

Press-in Piling Case History  
Volume 2, 2023

International Press-in Association



## IPA Research Committee

### *CHAIR*

Yoshiaki KIKUCHI (Japan)

### *CO- CHAIR*

Stuart HAIGH (UK)

Kenneth GAVIN (Netherlands)

### *MEMBERS*

Michael DOUBROVSKY (Ukraine)

Jiro TAKEMURA (Japan)

David WHITE (Australia)

Kiyoshi MINAMI (Japan)

Marcos Massao FUTAI (Brazil)

Gülin YETGINER (Norway)

Majid GHAYOOMI (U.S.A)

Katsutoshi UENO (Japan)

### *Edited by*

Yoshiaki KIKUCHI (Japan)

Naoki SUZUKI (Japan)

Hongjuan HE (Japan)

The photo on the front cover was taken at a site in Shiga, Japan, and contributed by GIKEN SEKO CO., LTD.  
The pictures on the back cover were prepared by the IPA based on information provided by GIKEN LTD.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without written prior permission from the publisher.

Although all care is taken to ensure integrity and the quality of this publication, no responsibility is assumed by the publishers nor the authors for any damage to the property or persons as a result of operation or use of the information in this publication.

Published in: International Press-in Association

Address: 9F, Konan YK Bldg, 2-4-12 Konan, Minato-ku, Tokyo 108-0075, Japan

Tel: +81-3-5461-1191

URL: <https://www.press-in.org/>

Printed by: NES Inc.

Address: 4-41-24 Higahi-Ikebukuro, Toshima-ku, Tokyo 170-0013, Japan

Tel: +81-3-5911-8660

URL: <https://www.npc-tyo.co.jp/>

ISBN 978-4-909722-63-8

C3050

## List of articles

### *Category A: Buildings*

<i>Title</i>				
<i>No.</i>	<i>Author(s)</i>	<i>Region(s) or Country</i>	<i>Pile type(s)</i>	<i>Reference pages</i>
Repair of flood-damaged New York subway station with pressed-in sheet piles				
A01	Takefumi TAKUMA, Srilakshmi Debur NAGARAJAN, Masashi NAGANO, Ian VAZ	U.S.A.	Sheet pile	* 3-

### *Category B: Roads & Railways*

Press-in piling applications: Permanent stabilization of an active-landslide-slope				
B01	Masafumi YAMAGUCHI, Yasumasa KIMURA, Tunenobu NOZAKI, Mitsuhiro OKADA	Japan	Tubular pile	* 11-
Case study of oval shaped foundation using the Gyropress Method under overhead restrictions				
B02	Kazuki TAKEDA	Japan	Tubular pile	* 21-
Silent piler in Bangkok MRT Orange Line Project				
B03	Pastsakorn KITTIYODOM, Ittichai BOONSIRI	Asia	Sheet pile	* 29-
Applications of the Press-in Piling Method to Emergency Bridge Foundation Repair				
B04	Takefumi TAKUMA	U.S.A and Japan	Tubular pile and sheet pile	** 35-

### *Category C: Rivers & Channels*

Construction of retaining wall for river disaster restoration by Gyropress Method				
C01	Kazuyuki MATSUZAWA, Tatsuhiko HAYASHI, Kenichi SHIRASAKI	Japan	Tubular pile	* 43-
Upgrading earthen levees with press-in piling and GRB System				
C02	Takefumi TAKUMA, Shigeru KAMBE, Masashi NAGANO	U.S.A.	Sheet pile	* 51-
Flood protection through dyke reinforcement at the river “Elbe” in Germany				
C03	Florian GEPPERT	Europe	Sheet pile	* 57-

Improving Florida's Drainage Channels with Pressed-in Sheet Piles				
C04	Takefumi TAKUMA, Shigeru Kambe			
	U.S.A.	Sheet pile	**	63-
Riverine Levee Improvements in Densely Populated Areas with Press-in Piling Method				
C05	Takefumi TAKUMA			
	U.S.A.	Sheet pile	**	67-
<i>Category D: Harbors &amp; Coasts</i>				
Press-in technology: Advantage of Gyropress Method for renovation of the third wharf of Dakar Port in Senegal				
D01	Yahya NDOYE, Yuta KITANO, Takuya FUNAHARA			
	Africa	Tubular pile	*	73-
Steel tubular piling by the Gyropress Method in proximity to obstructive existing H-shaped piles				
D02	Naoki YAMAZAKI			
	Japan	Tubular pile	*	81-
Construction of anchor piles for mooring bank by Skip Lock Method				
D03	Yoshinori TADA, Masayuki KITAMURA, Satochi KAMIMURA, Yuki SAWADA			
	Japan	Tubular pile	*	89-
Press-in piling applications: Breast walls composed of steel tubular piles and combined wall				
D04	Masafumi YAMAGUCHI, Yasumasa KIMURA, Hiroo TAKAHAGI, Mitsuhiro OKADA			
	Japan	Tubular pile and sheet pile	*	97-
Press-in piling applications: Seawall pile foundation work				
D05	Masafumi YAMAGUCHI, Yasumasa KIMURA, Hiroo TAKAHAGI, Mitsuhiro OKADA			
	Japan	Tubular pile	*	107-
Usa Coast Seawall Upgrade Project, Kochi, Japan - Disaster Mitigation Projects at Coastlines in Kochi, Japan -				
D06	Ryo KAMIOKA			
	Japan	Tubular pile	**	117-
Potential use of Gyro Pilers in ASEAN countries				
D07	Teik Lim GOH			
	Asia	Tubular pile	**	121-

**NOTE:**

Articles marked \*\* in the references were originally published on IPA Newsletter.

Articles marked \* in the references were originally published on Proceedings of the Second International Conference on Press-in Engineering 2021, Kochi, Japan. Edited By Tatsunori Matsumoto, Katsutoshi Ueno, Koichi Isobe, Hidetoshi Nishioka, Koji Watanabe. Copyright Year 2021. ISBN 9781032104140. Published June 23, 2021 by CRC Press

The affiliations and titles of the authors in the articles are as of the time of submission of the original articles.