

THRESHOLD



Publisher: Riverside Architectural Press, www.riversidearchitecturalpress.ca © Riverside Architectural Press and Living Architecture Systems Group 2022

Title: Threshold

Living Architecture Systems Group, issuing body.

Description: Series statement: Living Architecture Systems Group folio series |

Authors: Living Architecture Systems Group

Includes Index.

Identifiers: ISBN 978-1-988366-61-6

Design and Production: Philip Beesley, Timothy Boll, Adrian Chîu, Kevan Cress,

Lisa Jiang, Rekha Ramachandran

Publication: January 2023 Riverside Architectural Press 7 Melville Street Cambridge, Ontario, N1S 2H4 Canada



All rights reserved.

The individual authors shown herein are solely responsible for their content appearing within this publication. CC BY-NC-SA: This license allows reusers to distribute, remix, adapt, and build upon the material in any medium or format for noncommercial purposes only, and only so long as attribution is given to the creator. If you remix, adapt, or build upon the material, you must license the modified material under identical terms.

Errors or omissions will be corrected in subsequent editions

This book is set in Garamond and Zurich BT.







Supported by: Social Sciences and Humanities Research Council of Canada, University of Waterloo, Canada Council for the Arts, Ontario Arts Council, Toronto Arts Council, and Mitacs,

THRESHOLD

Living Architecture Systems Group edited by Philip Beesley

Contents

- 3 Introduction
- 4 Views of Threshold
- Schematic Views, Plans and Elevations
- References
- 33 Credits



Introduction

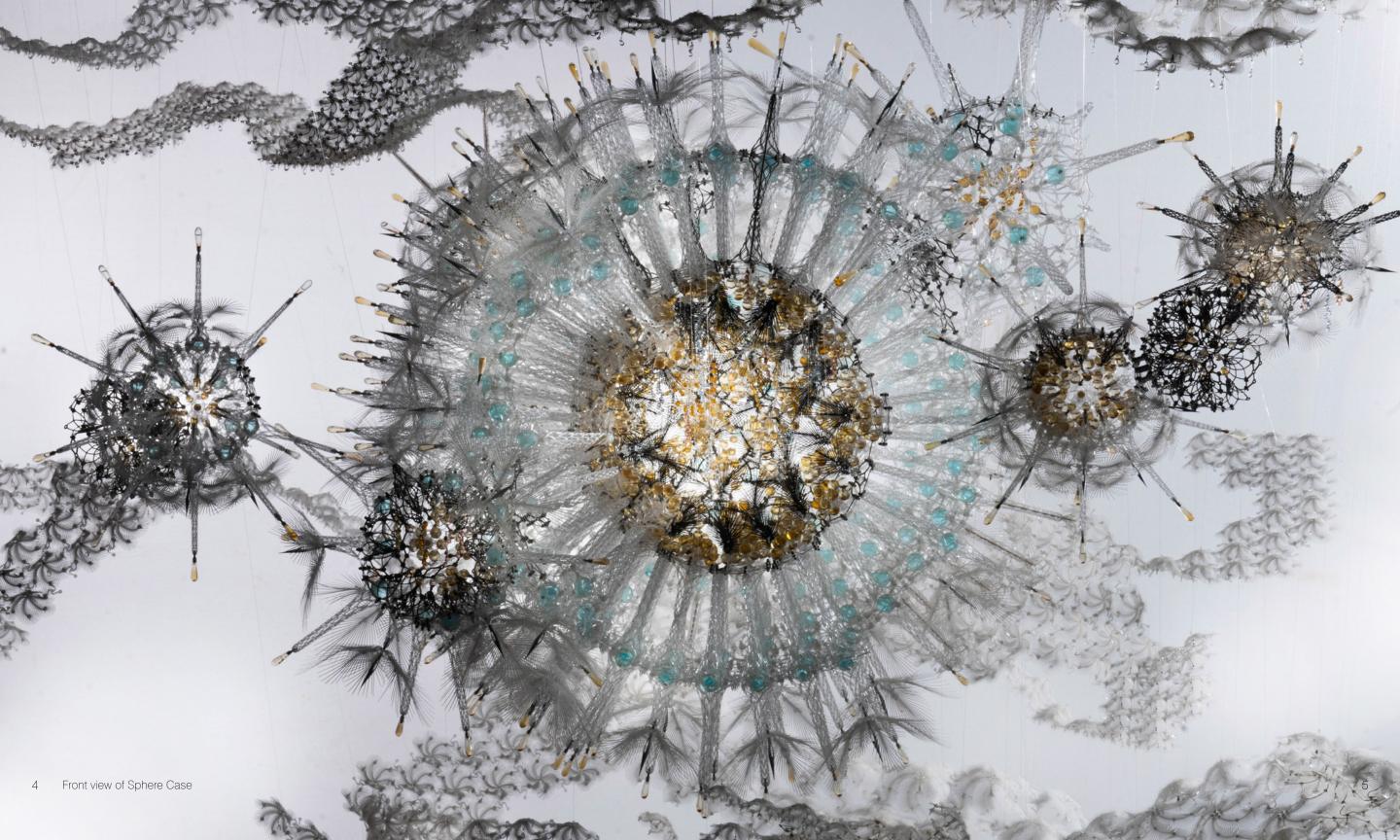
Threshold is a sculpture group that serves as a gateway within the Norman Y Mineta San José International Airport Terminal B. Threshold showcases a pair of radiant, intricate worlds enclosed within glass cases, framing the passage from the baggage area out to the city beyond. Threshold is a permanent public sculpture exploring fundamental concepts of elemental life and new technologies for making our built environment. The forms echo aerial vistas that evoke the shared experience of flight and distant destinations.

