



**INTERNATIONAL
GEOTECHNICAL
INNOVATION
CONFERENCE**

Dates:

6-7 MAY 2024

Workshop:

5 May 2024

www.geotechnicalinnovationconference.com

**A NEW ERA OF
SUSTAINABLE
GEOTECHNICS
IN THE GCC**

**JEDDAH HILTON,
KINGDOM OF SAUDI ARABIA**

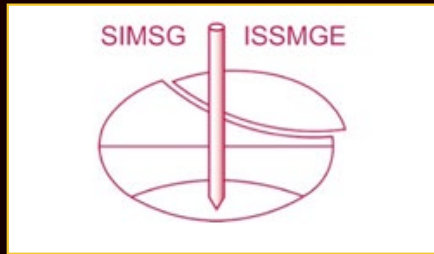
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EVENT OVERVIEW

The value of GCC's ambitious mega structures now exceed USD 2 trillion. Saudi Arabia leads the region in mega construction projects, with a string of mega cities', super tall buildings' and infrastructure projects currently in various stages of planning and design. At the heart of the Saudi Arabia's USD 725 billion megacities project is the Line - a 170-km long, 500m tall mixed used structure. Following closely on its heel is the UAE, with scores of new mega projects spanning from the Burj Binghatti, expected to exceed 472m height, to the Palm Jebel Ali among others.



Considering the desert, arid, and semi-arid soil conditions found in the GCC, the deep foundations, underground excavations and geotechnical aspects associated with construction of these megaprojects present significant challenges. The International Geotechnical Innovation Conference (IGIC 2024), taking place in Jeddah, Saudi Arabia, from 6-7 May 2024 aims to delve into the deep foundation design and construction requirements imperative for enabling the safe, cost-efficient and timely completion of projects.

Estimated value of construction projects in



Construction projects in



EVENT IN NUMBERS



400+
Delegates



30+
Speakers



10+
Sessions



4
Case Studies



2
Workshops

MEET THE TECHNICAL ADVISORY COMMITTEE

Chairman of Technical Advisory Committee



Dr. Marwan Alzaylaie



Karim Khalaf

Geotechnical Consulting Manager
Fugro
U.A.E.



Prof. Zoubeir Lafhaj

Chair Holder 'Construction 4.0',
President - IFCL, Centrale Lille,
France



Prof. Saad Aiban

Founder and General Manager, Maeen
Engineering Consultancy
Professor CEE, KFUPM University
SWCC Approved Soil Expert



Prof. Omar Al-Amoudi

Professor, Department of Civil
Environmental Engineering, KFUPM
Saudi Arabia



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Ph.D. Candidate, LEED Green Associate
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CEO & Technical Director, GeoStruXer
Founder, Gulf Geotechnical Engineers
(GGE Platform)



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Managing Director
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Assistant Professor
Civil Engineering
College of Engineering
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Assistant Professor
Civil and Construction Engineering Department,
School of Engineering
Imam Abdulrahman Bin Faisal University
Saudi Arabia



Dr. Ghassan Sutaiah

Assistant Professor
King AbdulAziz University
Saudi Arabia

KEYNOTE SPEAKERS



Prof. Dr. Ing. Rolf Katzenbach

Professor,
Technical University
of Darmstadt,
Germany



Prof. Robert Liang

Department Chair, Professor,
School of Engineering,
Department of Civil and
Environmental Engineering
and Engineering Mechanics,
University of Dayton



Prof. Jie Han

Ph.D., PE, F.ASCE, Roy A. Roberts
Distinguished Professor
Department of Civil,
Environmental, and Architectural
Engineering Department,
University of Kansas,
USA



Prof. Zoubeir Lafhaj

Chair Holder 'Construction 4.0',
President - IFCL, Centrale Lille,
France



Prof. Deepankar Choudhury

FASCE, FNASc, FNAE, FASc,
FIE; Chair Professor (HAG),
Head - Department of Civil
Engineering, Indian Institute of
Technology Bombay,
India



Dr. Marc Ballouz

President,
International Society of Soil
Mechanics and Geotechnical
Engineering (ISSMGE)
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Maeen Engineering Consultancy
Professor CEE - KFUPM University
SWCC Approved Soil Expert



