مبادرة مستقبل الأسمنت السعودي

FCI 2nd International Conference

مؤتمر الأسمنت السعودي

From Data to Net Zero

AI-Driven Innovation for a Sustainable Saudi Cement Sector



07 – 09 September 2026 · B19 . KAUST

National Committee Cement Companies

جامعة الملك عبدالله للعلوم والتقنية
King Abdullah University of Science and Technology

وزارة الصناعة والثروة المعدنية
Ministry of Industry and Mineral Resources

وزارة الطاقة
MINISTRY OF ENERGY

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07 – 09 September 2026 · B19 . KAUST

374 ATTENDEES	**+31** SPEAKERS
40 EXHIBITORS	**16** Cement Companies





The second time, the sector shows up at full strength.

National Committee Cement Companies

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Networking activities







+40 Exhibiting Companies

CNBM
sinoma
CONCH
HOLCIM
INNOMOTICS
cem AI
Cement Intelligence
智平方
AI² ROBOTICS
A&Co. TOGETHER FOR EXCELLENCE
acemy
ABB
nommas.ai
DE-VELOP CONSULTING
axians
i-TECH
FLYABILITY
Obeikan Investment Group
GORD
GULF ORGANISATION FOR RESEARCH & DEVELOPMENT
thyssenkrupp
OPTIVERSE
Driving Sustainability & Excellence
FOVEMMAK
NANOLIKE
MONITOR YOUR INDUSTRIAL ASSETS
SMART
Systems for Specialized Services Co.
ibbl
A TEC GROUP
A Member of LOESCHE Family
Hectronic
PYLON
XoptiX
SAHER
FLOW SOLUTIONS
ASEC CONTRACTING
INNOVATING INDUSTRIES, POWERING PROGRESS
MAAG
KHD
FLENDER
OPTIMITIVE
EFFICIENCY THINKING
FOSROC
SAINT-GOBAIN
TRINERGY
TECHNOLOGIES
TANKOIL
Testing, Inspection and Certification Company
FULLER
SYMBIOS
Consulting Group
MIZALA
LOESCHE
MTC
Mining Technology Consulting
CO_2minX
AKXA
AKXA Tech Pvt. Ltd.
FUELTECHNOLOGY
aix
aixprocess
INNOVATEE ARABIA
EMERSON



16 Saudi Cement Companies

































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برعاية وزارة الصناعة والثروة المعدنية واللجنة الوطنية لشركات الأسمنت



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وحضور نخبة من الرؤساء التنفيذيين لكبرى شركات الأسمنت السعودية



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مؤتمر الأسمنت السعودي

FCI progress presentation





FCI Award ceremony

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مؤتمر الأسمنت السعودي



أسمنت الرياض
RIYADH CEMENT

أفضل مصنع أسمنت

2025

أقل استهلاك حراري نوعي

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اسمنت اليمامة
YAMAMA CEMENT

أفضل مصنع أسمنت
2025
أقل استهلاك نوعي للطاقة الكهربائية

National Committee
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اسمنت المتحدة

أفضل مصنع أسمنت

2025

أعلى نسبة مبيعات أسمنت
صديق البيئة

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المدينة
شركة أسمنت
City Cement Company

أفضل مصنع أسمنت
2025
أعلى معدل إحلال حراري
بالوقود البديل

National Committee
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مؤتمر الأسمنت السعودي

