

# JOIN US!



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Pomeroy Academy supports student internships at Pomeroy Studio, Singapore, an internationally recognized design practice. The internship programmes provides an insight into high-density sustainable design in a region that is experiencing significant urban change.

To apply for internship opportunities, please contact Deepshi Kaushal or Ivana Dobnikar at [internship@pomeroystudio.sg](mailto:internship@pomeroystudio.sg)

For more information about us, upcoming courses and academic collaborations, please contact

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# POMEROY ACADEMY

2017 January

[www.pomeroyacademy.sg](http://www.pomeroyacademy.sg)

Issue 1

## EDUCATION TRAINING & COURSES

### POMEROY ACADEMY

- Online
- Webinars
- Benefits of the courses

### TUTORS

- Jason Pomeroy
- Deepshi Kaushal
- Ivana Dobnikar

### CURRENT COURSES

- Smart and Sustainable Cities
- Zero Carbon Developments
- Towards Vertical Cities
- Skycourts and Skygardens
- Prefab, Precast & Modular Construction
- Culture & Sustainability
- Economics of Sustainability

### WHO SHOULD ENROL

- Students / Architects / Planners / Developers / Academics / Consultants/ Landscape Designers / Conservation Architects / Contractors

### PUBLICATIONS

- POG | Pod Off-Grid (2016)
- Distil Design Disseminate (2015)
- Skycourt and Skygarden (2014)
- Idea House (2011)

### JOIN US

- Internships



Pomeroy Academy is a provider of training and educational courses in the field of sustainability for the built environment industry. The courses are specialist in nature and are focused on the process of designing climate responsive sustainable built environments through an evidence-based approach. The courses seek to heighten awareness of the green agenda amongst qualified built environment professionals, and provide the necessary skills to make a difference in their respective fields. The Academy was founded by Prof. Jason Pomeroy, whose interests lie in sharing sustainable design knowledge with an industry that is increasingly needing to respond to climate change.

