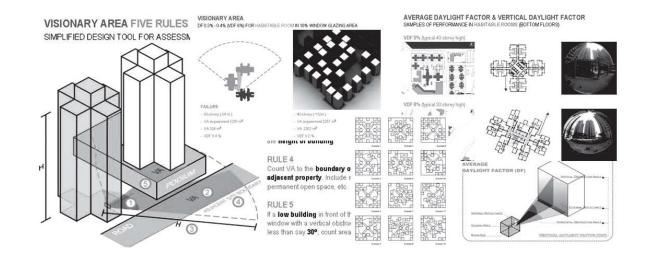
Vicky Cheng (ex-MPhil student 2002-04) Ankur Gadi (Research Assistant) Ryan Li (Research Assistant) Mu Jun (MPhil student) Edward Ng \* Wu Wei (ex-PhD student 1999-2003)

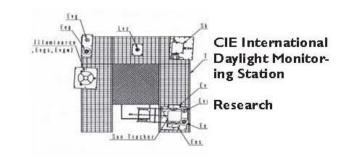


## **Edward Ng**

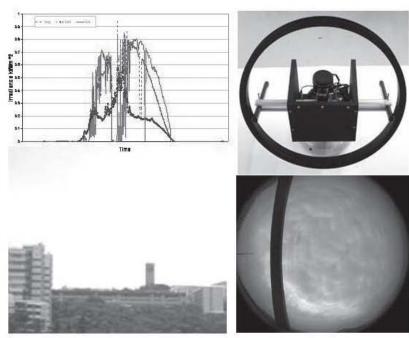
## REVIEW OF REGULATIONS OF LIGHTING AND VENTILATION FOR HEALTHY LIVING

The Building Regulations for Natural Light and Ventilation in Hong Kong is 50 years old. This Buildings Department HKSAR funded study aims to scientifically understand the issues and to advance design regulations based on a performance base approach.

CIE International Daylight Monitoring





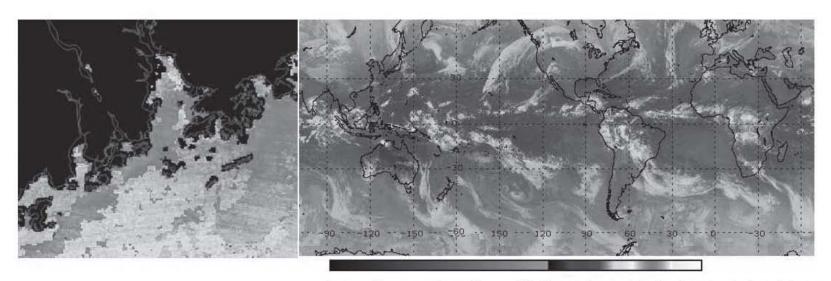


The Unit operates and manages one of the 20 CIE Research Class Daylight Monitoring Station in the World. This CIE Station provides fundamental data for a better understanding of our sky and solar resources, renewable energy, as well as natural lighting studies and design. The project is RAE funded.

Renewable Resources Mapping in South China

Renewable Resources Mapping in South China

Research

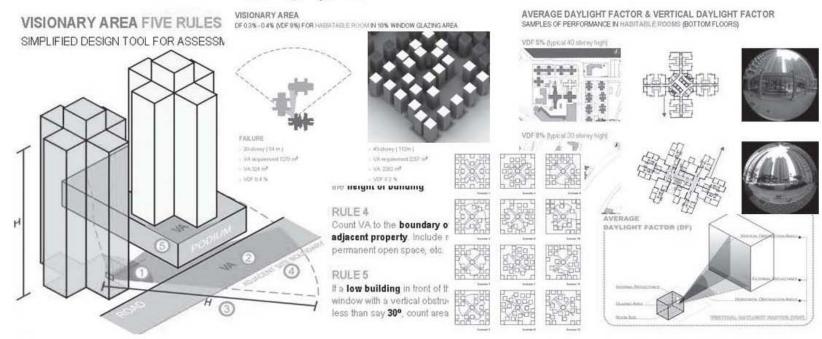


Renewable energy is our future. This Innovation and Technology Funded study investigates the availability of wind, biomass and Solar energy potentials in South China. The project utilizes advanced satellite imaging (MODIS) and modeling technology, calibrated against ground monitoring stations, and simulated mesoscale wind diagnostic modeling. This join university and institution study aims to develop a reference map for designers, engineers and policy makers.

