive the opening of the highly woven **high-density polyethylene** material processed from recycled plastics, achieving a cradle-to-cradle cycle. High-density polyethylene is commonly used as the material for shade sail which offer maximum sun-blocking power up to 90% UPF (ultraviolet protection factor) and withstand varied weather conditions, especially rain and wind.

By installing **light responsive sensors** on each opening, the facade opens and closes in response to the natural light, thereby regulating the light, temperature, and UV concentration of the interior environment. With the conceptualization of this biomimetic facade design, it aims to maintain the indoor environment at an optimal lighting, temperature and comfort levels essential to the physical and psychological health of the building occupants.



Biomimicry kinetic facade design

Inspired by natural phenomenon occurring in plant leaves, the kinetic facade mimics the opening and closing mechanism of stomata cells responding to environmental conditions. Light sensors play the role of detecting the intensity of sunlight, opening the panels of individual facade during low daylight conditions, and closes during high light intensity. This mechanism is designed to regulate the indoor temperature and ultraviolet (UV) concentrations. By maintaining indoor temperature at optimal levels through the renewable source of energy (sunlight), energy usage and long-term maintenance cost for air conditioning (HVAC) system will be greatly reduced.

GREEN BUILDING DESIGN

Solar energy:

By integrating **photovoltaic panels** on **green roof**, the **microclimate** created by green roof can help with cooling of the surrounding air on the roof, maintaining an **optimal temperature** vital to the effective functioning of solar panels. Green roofs can help reduce dust and air pollutants found on bare roofs, which can improve solar panel performance and reduce the maintenance needed (Green Roof Technology 2015). The combination of green roof and photovoltaic panels is essential to reduce stormwater runoff, increase energy savings, improve thermal insulation of the building, and protect roof membrane from UV radiation, thereby raising public awareness and improving environmental sustainability long term.

Natural Ventilation:

West prevailing wind during the summer enters the building through building fenestrations including doors, operable commercial windows, and automated top-hinged awning windows, cooling the building, ensuring indoor air quality through constant air flow, and improving thermal comfort during hotter months.

Sustainable materials:

Oyster Shell Rigid Core Bamboo Flooring

- Rigid Core Engineered
- Strand Click
- Strand Woven Bamboo with Rigid SPC core
- Radiant Heat Safe
- High traffic
- Water resistant
- Pet friendly

Schooner Keel Rigid Core Bamboo Flooring

MOSO Bamboo 1-ply wall panels

- Sustainable
- Reduce carbon footprint
- unsurpassed growing speed (annual harvest of 5-year-old bamboo stems comparable to 80 years for tropical hardwood)

Multiwall Polycarbonate sheets

- Interior partitions and exterior facade
- Light weight
- Virtually unbreakable
- Manufactured with recycled materials
- Easy fabrication and installation
- Blocks harmful UV rays

Green Home Solutions: Earth Weave Carpet | Bio-Floor Collection

100% Natural Fiber Carpets
Hemp & Cotton Primary Backing | Jute Secondary Backing
Natural Rubber Adhesive

Crypton Performance Fabric:

Stain Resistance (Class 4-5)
GREENGUARD Gold Certified
Disinfectable with EPA-registered Crypton Disinfectant and Deodorizer



ATRIUM

PHEBE CONLEY ART REIMAGINED

Project description

This project aims to address the significant shortcomings of Phebe Conley Art building at Fresno State's campus to meet the evolving demands of current and future users of the building. With an addition of a central atrium, student cafe, materials store, recharge center, self-study room, faculty offices, auditorium, and makerspace, this project reimagines the future of College of Art and Design at Fresno State with possibilities beyond limits.

Project type: Individual
 Semester: Spring 2020
 Programs used: Revit, Enscape, Photoshop



EXTERIOR

SITE



Phebe Conley Art Building, California State University, Fresno



SITE
Existing Building

ISSUES

- Out-of-date building amenities and technology
- Lack of social spaces in the building
- Insufficient numbers of faculty offices
- Lack of on-campus material and supply store
- Limited views to outdoor

- Integrated multifunctional building
- State-of-art technology and equipment
- Common spaces accomodating social interactions
- Promote human-nature connection
- Improve occupants well-being
- Enhance quality of education of the Art & Design department at Fresno State



ATRIUM

MISSIONS

