

CHUN LONG TIAO 'SPRING DRAGON TAIL'

SHANGDU LI, INTERACTIVE WATERTOWN EXHIBITION
SHANGHAI - CHINA 2015

Philip Beesley
Living Architecture Systems Group



I Chun Long Tiao 'Spring Dragon Tail' - Interactive Watertown Exhibition, Shanghai - China 2015

First edition

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INTRODUCTION

Chorus of granular synthesis-based interactive sound makes a whispering, mumbling ocean that 'speaks' interactively within the suspended canopy of the Chun Long Tiao 'Spring Dragon Tail' sculpture. The permanent acquisition by the Shangdu Li corporation opened October 2015 as part of the Interactive Watertown exhibition in Shanghai. The exhibition is part of the Shanghai Urban Space Art Season urban design series. The canopy floats within a glass-enclosed central theatre building that focuses urban development around a historic district of canals and gardens to the west of the urban core.

The environment is composed of a new series interlocking spiral clouds of acrylic and mylar aerial filters arranged around a densely massed inner chamber of glass, stainless steel and acrylic. The hexagonal cellular structural system of this chamber is interwoven with distributed sound and light networks. A necklace of sounding cells is triggered by overlapping triggers and sensor systems, including organic vinegar liquid batteries and proximity detectors tracking the gestures and position of occupants. Masses of Traube protocells are bedded in layered oils that provide balanced protective housings, supporting formation of delicate chemical veils within the glass manifold. Chains of high-power LEDs are fitted to the protocell vessels, providing stimulation for growth. The interactive systems feature the first generation of proprioceptive sensors, enabling internal feedback within the networked 'Teensy' microprocessor control systems. This distributed system forms a testbed that can lead to machine learning.

EXHIBITION CREDITS

PBAI STUDIO

Philip Beesley
Matthew Chan
Michael Formusa
Mike Hu
Mon Josef
Salvador Miranda
Clara Montgomery
Elisabeth Van Overbeeke
Anne Paxton
Thomas Noussis
Jordan Prosser
Rolf Seifert
Siubhan Taylor
Darcie Watson

COLLABORATORS

Rob Gorbet
Dana Kulic

PRODUCTION (TORONTO)

Susana Angel
Ernestine Aying
Gill Baldwin
Clementine Bory
Anna Boyko
Miranda Corcoran
Supreetha Guntur
Mansi Kohli
Anna Kolesnikova
Olayide Madamidola
Francis Norman May
Shevaun Mistry
Ulama Saif
Maryam Taikhassi
Hagop Terzian
Robin Whittaker
Jason Wong
William Yam
Zhan Zhang

PRODUCTION (SHANGHAI)

Ann
Yin Hao
Chai Hua
Hyde
Shi JiaQi
Xie Jinrong
Shen Juncheng
Huang ShuYi
Yitong Wang
Wang Xiang
Hu Yuchen
Zheng Jing Yum
Lim Zhang

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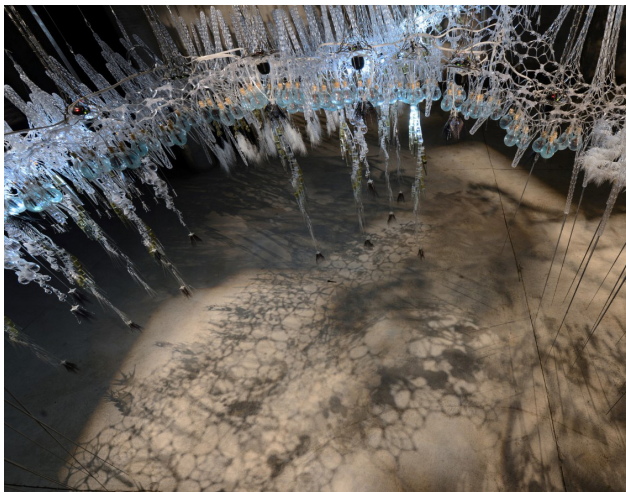
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3 Chun Long Tiao 'Spring Dragon Tail' installation view. Interactive Watertown Exhibition, Shanghai - China 2015.



