Associate Professor in Urban Design at University of Melbourne

Previous Head of the Urban Design Department at the University of Tasmania

Previous Associate Dean of the Architecture Discipline at the University of Sydney

Participant in a Hong Kong University-based research group, examining existing and potential rail-related urban morphologies (2004-5), which triggered a wider evaluation of Hong Kong forms as models for new kinds of small footprint ‘volumetric’ morphologies

Ongoing enquiry into spatial/visual dimensions of Japanese and other writing systems, and their links with other modes of visual expression: painting, graphics, architecture and even literature

Barrie Shelton

Justyna Karakiewicz

Thomas Kvan

Associate Professor in Urban Design and Master of Urban Design Program Coordinator at University of Melbourne

Previously Associate Professor at HKU Department of Architecture

Trained as an architect at the Westminster University and the Architectural Association

Expertise lies primarily in high-density urbanism in which she completed her Leader of the Linear City research project examining density in Hong Kong

Doctorate from Royal Melbourne Institute of Technology

Professor and Dean in Architecture, Building and Planning at the University of Melbourne

Previously Dean of the Architecture Discipline at the University of Sydney

Architect in Swiss-based architecture practice and Botswana (sustainable projects in healthcare sector)

Founding partner in a venture capital funded software company based in California

Partner in The Coxe Group, SeattleWA, a management consultant to design professionals worldwide

Doctorate in design technologies from the Open University in England, a Master of Architecture from UCLA and a Master of Arts from Trinity Hall, Cambridge, as well as teaching accreditation from HKU

Danish, born in Hong Kong

The Making of Hong Kong (chapter 7: emerging volumetric)
new morphologies for urban density:

use the study of **Hong Kong’s Urban Growth** as a tool for generating urban design frameworks for other cities. (general book summary - how the high-rise intensity of Hong Kong came about; how the forest of towers are in fact vertical culs de sac; and how the city might become truly ‘volumetric’ with mixed activities through multiple levels and 3D movement networks incorporating ‘town cubes’ rather than town squares... concise references to prevailing social and economic conditions, planning laws and key urban theories)

chapter 7:

**Vertical Expansion** <readily apparent> taller structures, extrusions, layers

**Volumetric Intensification** <less obvious> - process concerning *use*, movement, incremental transformation of existing space

- Redefining Ground... duplicate ground / split ground / multiple ground / borrowed ground
- Movement in Space... interlocked ladders / mechanical ladders / elevated pediways / elevated roadways
- Layered Functions... cubed civic centers / stacked cemeteries / flatted factories / sky schools + churches / horses in high-rise / tiered transport / sky gardens / stacked warehouse-folded portside / veneered functions

The Making of Hong Kong (chapter 7: emerging volumetric) Barrie Shelton, Justyna Karakiewicz, Thomas Kvan
Special Administration Region (SAR) of China  
expanse skyline, with few old buildings  
deep natural harbour  
land mass: 426 sq miles  
population: 7 million people (95% Chinese, 5% other)  
leading international financial center  
public transportation traveling rate > 90%  
“east meets west” (Chinese roots + British colony)  
Cantonese/English
redefining ground...

DUPLICATE GROUND

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redefining ground...

SPLIT GROUND

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redefining ground...

MULTIPLE GROUND

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redefining ground...

BORROWED GROUND

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movement in space...

INTERLOCKED LADDERS

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movement in space...

MECHANICAL LADDER

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movement in space...

ELEVATED PEDIWAYS

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(Chapter 7: Emerging Volumetric)
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movement in space...

ELEVATED ROADWAYS

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layered functions...

CUBED CIVIC CENTERS

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layered functions...

STACKED CEMETERIES

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layered functions…

FLATTED FACTORIES

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Barrie Shelton, Justyna Karakiewicz, Thomas Kvan
layered functions...

SKY SCHOOLS AND CHURCHES

The Making of Hong Kong

(Chapter 7: Emerging Volumetric)

Barrie Shelton, Justyna Karakiewicz, Thomas Kvan
layered functions...

HORSES IN HIGH-RISE

The Making of Hong Kong

(Chapter 7: Emerging Volumetric)
Barrie Shelton, Justyna Karakiewicz, Thomas Kvan
layered functions...

TIERED TRANSPORT

The Making of Hong Kong

Barrie Shelton, Justyna Karakiewicz, Thomas Kvan
layered functions...

SKY GARDENS

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Barrie Shelton, Justyna Karakiewicz, Thomas Kvan
layered functions...

STACKED WAREHOUSE/FOLDED PORTSIDE

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layered functions...

VENEERED FUNCTIONS

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