Prof. Mohamed Shahin

School of Civil &
Mechanical Engineering,
Curtin University
Australia

SPEAKERS



Dr. Cristian de Santos

CEO & Co-Founder
SAALG Geomechanics
Spain



Dr. Ahmed Alnuaim

Senior Geotechnical Consultant,
Saudi Mining Services Company
(ESNAD),
Saudi Arabia



Dr. Ahmed Elkadi

Head of Department
Energy and Underground
Infrastructure, Deltares,
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Prof. Omar Al-Amoudi

Professor, Department of Civil
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Astrid Aubry

Chief Technology Officer
ARQ & Partners LLC,
Consulting Engineers
Oman



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Dr. Skevi Perdikou

Technology Manager
Geofem
Cyprus



Dr. Mohamed Al-Atroush

Associate Professor of Geotechnical
Engineering College of Engineering,
Prince Sultan University,
Saudi Arabia

CURRENT AND UPCOMING PROJECTS IN FOCUS

Project	Description	Client	Project Value	Expected Completion Date
The Line, Neom	A cognitive city stretching across 170 kilometers. A mirrored architectural masterpiece towering 500 meters above sea level and 200 meters wide.		Estimated at USD 200 – 100bn	
The Avenues Riyadh, Saudi Arabia	The project calls for the construction of a shopping mall, one 5-star and one 4 star hotels with 500 rooms, two residential towers with 1050 units and medical tower with 240 clinics.	Shomoul Holding Company	US\$3467 Mn	Construction
The Bahrain Metro Project - Phase 1, Bahrain	Phase 1 featuring 2 lines will consist of 28.6 km of LRT and tram network covering 20 stations and 2 Interchanges.	Ministry of Transportation and Telecommunications (MTT) Ministry of Works, Municipalities Affairs and Urban Planning	US\$1200 Mn	Design
The Red Sea Project, Saudi Arabia	Construction of a mega resort located between the cities of Amlaj and Wajh, Tabouk Province. The project will cover 50 islands and 34,000 square kilometers. The first phase will include hotels and luxury residential units, as well as all logistical infrastructures and sea transport hubs	The Red Sea Development Company (TRSDC)	US\$10 Bn	Under Construction
Jubail Island In Abu Dhabi, UAE	The project calls for the construction of a mixed use development located in the coastal area between Yas Island & Saadiyat Island with a total area of 32 million square meters – 9 million sqm north of Shk. Khalifa Highway & 23 million sq.m on the south. The mixed use project will have 6 distinct zones & interconnected villages including residential, commercial, F&B, retail, Hotel & serviced apartments & community areas, schools, clinic, mosques & a marina and Bed'a Al Jubail	Jubail Island Investment Company (JIIC)	US\$1736 Mn	Construction

Hayy Al Sharq, Oman	The project calls for the construction of an integrated theme park, a wildlife and water theme park, an equestrian centre, and edutainment centre as well as multiple hotels, a residential zone and retail areas spread over an area of 1.5 million sq.m.	Muscat National Development and Investment Company (Asaas)	US\$1000 Mn	Tender for Construction
Yas Living In North Yas (NOYA), Abu Dhabi, UAE	Project calls for the construction of a gated residential community that consists of 420 Townhouses, 90 villas and a community club with shared facilities.		US\$989 Mn	US\$989 Mn
The Grove In Saadiyat Island, Abu Dhabi, UAE	The project calls for the construction of a mixed use development which will consist of a residential area with a GFA of 72981 sqm, retail/mall with a GFA of 418500 sqm, hotel with a GFA of 53301 sqm and community facilities with GFA of 4610 sqm.	Aldar Properties	US\$630 Mn	Tender for Construction
Redevelopment Of Mina Zayed Port In Abu Dhabi, UAE	Construction of a mixed-use development located in a 150-acre site on the Mina Zayed pier overlooking the Arabian Gulf with views of the Corniche and Abu Dhabi's skyline at Abu Dhabi's Mina Zayed (Port Zayed) area. The development will comprise of hotels, residential districts, commercial and retail areas.	Modon Properties, ADQ (Abu Dhabi Investment Holding), Aldar Properties	US\$15 Bn	Under Construction

