



Date : 19 June (Sat) and 20 June (Sun) 2021
 Venue : Online
 ICPE2021 Website : <https://icpe-ipa.org/>

■ Background

There is a growing need for the maintenance and renovation of obsolete infrastructure in developed countries. In the meantime, developing countries face compelling challenges of constructing adequate infrastructure in response to rapid urbanization. Also, we are witnessing greater threats of earthquakes, typhoons and other natural disasters, which forces us to recognize and acknowledge the unexpected vulnerability of infrastructure. Meeting these challenges will require an academic field of planning, researching and designing sustainable infrastructure. Thus, there is a pressing need to establish an academic field to facilitate comprehensively the training of engineers and the development of technologies that will support construction work in devising efficient machines and energy- and labor-saving construction processes.

■ Objectives

Considering the above-mentioned background, this international conference aims to promote the academic field of "Press-in engineering", where experts of various academic fields interact with a focus on the Press-in method. The conference offers opportunities for academics and technicians to intercommunicate with one another and for students and young experts to present their achievements. It also provides forums for introducing Japanese efforts for building national resilience as well as study reports of IPA Technical Committees.

■ Theme: Evolution and Social Contribution of Press-in Engineering for Infrastructure Development, and Disaster Prevention and Mitigation

1. Disaster prevention and mitigation, such as countermeasure against Tsunami, erosion control, slope protections and others
2. Renovation or development of infrastructure, such as road, railway, adjacent construction, rural area development and others
3. Improvement of productivity and environmental issues, such as development of devices, construction managements, logistics, noise, vibration and others
4. Methods or case studies of project evaluation
5. Performance assessment of structures, such as pressed-in piles/sheet piles, and retaining wall/deep foundations constructed by pressed-in piles/sheet piles and others
6. Education
7. Other

Note: Papers both on academic issues (fundamental research) and on practical issues (application examples and machine development) are welcome.

- **Organizers** ICPE2021 Organizing Committee
- **Subsidies** THE MAEDA ENGINEERING FOUNDATION

- International Press-in Association (IPA)
- THE KAJIMA FOUNDATION

■ **Supporters**

- International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)
- The Asian Civil Engineering Coordinating Council (ACECC)
- Japan Society of Civil Engineers (JSCE)
- Japanese Geotechnical Society (JGS)
- The Institution of Professional Engineers, Japan, Shikoku Regional Headquarters
- Kochi Construction Managing Engineers Association
- Japanese Technical Association for Steel Pipe Piles and Sheet Piles
- Japan Press-in Association
- Japan Construction Machinery and Construction Association
- The Japan Civil Engineering Consultants Association, Shikoku Branch
- Kochi Construction Industry Association
- Kochi Industrial Association
- Kochi Survey and Planning Association
- Kochi Institute of Invention and Innovation

- Kochi Prefecture
- Kochi City
- Kami City
- Konan City
- Kochi University of Technology
- National Institute of Technology, Kochi College
- Shikoku Railway Company
- West Nippon Expressway Company Limited, Shikoku branch
- The Shikoku Bank, Ltd.
- THE BANK OF KOCHI, LTD.
- The Kochi Shimbun
- GIKEN LTD.
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(Total 27 groups as of 1 February 2021)

Subsidies



Supporters



- Kochi Construction Managing Engineers Association
- Kochi Industrial Association
- Kochi Survey and Planning Association
- The Kochi Shimbun

ICPE2021 Online Program

Day One: Saturday, June 19

| JST (UTC+9) | Lobby | Channel 1 | Channel 2 |
|-------------|--|---|---|
| 8:30 | Registration Exhibit Hall (Virtual Booth) | | |
| 9:00 | | Welcome and Opening (English and Japanese) | |
| 10:00 | | Networking Break 10:30~11:00 | |
| 11:00 | | Keynote Lecture 1 (English and Japanese) R&D for Infrastructure Maintenance, Renovation and Management | |
| 12:00 | | Keynote Lecture 2 (English and Japanese) Design Considerations in the Tip Resistance of Piles Jacked or Driven into Strong Soil or Weak Rock | |
| 13:00 | | Networking Break 12:30~13:30 | |
| 14:00 | | Session A-1 Pile performance / Piling process (English and Japanese) | Session D-2 Case histories (English) |
| 15:00 | | Networking Break 15:00~15:30 | |
| 16:00 | | Session D-1 Case histories (English and Japanese) | Session A-4 Pile performance / Piling process (English) |
| 17:00 | | | |