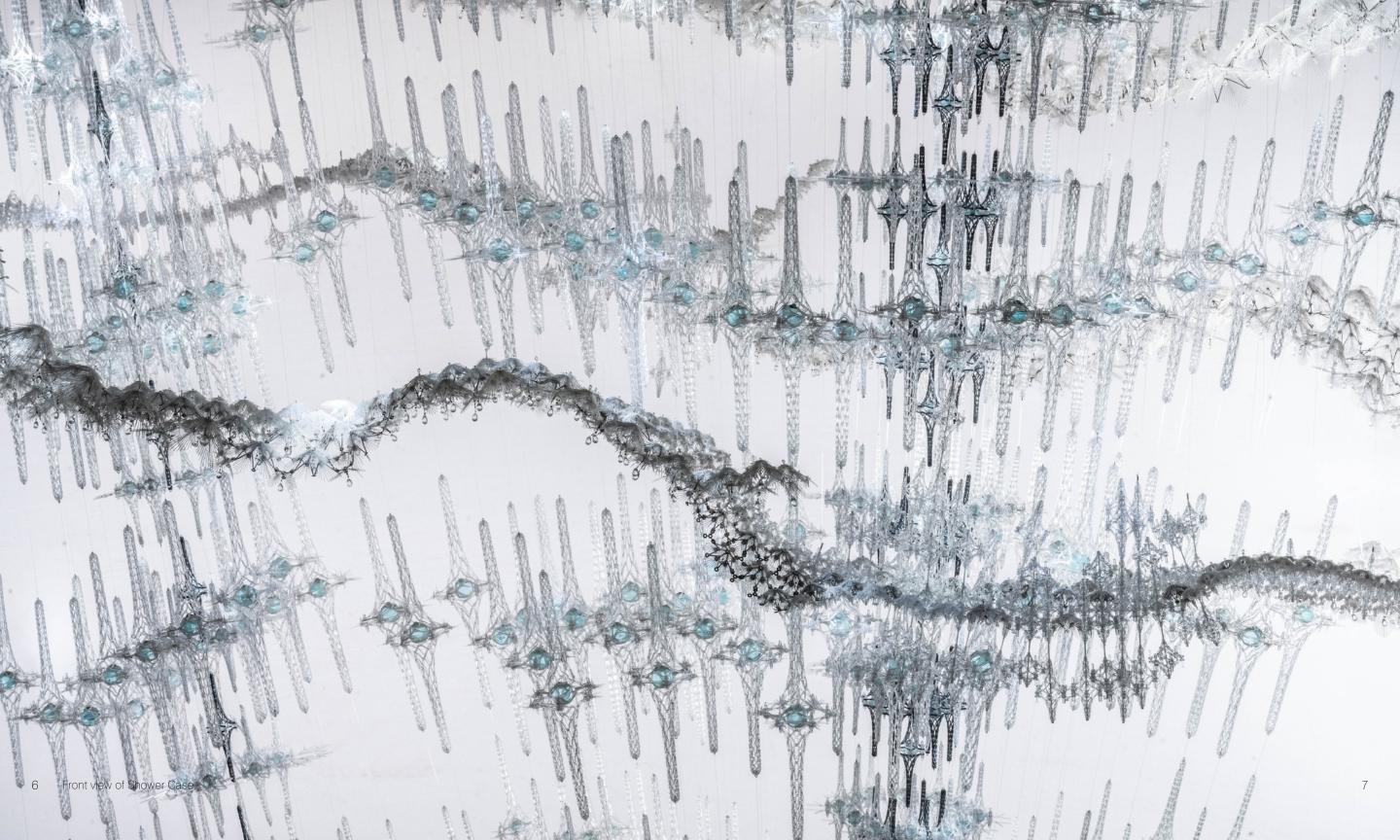
One glass case contains a counterclockwise-swirling cluster of flame-like currents with a shower of rays and beaming crystalline bursts, alluding to planetary auras. A second case contains a clockwise-turning flowing pool with dense masses of floating spherical forms each encrusted with tiny glass orbs, evoking the image of a well in the center of the world. Combinations of crystalline triangular, quadrilateral, pentagonal and hexagonal forms are arranged in multi-layered lattices and cell-like shelters.