Review of Regulation of Lighting & Ventilation for Healthy Living

Review of Regulations of Lighting and Ventilation for Healthy Living

Research

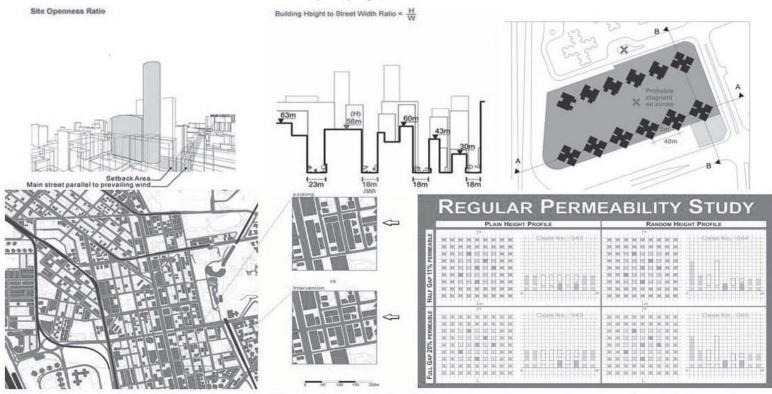


The Building Regulations for Natural Light and Ventilation in Hong Kong is 50 years old. This Buildings Department HKSAR funded study aims to scientifically understand the issues and to advance design regulations based on a performance base approach.

Air Ventilation Assessment System for Urban Planning

Air Ventilation Assessment System for Urban Planning

Research



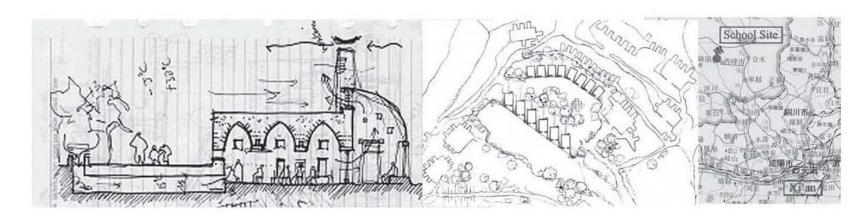
How to design and plan for better air ventilation in urban Hong Kong is the focus of this investigation. Better air movement through our urban fabric could improve thermal comfort and disperse air pollution. This is advantageous to our tropical high density living. The study, commissioned by Planning Department HKSAR aims to develop design quidelines and regulations for planners and designers.

## A demonstration Eco-School in North West China



A demonstration Eco-School in North West China

Design





High Science and Low Technology is the spirit of this design-research investigation. A village school will be built in a village in Gansu, China. This Kadoorie Farm Charity funded project aims to demonstrate sound environmental and ecological concepts using local and traditional craft, material and technology. Post Occupancy Studies and On-Site monitoring complete the investigation.

The Unit is to conduct researches, promote advocacies and direct engagement in the shaping of urban spaces and communal habitus of Hong Kong, and Greater China;

- -- to research on place-making design and planning
- -- to strengthen public engagement in the design and management of the urban places and public spaces
- -- to develop local economy and cultural development via the proper planning and management of public spaces

Marta Bohlmark Wallace Chang• Jennifer Cheng Charmaine Hui Tse Yin Mo Patrick Mok Mathias Woo