# POMEROY ACADEMY

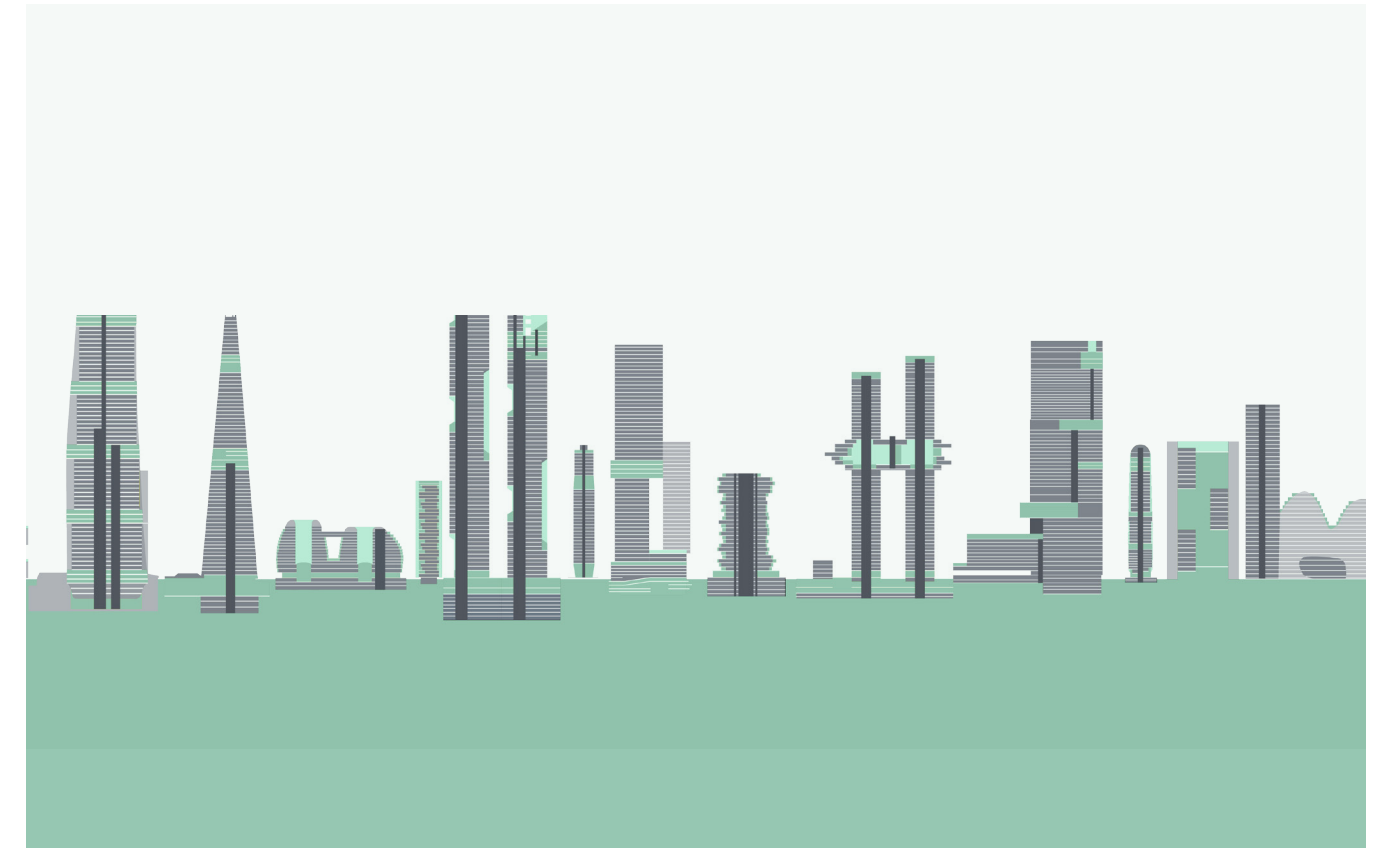


## Online

Pomeroy Academy believes in disseminating knowledge through online, web-based, education to everyone; everywhere. We offer short certification courses online that fosters learning in interactive and flexible environments. The content is curated and created by industry renowned educators and specialists to cater the needs of students and professionals who seek to enhance their skills in the field of sustainable design, green cities, green buildings, vertical cities, vertical urban theory and zero carbon development. Courses are disseminated through video lectures, digital hand-outs, and online discussion forums

## Webinars

We draw upon a broad range of expertise from various industry experts, suppliers, manufacturers, and software platforms to create an interactive webinar forum. The themes are curated based on current industry challenges, opportunities and innovations in the field of sustainability. These are then moderated by Pomeroy Academy or Special Guest moderator to allow for an engaging exchange of ideas through live questions and answers for the enrichment of its participants.



## Benefits of the Courses

- Interactive Online Learning
- Content tailored by renowned practitioners
- Pioneering ideas in the field of sustainable built environment



# TUTORS

## JASON POMEROY

BA (Hons) BArch (Dist),  
MSt (Cantab), PhD, RIBA, RICS



Jason Pomeroy is an award-winning architect, masterplanner and one of the World's leaders in sustainable design. His career has spanned Europe, The Middle East and Asia and includes a number of notable projects, including the first zero carbon house and zero carbon communities in Asia. He relocated from London to Singapore in 2008 and is the Founder of sustainable urbanism, architecture, design and research firm, Pomeroy Studio.

He gained his Undergraduate and Postgraduate degrees from the Canterbury School of Architecture, a Masters degree from the University of Cambridge, and a PhD from the University of Westminster. He holds professorships at the University of Nottingham (UK), Universita IUAV di Venezia (Italy) and James Cook University (Australia). Prof Pomeroy lectures globally, publishes widely, and is the Founder of sustainable education provider, Pomeroy Academy.

