

**OZ**

Volume 33, 2011

## Contents

### Editors

Laura Beth Cochran  
Samantha Smith

### Staff

Luke Brohmer  
Josh Doss  
Andrew Helseth  
Maxie Cole Henkle  
Paul Jarvis  
Sandi Lam  
Ian Orlando  
Russell Ploutz  
Jason Ragan  
Annie Robinson  
Branden Schwab  
Bo Steadmen  
Whitney Thomure  
Haley Wilson

### Faculty Advisors

R. Todd Gabbard  
Raymond Streeter

### Cover

Image from 360 Architecture Inc.  
Cover by Russell Ploutz

*Oz* is a nonprofit journal edited, designed, and produced annually by students in the Kansas State University College of Architecture, Planning, and Design. Inquiries should be addressed to:

Managing Editor, *Oz*  
13 Seaton Hall  
Manhattan, Kansas 66506-2901

ISSN 0888-7802  
Copyright © 2011 *Oz*

Printed by Consolidated Printing  
Salina, Kansas

|    |   |  |
|----|---|--|
| 4  | <b>Less Is More Intense</b>                                 | <i>Magnus Larsson</i>                        |
| 10 | <b>Revolutions of Choice</b>                                | <i>Frank Barkow</i>                          |
| 16 | <b>Hand Drawing in a Digital Age</b>                        | <i>Alan Dunlop</i>                           |
| 24 | <b>Shared Transformation</b>                                | <i>Lisa Iwamoto</i>                          |
| 30 | <b>Measurement, Uncertainty, and the Dataspace</b>          | <i>Nathan Miller</i>                         |
| 36 | <b>Augmented Culture</b>                                    | <i>Daniel Dendra</i>                         |
| 40 | <b>Illustrating Ecologies</b>                               | <i>Bradley Cantrell</i>                      |
| 46 | <b>Augmenting Architecture through Algorithmic Modeling</b> | <i>Nathan Howe</i>                           |
| 54 | <b>More. Better. Integrated.</b>                            | <i>Ryan Gedney</i>                           |
| 62 | <b>Ordering Complexity</b>                                  | <i>Patrik Schumacher</i>                     |
| 68 | <b>Digital Craft</b>  | <i>Monica Ponce de Leon</i>                  |
| 74 | <b>On Intimacy and Design</b>                               | <i>Ramona Albert and Christopher Johnson</i> |

## Prologue



**aug • ment** v. (1) : trans. To make greater in size, number, amount, degree, etc.; to increase, enlarge, extend (2) : intr. To become greater in size, amount, degree, intensity, etc.; to increase, grow, swell (3) : trans. To increase or add to the resources of; to enhance in circumstances (4) : Heraldry, trans. To make an honorable addition to (5) : To multiply (mathematically).\*

Architects increasingly have new tools at their disposal. Questions emerge by examining the influence and implication of these tools on design as a practice and profession.

*How have designers' new tools transformed the design and production process?*

*How is craft in architecture changing in response to new methods of fabrication?*

*And how is digital technology changing spatial experience?*

The point of inquiry in Volume 33 is to investigate how the tools designers use augment the objects that they make.

lb + sam

\*Oxford English Dictionary