

## General Sessions / 一般セッション

Location / 場所	19.Sep (Wed), 2018 14:45-16:15	19.Sep (Wed), 2018 16:45-18:15	20.Sep (Thu), 2018 09:30-11:00
Auditorium / 講堂	Session E-1	Session G	Session H
Room K102 / K102 教室	Session A-1	Session A-2	Session B-3
Room K201 / K201 教室	Session B-1	Session B-2	Session C-2
Room K202 / K202 教室	Session C-1	Session D-2	Session D-3
Room K203 / K203 教室	Session D-1	Session E-2	Session E-3
K-HALL	—	—	Session F

Sessions / セッション	Themes	テーマ
Session A	Pile Performance	杭/矢板の性能
Session B	Pile Wall/ Sheet Pile Wall	杭壁/矢板壁
Session C	Tsunami / Landslide	津波・地すべり対策
Session D	Piling Process	施工過程
Session E	Project Report	事例報告
Session F	Survey/ Monitoring/ Project evaluation	調査/モニタリング/事業評価
Session G	i-Construction	i-Construction
Session H	Dialogue among Operators and Researchers	オペレータと研究者の対話

## General Sessions / 一般セッション

19. Sep (Wed), 2018

14:45-16:15

Auditorium / 講堂

### Project Report / 事例報告 – Session E-1\*

CHAIR Hamada, M. (Professor Emeritus, Waseda University) / 濱田 政則 (早稲田大学 名誉教授)

- 0801 **Construction of Steel Tubular Pile Water Cut-off Wall by the Gyro Press Method and GIKEN Water Tightening System**  
ジャイロプレス工法・杭間止水工法による鋼管杭止水壁の構築  
*Kitamura, M. (Gikenseko Co. Ltd.) & Kamimura, S. / 北村 晶之 (株式会社 技研施工)*
- 0803 **Press-in with Augering; an Installation of Steel Sheet Piles Connected Longitudinally (Hard Ground Press-in Method)**  
オーガ併用圧入工法(硬質地盤クリア工法)による縦継ぎ施工  
*Momono, K. (GEOTECH Co., Ltd) & Fujita, M. / 桃野 耕一 (ジオテック 株式会社)*
- 0804 **A Case Study by the Gyropress Method in Consideration of Neighboring Residential Areas**  
ジャイロプレス工法における近隣住宅を配慮した施工事例  
*Tsukanaka, T. (Kajikawa Construction Co. Ltd.) / 塚中 翼 (株式会社 梶川建設)*
- 0805 **A Case Study of Design Change in the Press-in Method**  
圧入工法の設計変更事例について  
*Shibata, N. (Fujii Co. Ltd.) / 柴田 尚紀 (株式会社 藤井組)*
- 0806 **Case Studies: Use of the Gyropress Method in Tubular Pile Earth Retaining Walls for Foundation Works in Urban Area**  
ジャイロプレス工法による都市部での鋼管杭擁壁の構築  
*Imanishi, T. (Giken Ltd.) & Kajino, K. / 今西 智将 (株式会社 技研製作所)*
- 0813 **Earthquake and Tsunami Disaster Preventive Measures for Sea Embankment at Usa Fishing Port, Kochi Prefecture - Application Examples of Press-In Method to Steel Pipe Pile Installation –**  
高知県宇佐漁港における地震津波対策:圧入工法による鋼管杭の施工事例  
*Shibata, D. (Japan Port Consultants, Ltd.), Nakamura, S., Annoura, Y., Hoshino, M., Sasabe, T. & Yoshinaga, M. / 柴田 大介 (株式会社 日本港湾コンサルタント)*

\*Simultaneous Interpretation receivers between English and Japanese can be available.