The elements of Threshold are organized in systems organized with transitions between polar organizations of cells, vector organizations of showers and upwellings, and field organizations of surrounding clouds. These forms are organized by phyllotaxis, computationally controlled cellular arrangements similar to those that guide shell growth.

Framed by the theory of abiogenesis, Threshold aims to express figure to field phase transitions, showing turbulence and harmonic organization. The sculpture's clouds behave like currents that rotate and shear along their flow path, creating turbulence and secondary periodic reactions. The showers of rays consist of conical material arranged and duplicated in concentrated vectors, which puncture adjacent membranes and shells in linear axes. Hyperbolic cellular membrane forms include smooth swells, periodic ripples, and exfoliated upwellings. Multiple layers each serve as the template for the next. Sheltering qualities are found within concave forms, while defensive qualities are expressed through convex forms.

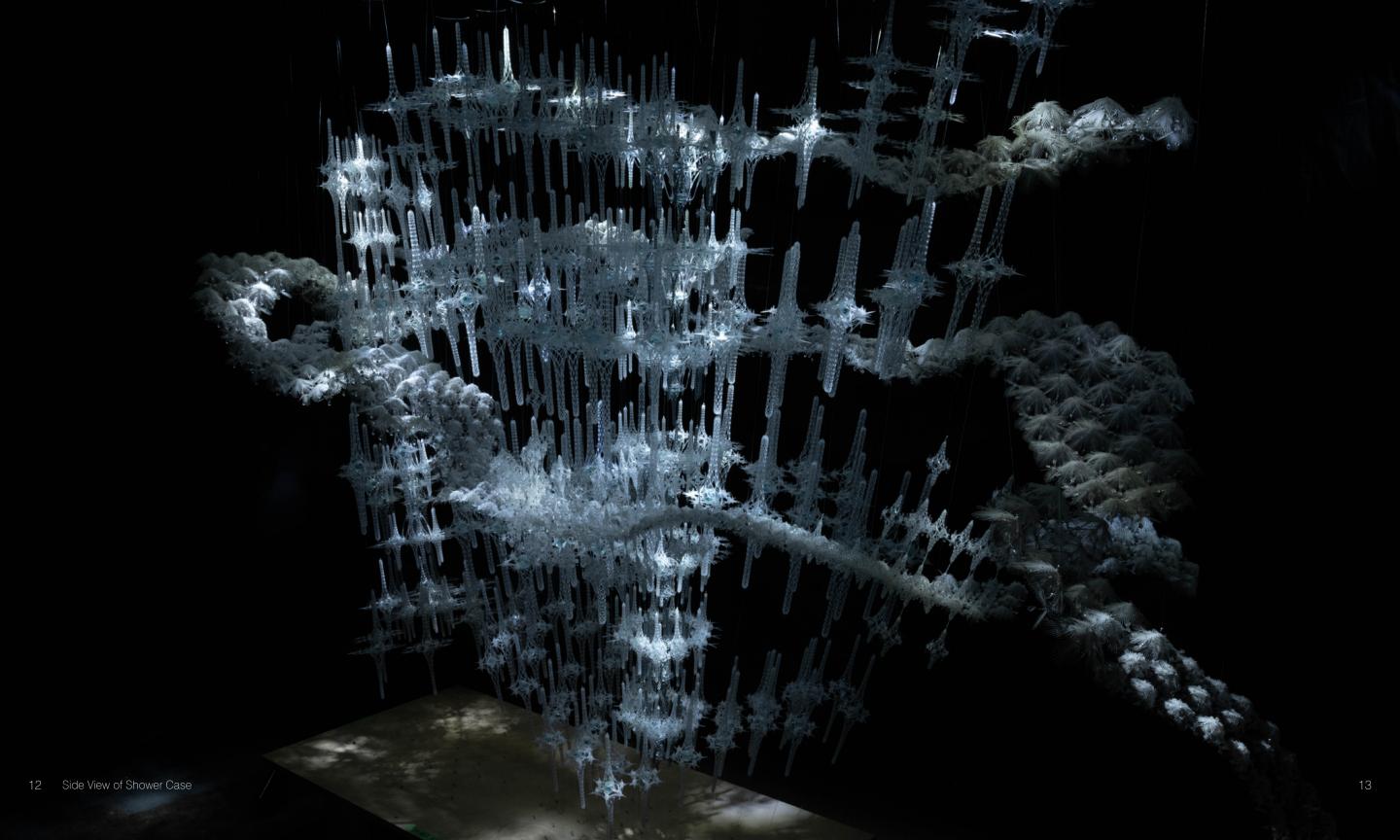
THRESHOLD 3







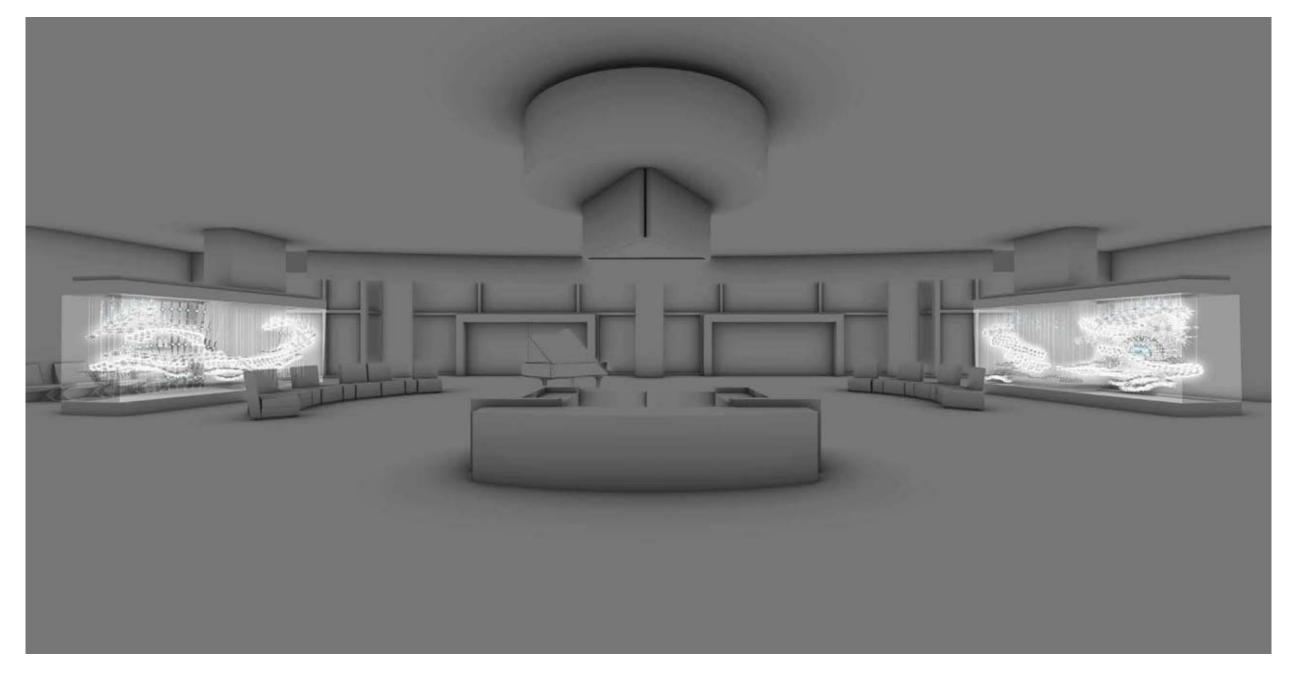






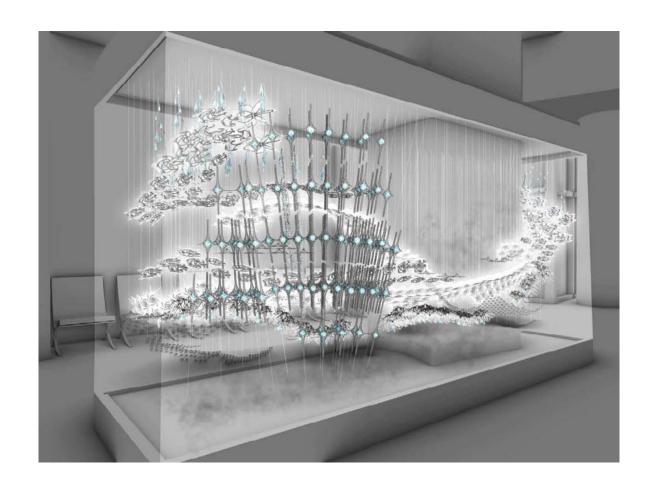


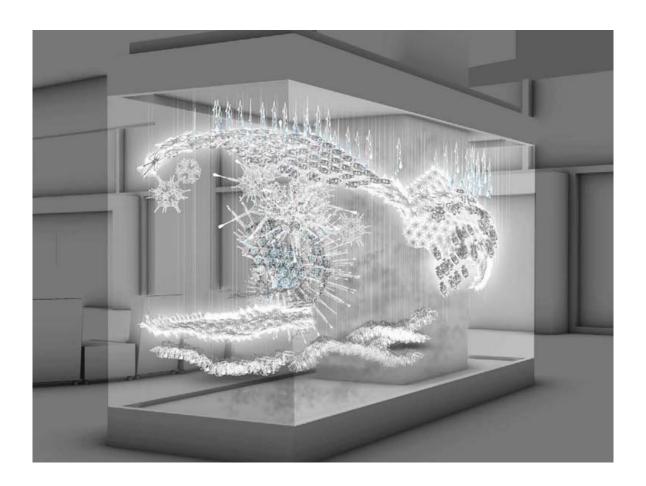




View of Shower Case from Airport Entrance

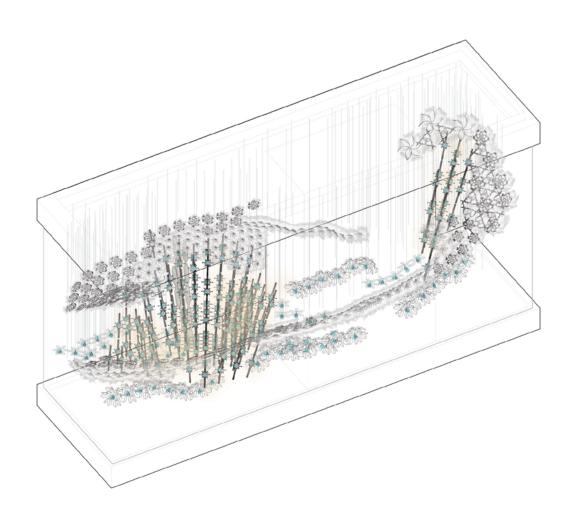
View of Sphere Case from Airport Entrance

