



**CONFERENCE  
REPORT**

**5<sup>TH</sup>**

**INTERNATIONAL  
SYMPOSIUM ON  
FRONTIERS IN  
OFFSHORE  
GEOTECHNICS**

**9<sup>TH</sup>-13<sup>TH</sup> JUNE 2025**

**NANTES, FRANCE**

**C.N. ABADIE, Z. LI, M. BLANC & L. THOREL**

*Organized under the auspices of the  
ISSMGE Technical Committee TC 209*



**Université  
Gustave Eiffel**



# Conference Report of the Fifth International Symposium on Frontiers in Offshore Geotechnics (ISFOG)

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## Preface

**Luc Thorel and Elisabeth Palix**

*ISFOG Conference Organising Committee Chair*

The fifth International Symposium on Frontiers in Offshore Geotechnics (ISFOG 2025), held in Nantes, France, is supported by Gustave Eiffel University. This symposium is part of a series that began in 2005 in Perth, Australia, and continued in Perth in 2010, Oslo, Norway, in 2015, and Austin, USA, in 2020 (postponed to 2022 due to the COVID-19 pandemic). The ISFOG symposia, organized under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), are key events of the Technical Committee on 'Offshore Geotechnics' (TC209), chaired by Phil Watson. This 2025 occurrence in France is building on an initiative launched in 2019 within the French Society of Soil Mechanics and Geotechnical Engineering (CFMS) by the French mirror group of the TC209 of the ISSMGE. Following the publication of recommendations on fixed foundations for offshore wind turbines and anchors for floating wind turbines, the mirror group aimed to organize an international conference in France.

Nantes, known since ancient times as Portus Namnetum, is a seaport with a metropolitan area of 680,000 inhabitants and the motto Favet Neptunus Eunti (may Neptune favor the traveler). The region is home to numerous industrial and academic activities focused on the sea, such as the West Atlantic Marine Energy Community (WEAMEC), that federates Marine Renewable Energy in the fields of Research, Innovation and Training. Offshore geotechnics has a dedicated following there, particularly the small team working on the Geotechnical Centrifuge at the Nantes campus of Gustave Eiffel University, within the Research Department GERS (Geotechnics, Environment, Natural Risks, and Earth Sciences). Since 1985, centrifuge model tests have advanced understanding of offshore foundations and anchors under complex loading, providing data otherwise difficult to obtain. About thirty articles in these proceedings feature this experimental method.

The proceedings of the 5th ISFOG illustrate the remarkable passion and energy of the offshore geotechnical community, pushing the boundaries of knowledge to meet complex challenges tied to societal expectations, such as the energy transition. Seventeen topics are covered by 422 peer-reviewed papers, including six keynotes, as well as the two honorary actions of TC209: the two Bright Spark Lectures aimed at promoting young geotechnical engineers (Christelle Abadie and Shengjie Rui) and the prestigious McClelland Lecture, delivered by Philippe Jeanjean. 660 delegates are registered to attend the six plenary sessions and thirty parallel sessions at the Cité des Congrès in Nantes. They come from five continents, with 72% from Europe.

These presentations will enrich the three days of the symposium, preceded by a welcome ceremony with Fabrice Emeriault, the president of the CFMS, Eric Gaume, the director of the Nantes campus of Gustave Eiffel University, and Aziliz Gouez, Vice President of Nantes Métropole, in charge of Higher Education and Research. The festivities include a gala dinner at the Château de la Poterie, along the Erdre River, followed by a post-symposium sea trip to France's first fixed wind farm in Saint-Nazaire and the OPEN-C Foundation's SEM-REV experimental offshore test site.

Many people contributed to the organization of this symposium, from the preparation of the bid to the staging of the event: the organizing committee, editorial committee, scientific committee, theme editors, reviewers, helpers, administrative services (DGS), PCO, Cité des Congrès, caterers, and more. It was a true team effort involving several hundred people, whom we warmly thank.

We would also like to thank the sponsors, particularly Fugro (Platinum sponsor), EDF Renewables (Gold+ sponsor), and RINA (Gold sponsor), who placed their trust in us and enabled us to offer the lowest possible student rates. The future looks promising, with 20% of registrants being students who are set to contribute even more to the development of offshore geotechnics.

