$See \ discussions, stats, and \ author \ profiles \ for \ this \ publication \ at: \ https://www.researchgate.net/publication/30872659$

8448cubed

SEE PROFILE

Book · November 2007 DOI: 10.13140/RG.2.1.5075.3449 · Source: OAI		
CITATIONS 0	3	READS 79
1 author:		
	Marc Aurel Schnabel Xi'an Jiaotong-Liverpool University 253 PUBLICATIONS 1,550 CITATIONS	





8448cubed is an architectural design exhibition showcasing creative digital design techniques. It explores how the coupling of architectural design with digital modelling and fabrication methods allow for a deeper comprehension and experience of space and form. The core of this collection is held together by the idea of spatial concepts within constraints of a cube 8448 millimetres³ in volume. The artworks are creatively conceived using computer-aided design tools ($Autodesk\ Maya$ ®), parametric design techniques ($Gehry\ Technologies\ Digital\ Project$ 11) and digital manufacturing processes ($Roland\ MDX650\ Milling\ Machine$).

Taking place in November 2007, **8448cubed** marks a new milestone for interdisciplinary design within the *Faculty of Architecture, Design and Planning* at *The University of Sydney*. Students of both the *Bachelor of Design in Architecture* and *Design Computing* programmes present their contemporary works at the *Gaffa Gallery*, Sydney.

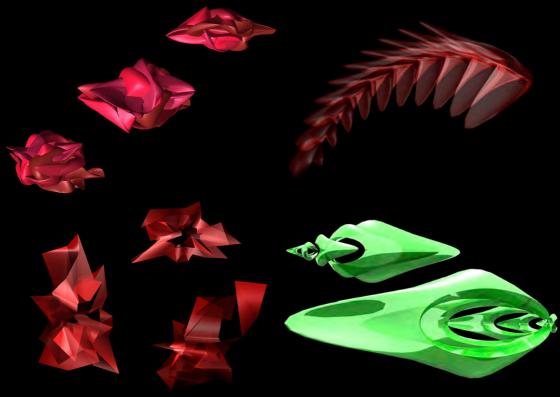
In light of the success brought together by the *Disparallel Spaces* Exhibition at the *Tin Sheds Gallery* earlier this year, over fifty students of a 3D Modelling-course (DEC01008/2103) compile and present a collection of artwork as the crowning achievement of their innovative engagement with architecture, design, art, and technology. In this exhibition, the designers propose virtual solutions that challenge and defy gravity, dimension, space

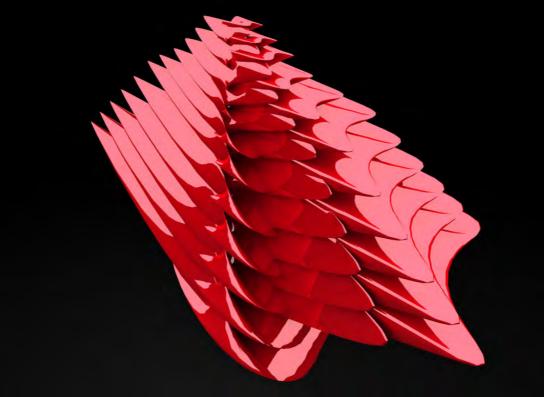
and volume in unprecedented ways. Each and every design is created with the freedom of innovation, interpretation, and definition without boundaries.

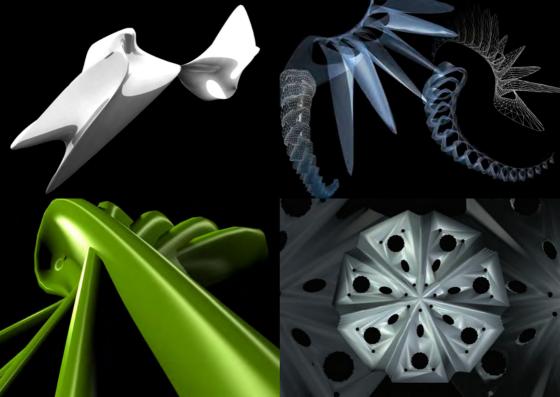
Analogous to *Descartes'* dualism which addresses influences of the designer (mind) on the design (machine) and vice versa, designers of **8448cubed** develop a meaningful interaction between the two, moving seamlessly in unorthodox ways amongst a range of instruments, each leveraging the last. Thereby the designers master top-level strategies, as well as bottom-up routines that shock and awe. Fuelled also by the influences of Jackson Pollock, and the careful guidance of course facilitators Rob Beson, Damien Butler and Marc Aurel Schnabel, each individual design offers a solution expressing a personal aesthetic within its realm of virtuoso design performance.

