

# UC Berkeley

## Room One Thousand

### Title

Who What When Where How Why

### Permalink

<https://escholarship.org/uc/item/3mt1550t>

### Journal

Room One Thousand, 4(4)

### ISSN

2328-4161

### Authors

Chen, Jessica  
Narell, Mia

### Publication Date

2016

### Copyright Information

Copyright 2016 by the author(s). All rights reserved unless otherwise indicated. Contact the author(s) for any necessary permissions. Learn more at <https://escholarship.org/terms>

Peer reviewed



# ~~Who What When Where How Why~~

Jessica Chen & Mia Narell

This research is a creative dialogue between clay as a material and technology as a driver of architectural design. Clay has a long history as a building material throughout the world, although it is now regarded, often, as a material for the poor, and continues to be used in accordance with vernacular building methods. By combining these traditional practices with novel digital fabrication techniques, this project seeks to discover new potentials for this fundamental building material.

Using both traditional and new methods of building with clay, this research examines the construction possibilities of clay through hand building, extrusion, casting and 3D printing. This work does not eliminate traditional methods of clay production and construction, but expands the possibilities through new technology. An additive manufacturing method uses clay 3D printing to create a series of bricks, ceramic tiles and self-supporting structural components.

Fundamentally, this research uses clay as a material to bridge the divide between digital fabrication and traditional craft, resulting in a new design aesthetic and an expanded understanding of this ancient building material.