Elisabeth Palix and Luc Thorel  
Co-chairs of ISFOG2025  
June 2025



# Proceedings Overview

**Christelle Abadie**

*ISFOG Conference Lead Editor*

We are delighted to present the proceedings of the 5<sup>th</sup> International Symposium on Frontiers in Offshore Geotechnics (ISFOG 2025), hosted by Gustave Eiffel University in Nantes, France. This distinguished event, held from June 9-13, 2025, at La Cité Nantes Congress Centre, brings together a global assembly of industry leaders, researchers, and experts to explore the forefront of offshore geotechnics. The symposium builds on the success of previous gatherings in Austin, Oslo, and Perth, continuing a tradition of excellence and innovation in the field. The ISFOG 2025 proceedings encapsulate a diverse and comprehensive exploration of the latest advancements and challenges in offshore geotechnics.

The ISFOG 2025 proceedings are a testament to the dynamic and collaborative spirit of the global geotechnical community, featuring a remarkable compilation of 422 papers across 2,868 pages. This includes the prestigious McClelland Lecture delivered by Philippe Jeanjean, two inspiring Bright Spark Lectures, and six insightful Keynote Papers. The contributions of 1,510 authors from diverse backgrounds underscore the international collaboration and dedication that drive this field forward.

Organized across 17 carefully curated themes, these proceedings offer a structured journey through the latest developments in site investigation techniques, innovative laboratory testing methods, and sophisticated soil behavior models. Most of the focus of these proceedings is on improving geotechnical design for bottom-fixed offshore wind applications, with a significant number of papers also exploring technologies for future floating wind turbines. The symposium casts a spotlight on the latest methodologies in pile installation and design, with a particular emphasis on the complexities associated with monopile foundations, suction installed foundations and other anchoring systems. Furthermore, it provides an in-depth examination of design considerations for offshore structures in challenging soil conditions, delivering invaluable insights for practitioners and researchers alike.

The proceedings are the result of a meticulous review process, led by one lead editor, three co-editors, and 47 theme editors, and supported by 472 dedicated reviewers. The theme papers, recognized as the best within their respective themes, and the top papers, selected from the top 1 to 3 papers within each theme, showcase outstanding contributions to the field. With 43 top papers identified, these works are among the top 10% of the proceedings, highlighting significant achievements.

We invite you to delve into the wealth of knowledge and innovation presented in these proceedings.

Access to the full collection is also possible through the official ISFOG 2025 online library page at ISSMGE Publications: <https://www.issmge.org/publications/online-library/conferences/isfog2025>.

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Each paper is accompanied by a unique DOI, beginning with <https://doi.org/10.53243/ISFOG2025->, ensuring seamless access and citation.

We extend our deepest gratitude to all the authors, editors, reviewers, and organizers whose unwavering commitment and expertise have culminated in these proceedings. Their collective efforts have forged a vital resource for the offshore geotechnics community, propelling our understanding and shaping the future trajectory of this essential discipline. Embark on this journey of discovery and innovation.

Christelle Abadie  
Lead Editor  
June 2025



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## McClelland Lecture



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Christian LEBLANC THILSTED**  
Wood Thilsted, The United Kingdom



**Finn LØVHOLT**  
Norwegian Geotechnical Institute, Norway

## Bright Spark Lectures



**Christelle ABADIE**  
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**Shengjie RUI**  
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**5<sup>TH</sup>**

**INTERNATIONAL  
SYMPOSIUM ON  
FRONTIERS IN  
OFFSHORE  
GEOTECHNICS**

**9<sup>TH</sup>-13<sup>TH</sup> JUNE 2025**

**NANTES, FRANCE**

**C.N. ABADIE, Z. LI, M. BLANC & L. THOREL**

*Organized under the auspices of the  
ISSMGE Technical Committee TC 209*



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*Jochen Zürn, Luis Mugele, Hans Henning Stutz, Merita Tafili, Torsten Wichtmann*

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## THEME 6- PILE INSTALLATION CHALLENGES AND DECOMMISSIONING IN SANDS AND CLAYS