Jason also works to raise awareness of the cultural role architecture plays in society. He is a consultant and host of the popular architecture / travel TV series; 'City Time Traveller (Series 1 & 2)', 'City Redesign', and 'Smart Cities 2.0', which has aired throughout Asia and the Middle East. Jason is also a featured speaker on all aspects of urbanism and sustainability at global conferences and events, including TEDx and the World Architecture Festival.

## DEEPSHI KAUSHAL

BArch, MSc ISD, COA,  
LEED Green Associate



Deepshi is a practicing architect and sustainable design consultant based in Singapore. She has worked on a diverse range of typologies in the public and private sector, spanning various cultural and climatic regions across Asia. Her extensive architectural experience in projects range from airports, residential, commercial, MICE and hospitality sectors. Her achievements include India's first LEED certified airport project, for which she played a fundamental environmental design role.

Her practice experience developed her interest in green design and led her to pursue a Masters degree in Integrated Sustainable Design at the National University of Singapore. She has also contributed to the MSc-ISD programme as editor of their latest publication "SG3 Decoding Sustainable Urbanism | Case Study, Singapore" and has been a guest critic at studio presentations.

At Pomeroy Studio, her role as an Associate Sustainability Consultant seeks to apply passive and active design strategies with a particular ecological consideration to enhance the Studio's design of cities, buildings, landscapes and interiors.

Ivana has over 13 years of experience on various international projects both at the macro and micro scale. She was responsible for leading the design process and coordination of a number of architectural, interior and urban planning projects that included sustainability research.

Her track record of projects include office buildings, automotive architecture, marina design, residential complexes, yacht clubs, museums, resorts, high-end villas and mixed-use developments. She has also been involved with commercial and retail fit-outs in Serbia, China and Singapore.

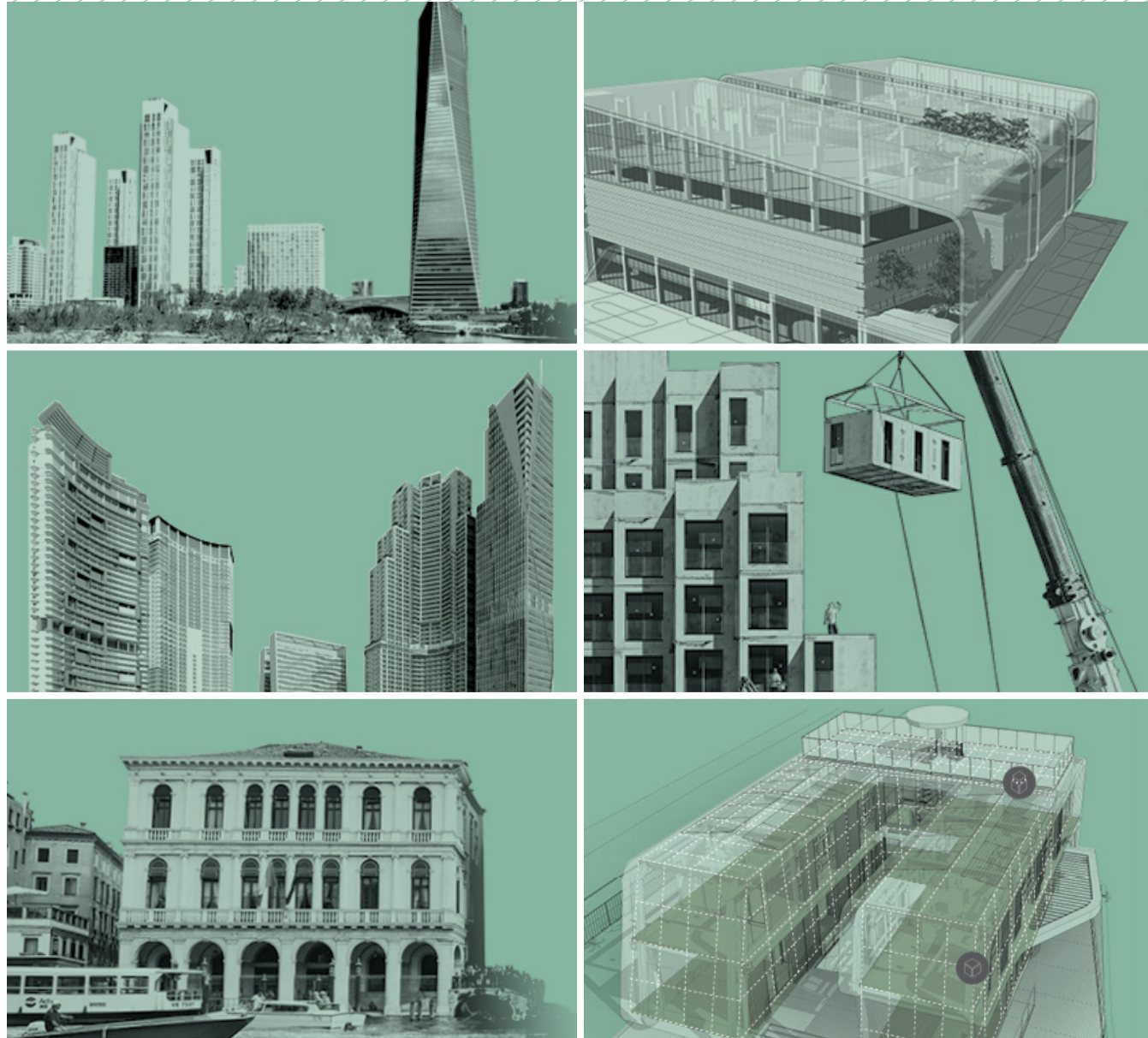
At Pomeroy Studio, Ivana is a Senior Architectural Designer, with an advanced knowledge of sustainable and innovative architecture, and is keen to apply her LEED (Leadership in Energy and Environmental Design) Green Associate knowledge to the Studio's projects.