PROJECT CATEGORIES IN DISCUSSION



URBAN DEVELOPMENT & TALL STRUCTURES

Skyscrapers and high-rise buildings

Shoring and deep excavation for basements and foundations of tall structures



SOIL ENGINEERING AND GROUND IMPROVEMENT

Soil improvement techniques for different terrains and conditions

Foundation engineering and soil-structure interaction

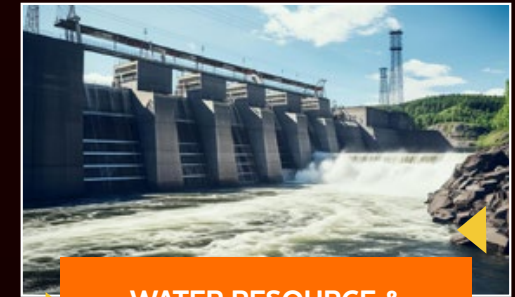


TRANSPORTATION INFRASTRUCTURE & CONNECTIVITY

Highways, railways and bridges

Metros and integrated urban transport systems

Tunnels and micro-tunnelling for utilities and transit



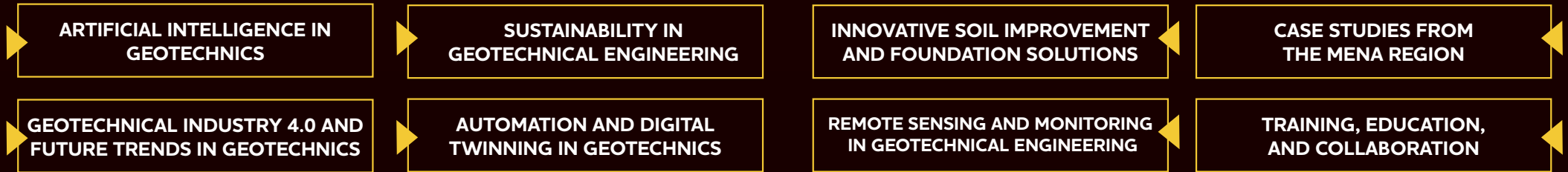
WATER RESOURCE & ENERGY INFRASTRUCTURE

Dams: Design, construction and maintenance

Mining: Geotechnical challenges and innovative solutions in the GCC context

Offshore and wind turbines

CONFERENCE THEMES



WHO SHOULD ATTEND?

CEOS, DIRECTORS, REGIONAL MANAGERS AND HEADS OF:

- Geotechnical
- Infrastructure
- Planning
- Development
- Utilities
- Drainage
- Power
- Projects
- Technical Services
- Facilities
- Operations

CATEGORIES

- Real-estate developers
- Mining companies
- Municipalities
- Road authorities
- Other project owners
- Asset managers
- Main contractors
- Consultants
- Geo-technical and civil engineers
- Sub-contractors
- Government & other regulatory bodies
- Academia

AGENDA

DAY 1 - MONDAY, 6 MAY 2024

08:00 – 08:30	Registration and morning coffee
08:30 – 08:35	Welcome address by the Technical Committee Chair
08:35 – 08:45	Opening remarks
08:45 – 08:55	Opening remarks
08:55 – 09:05	Opening remarks
09:05 – 09:15	Opening remarks
SESSION 1	
09:15 - 09:55	Keynote address 1
09:55 - 10:35	Keynote address 2
10:35 - 11:05	Opening of the Exhibition and Networking Coffee Break
11:05-11:45	Keynote address 3
11:45 - 12:15	Keynote address 4 by Fugro
SESSION 2	
12:15– 12:40	Speaker 1
12:40 – 13:05	Speaker 2
13:05 – 13:30	Speaker 3 *Reserved for industry leader
13:30 – 14:30	Networking lunch
SESSION 3	
14:30 – 15:05	Panel discussion
15:05 – 15:20	Project Showcase 1
15:20– 15:35	Project Showcase 2
15:35 – 15:50	Project Showcase 3
15:50 – 16:05	Networking Coffee Break
SESSION 4	
16:05 – 16:30	Speaker 4
16:30 - 16:55	Speaker 5
16:55 – 17:20	Speaker 6
17:20	Closing remarks by Technical Committee Chairman