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Boulder damage during monopile installation through strong clay: initiation and growth 995

*Mark Randolph, Juliano A. Nietiedt, Francisco da Silva Pereira, Britta Bienen, Lilli Feske, Cesar Tejada, Jerome De Sordi*

Paper Number and Doi: [10.53243/ISFOG2025-226](https://doi.org/10.53243/ISFOG2025-226)

### Top Paper

Physical Modelling of Vibro-driven Piles in Sand 1002

*Britta Bienen, Julia Hein Mazutti, M. Fraser Bransby, Mark Randolph, Anderson Peccin da Silva, Mark Post, Ahmed Elkadi*

Paper Number and Doi: [10.53243/ISFOG2025-199](https://doi.org/10.53243/ISFOG2025-199)

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*Sebastian Elliott, Scott A. Whyte, Claudio Piatti, Lewis Jones*

Paper Number and Doi: [10.53243/ISFOG2025-591](https://doi.org/10.53243/ISFOG2025-591)

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Paper Number and Doi: [10.53243/ISFOG2025-48](https://doi.org/10.53243/ISFOG2025-48)

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*Britta Bienen, Pourya Kazemi Esfeh, M. Fraser Bransby, Patrick Staubach*

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*Serena Che, Felix Schroeder, Stavroula Kontoe, Richard Jardine, Pedro Barbosa*

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A new apparatus to measure time dependent shaft capacity using intact core samples	1274
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*Zhechen Hou, Aflizal Arafianto, Joey Djulamsah, Eunice Lim, Barry Lehane, Phil Watson*

Paper Number and Doi: [10.53243/ISFOG2025-105](https://doi.org/10.53243/ISFOG2025-105)

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The Piling in Glauconitic Sand (PIGS) JIP: insights from axial and lateral pile load testing	1280
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*Federico Pisanò, Zachary Westgate, Amir Rahim, Van Komurka, Ryan Beemer, Bruno Stuyts, Liv Hamre, Gudmund Reidar Eiksund, Eric Liedtke, Yiorgos Perikleous, Alice Ridgway-Hill, Jerome De Sordi, Alice Roux, Lewis Jones, Pooyan Ghasemi, Catalina Maldonado*

Paper Number and Doi: [10.53243/ISFOG2025-101](https://doi.org/10.53243/ISFOG2025-101)

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*Stavroula Kontoe, Enrico Bellumat, Giuseppe Pedone, Richard Jardine*

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*Abdul Kader El Haj, Emilio Nicolini, Ivan Terribile, Thomas Deglaire*  
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*Anis kheffache, Bruno Stuyts, Carlos Sastre Jurado, Christof Devriendt*

Paper Number and Doi: [10.53243/ISFOG2025-589](https://doi.org/10.53243/ISFOG2025-589)

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*Anis kheffache, Bruno Stuyts, Carlos Sastre Jurado, Wout Weijijens*

Paper Number and Doi: [10.53243/ISFOG2025-610](https://doi.org/10.53243/ISFOG2025-610)

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*Pishun Tantivangphaisal, Fabián Ortiz Wall, David Taborda, Jan Machacek, Joaquin Liaudat, Hauke Zachert*

Paper Number and Doi: [10.53243/ISFOG2025-390](https://doi.org/10.53243/ISFOG2025-390)

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Paper Number and Doi: [10.53243/ISFOG2025-249](https://doi.org/10.53243/ISFOG2025-249)

### **Top Paper**

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*Rory Fleminger, Orestis Adamidis, Christopher Martin, Gerard Ryan, Athanasios Agalianos, Liam Jones, Ioannis Anastasopoulos, Proserpine Peralta, Nicole Santos*

Paper Number and Doi: [10.53243/ISFOG2025-133](https://doi.org/10.53243/ISFOG2025-133)

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*Jamie Crispin, Guy Houlby, Harvey Burd, Byron W. Byrne*

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Paper Number and Doi: [10.53243/ISFOG2025-649](https://doi.org/10.53243/ISFOG2025-649)