## IVANA DOBNIKAR

MArch, LEED Green  
Associate



# COURSES



We offer a variety of courses independently or in collaboration with renowned educational institutions from around the World. These may take the form of certified short courses, Diploma's and Master's Degrees. Specialist in nature, our courses are structured to combine theoretical frameworks with practical applications through seminars and lectures, and coursework. Industry professionals, graduates and students further benefit through the mutual exchange of ideas through collaborative workshop platforms. Based on the nature of the course, there will also be industry accreditation points awarded.

## SMART AND SUSTAINABLE CITIES

### WHO SHOULD ENROL

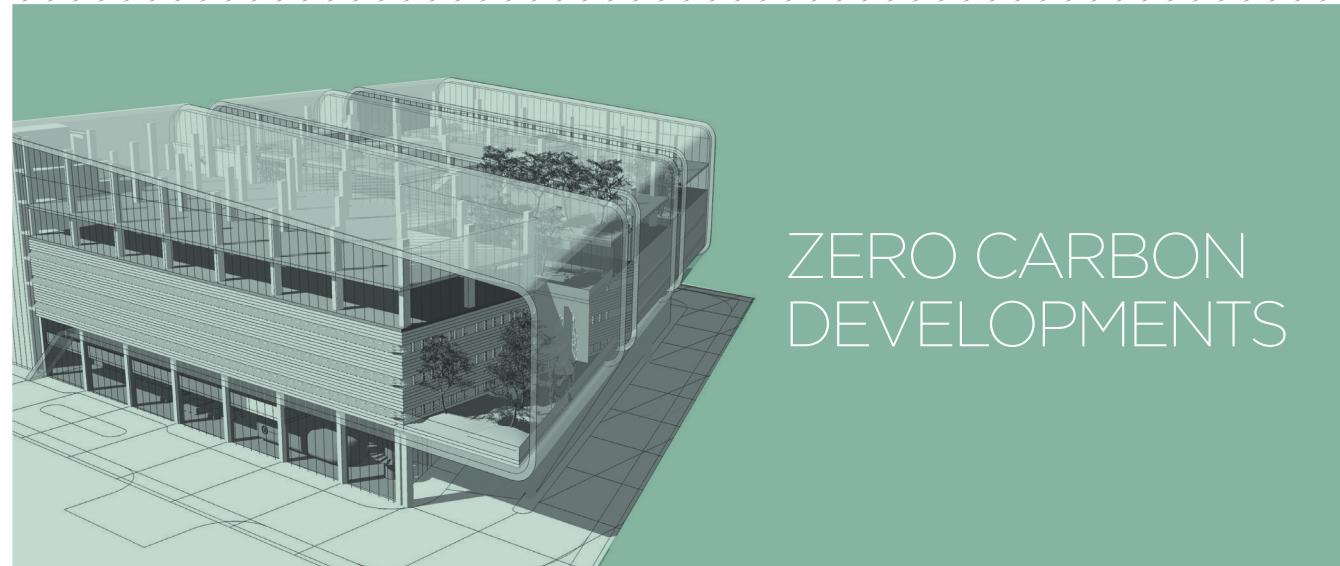
Students Architects Planners Developers Academics Consultants