Day Two: Sunday, June 20

| JST (UTC+9) | Lobby | Channel 1 | Channel 2 |
|-------------|--|--|--|
| 8:30 | Registration Exhibit Hall (Virtual Booth) | | |
| 9:00 | | State-of-the-Art Session (English and Japanese) The latest reports from technical committees (TC1, TC2 and TC3) | |
| 10:00 | | Networking Break 10:30~11:00 | |
| 11:00 | | Session A-2 Pile performance / Piling process (English and Japanese) | Session B-1 Infrastructure development (English) |
| 12:00 | | Networking Break 12:30~13:30 | |
| 13:00 | | Session A-3 Pile performance / Piling process (English and Japanese) | Session B-2 Infrastructure development (English) |
| 14:00 | | Networking Break 15:00~15:30 | |
| 15:00 | | Session C-1 Disaster prevention and mitigation (English and Japanese) | Session E-1 Others (English) |
| 16:00 | | | |
| 17:00 | | Closing Remarks (English and Japanese) | |

■ Call for Papers

- Papers related to Press-in Engineering corresponding to the theme of the conference are requested.
- Writing is to be in English
- All submitted papers will be reviewed by several reviewers.

■ How to Submit Abstract

- Approximately 400 words. Format shall be downloaded from the following website:
URL: <https://icpe-ipa.org/contributions>
- Email to ICPE2021 Scientific working group (Chair: Katsutoshi Ueno).
E-mail address: icpe2021@gmail.com

■ Keynote Lectures

• Lecture 1

Theme: Research and development for infrastructure maintenance, renovation, and management
Speaker: Dr. Yozo Fujino (President, Josai University)



• Lecture 2

Theme: Design Considerations in the Tip Resistance of Piles Jacked or Driven into Strong Soil or Weak Rock
Speaker: Dr. Mark Randolph (University of Western Australia)



■ State-of-the-Reports

• Report-1

IPA TC-1 Application of cantilever type steel tubular pile wall embedded to stiff ground (tentative)

• Report-2

IPA TC-2 Use of press in piling data for estimating subsurface information

• Report-3

IPA TC-3 State of the art report on steel sheet pile method in geotechnical engineering development of PFS method

- **Fees:** Please visit the IPA website (<https://www.press-in.org/en/event>) or scan the QR code to pay each fee.

| Item | Classifications | | Early registration | Normal registration | QR Code |
|--|-----------------|-----------------------|---------------------|---------------------|---------|
| | | | until 31 Mar '21 | on/after 1 Apr '21 | |
| Registration ^{※1} | IPA Members | Over 36 ^{※3} | JPY 14,000 | JPY 17,000 | |
| | | Under 36 | JPY 6,500 | JPY 8,500 | |
| | | Students | JPY 1,700 | JPY 3,500 | |
| | Non-members | Over 36 ^{※3} | JPY 22,000 | JPY 26,000 | |
| | | Under 36 | JPY 15,000 | JPY 17,000 | |
| | | Students | JPY 2,500 | JPY 4,500 | |
| Full paper processing charge ^{※2} | IPA Members | | JPY 10,000 | | |
| | Non-members | | JPY 20,000 | | |
| Proceedings ^{※4} | | | JPY 15,000 per copy | | |

※1: The proceedings data (electronic version) are included.

※2: A full paper processing charge will be essential for each paper. IPA would like the authors/co-authors whose papers are accepted to the proceedings to participate in the conference by paying the registration fee.

※3: "Over 36" is defined as the participants who become 36 on or before 19 June 2021, and "Under 36" is defined as the participants who do not become 36 on or before 19 June 2021.

※4: B5-sized, hardcover, black-and-white, electronic media such as USB are not included. (Shipping fees will be added.)

Please be advised that the annual due of IPA membership for individual members is JPY 10,000 or free for student members.

IPA welcomes your joining us from our website (URL: <https://www.press-in.org/en/page/join>).

- **Official Language** English (Japanese-English translation is in the main sessions and some general sessions)

■ International Advisory Board

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| Malcolm Bolton | Former President of IPA, Emeritus Professor, The University of Cambridge |
| Charles Ng | President, International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) |
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| Akio Kitamura | Executive Chairman, GIKEN LTD. |

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■ Welcome to Kochi, Japan



Courtesy of Kochi Visitors & Convention Association

Please refer to Visitors' guide, VISIT KOCHI

(URL: <https://visitkochijapan.com/en>) for more details.

Date. 19 May 2021