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## **THEME 10- JACKET PIN PILES DESIGN: CAPACITY, LONG-TERM CYCLIC LOADING, SEISMIC LOADS 1826**

### **Theme Paper**

Experimental analysis of the response of open-ended pipe piles to static and cyclic axial loading using digital image correlation 1827  
*Daniel Fridman, Monica Prezzi, Rodrigo Salgado*  
Paper Number and Doi: [10.53243/ISFOG2025-206](https://doi.org/10.53243/ISFOG2025-206)

### **Top Paper**

Shaft capacity ageing trends of onshore and offshore piles driven in sand 1833  
*Alexander Busch, Richard Jardine, Rui Silvano*  
Paper Number and Doi: [10.53243/ISFOG2025-404](https://doi.org/10.53243/ISFOG2025-404)

### **Top Paper**

Field test to investigate the cyclic tensile response of open-ended piles installed in sand 1839  
*Astha Sharma, Anderson Peccin da Silva, Dirk de Lange, Yaser Jafarian, Ken Gavin, Jan Kenkhuis*  
Paper Number and Doi: [10.53243/ISFOG2025-142](https://doi.org/10.53243/ISFOG2025-142)

### **Top Paper**

Advanced measurement systems for a full-scale pile load testing campaign offshore Taiwan 1846  
*Avi Shonberg, Richard Jardine, Felix Schroeder, Michael Harte*  
Paper Number and Doi: [10.53243/ISFOG2025-108](https://doi.org/10.53243/ISFOG2025-108)

The response of pile foundations in sand to axial cyclic loading 1852  
*Anne Hagemann, Britta Bienen, Conleth O'Loughlin, Jürgen Grabe*  
Paper Number and Doi: [10.53243/ISFOG2025-128](https://doi.org/10.53243/ISFOG2025-128)

A general load-transfer formulation for the base resistance of large-diameter open-ended pipe piles driven in sand 1859  
*Dirk de Lange, Arny Lengkeek, Ken Gavin*  
Paper Number and Doi: [10.53243/ISFOG2025-172](https://doi.org/10.53243/ISFOG2025-172)

Seismic assessment of jacket supported offshore wind turbine in liquefiable soil subjected to bidirectional shaking 1865  
*Upasana Nath, Sumanta Haldar*  
Paper Number and Doi: [10.53243/ISFOG2025-254](https://doi.org/10.53243/ISFOG2025-254)

Seismic Fragility Analysis of Three-Legged Jacket Supported Offshore Wind Turbine Considering Ground Motion Directionality 1872  
*Sagnik Purkait, Upasana Nath, Sumanta Haldar*  
Paper Number and Doi: [10.53243/ISFOG2025-256](https://doi.org/10.53243/ISFOG2025-256)

Modeling of axially loaded piles using a practical 1D finite element approach <i>Mirna Doghman, Hussein Mroueh, Sebastien Burlon</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-361">10.53243/ISFOG2025-361</a>	1878
Evaluation of the “Unified” CPT-based Axial Pile Capacity Design Method for Driven Piles in Clay using New Case Studies <i>Victor Bjørn Smith, Asitha Senanayake, Philippe Jeanjean, Neil Morgan, Thomas Langford</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-598">10.53243/ISFOG2025-598</a>	1885
Experimental Study of the Effects of Cyclic Loading on Base Resistance Mobilization of Piles Using a Calibration Chamber <i>Ayda Catalina Galvis Castro, Monica Prezzi, Ruben D Tovar-Valencia, Rodrigo Salgado</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-630">10.53243/ISFOG2025-630</a>	1891
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Hai Long Offshore Wind Farm: Challenges and Solutions in the Substations Design and Installation <i>Francesca Ciavaglia, Fairuz Yusof, Zaki Benamer, Neil O'Donnell, M Penning, Mathieu Guinard</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-645">10.53243/ISFOG2025-645</a>	1903

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## **THEME 11- SUCTION INSTALLED FOUNDATIONS AND ANCHORS** **1909**

### **Theme Paper**

In situ observations from a suction bucket jacket supporting offshore wind turbines <i>Michael Harte, Avi Shonberg, James Smith</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-109">10.53243/ISFOG2025-109</a>	1910
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### **Top Paper**