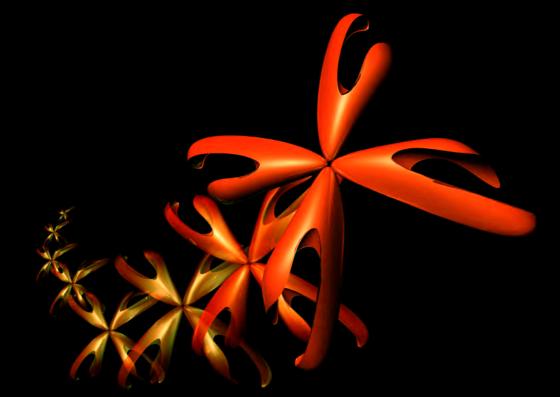
The artworks are driven in their spatial and visual qualities by processes of non-conformity. This allows for 8448cubed to confront problems in architecture from a diversity of eccentric and multi-faceted approaches, setting the trend for novel viewpoints in the art of space and innovation. 8448cubed offers a unique opportunity to experience the digitalized future in the field of architecture and design.

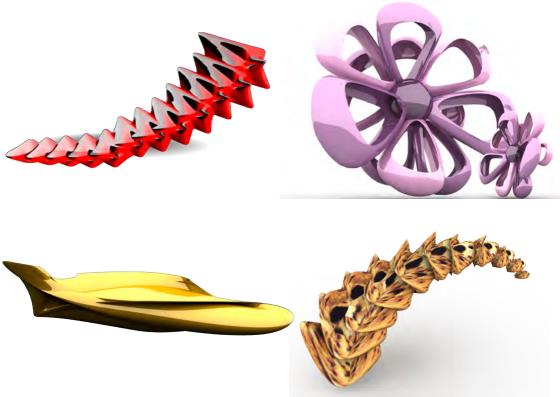
Dr Marc Aurel Schnabel



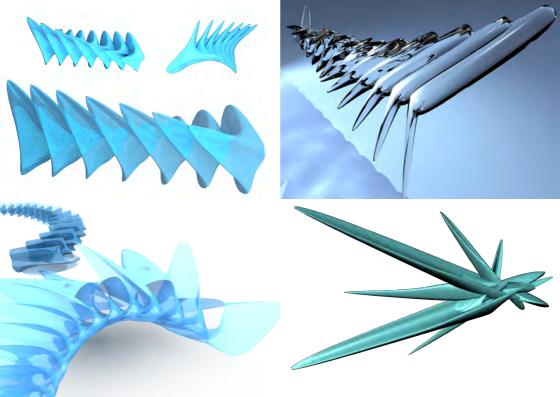


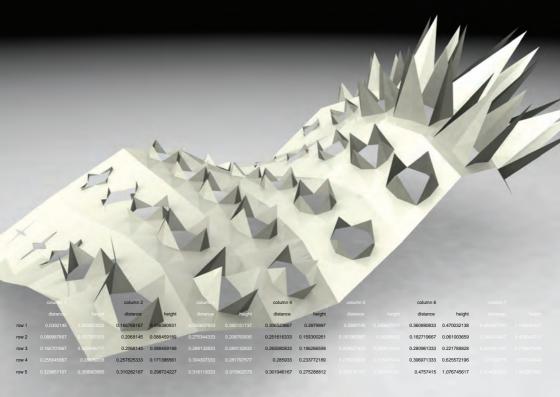


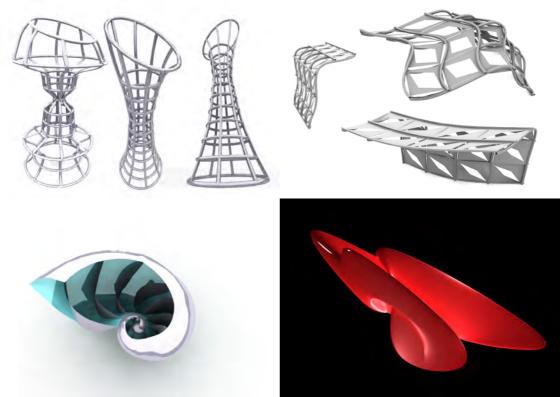


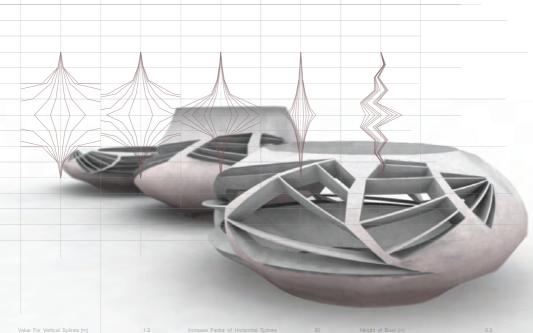












Value For Vertical Splines (m)
Value For Correct no. (m)
Ratio Tor Top Splines (%)
Offset for Vertical Splines (m)
equal distance of total (m)
Percentage for Horizontal Splines (%)

1.3 0.1 60 0.005 0.168 7 ncrease Factor of Horizontal Splines
fertical Divider Mid 1 (m)
fertical Divider Mid 2 (m)
fertical Divider Mid 3 (m)
fertical Divider Mid 4 (m)
fertical Divider Mid 3 (m)
fertical Divider Mid 3 (m)

30 1.8 3.1 2.2 2.6 0.003

leight of Bowl (m)
ircumference of Bowl (m)
ircumference of Bowl_top (m)
itid Spline Point Bowl Profile (m)
pline Point Bowl Profile 2 (m)
pline Point Bowl Profile 3 (m)

0.3 0.16 0.18 0.303 0.268 0.21