Pioneers of a New Era

Celebrating the First Saudi Women in Cement Operations



Pioneers of a New Era

Celebrating the First Saudi Women in Cement Operations



مبادرة مستقبل الأسمنت السعودي

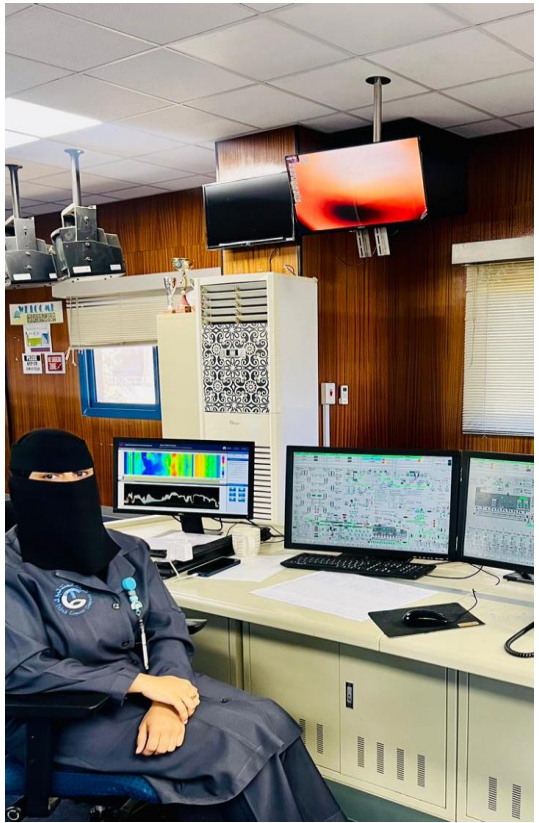
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مؤتمر الأسمنت السعودي

Pioneers of a New Era

Celebrating the First Saudi Women in Cement Operations









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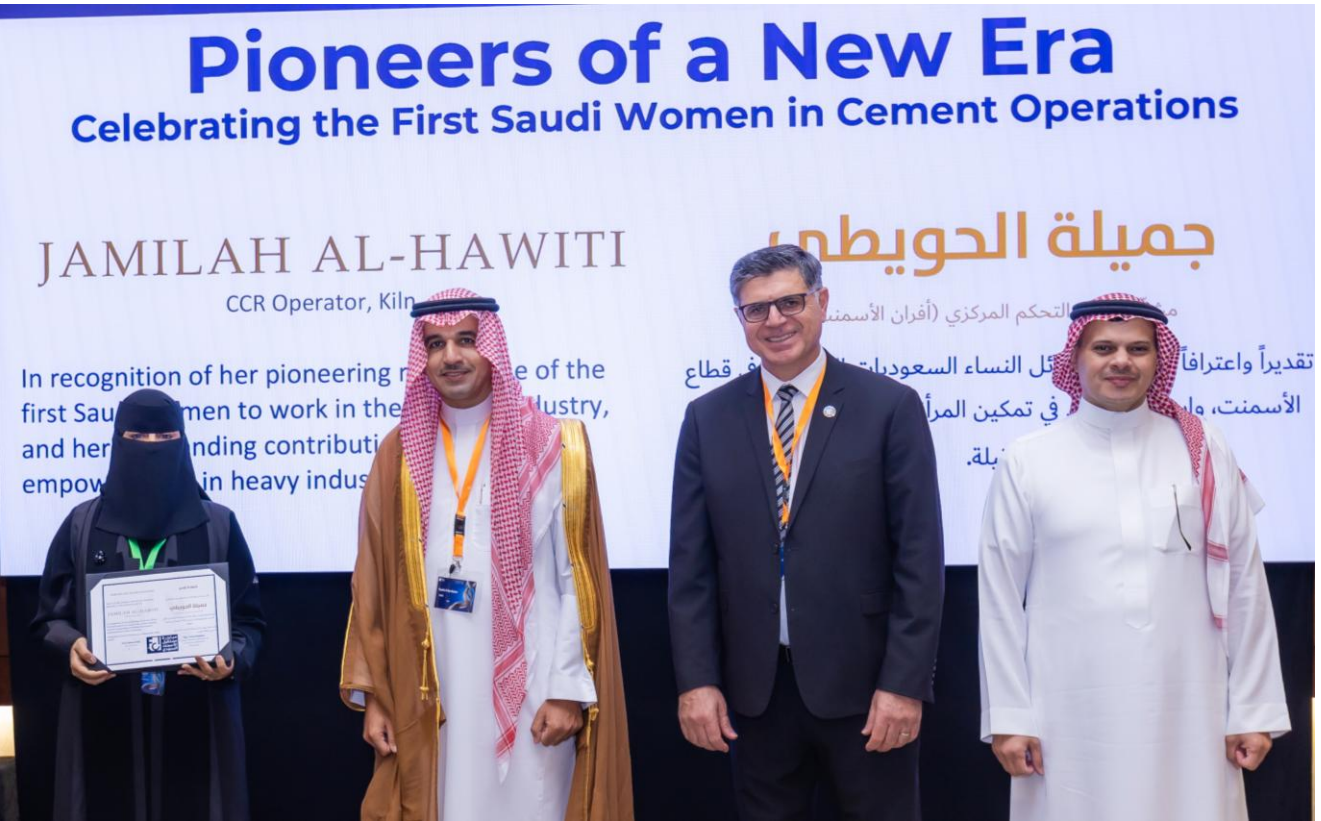
Pioneers of a New Era

Celebrating the First Saudi Women in Cement Operations



Pioneers of a New Era

Celebrating the First Saudi Women in Cement Operations



جميلة الحويطي

مشغّلة غرفة التحكم المركزي (أفران الأسمنت)

تقديراً واعترافاً بكونها من أوائل النساء السعوديات العاملات في قطاع الأسمنت، وإسهامها الرائد في تمكين المرأة السعودية في الصناعات الثقيلة.