\*セッション E-1 では日英語の同時通訳受信機を利用可能です。

**Pile Performance – Session A-1**

**CHAIR** Gavin, K. (Delft University of Technology)

0401 **A Study on Bearing Capacity of Steel Sheet Pile with Closed Section at Bottom Supported in Intermediate Layer by Press-In Method**

*Toda, K. (Nippon Steel & Sumitomo Metal Corporation), Taenaka, S., Nishioka, H., Sanagawa, T., Kita, N. & Matsuura, K.*

0402 **Centrifuge Modelling of the Influence of Size and Geometry of Hybrid Foundations on Bearing Capacity**

*Panchal, J.P. (University of London), McNamara, A.M. & Goodey, R.J.*

0403 **The Countermeasure for Press-in Method on Lengthy SPSPs and the Confirmation of the Bearing Capacity Obtained by Pile Loading Test**

*Dung, L.A. (Nishimatsu Construction), Fujiwara, M., Tsuchiya, M. & Saito, T.*

0404 **Centrifuge Modeling of Circular Sallow Foundation Reinforced with a Thin Sleeve**

*Novela, H. (Tokushima University), Fujita, S., Fukuta, S., Takatsuji, Y. & Ueno, K.*

0406 **Bearing Capacity Recovery Rate of Square Steel Tubular Pipe Piles Based on Loading Test Results**

*Kawabata, N. (Nippon Steel & Sumikin Metal Products Co., Ltd.), Nishimura, S., Kubo, Y. & Kanehira, Y.*

0407 **Innovative Design and Technology Solutions for Development of Port and Offshore Pressed-in Piled Structures**

*Dobrovsky, M. (Odessa National Maritime University), Gerashchenko, A., Dobrov, I. & Dubrovskaya, O.*

Note: The language of general sessions except for the session E-1 is English only.

## 19. Sep (Wed), 2018

14:45-16:15

Room K201

### Pile Wall/Sheet Pile Wall - Session B-1

**CHAIR** Takemura, J. (Tokyo Institute of Technology)

- 0501 **Stability of Self-Standing High Stiffness-Steel Pipe Sheet Pile Walls Embedded in Soft Rocks**  
*Kunasegaram, V., Takemura, J., Ishihama, Y. & Ishihara, Y.*
- 0502 **Evaluation of Deformation Behavior of Self-Standing Retaining Wall Using Large Diameter Steel Pipe Piles into Hard Ground**  
*Ishihama, Y., Fujiwara, K., Takemura, J. & Kunasegaram, V.*
- 0503 **Issues for the Reduction of the Embedded Length of Cantilevered Steel Tubular Retaining Wall Pressed into Stiff Ground**  
*Suzuki, N. & Kajino, K.*

## 19. Sep (Wed), 2018

14:45-16:15

Room K202

### Tsunami/Landslide - Session C-1

**CHAIR** Doubrovsky, M. (Odessa National Maritime University)

- 0601 **Comparison of Pile-type and Gravity-type Coastal Levees in Terms of Resilience to Tsunami**  
*Ishihara, Y. (GIKEN LTD.), Okada, K. & Hamada, M.*
- 0602 **3-D Behaviour of Coastal Dyke Installed by Double Sheet-piles with Partition Wall**  
*Fujiwara, K. (Nippon Steel & Sumitomo Metal Corporation), Taenaka, S., Takahama, K. & Yashima, A.*
- 0603 **A Comparison between the Dynamic Behaviour of Flexible Dual Row Walls Founded in Dry and Liquefiable Sands**  
*Madabhushi, S.S.C. (University of Cambridge) & Haigh, S.K.*
- 0604 **Study on Seismic Countermeasures by Steel Pile Diaphragm Wall in Coastal Levee**  
*Lee, K. (CTI Engineering Co., Ltd.), Okajima, Y., Akiba, S. & Kodaka, T.*
- 0605 **Estimation of External Force Acting on Steel Pile of Steel Pile Reinforced Breakwater**  
*Hikichi, K. (Tokyo University of Science), Kikuchi, Y., Hyodo, T., Mohri, A., Akita, K. Shoji, N., Taenaka, S. Moriyasu, S. & Oikawa, S.*
- 0606 **Evaluating the Efficiency of Jacked-in Piles as Tsunami Defences**  
*Dobrisan, A. (University of Cambridge), Haigh, S.K. & Ishihara, Y.*