### ABOUT THE COURSE

When one thinks of what a Smart City is, the natural inclination would be to imagine driver-less cars whizzing through streets, bike sharing schemes, talking fridges, and the use of Big Data as big brother. Such a Utopian (or dystopian) vision is largely based on technology - specifically Information and Communication Technology (ICT) and the Internet of Things (IoT), and imagines a future where lives are made easier and more productive - thanks to technology. However, amongst all the talk of technological innovations in Smart Cities, it is easy to overlook the important roles governance, culture and community engagement plays in enabling smart practices to take place. Furthermore, as the needs of city dwellers around the world vary, so too do definitions of what makes a Smart City. In this course, we consider different case studies from around the World - investigating their unique characteristics and key smart innovations and design principles, and ultimately asking whether such environments really enhance our daily lives.



# COURSES



## ZERO CARBON DEVELOPMENTS

### WHO SHOULD ENROL

Students Architects Planners Developers Academics  
Consultants

### ABOUT THE COURSE

Achieving zero net emissions and seeking to stabilize the climate change-related impact on the built environment requires long-term planning, as well as a contextual sensitivity to people and place. Zero carbon developments have the ability to reduce operational consumption through passive lean design and then offset such energy and consumption through on-site/off site clean (renewable) energy generation. In this course we will consider passive environmental design principles with particular consideration given to their past cultural origins. This will be supported by consideration of new technologies and strategies for implementing zero carbon design in different climatic zones, and how such strategies can be scalable from the micro-scale of a residence to the macro-level of a community.



## TOWARDS VERTICAL CITIES

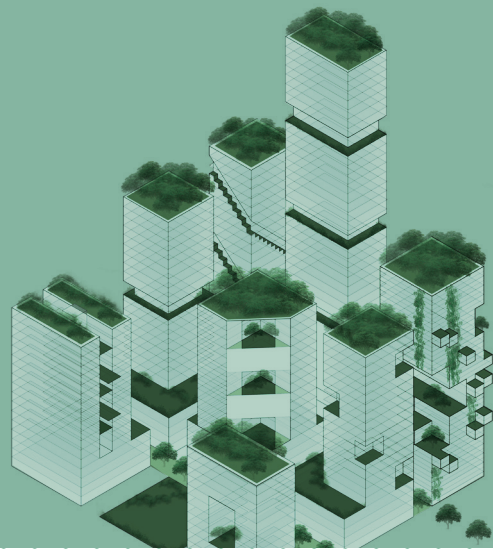
### WHO SHOULD ENROL

Students Architects Planners Developers Academics  
Consultants

### ABOUT THE COURSE

Population increase is leading to dramatic urbanization in the Asian sub-continent. Across the continent large-scale migration from the countryside to the cities is a phenomenon that is putting pressure on Asian megacities. Existing urban architectural and planning models struggle to accommodate the increased population and provide open/green spaces for recreation. This course will aim to explore a vertical urban theory that facilitates development in a sustainably inclusive manner. It will go through in detail planning principles that allow for greener, appropriately orientated social spaces that are climatic responsive, more integrated with circulation patterns within the tall building to permit an ease of movement, and activated by communal and economic uses to encourage greater social interaction within developments.