DAY 2 - TUESDAY, 7 MAY 2024

08:00 – 08:30	Registration and morning coffee
08:30 – 08:35	Welcome address by the Technical Committee Chair
SESSION 5	
08:35 – 09:15	Keynote address 1
09:15 – 09:55	Keynote address 2
09:55 – 10:35	Keynote address 3
10:35 – 11:15	Keynote address 4
11:15 – 11:45	Exhibition tour and networking coffee break
SESSION 6	
11:45 – 12:20	Speaker 1
12:20 – 12:45	Speaker 2
12:45 – 13:05	Speaker 3 *Reserved for industry leader
13:05 – 13:25	Speaker 4 *Reserved for industry leader
13:25 – 14:25	Networking Lunch
SESSION 7	
14:25 – 15:00	Panel discussion
15:00 – 15:15	Project Showcase 1
15:15 – 15:30	Project Showcase 2
15:30 – 15:45	Project Showcase 3
15:45 – 16:00	Networking Coffee Break
SESSION 8	
16:00 – 16:25	Speaker 4
16:25 – 16:50	Speaker 5
16:50 – 17:15	Speaker 6
17:15 – 17:25	Closing remarks by Technical Committee Chair
17:25	Close of International Geotechnical Innovation Conference (IGIC 2024)

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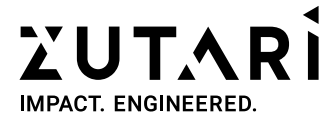
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WHY ATTEND?

Listen to case studies from the uae and saudi arabia for super tall buildings, metro projects and underground infrastructure projects

Address the critical gap in the design and construction of deep foundations in the Middle East region

Find out the perils and negative impact of over designing deep foundation projects

Learn more about green geotechnical construction techniques and solutions, and driving sustainability in foundation engineering

Find more about digital twinning and real-time simulations for underground constructions and excavations

Learn about the critical nature of soil-surface interactions in geotechnical design for deep foundation structures

Learn about advanced soil improvement techniques

Find out the future trends in geotechnics and the game-changing role of AI and 3D printing in ground improvement

Listen to innovative micro tunnelling technologies and techniques deployed for one of the most expansive underground tunnelling projects

CONFERENCE SESSIONS IN DETAIL

A) Sustainability in Geotechnical Engineering

- Sustainable material utilization in foundation engineering
- Environmentally friendly soil stabilization techniques
- Carbon footprint reduction in geotechnical projects
- Geotechnical considerations in coastal protection and sea-level rise
- Green geotechnical construction
- Geothermal energy

B) Innovative Soil Improvement and Foundation Solutions

- Advanced ground improvement techniques for desert, semi-arid and coastal regions
- Novel deep foundation designs for high-rise structures
- Underpinning techniques for historical and sensitive structures
- Techniques for managing problematic soils in the Gulf
- Soil foundation structure interaction

C) Automation and Digital Twinning in Geotechnics

- Advanced ground improvement techniques for desert, semi-arid and coastal regions
- Novel deep foundation designs for high-rise structures
- Underpinning techniques for historical and sensitive structures
- Techniques for managing problematic soils in the Gulf
- Soil foundation structure interaction

D) Remote Sensing & Monitoring in Geotechnical Engineering

- Use of drones & satellites for geotechnical site assessments
- Geospatial technologies for landslide monitoring
- Advances in wireless geotechnical instrumentation
- Ground-penetrating radar & geophysical advancements and applications in the region
- Geotechnical model using remote sensing

E) Artificial Intelligence in Geotechnics

- Predictive analytics in soil behavior and foundation design
- Machine learning in ground risk assessment
- Automation of soil classification using AI
- AI in geohazard identification and risk mitigation