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## 19. Sep (Wed), 2018

14:45-16:15

Room K203

### Piling Process/Use of Piling Data - Session D-1

**CHAIR** Ishihara, Y. (GIKEN LTD.)

- 0705 **Case Study on Estimation of Ground Information with the Use of Construction Data in Press-in Method**  
*Okada, K. (GIKEN LTD.), Ogawa, N. & Ishihara, Y.*
- 0706 **Installation Behavior of Open Ended and Closed Ended Piles with Torque Application**  
*Galindo, P.G. (Arup), Davidson, C. & Brown, M.J.*
- 0707 **Stress Changes due to Shape Effects in the Construction Process of Pile Walls**  
*Taenaka, S. (Nippon Steel & Sumitomo Metal Corp.), White, D.J. & Randolph, M.F.*
- 0708 **Effect of Pile Diameter on Plugging Phenomenon of Open-ended Piles**  
*Kanbe, M. (Tokyo University of Science), Kikuchi, Y., Hyodo, T., Otsubo, H. & Yamazaki, H.*
- 0709 **Things Measured by Cone Penetration Tests other than Material Properties**  
*Kawai, T. (Tohoku University), Kubota, K., Kim, J.K., Kazama, M. & Noda, T.*

## 19. Sep (Wed), 2018

16:45-18:15

Room K102

### Pile Performance - Session A-2

**CHAIR** Ueno, K. (Tokushima University)

- 0405 **Application of Static Compression Load Test of Joint Piles in Seaport “Prorva” in the Caspian Sea Coastal Area (Western Kazakhstan)**  
*Zhussupbekov, A. (L.N. Gumilyov Eurasian National University), Shakhmov, Z. & Tleulenova, G.*
- 0409 **Effects of Grain Size and Density as Pre Bored Pile Filler Material on Bending Moment Due to Lateral Loading**  
*Purnama, A.Y. (Kyushu University), Yasufuku, N. & Rifa'i, A.*
- 0410 **Evaluation of Bearing Capacity of a Small-Diameter Spiral Pile Subjected to Combined Load Using Model Tests**  
*Nakagawa, S. (Hokkaido University), Yamauchi, R., Isobe, K. & Tomisawa, K.*
- 0411 **Study on the Horizontal Bearing Performance of Steel Tubular Piles Installed by the Gyropress Method and the Press-in Method Assisted with Water Jetting**  
*Suzuki, N. (Giken Ltd.) & Kimura, Y.*
- 0412 **Behavior of a Large Diameter Piles Subjected to Moment and Lateral Loads**  
*Kunasegaram, V. (Tokyo Institute of Technology), Hsiao, W.H., Seki, S. & Takemura, J.*

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## 19. Sep (Wed), 2018

16:45-18:15

Room K201

### Pile Wall/Sheet Pile Wall - Session B-2

**CHAIR** Kasama, K. (Tokyo Institute of Technology)

- 0505 **Earthquake Behavior of Cylindrical Underground Structure and Verification of Analytical Model**  
*Takeuchi, T. (GIKEN LTD.), Furuichi, H. & Nishi, T.*
- 0506 **Development of High Performance Composite Wall “J-WALL II”**  
*Michino, M. (JFE Steel Corporation), Onda, K. & Kono, K.*
- 0507 **A Large-Scale Model Experiment on the Effect of Sheet Pile Wall on Reducing the Damage of Oil Tank Due to Liquefaction**  
*Ogawa, N. (GIKEN LTD.), Ishihara, Y., Ono, K. & Hamada, M.*
- 0508 **Reinforcement of River Embankment against the Nankai Trough Earthquake**  
*Okabayashi, K. (Kochi National College of Technology), Nakazawa, Y. & Oka, M.*

## 19. Sep (Wed), 2018

16:45-18:15

Room K202

### Piling Process/Use of Piling Data - Session D-2

**CHAIR** Leung, C.F. (The National University of Singapore)

- 0701 **Water Jetting for Sheet Piling**  
*Gillow, M. (Cambridge University), Haigh, S.K., Ishihara, Y., Ogawa, N. & Okada, K.*
- 0702 **Experimental Study on Influence of Different Pile Installation Methods on Performance of Pile**  
*Aizawa, M. (Kanazawa University), Matsumoto, T., Moriyasu, S., Suko, S., Kobayashi, S. & Shimono, S.*
- 0703 **Deployable Reinforcement Cage System for Cast-in-place Concrete Piles**  
*Yamanobe, S. (Kajima Corporation), Kono, T., Ishimatsu, S. & Nakai, T.*
- 0704 **Piling Technologies in Ukraine: Some Recent Developments**  
*Meshcheriakov, G. (EC Transzvuk), Doubrovsky, M. & Dubrovskaya, O.*