# COURSES



## SKYCOURTS AND SKYGARDENS

### WHO SHOULD ENROL

Students Architects Planners Developers Academics  
Consultants Landscape Designers

### ABOUT THE COURSE

Population increase, advances in technology, and the continued trend towards inner city migration through economic progress has transformed the traditional city of spaces into the modern, high rise city of objects. This course considers the skycourt and skygarden in terms of their social, economic, environmental, cultural, technological and spatial contribution to the urban habitat. It will demonstrate how the decline of the public realm has yielded the need for alternative social spaces, and how the skycourt and skygarden form part of a broader urban vocabulary alongside the street, the square and arcade. Exemplar case studies from around the globe provide a further prompt for thinking as to how such spaces will evolve in the future as an integral part of building design; and thus a typology that straddles, urbanism, landscape and architecture disciplines.



## PREFAB PRECAST & MODULAR CONSTRUCTION

### WHO SHOULD ENROL

Students Architects Planners Developers Academics  
Consultants

### ABOUT THE COURSE

In modern times modularity and prefabrication have been associated with technological and material innovations, and yet it has been rooted in many cultures from the past. This course explores prefabrication through the city lens - explaining the process in relation to dense urban environments, its applicability and potential design opportunities. It aims to break the stigma that modular construction is mostly monotonous, and rather can be climate responsive, adaptable and potentially bespoke. The course aims to introduce various best practices in industry to date and also explore a unique combination of volumetric and flat pack systems through a series of case studies. It will further explore reducing operational carbon footprint through the use of passive design and optimization through building physics.