Field observations from large scale Suction Bucket Jacket installation for an Offshore Wind Farm in East China Sea <i>Carlo Brandolini, Claudio Piatti, Lorenzo Zuccarino</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-389">10.53243/ISFOG2025-389</a>	1916
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### **Top Paper**

Centrifuge modelling of cyclic loading on suction anchors in soft clay <i>Cristian SORIANO-CAMELO, Luc THOREL, Matthieu BLANC, Philippe AUDRAIN</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-424">10.53243/ISFOG2025-424</a>	1922
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### **Top Paper**

Back-analysis and insights on suction caisson self-weight penetration from Seagreen 1 offshore wind farm <i>Stephen Suryasentana, Felix Schroeder, Brendan OBoyle</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-545">10.53243/ISFOG2025-545</a>	1929
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Impact of local scour on the development of the failure envelope for suction caisson foundations <i>Zhuang JIN, Yinfu JIN, Menghuan GUO</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-9">10.53243/ISFOG2025-9</a>	1935
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Experimental (1g) Study on the Long-term Evolution of the Uplift Bearing Capacity of Suction Anchor	1941
<i>Yubin Ren, Jialin Lv, Xinqi Lou, Jiaolong Xu</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-16">10.53243/ISFOG2025-16</a>	
Short-Term Monitoring of Offshore Wind Turbine Jackets Supported by Suction Caissons	1947
<i>Patrick Gütz, Nawras Hamdan, Joshua Schrauder, Jannis Tautz-Weinert, David Grace</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-24">10.53243/ISFOG2025-24</a>	
Integrated design model for dynamic uplift behavior of suction anchor	1953
<i>Mengtao Xu, Wenjie Zhou, Shihong Zhang, Shengjie Rui, Zhen Guo</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-35">10.53243/ISFOG2025-35</a>	
Site-wide automated sizing of suction caisson foundations	1959
<i>Marijn Dekker, George Pittos, Liuba Agapii</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-53">10.53243/ISFOG2025-53</a>	
Numerical Investigation of Compensated Suction Caissons in Soft Soil	1965
<i>Kamchai Choosrithong, Magnus Todnem</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-59">10.53243/ISFOG2025-59</a>	
Strength increase of a marine clay-steel interface - Implications for Offshore Skirted Structure Recovery	1971
<i>Sabine Gehring, Christian Olsen, Hans Henning Stutz</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-89">10.53243/ISFOG2025-89</a>	
Sustained Tensile Loading Analysis of Suction Buckets Considering the Load Characteristics and Drainage Condition	1977
<i>Mechthild Cramer, Patrick Gütz</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-92">10.53243/ISFOG2025-92</a>	
Shaking table tests on a scaled suction bucket jacket foundation to assess the effect of thrust force during earthquake events	1983
<i>Yu-Shu Kuo, Hui-Ting Hsu, Michael Harte, Avi Shonberg, Yu-Hsiu Tseng</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-104">10.53243/ISFOG2025-104</a>	
Undrained capacity of suction buckets under VHM loads in cohesive soil	1989
<i>Xiaowei Feng, Qian Zhao</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-106">10.53243/ISFOG2025-106</a>	
Effect of loading conditions on the natural frequency of offshore wind turbines using centrifuge model test	1995
<i>Kyeong Sun Kim, Seung-Won Oh, Jun-Woo Kim, Sung Ryul Kim</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-115">10.53243/ISFOG2025-115</a>	
Influence of scour on the natural frequency of offshore wind turbines with tripod bucket foundation in sand	2002
<i>Seung-Won Oh, Kyeong Sun Kim, Jun-Woo Kim, Sung Ryul Kim</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-116">10.53243/ISFOG2025-116</a>	
Plug heave prediction for suction caissons in cohesionless soil	2008
<i>Henry Gunawan, Nawras Hamdan, Fabian Kamp, Vladimir Thumann</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-137">10.53243/ISFOG2025-137</a>	
An X-ray computed tomography (CT) assessment of soil movement during suction caisson installation	2014
<i>Christopher O'Donovan, Mark Coughlan, Mike Long, Budi Zhao</i>	
Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-146">10.53243/ISFOG2025-146</a>	

