

***2nd circulation**

**1st International Conference on
Press-in Engineering 2018, Kochi**



**1st ICPE 2018,
Kochi**

September 19-21, 2018 Kochi, Japan



Veune

Organized by

International Press-in Association (IPA)

Subsidized by

International Scientific Exchange Fund of Japan Society of Civil Engineers

Supported by

Asian Civil Engineering Coordinating Council
International Society for Soil Mechanics and Geotechnical Engineering
Japan Construction Machinery and Construction Association
The Japanese Geotechnical Society
Japan Press-in Association
Japan Society of Civil Engineers
Japanese Technical Association for Steel Pipe Piles and Sheet Piles
Kochi Prefecture
Kochi University of Technology
National Institute of Technology, Kochi College
The Bank of Kochi, Ltd.
Shikoku Railway Company
West Nippon Expressway Company Limited, Shikoku branch
The Shikoku Bank, Ltd.
GIKEN LTD.



Overview

Growing necessity for maintenance and renovation of complexed urban infrastructures and the increasing vulnerability to natural disasters in developed countries, as well as the urgent demand for quantitative expansion of basic infrastructures in developing countries in Asia and other regions, are the challenges that the present global society is faced with. Under the unstable economic situation surrounding the world, infrastructures and their construction processes have to be rationalized.

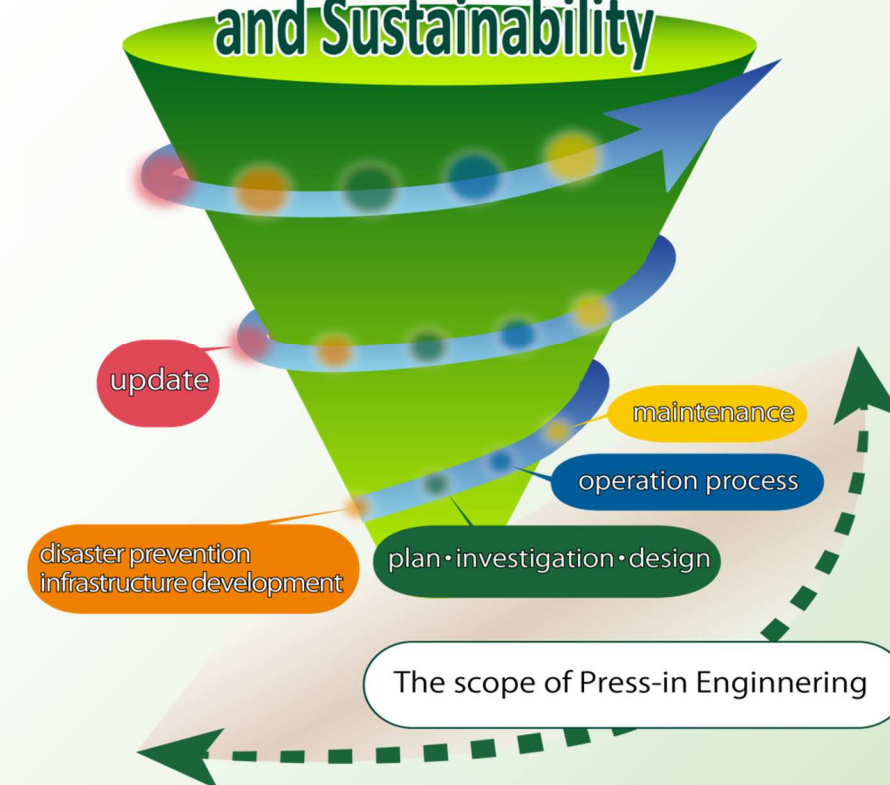
Potential for providing solutions for these challenges can be found in the Press-in Method, featured by its environmental friendliness by the use of hydraulic static loads and its spatial efficiency associated with the self-walking function. To fulfill this, an interdisciplinary academic field - Press-in Engineering- is essential, where sharing of knowledge among the fragmented processes of planning, investigation, design and construction are integrated and the engineers who are engaged in developing construction machines and construction techniques, improving the accuracy and productivity of the construction process as well as conducting the construction itself, are encouraged to closely communicate. This international conference is the specific activity to expand this academic field, to be held in Kochi where the Press-in Method was originated.

Goals

The conference aims to activate the press-in engineering to promote the solution of the above mentioned global challenges, by providing the opportunities of the collection of application examples as disaster prevention measures, the summary of the present situation of the use of ICT or IOT in construction machines, and the communication between academic researchers and practical engineers expecting the innovations based on their spiral improvement.



**Better quality of life
and Sustainability**



Themes

1. Disaster prevention in coastal areas, mountainous areas or others (countermeasure against tsunami, erosion control, slope protections and others) related to press-in, retaining wall, deep foundation or others
2. Renovation or development of infrastructures (road, railway, adjacent construction, underground construction, rural area development and others) related to press-in, retaining wall, deep foundation or others
3. Construction machines or devices for better productivity (automation and others) related to press-in, retaining wall, deep foundation or others
4. Methods or case studies of project evaluation related to press-in, retaining walls, deep foundations or others
 - Papers can be either on academic issues (fundamental research) or on practical issues (application examples and machine development)

Important dates

Call for paper: **April 30, 2017**

Submission of abstract: **October 15, 2017**

*Approximately 400 words (Format to be downloaded:
<http://www.press-in.org/events/icpe01/outline/en>),
mailed to Assoc. Prof. Katsutoshi Ueno (icpe2018@gmail.com)