# COURSES



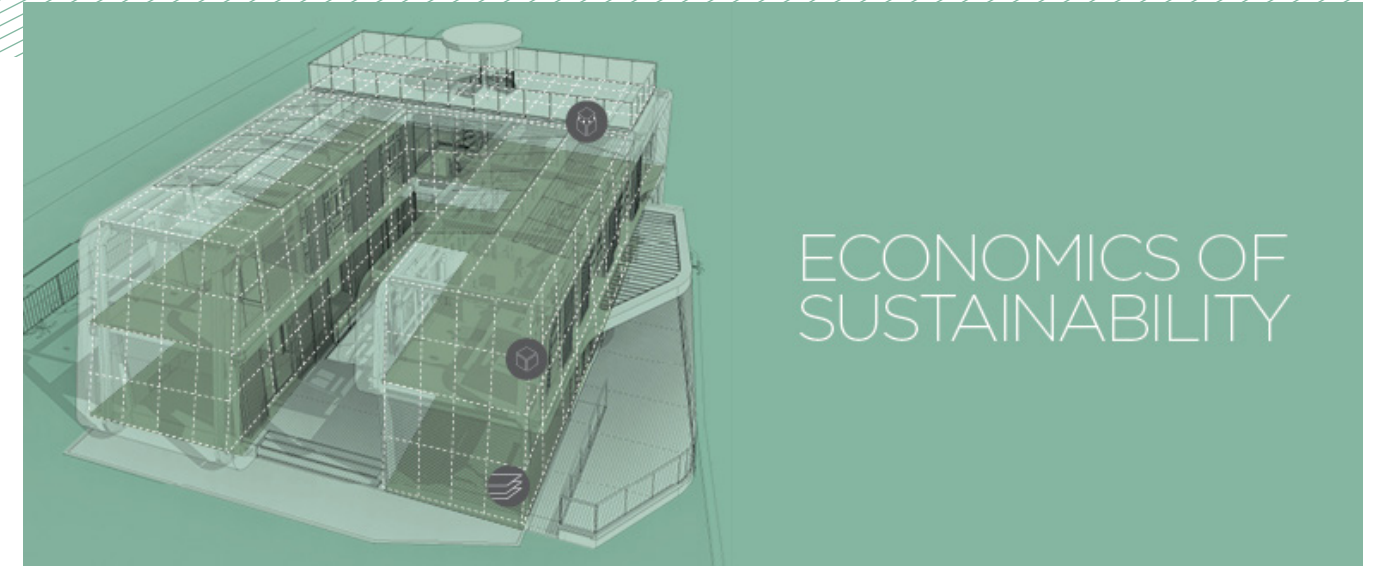
## CULTURE & SUSTAINABILITY

### WHO SHOULD ENROL

Students Architects Planners Developers Academics  
Consultants Conservation Architects Contractors

### ABOUT THE COURSE

Culture is often overlooked in the discourse on sustainability. Yet globalization potentially erodes heritage and culture in response to modernization. This course will provide a balanced understanding of the green agenda that goes beyond the triple bottom line to also address the cultural, spatial and technological issues that beset our built environment. In particular, this course will demonstrate how the principles of sustainability can be applied in the conservation, restoration and adaptation of historic structures; focus on integrating the conservation of the built heritage into urban and regional planning as a means of enhancing heritage tourism. It will explore ways in which tested building and conservation techniques still meet emerging standards for sustainability and energy conservation; and provide an insight into how indigenous building materials and passive design techniques help retain local cultural identity.



## ECONOMICS OF SUSTAINABILITY

### WHO SHOULD ENROL

Students Architects Planners Developers Academics  
Consultants

### ABOUT THE COURSE

Sustainability for economists means living off interest and avoid consuming capital. The capital we are putting to question here is the “man-made, social and natural” capital and establish an understanding of how one affects the other. Capital can either be man-made like tools and technologies; human and social – that relates to livability, skill enhancement and knowledge transfer and natural capital – the earth and the nature. Climate change has brought about the need for global paradigm shift towards reduction of carbon emissions and thus operational costs. This course will be looking to broaden the understanding from policy level to green building assessment tools and is payback period the only metric to understand long term value addition of sustainable strategies at design and operational stage.

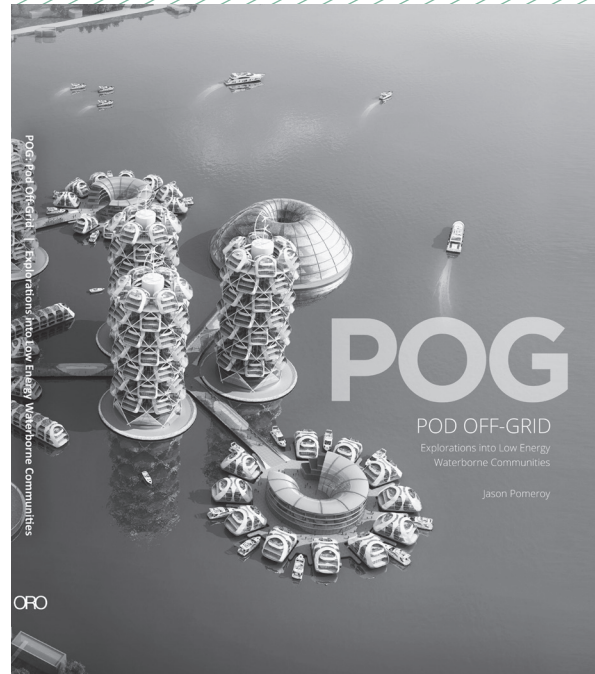


# PUBLICATIONS

## 2016 | POG | POD OFF-GRID

Despite the continued risk of widespread flooding through Climate Change, living, working and playing on water continues to be a necessity and a way of life for many. In the context of population increase, rapid urbanization and technological advancement, architects and urban planners have an opportunity to rethink the city of tomorrow and embrace an element that accounts for 2/3 of the Earth's surface area with the fundamental question: can water be an alternative means of urbanization?