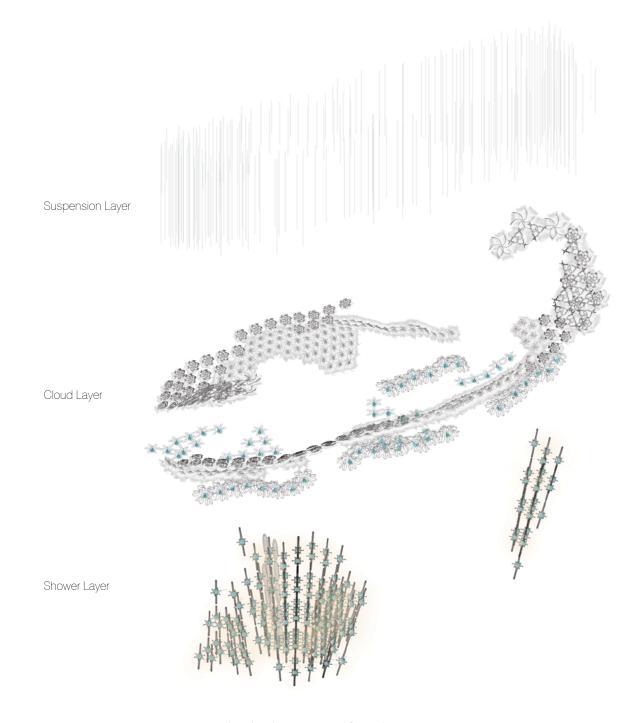




Front View of Shower Case

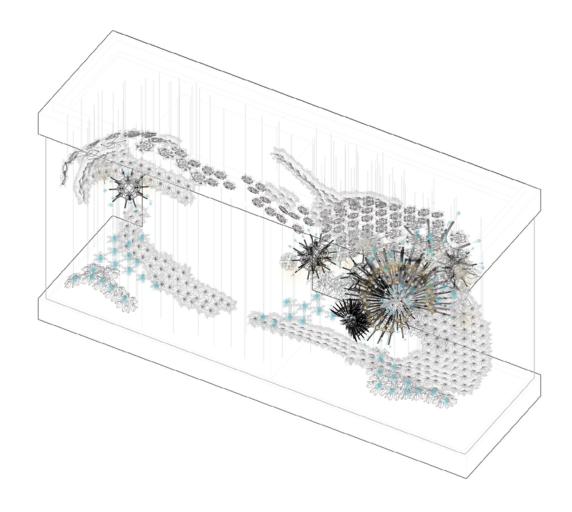
Front View of Sphere Case

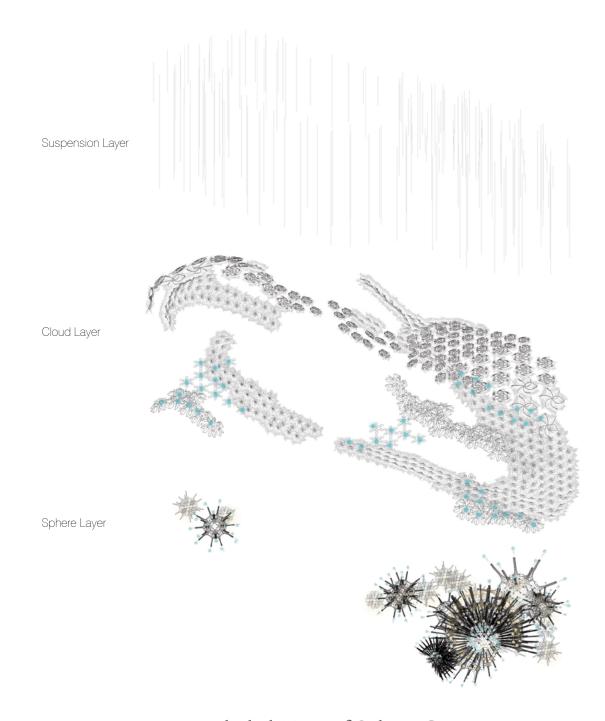




Assembled View of Sphere Case

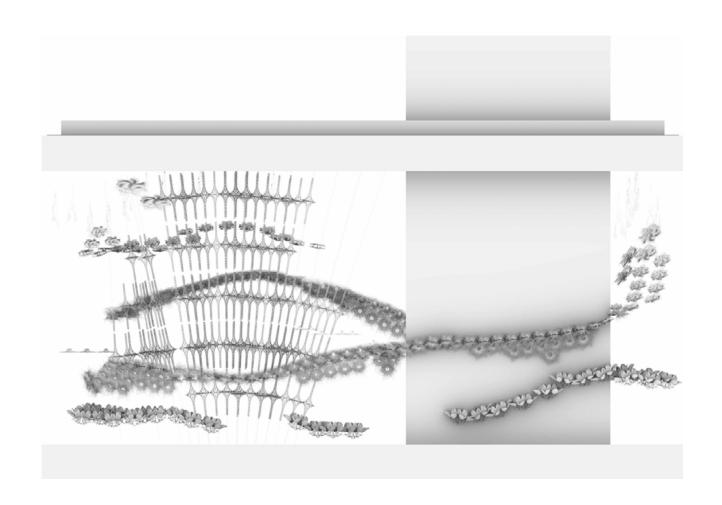
Exploded View of Sphere Case

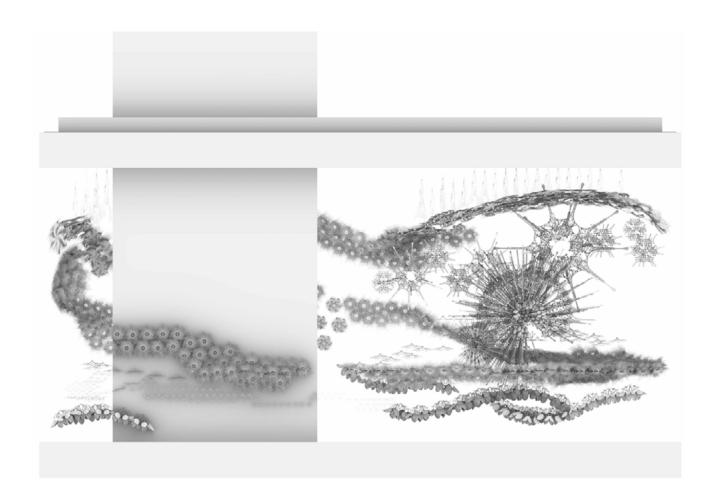




Assembled View of Sphere Case

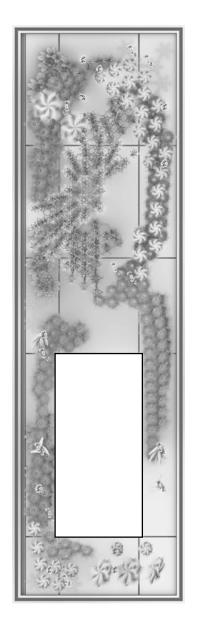
Exploded View of Sphere Case



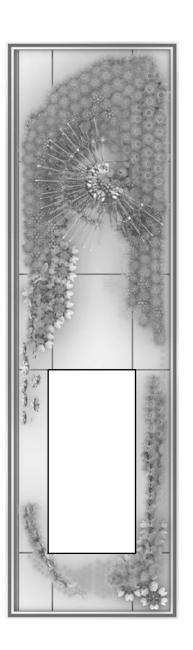


Elevation View of Shower Case

Elevation View of Sphere Case









Ground and Upper Reflected Plan of Shower Case

Ground and Upper Reflected Plan of Sphere Case

1 LIVING ARCHITECTURE SYSTEMS GROUP THRESHOLD

References

Cairns-Smith, A.G. 1982. "Genetic takeover and the mineral origins of life," (Cambridge: Cambridge University Press, 1982)

Critchlow, K. "Order in Space," New York: Thames & Hudson, 1969)

Dreamer, D. and Szostak, J.W. 2010. "The Origins of Life" (New York: Cold Spring Harbor Laboratory Press, 2010)

Credits

Project Leads

Philip Beesley Stephen Ru