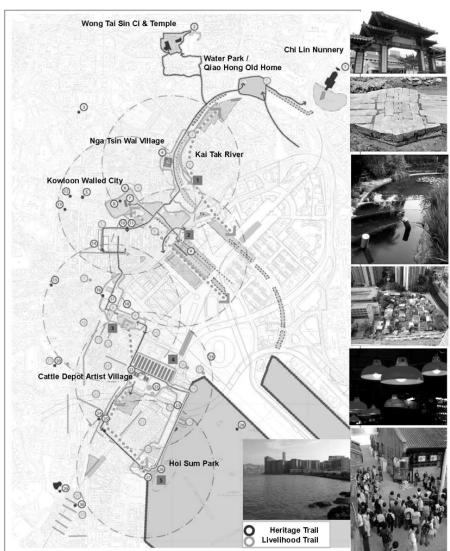
## WALLACE CHANG PING-HUNG

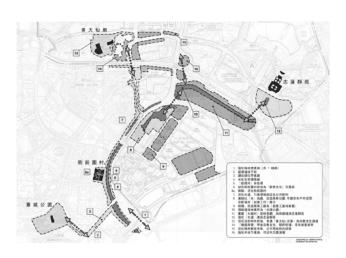
Both a theorist and practitioner in architecture, urban design and public art, Chang has an extensive interest in urban conservation, sustainable planning and vernacular architecture, particularly at the Pearl River Delta (PRD) region. He has realized a wide range of award-winning designs including public toilet, youth hostel, university activities center, residential clubhouse, conservation strategy and district planning projects, etc. Chang initiated a movement of participatory charrettes on sustainable planning and urban conservation in the PRD including Zhongshan (1999), Hong Kong (Tai-O) (2000) and Guangzhou (2002), East Kowloon (2006), Shenzhen (2007). Recently, Chang is researching on the Kai Tak River Urban Regeneration project.

# East Kowloon Heritage Livelihood Trail



An Urban Connectivity Research study to link related districts of heritage and livelihood interests around Kai Tak Redevelopment in collaboration with Chinese Architectural Heritage Unit, commissioned by Development Bureau 2009-10.





## Human Landscape— Kai Tak River





A Rediscovery of Human Landscape—Water, Green and Culture Regeneration Project of Kai Tak River, cultivation of ecology and culture 2007-09

A Consultancy Study on Public Open Space in Private Developments—Design and Management Guidelines. in collaboration with Rocco Design, commissioned by Development Bureau 2009-10.

## Study onsultancy S



Cheung Kong Center, 2 Queen's Road Central 長江集團中心, 2 皇后大道中, 中環

## **CRITERIA**

Street Frontage

Shape

Width / Length Ratio

Major / Minor Space

Area

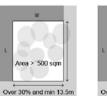
Visibility

Open To Sky

Slope / Gradient

Green Coverage / Planting Area

## PUBLIC GREEN **PLAZA**



Over 30%

Recommended 1:3 max

Site-specific but preferably 75% min. for major space

500 sgm min

Area > 500 sqm

Site-specific

13.5 m min width

Recommended

Over 30%

1:3 max

Visible

Open air

Preferably on flat land 50% min



Site-specific

Site-specific

6 m min width

Recommended

Site-specific but

for major space

200 sqm min

Visible

30% min

preferably 75% min.

Over 15%

1:3 max

13.5 m min width

Site-specific but preferably 75% min. for major space

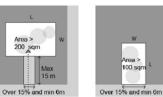
500 sgm min

Highly visible Open air

Preferably on flat land 30% min

Open air Preferably on flat land

## COURTYARD POCKET SPACE



Site-specific

Over 15% 6 m min width

Recommended

1:3 max Site-specific but preferably 75% min.

for major space 100 sqm min

Visible

Open air

Preferably on flat land

30% min

**PROMENADE** Spatial recess every 50m length

Site- specific but Generally elongated

N/A

15-20 m min width

Site-specific but

Generally elongated

N/A

Visible

Open air Site-specific

Site-specific

## Design Together – an experience in Changdi, Guangzhou

by Prof. Wallace Chang Ping Hung



"An icenic act of destruction is a marked retrieval of new memory."

In the last few years, the call for heritage

consentation is by no meets a maintenam operior in the uniteractive discussion, and approximately an exercise of the community. But all subjects are seened on the community of the property o

home does strengthen a desire of ownership, thus to examine our existing environment, to criticize our deficiencies, and to respect our own

However, the gop between the obtains and decision healther in utant ordering in still unboyable, which is without an intermediate short modern brodges is which you can be under modern in 196 and 196

## "What are the major roles of the architects, the public, and the government in urban design?"

To easily for the architect in the lopport that of survivage products of developers, we can assume survivage products of the control of the support of the control of the control of the support of the control of the control of the products, and a pression to subsymal on a profession, and a pression to subsymal on hand, the act in proceeding against the survivage products of the control of t

After ten years of post-67 government, the friend foogs' built only in sill at sit at site for the foogs' built only in sill at site for the ten self-consciousness of estamping opening. The self-consciousness of estamping opening the self-consciousness of estamping opening the self-consciousness of estamping opening tentral self-consciousness of estamping opening tentral self-consciousness of estamping opening self-consciousness self-consciousness opening self-consciousness sel

# Design Together— Changdi, Guangzho





A cross-disciplinary and cross-cultural Research + Design Charrette in Changdi, Guangzhou to investigate the possibility of transformation for urban places in China, supported by SCUT and Rockefeller Brothers Fund, 2002