Pioneers of a New Era

Celebrating the First Saudi Women in Cement Operations

ALBANDARI ALSHEHRI

CCR Operator, Kiln & Mills

In recognition of her pioneering role as one of the first Saudi women to work in the cement industry, and her outstanding contribution to women's empowerment in heavy industries.

البندري الشهري

مشغّلة غرفة التحكم المركزي (أفران وطواحين الأسمنت)

تقديراً واعترافاً بكونها من أوائل النساء السعوديات العاملات في قطاع الأسمنت، وإسهامها الرائد في تمكين المرأة السعودية في الصناعات الثقيلة.

Pioneers of a New Era

Celebrating the First Saudi Women in Cement Operations



نادين الشبيني

مشغّلة غرفة التحكم المركزي (الطواحين)

تقديراً واعترافاً بكونها من أوائل النساء السعوديات العاملات في قطاع الأسمنت، وإسهامها الرائد في تمكين المرأة السعودية في الصناعات الثقيلة.

Pioneers of a New Era

Celebrating the First Saudi Women in Cement Operations



زهور الحويطي

كيميائية أشعة سينية

تقديراً واعترافاً بكونها من أوائل النساء السعوديات العاملات في قطاع الأسمنت، وإسهامها الرائد في تمكين المرأة السعودية في الصناعات الثقيلة.

EPD Tool signing ceremony



Conference Overview

Three days, one deliberate arc.

The agenda is engineered to move participants from foundations to case evidence to policy commitment, in that order. Miss one day and the arc breaks.

Day One • 07 Sep

Capability Building

AI, Statistics & Machine Learning Masterclass

A structured, hands-on training day. Statistics fundamentals, ML foundations, supervised and unsupervised learning, neural networks. Grounded in real cement plant data. Led by KAUST, A^3&Co., and Optimitive.

Audience:

- Vibrations Engineers, Quality Engineers, Process Engineers, Kiln Operators, Mill operators, Planning engineers, Finance, Supply chain, Operational excellence, Automation & IT

Day Two • 08 Sep

Applied Case Studies

Use Cases & AI Solutions Across the Value Chain

Global and regional cement ecosystem, technology suppliers, plant operators. Documented outcomes. From pyroprocess to logistics to safety AI. Sinoma CDI, HOLCIM, GORD, KAUST, Axians, Optimitive, GORD, AKXATECH, and more.

Audience:

- Managers, engineers

Day Three • 09 Sep

Strategic Dialogue

CEOs & Policy Makers Roundtables

The level where industry transformation is decided. Ministry of Industry, NCCC, GCCA, KAUST, and Saudi cement CEOs on the national decarbonisation roadmap. Culminates in the GCCA EPD signing ceremony and FCI Award.

Audience: CEOs, ministry, policy leads

Conference Agenda

Day One

01

07 Sep 2026

Capability Building

AI, Statistics & Machine Learning Masterclass

Applied capability building for cement plant practitioners. Structured training grounded in industrial data, real plant scenarios, and challenges Saudi cement engineers encounter daily. Not a theoretical introduction.

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A&Co. TOGETHER FOR EXCELLENCE

OPTIMITIVE

FLENDER

Morning Session 08:30 – 12:00

Statistics & Machine Learning

Prof. Naeemullah Khan

- 08:30 · Basics of Statistics
- 08:50 · Foundations of Machine Learning
- 09:10 · Supervised Learning: Regression
- 09:30 · Supervised Learning: Classification
- 10:00 · Refreshment & Networking Break
- 10:30 · Model Evaluation & Generalisation
- 10:50 · Unsupervised: Clustering
- 11:10 · Unsupervised: PCA
- 12:00 · Neural Networks