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**Project Report - Session E-2**

**CHAIR** Dang, D. T. (Ho Chi Minh City University of Technology)

- 0802 **Cantilevered Road Retaining Wall Constructed of 2,000 mm Diameter Steel Tubular Piles Installed by the Gyro Press Method with the GRB system**  
*Kitamura, M. (Gikenseko Co. Ltd.) & Kamimura, S.*
- 0807 **Example of Construction of Sheet Pile Walls for Anti-Seismic Reinforcement of Railway Embankment**  
*Matsuzawa, K. (Sato Juki Corporation), Shirasaki, K., Konya, S. & Suzuki, Y.*
- 0808 **Example of Construction of Sheet Pile Walls Using the Cyclic Auger Method for Anti-Seismic Reinforcement of Railway Embankment**  
*Matsuzawa, K. (Sato Juki Corporation), Shirasaki, K., Konya, S. & Suzuki, Y.*
- 0809 **Recovery of Skin Friction of Cambridge Gault Clay with Time Effect**  
*Nozaki, T. (Giken Ltd.)*
- 0810 **The Press-in Method with Augering - Augering Area in Relation to Retaining Wall Design-**  
*Nozaki, T. (Giken Ltd.)*
- 0811 **Retaining Wall Deflection Control in Relation to Augering Area**  
*Nozaki, T. (Giken Ltd.)*

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## General Sessions

20. Sep (Thu), 2018

09:30-11:00

Room K102

### Pile Wall/Sheet Pile Wall - Session B-3

**CHAIR** Otani, J. (Kumamoto University)

- 0509 **Evaluation of Effectiveness of PFS Method Using 3D Finite Element Method**  
*Tanaka, K. (Kajima Corporation), Kimizu, M., Otani, J. & Nakai, T.*
- 0510 **Centrifuge Model Tests and Image Analyses of a Levee with Partial Floating Sheet-pile Method**  
*Hizen, D. (Tokushima University), Kijima, N. & Ueno, K.*
- 0511 **Seismic Assessment of Steel Sheet Pile Reinforcement Effect on River Embankment Constructed on a Soft Clay Ground**  
*Nakai, K. (Nagoya University), Noda, T., Taenaka, S., Ishihara, Y. & Ogawa, N.*
- 0512 **Seismic Behavior of the River Embankment Improved with the Steel Sheet Piling Method**  
*Yamamoto, S. (Kyushu University), Kasama, K., Ohno, M. & Tanabe, Y.*
- 0513 **Reactive Measure Effects on River Dyke Instability and Adjacent Residences on Soft Clay Deposits after the Tohoku-Pacific Ocean Earthquake of 2011**  
*Yasuhara, K. (Ibaraki University), Yang, X.S., Horikawa, T. & Yamane, H.*
- 0514 **Reduction in Liquefaction Induced Settlement of River Levee by Enhancing Horizontal Stress with Sheet Piles**  
*Okamura, M. (Ehime University), Inoue, T., Jin-nouchi, N. & Ono, K.*

20. Sep (Thu), 2018

09:30-11:00

Room K201

### Tsunami/Landslide - Session C-2

**CHAIR** Haigh, S. (The University of Cambridge)

- 0607 **Study on Reinforcement of Fishery Harbor Wharf against the Nankai Trough Earthquake**  
*Okabayashi, K. (Kochi National College of Technology) & Mikasa, K.*
- 0608 **A Preliminary Investigation on Scour Mitigation at Bridge Piers Using Combined Riprap and Sacrificial Piles**  
*Liang, F. (Tongji University), Wang, C., Huang, M. & Yang, X.*
- 0609 **Drainage Effect for Embankment by Drainpipe Reinforcement**  
*Ito, Y. (Kyushu University), Kasama, K., Hamasaki, T. & Furukawa, Z.*
- 0610 **The Effect of Underground Short Piles with High Rigidity on Shear Stress and Displacement along Ground Failure Surface**  
*Otani, Y. (Saitama University) & Uchimura, T.*
- 0611 **Pull-out Experiments of Flip-Type End Anchors Buried or Pushed in Model Ground of Dry Sand**  
*Yoshida, S. (Daisho Corporation), Kanno, M., Matsumoto, T., Shimono, S., Yoshida, T. & Kobayashi, S.*