Notice of acceptance of abstract: **November 15, 2017**

Submission of full paper: **March 15, 2018**

Submission of revised final paper: **June 30, 2018**

Committee

◇ International Advisory Board

Malcolm Bolton / Emeritus Professor, The University of Cambridge

Neil Taylor

/ Secretary General, International Society for Soil Mechanics and Geotechnical Engineering

Peter Cali / Managing Director, Sea Level Engineering, LLC

Leung Chun Fai / Professor, The National University of Singapore

Kenichi Soga / Chancellor's Professor, The University of California, Berkeley

Limin Zhang

/ Professor, The Hong Kong University of Science and Technology

Masanao Ozaki / Governor, Kochi Prefecture

Masahiko Isoe / President, Kochi University of Technology

Shunichi Hamanaka

/ President, The National Institute of Technology, Kochi College

Kazuyoshi Tateyama / Professor, The Ritsumeikan University

Michio Okahara

/ President, Japanese Technical Association for Steel Pipe Piles and Sheet Piles.

Kazuhiro Watanabe

/ Director, Japan Construction Machinery and Construction Association

Kenichi Horikoshi

/ Secretary General, Asian Civil Engineering Coordinating Council

Akio Kitamura / President, GIKEN LTD.

◇ Organizing committee

Chairperson: **Osamu Kusakabe** / President, IPA

Secretary General: **Hiroyuki Yasuoka** / Operating Officer, GIKEN LTD.

Members:

Katsutoshi Ueno / Associate Professor, Tokushima University

Koji Hamada / General Manager, GIKEN LTD.

Kojiro Okabayashi

/ Professor, National Institute of Technology, Kochi College

Masahiro Ouchi / Professor, Kochi University of Technology

Yukihiro Fukuda

/ General Manager, Civil Engineering Division, Kochi Prefecture

Koji Hamada / General Manager, GIKEN LTD.

Naoki Takase / General Manager, Shikoku Railway Company

Yoshinori Igase

/ General Manager, West Nippon Expressway Company Limited, Shikoku Branch

◇ Scientific working group

Chairperson: **Katsutoshi Ueno** (same as above)

Vice Chairperson: **Kojiro Okabayashi** (same as above)

Secretary: **Masahiro Ouchi** (same as above)

Yukihiro Ishihara / Manager, GIKEN LTD.

◇ Administrative working group

Chairperson: **Koji Hamada** (same as above)

Vice Chairperson:

Nobuyuki Kumita

/ Planning Supervisor, Civil Engineering Division, Kochi Prefecture

Secretary:

Junya Arai / Manager, Shikoku Railway Company

Norihisa Ishimura

/ Manager, West Nippon Expressway Company Limited, Shikoku Branch

Noriyuki Akesaka / Advisor, DAI-ICHI Consultants Company Limited

Program

◇ September 19, 2018

Morning:

- Opening address

- Invited lecture 1

Title: "The damage due to the 2011 Tohoku earthquake and tsunami, and issues for their future mitigation"

Lecturer: **Fumihiko Imamura** / Professor, Tohoku University
Director, The International Research Institute of Disaster Science

- Invited lecture 2

Title: "Introduction of ICT to construction machines and advancement in construction technology"

Lecturer: **Kenjiro Shimada** / Team Leader, Komatsu Ltd.

Afternoon:

- Session 1 (case histories)
- Session 2 (research outcomes)
- State of the art report 1

Title: "Cambridge-GIKEN collaboration working on penetration mechanism and performance of pressed-in piles"

Lecturer: **Stuart Haigh** / Senior Lecturer, Cambridge University
Yukihiro Ishihara / Manager, GIKEN LTD.

Evening: Welcome reception

◇ September 20, 2018

Morning:

- State of the art report 2

Title: "Invention and development of Silent Piler"

Lecture: **Akio Kitamura** / President, GIKEN LTD.

- Session 3

(dialogue among mechanical and geotechnical engineers, academicians and practitioners, operators)

- Session 4 (project evaluation method)

- Closing address

Afternoon: Site visit

Evening: Banquet

◇ September 21, 2018

Morning: Research committee meetings

Publication

Accepted papers will be published in the form of the conference proceedings.

Registration fee

Classifications		Early registration until 31May '18	Normal registration
Members	Individual Members	JPY 8,000	JPY 10,000
	Young Researchers/Engineers (below 35 years)	JPY 5,000	
	Student Members	JPY 2,000	
Non-members	General	JPY 12,000	JPY 15,000
	Young Researchers/Engineers (below 35 years)	JPY 7,500	
	Students	JPY 3,000	

Note: The above fees include access to conference sessions and the site visit.
The banquet will be announced in due course.

Official language

English

Venue

Kami Campus, Kochi University of Technology

Tosayamada, Kami City, Kochi 782-8502, JAPAN

Notice

< Air access >



- ① Tokyo (Haneda Apt.) to Kochi : 75 min.
- ② Nagoya (Komaki Apt.) to Kochi : 60 min.
- ③ Osaka (Itami Apt.) to Kochi : 45 min.
- ④ Fukuoka Apt. to Kochi : 65 min.

From Kochi Ryoma Airport

To Kami Campus, Kochi University of Technology :

Approximately 20 minutes by car or taxi

Contact



ICPE Organizing Committee

E-mail: icpe2018@gmail.com

Tel: +81(0)3 5461 1191