



Country /City USA / Las Vegas
University / School University of Nevada, Las Vegas
Academic year 2022-2023
Title of the project FUTURE INNOVATIONS: BIOLUMINESCENT ALGAE & PARAMETRIC SEATING
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TECHNICAL DOSSIER

Title of the project

Authors

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Title of the course Lndsacape Architecture STUDIO 486

Academic year 2022-2023

Teaching Staff Professor: Xiwei Shen

Department / Section / Program of belonging School of Architecture/STUDIO 486

University / School University of Nevada, Las Vegas





Written statement, short description of the project in English, no more than 250 words

This has widely changed the perspective on the importance of outdoor recreation—and its connections to health, productivity, and success—across all demographics. This project aims to set a precedent to develop the site beyond its necessary requirements, but to also celebrate the work of the student body and promote mental, physical, and emotional wellness for all users passively or actively engaging with the site. This will consequently have a positive impact on the interaction architecture students have amongst each other, and other disciplines. Given the site's proximity to two different student housing buildings, this will also increase opportunities for non-architecture students to engage with the space and its users without feeling daunted by entering through the building's main doors. The students using digital pamametric techqiue to design and built the site furniture in order to fit the ergonomic human engineering consideration. This project conducted an examination of the VOC emitted by local housing plants to identify suitable plants that can effectively enhance air quality. Utilizing bioluminescent algae creates an innovative opportunity in lighting amenitiy applications and also ulitize the CO2 and temperature.

For further information

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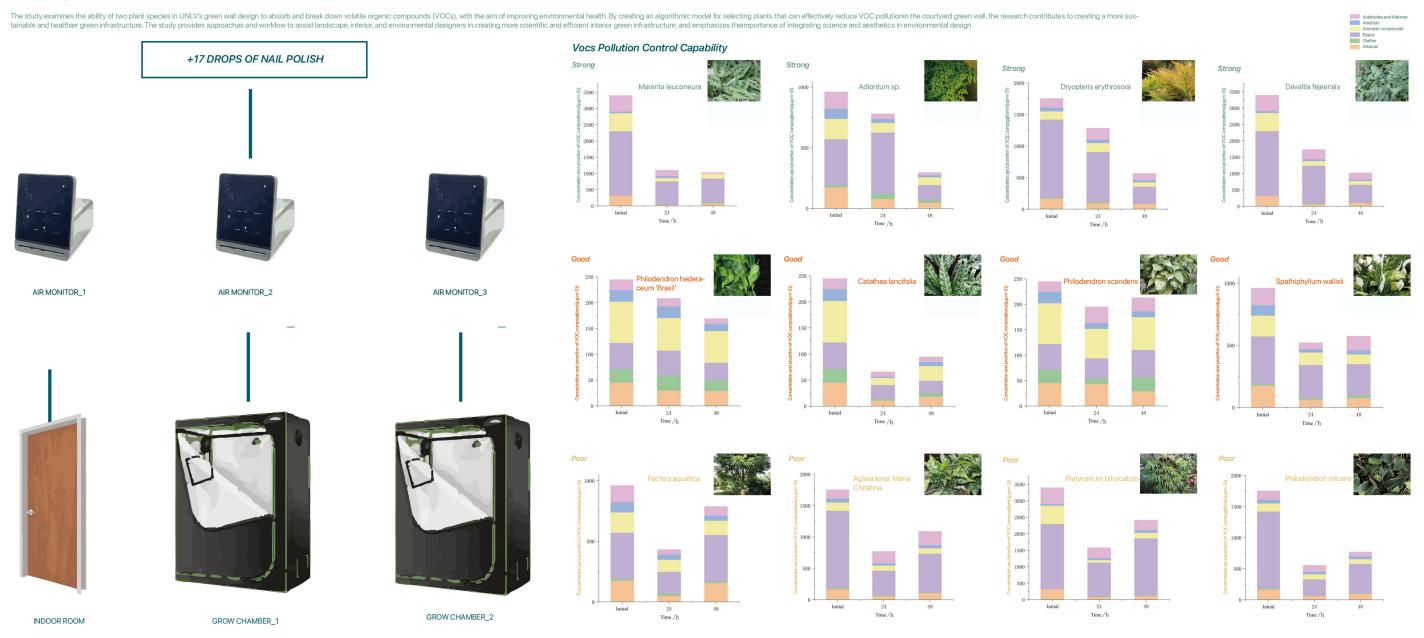
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Barcelona

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SCHOOL PRIZE

AIR QUALITY STUDIES FOR PUBLIC ENVRIONMENTAL HEALTH



FUTURE INNOVATIONS: BIOLUMINESCENT ALGAE

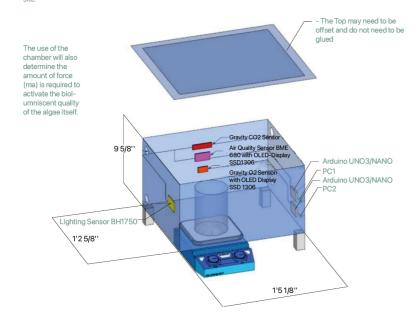
Interactive Art Installation Representing Applications of Bioluminescent Algae

University of Las Vegas, Nevada campus from different species of bioluminescent algae and methods of amenity production incorporating the medium.



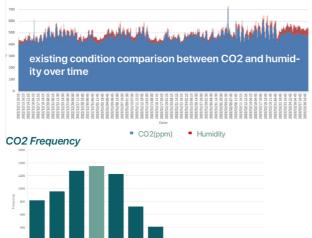
Technical Details

By measuring the algae in a controlled space, we will be able to conclude the difference between CO2, humidity, and temperature conditions and interior conditions of the courtyard



Comparison Of Environmental Parameters

we were able to set the basis of our future research and applications that increase



Installation Frame

- 1. Depicted ornament quantities are for representation purposes only 2. Acrylic screen in the front will have one way film along inside face