F) Case Studies from MENA

- Geotechnical challenges and solutions in the Neom project
- Foundations for mega-structures in the Octagon
- Coastal and offshore geotechnics in the Red Sea development
- Tunneling and underground construction in the urban centers of the Gulf

G) Geotechnical Industry 4.0 & Future Trends in Geotechnics

- The role of 3D printing in ground improvement
- Smart geotextiles and their applications
- Advances in bio-geotechnics for sustainable ground improvement
- Virtual and augmented reality in geotechnical training and site visualization

H) Training, Education, and Collaboration

- Bridging the gap between academia and industry in the MENA region
- Geotechnical engineering curriculum updates for the 21st century
- International collaborations and partnerships for geotechnical innovations

JOIN AS A PARTNER

- ▶ **Get exclusive one-to-one meetings with geotechnical contractors in charge of the biggest mega projects in the region especially in Saudi Arabia & UAE**
- ▶ **Network with real-estate owners, mining companies and other project owners**
- ▶ **Find out about upcoming skyscraper, rail, bridges, and pipeline projects opening tender in the Middle East region**
- ▶ **Showcase your expertise and solutions in front of a room full of geotechnical contractors, project owners, structural consultants, subcontractors and other target clientele**

WHO SHOULD JOIN AS A PARTNER?

- Geotechnical contractors
- Geotechnical designconsultants

Solution Providers for:

- Drilling & piling rigs
- Micropiles & sheet piles
- Geosynthetics and deep & dynamic compaction
- Remote sensing drones, satellites and other geological survey solutions
- Geophysical & monitoring solutions
- Soil laboratories, and other soil analysis solutions
- Drilling bits and hammers
- Concrete ready-mix and admixtures
- Concrete and water pumps
- Dewatering
- 3D printing, Digital twinning, AI & other software and technologies
- Instrumentation companies
- Hazard identification and slope stability solutions
- Other HSE & risk analytics solutions
- Carbon-negative and sustainable deep foundation engineering solutions

IF YOU ARE INTERESTED

to showcase your cutting-edge solutions and technologies for deep foundations and underground constructions, please contact us on partnerships@gmevents.ae or call **+971-52 969 7209**



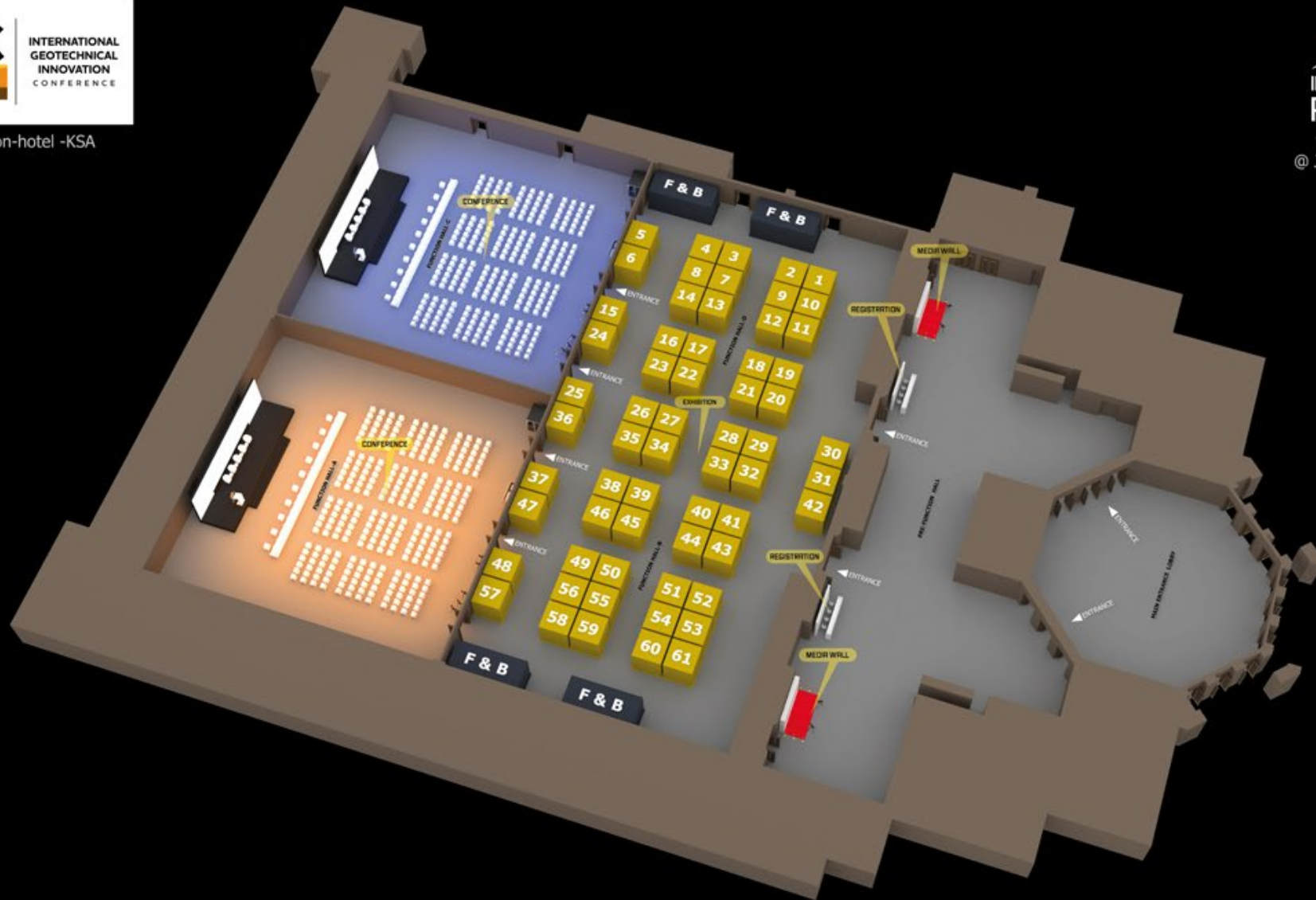
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FLOOR PLAN

