

Waste Remolding - Lime Remolding

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ABSTRACT

This artwork delves into the themes of urban memory and the revitalization of discarded materials through an innovative installation in the abandoned buildings. The core of this piece is the controlled flow of limewater, regulated by sensors to interact with air, forming new spaces within the ruins. This process highlights the transformation and rebirth from demolition to creation, symbolizing the rebirth of abandoned structures. By emphasizing the importance of recycling and reusing waste, the artwork invites viewers to reflect on the significance of urban decay and renewal. It seeks to evoke a sense of historical continuity and environmental consciousness.

CCS CONCEPTS

• Applied computing → Arts and humanities; Performing arts.

KEYWORDS

Art Installation, Materials Research, Urban Exhibition, Lime

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1 INTRODUCTION

In an era where urbanization and industrial activities have led to an increase in abandoned and neglected structures, this artwork seeks to address the themes of urban memory and the revitalization of discarded materials (see the Figure 1). The installation centers around the use of limewater, a material that interacts with air to create new and evolving spatial forms, symbolizing the transformation and rebirth of abandoned spaces [2, 4, 5].

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Figure 1: "Abandoned buildings" from the urban exploration of the hairstyle to the demolition and disassembly process.

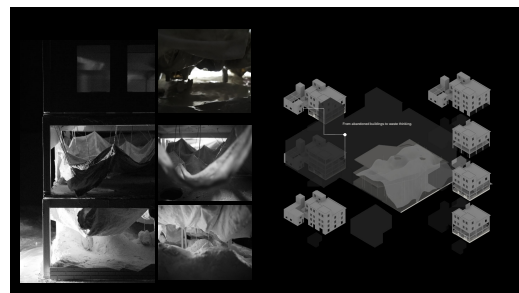


Figure 2: Display of the projection effect of the interactive device. This work promotes the design of the installation through material research.

Extensive material research was conducted to explore the unique properties of limewater, leading to the innovative use of sensor technology to control its flow. These sensors precisely regulate the limewater's interaction with air, resulting in the formation of new architectural elements within the installation. This continuous, dynamic process highlights the transition from decay to creation, representing the rebirth of the structures involved.

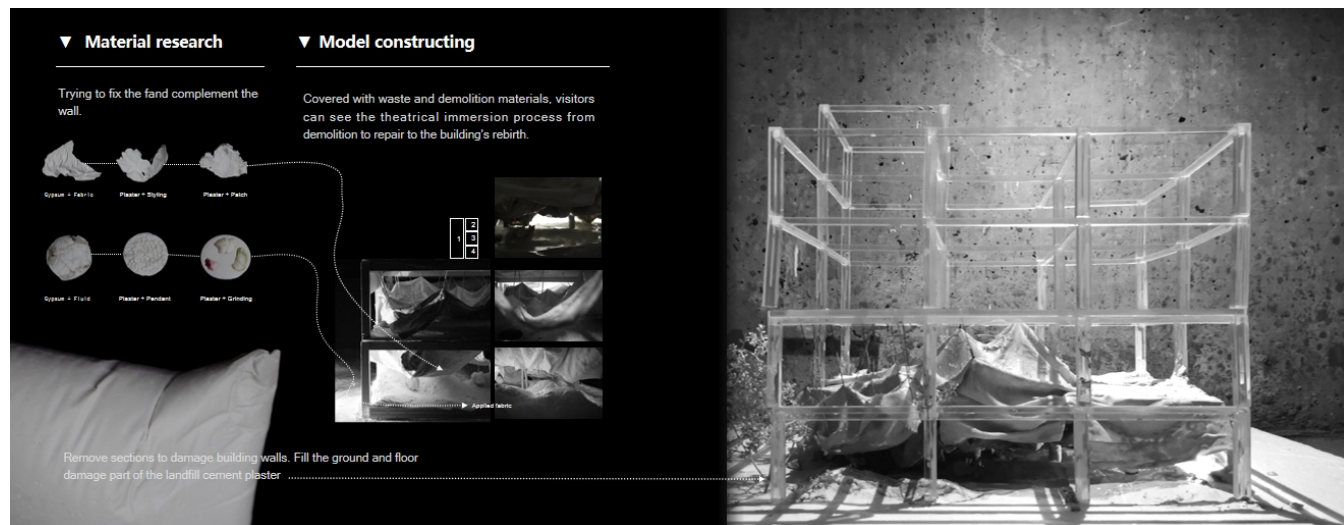


Figure 3: The creative process shows the construction from material to artwork.

2 CONCEPTS AND METHODS

The real-time nature of the installation allows viewers to witness the ongoing transformation. The interaction between the limewater and air creates an ever-changing landscape, reflecting the organic and fluid nature of the renewal process. This live demonstration emphasizes the potential of repurposing abandoned materials, showcasing the beauty and value that can emerge from what was once considered waste [1]. As visitors move through the space, they observe the interplay of light, texture, and form, which evokes a sense of historical continuity and environmental awareness. The evolving installation encourages viewers to reflect on the importance of recycling and the creative possibilities inherent in discarded materials [3].

2.1 Restoration of Abandoned Building Scenes

The installation begins with the detailed recreation of scenes from abandoned buildings, aiming to capture both the physical decay and the essence of neglect over time. In addition, central to the artwork is the innovative use of plaster. Extensive research was conducted to explore how plaster interacts with various materials, such as fabric, metal, and organic substances. These experiments revealed unique textures and structural changes, demonstrating how plaster can symbolize both decay and renewal. These findings are incorporated into the installation, with plaster elements strategically placed to undergo continuous transformation, reflecting the organic processes of erosion and rebirth (see the Figure 2).

2.2 Sensor-Controlled Limewater Interaction

The dynamic aspect of the installation is driven by the precise control of limewater flow using advanced sensor technology. Sensors are employed to regulate the rate and location of limewater droplets, ensuring a consistent and controlled interaction with the air. This controlled dripping process allows the limewater to gradually solidify upon exposure to air, forming new spatial elements within the installation. The use of sensors adds a layer of real-time

responsiveness to the artwork, creating an evolving landscape that changes with each interaction (see the Figure 3). By integrating these concepts and methods, the artwork creates a living, breathing installation that evolves over time. It captures the essence of urban decay and renewal, transforming abandoned spaces into sites of continuous creation and reflection.

3 CONCLUSION

This artwork serves as a powerful reflection on the consequences of industrial abandonment and urban decay. By repurposing materials from neglected buildings, the installation emphasizes the potential for renewal and the importance of rethinking waste. The use of plaster and sensor-controlled limewater transforms the space, highlighting the ongoing processes of erosion and rebirth. This project not only reimagines discarded environments but also prompts viewers to consider the impact of industrial activities on our living spaces. The dual waste of abandoned structures and environmental degradation underscores the need for sustainable practices and creative reuse, advocating for a more conscious approach to our built environment.

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