



GAVIN CONFERENCES

# International conference on Civil, Architecture and Marine Engineering

April 22–23, 2019 | Osaka, Japan

**Gavin Conferences**

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# Scientific Program

Day 1

April 22, 2019

9:00 – 10:00 Registrations

10:00 – 10:15 Opening Ceremony

## Keynote Forum

10:15 - 10:45 **Sukhvarsh Jerath**  
University of North Dakota, USA

10:45 - 11:15 **Yuji Miyamoto**  
Osaka University, Japan

Refreshments Break 11:15 - 11:30

11:30 - 12:00 **Yi-Qing Ni**  
The Hong Kong Polytechnic University, Hong Kong

12:00 - 12:30 **Jianfeng Wang**  
City University of Hong Kong, Hong Kong

## Scientific Sessions

12:30 - 12:55 **Additive Manufacturing Technology in Construction: Towards Circular Construction**  
**Sayed Ghaffar**, Brunel University, London, UK

12:55 - 13:00 **Group Photo**

Lunch Break: 13:00 - 14:00

14:00 - 14:25 **Verification by natural data the numerical models of waves and currents**  
**Izmail Kantarzi**, Moscow State University, Russian Federation

14:25 - 14:50 **A Review of the Performance of the Price Premium of “Green Buildings” – A Hedonic Price Model Approach**  
**Michael Sing**, Hong Kong Polytechnic University, Hong Kong

14:50 - 15:15 **Hysteresis characteristics of lateral soil resistance of pile group based on 3D FEM**  
**Takaharu Nakano**, Osaka University, Japan

15:15 - 15:40 **Enhancement of graphical user Interface for ARDS Model tool By Matlab® Software**  
**Shaker Ibrahim**, Kuwait Institute for Scientific Research, Kuwait

Refreshments Break 15:40 - 16:00

16:00 - 16:25 **Investigate the influential factors of self-restraint thermal stress in early-age concrete using mesoscopic simulation**  
**Yifan Wang**, Wuhan University, China

16:25 - 16:50 **A machine learning approach to predict window openings in naturally ventilated buildings**  
**Tongyu Zhou**, The University of Nottingham Ningbo, China

## Panel Discussion

Day 2

April 23, 2019

## Keynote Forum

10:30 - 11:00 **Raj Shah**  
Liverpool John Moores University, United Kingdom

11:00 - 11:30 **Geoffrey Shen**  
The Hong Kong Polytechnic University, Hong Kong

Refreshments Break: 11:30 - 11:45

11:45 - 12:15 **Paolo Vincenzo Genovese**  
Tianjin University School of architecture, China

12:15 - 12:45 **Ali Cheshmehzangi**  
The University of Nottingham, China

## Scientific Sessions

12:45 - 13:10 **Analysis of longitudinal strength of a bulk carrier in waves**  
**Vishwanath Nagarajan**, Indian Institute of Technology Kharagpur, India

Lunch Break: 13:10 - 14:00

14:00 - 14:25 **Practical method for estimating pile settlement in clay**  
**Hisham M. Nofal**, University of Cincinnati, United States

14:25 - 14:50 **Research on feasibility analysis of cross-vibration wing resonance method in loess foundation**  
**Changhui Gao**, Southeast University, China

14:50 - 15:15 **Use of architectural elements to improve structural dynamic responses**  
**Jiming Xie**, Zhejiang University, China.

Refreshments Break: 15:15 - 15:30

## 15:30 - 16:30 Poster Presentations

CAME- 101 **Reduction of disinfection byproducts using micro-hollow beads in terms of particulate matter removal**  
**Minsoo Maeng**, Dankook University, South Korea

CAME- 102 **Removal characteristics of Microcystis aeruginosa using micro-bubble from Flash Pressurized Nozzle (FPN) with low energy**  
**Donghyun Kim**, Dankook University, South Korea

CAME- 103 **Mathematical models for predicting trihalomethanes (THMs) in water treatment plants of South Korea**  
**Nirmal Kumar Shahi**, Dankook University, South Korea

CAME- 104 **Study on correlation of compressive strength of cementitious material based on the hydration degree measured by drilling powder**  
**Shunsei Tanaka**, The University of Tokyo Japan

CAME- 105 **Seismic response reduction of base isolated building with cushioning in collision with retaining wall**  
**Ayaka Sato**, Osaka University Japan

CAME- 106 **Thermal effect to the surrounding outdoor from an innovative Green Deck over highway toll plaza: Costs and benefits analysis**  
**Edwin Chan**, The Hong Kong Polytechnic University, Hong Kong

## Closing Ceremony & Awards Presentation