4 Chun Long Tiao 'Spring Dragon Tail' installation view. Interactive Watertown Exhibition, Shanghai - China 2015.



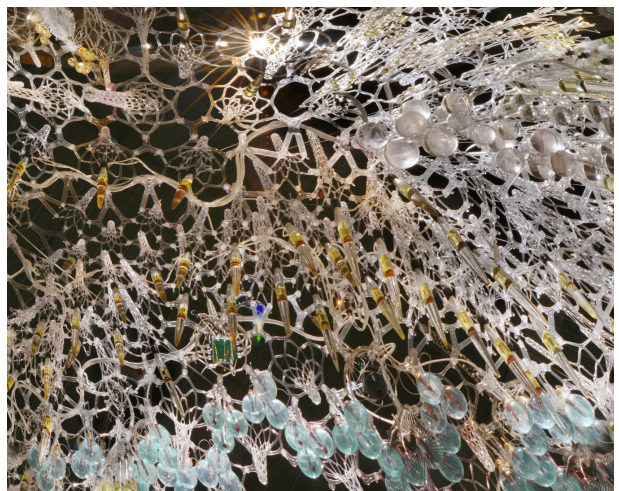
5 Chun Long Tiao 'Spring Dragon Tail' installation view. Interactive Watertown Exhibition, Shanghai - China 2015.