Modelling pullout of suction buckets under varying rates <i>Debiprasad Bhakta, ANAMITRA ROY, Shiao Huey Chow, Hongjie Zhou</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-158">10.53243/ISFOG2025-158</a>	2021
3D dynamic effective stress analyses of an Offshore Wind Turbine on suction bucket jacket foundation under earthquake loading <i>Yannis Chaloulos, Charalampos Tsifis, Taxiarchoula Limnaiou, PANAGIOTA TASIOPOULOU, Vasileios Drosos, Amalia Giannakou, Jacob Chacko</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-162">10.53243/ISFOG2025-162</a>	2028
Optimised CPT-Based Methods for the Prediction of Soil Resistance to Suction-Assisted Penetration <i>Angelo Torre, JAMIE IRVINE, ISMAEL TORRES, Gijs Peeters, Erica Tataki</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-185">10.53243/ISFOG2025-185</a>	2034
Experimental investigation on the effect of skirt chamfer on the soil plug heave inside the bucket foundation <i>Congcong Han, Xiaohan Zhang, Ping Yi, Jun Liu</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-189">10.53243/ISFOG2025-189</a>	2041
Numerical Investigations on the Long-Term Behaviour of Suction-Caisson Foundations under High-Cyclic Loading <i>Lisa Tschirschky, Patrick Staubach, Jan Machacek, Britta Bienen, Torsten Wichtmann</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-195">10.53243/ISFOG2025-195</a>	2047
On the resilience of suction bucket foundations under cyclic uplift loading in intermediate soils <i>Vikram Singh, Phil Watson, Conleth O'Loughlin, Francisco da Silva Pereira</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-229">10.53243/ISFOG2025-229</a>	2053
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Finite Element Analysis of Shared Suction Anchor Capacity Including Effects of Trenching <i>Erik Tørum, Aleksander Worren, Robert Bendzovski, Valentine Declerck</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-282">10.53243/ISFOG2025-282</a>	2067
Evaluating calculation methods for suction-assisted installation techniques in dense sand: A comparative study <i>Dariya Heinrich, Tulio Quiroz, Waldemar Elsesser, Bert Schaedlich, Immo Sanders</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-322">10.53243/ISFOG2025-322</a>	2074
A simplified procedure for pull-out capacity of suction buckets under varying average net tensile load <i>Raffaele Ragni, Hans Petter Jostad, Zefeng Zhou, Brendan OBoyle</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-326">10.53243/ISFOG2025-326</a>	2082
Numerical Analysis of Suction Caissons in Sand Under Cyclic Loading: Transition from Compression to Tension <i>NAZISH ULLAH, ANAMITRA ROY, George Anoyatis, Stijn Francois, Shiao Huey Chow</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-360">10.53243/ISFOG2025-360</a>	2089
Installing offshore bucket foundations – insights from hydro-mechanical large deformation numerical modelling <i>Wangcheng Zhang</i> Paper Number and Doi: <a href="https://doi.org/10.53243/ISFOG2025-393">10.53243/ISFOG2025-393</a>	2095

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 Paper Number and Doi: [10.53243/ISFOG2025-410](https://doi.org/10.53243/ISFOG2025-410)
- Probabilistic Design of Suction Caisson Jackets Under Sustained Tension Loading 2108  
*Chris Hamilton, Andrew Richmond, Helen Dingle, Ian Ashcroft, Graeme McCann, Matthew Lira, Felix Schroeder, Devkumar Goudar*  
 Paper Number and Doi: [10.53243/ISFOG2025-437](https://doi.org/10.53243/ISFOG2025-437)
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- Effects of the Active Suction on the Uplift Capacity of Suction Caissons in Sand 2128  
*Emilia Castillo Fuentes, Lidija Zdravkovic, David M Potts, Hans Petter Jostad, Sparsha Sinduri Nagula*  
 Paper Number and Doi: [10.53243/ISFOG2025-509](https://doi.org/10.53243/ISFOG2025-509)
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 Paper Number and Doi: [10.53243/ISFOG2025-519](https://doi.org/10.53243/ISFOG2025-519)
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*James Barron, Edward Land, Mohamed Rouainia, Tom Charlton, Zhiqiang Hu, Chong Ng, Fraser Gibson*  
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## **THEME 12- GRAVITY BASE FOUNDATIONS, DRAG AND PLATE ANCHORS 2186**