Norman Y. Mineta San Jose Airport

Mary Rubin Joe Saxe

LASG Executive

Timothy Boll
Matt Gorbet
Rob Gorbet
Ilana Hadad
Ellie Hayden
Michael Lancaster
Anne Paxton

BOKO Production

Adam Schwartzentruber

Aaron Coté

Evan Schwartzentruber

LASG Studio

Jinchen Cai Filipe Costa Kevan Cress Mark Francis Lisa Jiang

Michael Lancaster

Glenn Lu

Bianca Weeko Martin Nikola Miloradovic Muhammad Tahir Pervaiz Severyn Romanskyy Nathan Shakura Mackenzie Van Dam Sofia Villasmil Wilhelm Meghan Won

Production

Gwynne Allanford
Filipe Costa
Dima Ghazal
Angie Kwon
Helia Mahdavi
Kailey Moulson
Ashley Peebles
Abida Rahman
Julia Richard

Threshold

Philip Beesley & Living Architecture Systems Group

Threshold is a sculpture group that serves as a gateway within the Norman Y Mineta San José International Airport Terminal B. Threshold showcases a pair of radiant, intricate worlds enclosed within glass cases, framing the passage from the baggage area out to the city beyond. Threshold explores concepts of elemental life and new technologies for making our built environment. The forms echo aerial vistas that evoke the shared experience of flight and distant destinations.

Threshold's design relates to the theory of abiogenesis, the conception of evolution that conceives very simple first life-forms moving through gradual processes that become increasingly complex. Cellular membrane forms include swells, ripples, and upwellings. Sheltering qualities are found within concave forms, while defensive qualities are expressed through convex forms.

One glass case contains a counterclockwise-swirling cluster of flame-like currents with a shower of rays and beaming crystalline bursts, alluding to planetary auras. A second case contains a clockwise-turning flowing pool with dense masses of floating spherical forms each encrusted with tiny glass orbs, evoking the image of a well in the center of the world. Combinations of crystalline triangular, quadrilateral, pentagonal and hexagonal forms are arranged in multi-layered lattices and cell-like shelters.

ISBN 978-1-988366-61-6



Riverside Architectural Press