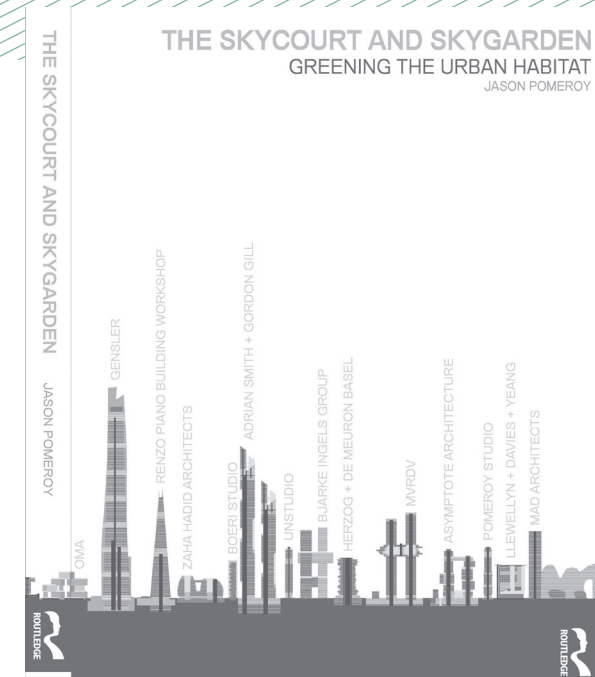
Prof. Jason Pomeroy has pushed the boundaries of sustainable design on land through his research into zero-carbon developments and the role of urban greenery in the sky. In this book he explores the ideas behind self-sustaining low / zero energy waterborne communities. Built case studies from around the World, students' works, and his vision for future waterborne communities explore how to address many of the social, spatial, cultural, economic, environmental and technological challenges of tomorrow.



## 2014 | SKYCOURT AND SKYGARDEN

This book considers the skycourt and skygarden as an 'alternative social space' that forms part of a broader multi-level urban infrastructure – seeking to replenish the loss of open space within the built environment. Pomeroy begins the discussion with the decline of the public realm, and how the semi-public realm has been incorporated into a spatial hierarchy that supports the primary figurative spaces on the ground or, in their absence, creates them in the sky.

He considers the skycourt and skygarden in terms of their social, cultural, economic, environmental, technological, and spatial benefits that they provide within the urban habitat and references case studies from around the World. He concludes as an advocate for a new hybrid city that can harness the socio-spatial characteristics of the public domain – placed within buildings as alternative communal spaces for the twenty-first century.



## 2015 | DISTIL, DESIGN DISSEMINATE

In an age of global markets, social mobility and technological advancement, there also lies the continued threat of disappearing cultures, public space depletion, and climate change. Never has there been such an important time to holistically address these issues in the design of our built environment, and to consider new processes of design in the interest of forging more sustainable habitats.

Pomeroy Studio's design and research works lie at the intersection of these pressing issues and provide innovative sustainable solutions from the micro-scale of a dwelling to the macro-scale of a city. This book documents Jason's origins and early works, before considering the Studio's unique 'evidence-based interdisciplinary sustainable design process' through design and research projects both completed and on the drawing board.



## 2011 | IDEA HOUSE

The Idea House is a prototypical dwelling that provides an insight into future tropical living. Conceived as a test bed for new sustainable ideas and processes, the house showcases the latest in sustainable architecture and is the first zero carbon residence in South East Asia. It also involved the collaboration of some of the world's leading solution providers from the fields of architecture, engineering, landscape design, construction and Information Technology.

'Idea House: Future Tropical Living Today' documents the process of design required to create a zero carbon development from inception to completion and is recorded in graphic and photographic detail. The book demonstrates the importance of design collaboration in order to deliver a sustainable product in the form of a house that reduced consumption, generated energy, and was respectful of local socio-cultural practices.