### **Theme Paper**

The effect of spatial variability in undrained shear strength on the ultimate capacity of plate anchors 2187

*Alessio Mentani, Laura Govoni, Christophe Gaudin, Phil Watson, Yinghui Tian*  
Paper Number and Doi: [10.53243/ISFOG2025-600](https://doi.org/10.53243/ISFOG2025-600)

### **Top Paper**

Centrifuge modelling of anchor performance for floating offshore wind turbines: installation and load behaviour in sand 2193

*Duy Anh Dao, Jürgen Grabe, Anderson Peccin da Silva, John Langstraat, Yao Yang Su, Koen Castelein, Dirk de Lange, Dirk Luger, Suzanne van Eekelen*  
Paper Number and Doi: [10.53243/ISFOG2025-122](https://doi.org/10.53243/ISFOG2025-122)

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Centrifuge Modelling of Shallow Foundations Subjected to Multi-directional Cyclic Lateral Loading 2199

*Chisom Ifeobu, Christelle Abadie, Philippe AUDRAIN, Alain NEEL, Matthieu BLANC, Stuart Haigh*  
Paper Number and Doi: [10.53243/ISFOG2025-187](https://doi.org/10.53243/ISFOG2025-187)

### **Top Paper**

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*Wirman Hidayat, Juliano A. Nietiedt, Conleth O'Loughlin, Phil Watson, Christophe Gaudin, Daniele Bertalot, Mike Rattley, Scott A. Whyte, Mike Brown*  
Paper Number and Doi: [10.53243/ISFOG2025-211](https://doi.org/10.53243/ISFOG2025-211)

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*Khoa DV Huynh, Petter Vabø, Hans Petter Jostad, Roland Daly, Hans Jørgen Pederstad, Javier Becerro Gonzalez, Vaughan Meyer*  
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*Gopika Rajagopal, Sudheesh Thiyyakkandi*  
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*Giovanni Piunno, Davide Spinelli, Fabio Airoidi*  
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*Kazem Dalili Khanghah, Corrado Altomare, Francesc Xavier Gironella i Cobos, Iván D'Angiuro, Raúl Guancho García, Javier Sarmiento*  
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## THEME 13- DEVELOPMENTAL FOUNDATION AND ANCHORING CONCEPTS 2328

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Jetted helical anchors in sand: a torque reducing technique 2329  
*Juliano Nietiedt, Phil Watson, Christophe Gaudin, Conleth O'Loughlin, Daniele Bertalot, Scott A. Whyte, Mike Rattley, Mike Brown*  
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*Huan Wang, Yufei Wang, Amir Rahim, Federico Pisanò*  
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Paper Number and Doi: [10.53243/ISFOG2025-318](https://doi.org/10.53243/ISFOG2025-318)

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*Hansini Mallikarachchi, Roozbeh Shirandami*  
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## **THEME 14- SPUDCANS: PENETRATION, EXTRACTION, INTERACTIONS** 2558

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*Sophie Smith, David Edwards*  
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*Patrick Staubach, Marie Lücke, Sylvie Raymackers, Britta Bienen*  
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### **Top Paper**

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*Vasileios Drosos, Yannis Chaloulos, PANAGIOTA TASIPOULOU, Takis Georgarakos, Amalia Giannakou, Jacob Chacko*  
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*Eric Woon, Manh Tran, Raj Tilak*  
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Paper Number and Doi: [10.53243/ISFOG2025-67](https://doi.org/10.53243/ISFOG2025-67)

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Paper Number and Doi: [10.53243/ISFOG2025-237](https://doi.org/10.53243/ISFOG2025-237)

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*Ramtin Hosseini-Kamal, Mehmet Ilcioglu, Can Mollaibrahimoglu, Volkan Emren*  
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### **Theme Paper**

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