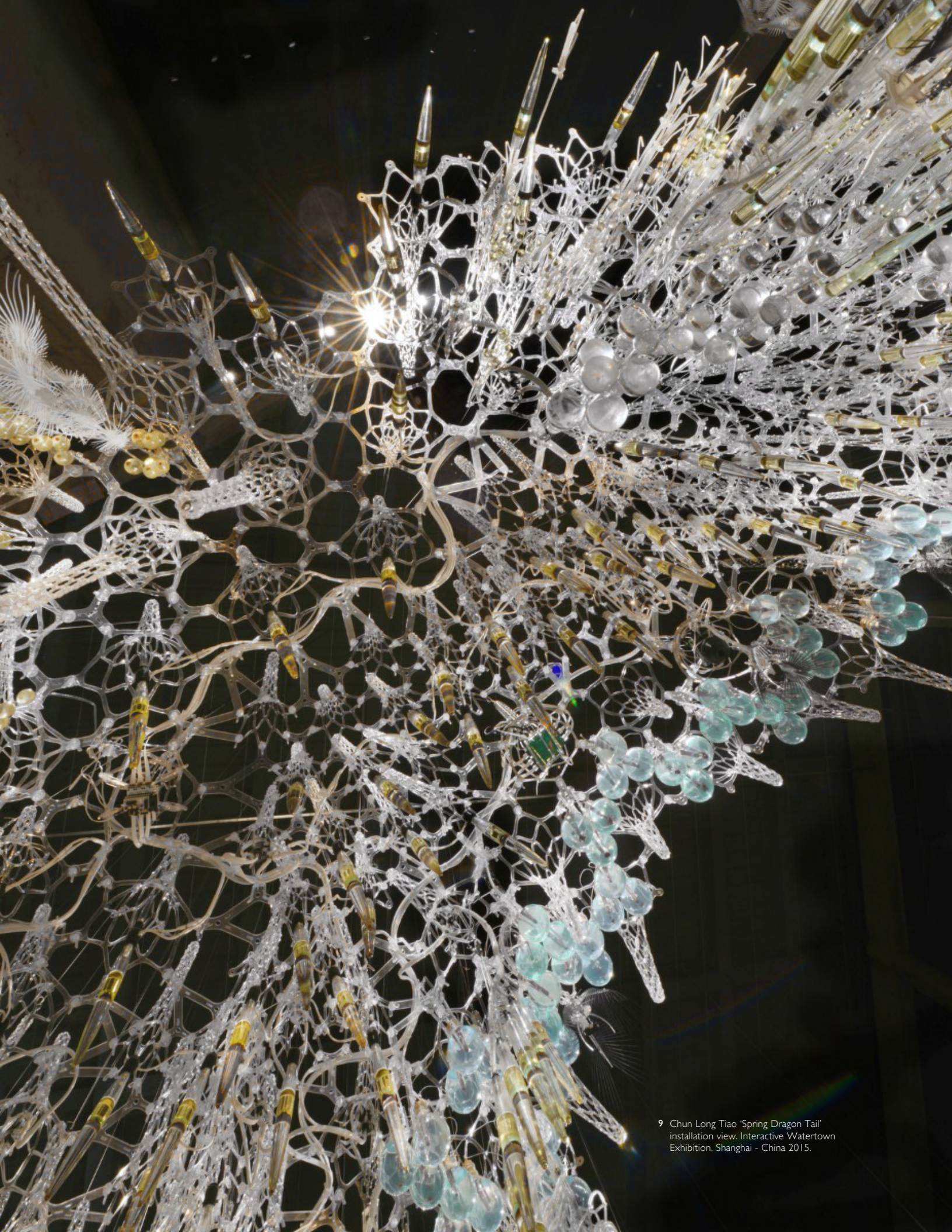
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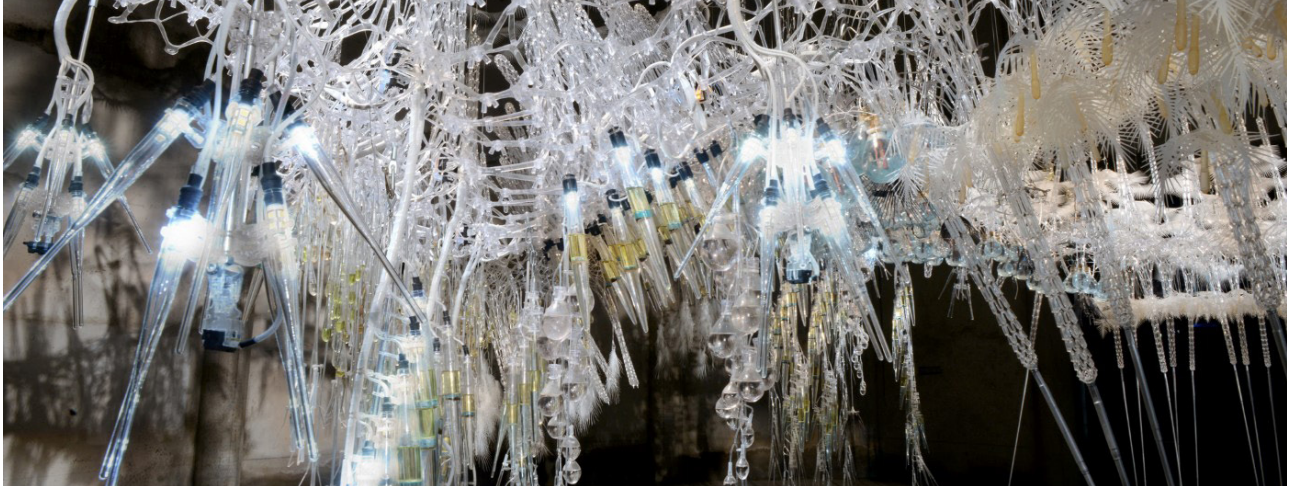
7 Chun Long Tiao 'Spring Dragon Tail' installation view. Interactive Watertown Exhibition, Shanghai - China 2015.



8 Chun Long Tiao 'Spring Dragon Tail' installation view. Interactive Watertown Exhibition, Shanghai - China 2015.



9 Chun Long Tiao 'Spring Dragon Tail'
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10 Chun Long Tiao 'Spring Dragon Tail' installation view. Interactive Watertown Exhibition, Shanghai - China 2015.



11 Chun Long Tiao 'Spring Dragon Tail' installation view. Interactive Watertown Exhibition, Shanghai - China 2015.



12 Chun Long Tiao 'Spring Dragon Tail' installation view. Interactive Watertown Exhibition, Shanghai - China 2015.



13 Chun Long Tiao 'Spring Dragon Tail' installation view. Interactive Watertown Exhibition, Shanghai - China 2015.



14 Chun Long Tiao 'Spring Dragon Tail' installation view. Interactive Watertown Exhibition, Shanghai - China 2015.

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