<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 p.m.</td>
<td>WELCOME AND OPENING</td>
<td></td>
</tr>
<tr>
<td>1:15 pm</td>
<td>TECHNICAL SESSION I: DEEP FOUNDATION PILING</td>
<td></td>
</tr>
<tr>
<td>2:00 pm</td>
<td>Moderator: Hadi Koloot</td>
<td>Jacobs</td>
</tr>
<tr>
<td>2:20 pm</td>
<td>2:00 pm - 2:40 pm</td>
<td></td>
</tr>
<tr>
<td>2:40 pm</td>
<td>2:40 pm - 3:00 pm</td>
<td></td>
</tr>
<tr>
<td>3:00 pm</td>
<td>3:00 pm - 3:15 pm</td>
<td>BREAK</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>TECHNICAL SESSION II: EFFECTIVE AND SUSTAINABLE DESIGN</td>
<td></td>
</tr>
<tr>
<td>3:15 pm</td>
<td>Moderator: Bukki Balogun</td>
<td>Arcadis</td>
</tr>
<tr>
<td>3:35 pm</td>
<td>3:35 pm - 4:35 pm</td>
<td></td>
</tr>
<tr>
<td>4:15 pm</td>
<td>4:15 pm - 4:35 pm</td>
<td></td>
</tr>
<tr>
<td>5:05 pm</td>
<td>5:05 pm - 5:15 pm</td>
<td>CLOSING</td>
</tr>
</tbody>
</table>

*Subject to Change*
Wednesday, 17 February 2021

All presentations are in Gulf Standard Time (GST)

1:00 pm - 1:15 pm
WELCOME AND OPENING

1:15 pm - 2:00 pm
Keynote: Recent Advances in the Understanding of Augercast Piles and Displacement Augercast Piles and Impact on their Design
Maurice Bottiau | Franki Foundations

TECHNICAL SESSION III:
GROUND IMPROVEMENT
2:00 pm - 3:00 pm
Moderator: Karim Khalaf | Fugro

2:00 pm - 2:20 pm
Dynamic Compaction for the Improvement of Loose Fills and In-Situ Soils in the GCC
Salvatore Miranda, P.E. | Trevi SpA | Italy

2:20 pm - 2:40 pm
Controlled Modulus Columns (CMC) Piloting in Saudi Arabia for Treating Loose Soils under Flexible Storage Tanks Formations
Abiola Ojo | Saudi Aramco | Saudi Arabia

2:40 pm - 3:00 pm
Early Applications of Dilatometer Tests (DMT) in Middle East
Emad Sharif | Geotechnical Testing Consultants

3:00 pm - 3:15 pm     BREAK

3:15 pm - 4:35 pm
TECHNICAL SESSION IV:
DEEP MIXING AND QC/QA FOR GROUTED ELEMENTS
Moderator: Mohamed Ayeldeen, Ph.D., C.Eng. | Keller

3:15 pm - 3:35 pm
Minimizing the Detrimental Role of Clays in Deep-Mixing with Chemical Additives
Giovanni Spagnoli, Ph.D., MBA | MBCC Group | Germany

3:35 pm - 3:55 pm
Single Column Mixing Applications and References Around the World
Franz-Werner Gerressen, Dipl. Ing. | BAUER Maschinen GmbH | Germany

3:55 pm - 4:15 pm
Corrosion Protection of Subsurface Installed Reinforcement by Cement Grout: Opportunities and Limitations
Yasir Husain, MS | Ischebeck Titan Middle East | United Arab Emirates

4:15 pm - 4:35 pm
Thermal Integrity Testing
Hazem Sarhan, Ph.D., P.E. | PDI, ADEC Engineering | United Arab Emirates

4:35 pm - 5:05 pm
Invited Speaker - Using Thermal Integrity Profiling (TIP) to Monitor Shaft Cooling System for Large Diameter Drilled Shafts
David Schoen, P.E. | S&ME, Inc. | United States

5:05 pm - 5:15 pm    CLOSING

*Subject to Change
### DFI-MEC 2021

#### STUDENT PROGRAM

1:00 pm - 4:45 pm

An informative student program that introduces students to a day in the life of a geotechnical project. Speakers will highlight the investigation, design process, construction, instrumentation, monitoring and observational approach, and lessons learned.

#### INTRODUCTION

**Moderator:**

Marwan Alzaylaie, Ph.D. | Dubai Development Authority

#### 1:00 pm - 1:15 pm

**Investigation**

Karim Khalaf | Fugro

This presentation will overview desk studies, remote sensing, collaboration with geological specialists, and investigation companies.

#### 1:15 pm - 2:00 pm

**Design Processes**

Hadi Kaloot | Jacobs

Topics to be discussed include establishment of ground models and geotechnical parameters (data management and interpretation), foundation design (shallow foundations (pads, rafts) and piled foundations), slope stability, retaining walls (sheet pile walls, secant piles, diaphragm walls, gravity walls, and MSE walls), and earthworks, ground improvement and liquefaction.

#### 2:00 pm - 2:45 pm

**Foundation Construction**

Karim Khalaf | Fugro

Yasser Hakam | Menard

This presentation will present exciting foundation projects showcasing different techniques, benefits, and limitations. Techniques to be covered include piles, barrettes, diaphragm walls, excavations, tunneling, ground improvement and dewatering.

#### 2:45 pm - 3:00 pm

**Instrumentation Monitoring and Observational Approach**

Jean Christophe Monneret | SIXENSE

This presentation will include an overview of different instrumentation for geotechnical applications, historical development and use of the instrumentation for monitoring, highlighted with project photos.

#### 3:00 pm - 3:30 pm

**Panel Discussion: Computational Geotechnics for Civil Engineering Students**

**Moderator:**

Mary Ellen Large | Deep Foundations Institute

**Panelists:**

Marwan Alzaylaie, Ph.D. | Dubai Development Authority

Onur Ozkol | ByrneLooby

Hadi Kaloot | Jacobs

Karim Khalaf | Fugro

This interactive panel discussion will address computational geotechnics and numerical modelling in geotechnical engineering. It will highlight the importance to civil engineering students by investigating the difference between classical and modelling design approaches, simulation of field monitoring, limitations, and the future of the modelling techniques in the geo-industry.

#### 3:30 pm - 4:00 pm

**Panel Discussion: Computational Geotechnics for Civil Engineering Students**

**Moderator:**

Mary Ellen Large | Deep Foundations Institute

**Panelists:**

Marwan Alzaylaie, Ph.D. | Dubai Development Authority

Onur Ozkol | ByrneLooby

Hadi Kaloot | Jacobs

Karim Khalaf | Fugro

This interactive panel discussion will address computational geotechnics and numerical modelling in geotechnical engineering. It will highlight the importance to civil engineering students by investigating the difference between classical and modelling design approaches, simulation of field monitoring, limitations, and the future of the modelling techniques in the geo-industry.

#### 4:00 pm - 4:45 pm

**Panel Discussion: Computational Geotechnics for Civil Engineering Students**

**Moderator:**

Mary Ellen Large | Deep Foundations Institute

**Panelists:**

Marwan Alzaylaie, Ph.D. | Dubai Development Authority

Onur Ozkol | ByrneLooby

Hadi Kaloot | Jacobs

Karim Khalaf | Fugro

This interactive panel discussion will address computational geotechnics and numerical modelling in geotechnical engineering. It will highlight the importance to civil engineering students by investigating the difference between classical and modelling design approaches, simulation of field monitoring, limitations, and the future of the modelling techniques in the geo-industry.

#### 4:45 pm

**CLOSING**

*Subject to Change*