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## 20. Sep (Thu), 2018

09:30-11:00

Room K202

### Piling Process/Use of Piling Data - Session D-3

**CHAIR** Uchimura, T. (Saitama University)

- 0710 **Experimental Study on Influence of a Pile Penetration on Deformation of a Buried Pipe in Sand**  
*Morita, K. (Sato Kogyo Co. Ltd.), Matsumoto, T. & Vu A.*
- 0711 **Model Tests with a Transparent Soil to Observe Behavior of Buried Structures due to Neighboring Constructions**  
*Kobayashi, S. (Kanazawa University), Noguchi, K., Yamakuri, Y., Maki, H. & Matsumoto, T.*
- 0712 **Numerical Study: Effects of New Piles' Installation on Adjacent Existing Piles**  
*Dang, D.T. (Ho Chi Minh University of Technology – Vietnam National University), Nguyen, M.T. & Tran, K.M.*
- 0713 **An Investigation of Effect of Distance and Shape of Pile on the Displacement of Gag Pile by 3D FEM Analysis**  
*Nagai, K. (The University of Tokyo), Suzuki, N., Ishihara, Y. & Uchimura, T.*

## 20. Sep (Thu), 2018

09:30-11:00

Room K203

### Project Report - Session E-3

**CHAIR** Limin, Z. (The Hong Kong University of Science and Technology)

- 0812 **Piling Tests and Induced Surface Settlement of Rotating Static Pressure Steel Pipe Pile in Shanghai Soft Soil**  
*Zeng, Y. (Shanghai Urban Construction Municipal Engineering (Group) Co., Ltd.), Liu, C. & Zhang, L.*
- 0814 **Case Study of Underwater Press-in Method of Steel Sheet Piles under Restricted Headroom beneath a Railroad Bridge**  
*Arai, M. (Kizu Integrated Dam Control and Management Office.), Sugio, S., Murayama, K. Kunitomi, H. & Kimura, Y.*
- 0815 **The Press-in Method Assisted with Augering: Case studies of Single U and Double Z Shaped Piles in the United Kingdom**  
*Yamaguchi, M. (GIKEN LTD.) & Yamada, K.*
- 0817 **Seismic Reinforcement for Foundation Utilizing Sheet Piles and Soil Improvement**  
*Kasahara, K. (Shikoku Railway Company), Sanagawa, T., Nishioka, H., Sasaoka, R. & Nakata, Y.*
- 0818 **Design and Installation of a Permanent Sheet Pile basement for the Manly Twenty95 Development**  
*Cantali, D. (J Steel Australasia Pty Ltd.) & Ito, T.*
- 0819 **In-situ Load Test of Press-in Steel Pipe Pile for Seismic Isolation Retrofit**  
*Watanabe, K. (Obayashi Corporation), Kishi, H. & Ohashi, F.*

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**20. Sep (Thu), 2018**

09:30-11:00

K-HALL

**Survey/Monitoring/Project evaluation - Session F**

**CHAIR** Yusoff, N.A. (Universiti Tun Hussein Onn Malaysia)

0901 **Noise and Vibration Monitoring for Silent Piling in Singapore**

*Leung, C.F. (National University of Singapore) & Goh, T.L.*

0903 **The Acceptance Level of Silent Piling Technology Among Local Authorities in Malaysia**

*Yusoff, N.A. (Universiti Tun Hussein Onn Malaysia), Sufahani, S.F., Azhar, N.A. & Tuan Chik, T.N.*

0904 **Load History of Cedar Foundation Pile in the Mietsu Naval Facility World Heritage**

*Shogaki, T. (National Defense Academy) & Okuda, D.*

0905 **Flash Report on Damage Caused in Mexico City, Mexico, by the 2017 Puebla-Morelos Earthquake**

*Ohsumi, T. (National Research Institute for Earth Science and Disaster Resilience) & Hazarika, H.*

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