ORGANIZED BY



FLOOR PLAN

Venue: Jeddah Hilton, Saudi Arabia

SPONSORSHIP OPPORTUNITIES

Item	Description	Available Units
Presentation (Day 1)	20-minute presentation	2
Presentation (Day 2)	20-minute presentation	2
Panel slot (Day 1)	Join a panel comprising of 4 panelists	4
Panel slot (Day 2)	Join a panel comprising of 4 panelists	4
Product showcase (day 1)	10-minute slot for product demo	4
Product showcase (day 2)	10-minute slot for product demo	4
Lunch sponsor (Day 1)	Sponsor for event lunch	1
Lunch sponsor (Day 2)	Sponsor for event lunch	1
Coffee break sponsor	Coffee sponsor for all 2 days of the event	1
VIP Majlis sponsor	Exclusive host of the VIP majlis	1
Lanyard and badges	Branded lanyards and badges for the entire event	1
Delegate bags sponsors	Exclusive provider of event bags	1
Podium sponsor	Branding on the event podium	1
Event archway sponsors	Event entry archway branding	1

Registration desk sponsor	Branding on all registration counters	1
Information wall sponsor	Sponsoring the event's mega interactive floor plan, agenda and info wall	1
Directional signage	Branding on all event external and internal directional signage	1
VIP gifts	Exclusive provider of gifts to all VVIPs	1
Delegate gifts sponsor	Exclusive sponsor of gifts to all event attendees	1
Water sponsor	Branded water bottles throughout the event	1
Exhibition only	3x3	30

DELEGATE PARTICIPATION FEE STRUCTURE

Programme	Timing	Delegate Fee
Workshop A	8AM – 5PM, 5 May	\$20
Workshop B	8AM – 5PM, 5 May	\$20
Conference	8AM – 5PM, 6 & 7 May	\$50 (Standard fee)
		\$25 (Early-bird fee valid til 31 March)

SELECT TICKET OPTIONS

- Government Authorities & Academia – Complimentary
- Workshop A + Conference - \$45
- Workshop B + Conference - \$45
- Conference - \$25
- Vendor delegate - \$2799

CLICK HERE 

TO REGISTER AS A DELEGATE

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