Afternoon Session I 13:30 – 15:00

Digitalization Autonomy

Amr Nader

- 13:30 · Autonomy blueprint
- 13:50 · Physical plant to digital twin
- 14:10 · Capstone: high free lime
- 14:30 · Cooler inlet diagnostic blueprint
- 14:50 · Future Plant Excellence roadmap
- 15:00 · Refreshment & Networking Break

Afternoon Session II 15:30 – 17:00

AI Process Optimizer

Javier García

- 15:30 · Intro to APC & RTO
- 15:40 · Optimisation in APC/RTO
- 16:00 · Closed-Loop AI (OCLAI)
- 16:20 · OCLAI in the value chain
- 16:30 · Supervised vs Reinforcement
- 16:40 · OCLAI cement case studies
- 16:50 · Achievable results in production

Afternoon Session II 15:30 – 17:00

Online Vibrations analysis

Holger Terhaar

- 15:30 · Monitoring mechanical equipment
- 15:45 · AI Analytics, and Early Warning
- 16:30 · Customized CM Strategy
- 16:45 Business Case for Condition Monitoring

Conference Agenda

Day Two

02

08 Sep 2026

Applied Case Studies

Use Cases & AI Solutions Across the Cement manufacturing Value Chain

Global and regional ecosystem: technology suppliers, equipment providers, service companies, academics, and plant operators. Focused presentations on real implementations, documented outcomes, and emerging solutions.

Morning · 08:30 – 12:00

08:30	Sinoma's Digital Playbook	**Xie Peng . Sinoma**
08:45	Data-Driven Pyroprocess Optimization	**Alper Yildirim · Innomotics**
09:00	AI/Advanced Process control	**Mohamed Barakat . ABB**
09:15	Process Optimization with intelligent tech	**Dirk Schmidt · DE-VELOP**
09:30	HOLCIM Sokhna plant Lighthouse	**Ramy Mostafa · HOLCIM**
09:45	AI in process optimization	**Scott Ziegler · CemAI**
10:00	***Refreshment & Networking Break***	
10:30	Process intelligence platforms	**Vaideesh Narayanan. Optiverse**
10:45	Safety monitoring using AI	**Spencer Buchanan . Mizalah MTC**
11:00	Thermal activation of kaolinite clays	**Dr. Abdullah Alshahrani. Najran**
11:15	Resilient Cement Plants: Strategic Roadmap	**Fouad Kammoun · Thyssenkrupp**
11:30	Customized Strategies for Condition Monitoring	**Holger Terhaar . Flender GmbH**
11:45	Yamama Cement excellence case	**Meshal Alqahtani · Yamama Cement**

Afternoon · 13:30 – 17:00

13:30	How AI Is Enhancing Cement Plant Optimization	**Javier Garcia · Optimitive**
13:45	Smart plant construction methodology	**Tong Rui · TCDRI**
14:00	Maximizing alternative fuel flexibility	**Wolfgang Hammer · ATEC**
14:15	Downstream Silo Visibility → Loyalty	**Francisco Iglesias · SiloConnect**
14:30	Cement Plant Logistics Optimization	**Holger Suess · Axians**
14:45	CEMENTO-AI: Real-time clinker quality	**Dr. Wahab Abdul· GORD**
15:00	**Refreshment & Networking Break**	
15:30	Digitalization & AI-ML for Process Monitoring	**Amit Agarwal · AKXATECH**
15:45	Digital SOP Platform for Cement Operations	**Samer Al-Zamer · SMART**
16:00	Spares description standardisation	**Mohammad Alfawaer**
16:15	AGI in the Physical World	**Kristine Mo · AI² Robotics**

Conference Agenda

Day Three

03

09 Sep 2026

Strategic Dialogue

CEOs, Ministry & Policy Makers Roundtables

The level where industry transformation is actually decided. Senior executives from Saudi cement companies, the Ministry of Industry, and national policy makers convene for facilitated high-level panels.

Opening · 08:30 – 09:30

Welcome addresses & sector outlook

08:30	Welcome address . KAUST	Sir Edward Byrne · KAUST
08:40	Welcome address . Ministry	Eng. Turki Al-Babtain· MIM
08:50	Saudi cement sector outlook	Majed Osailan· NCCC
09:00	FCI Progress Report & Objectives	Prof. Bassam Dally · KAUST
9:10	EPD Plans for Saudi cement sector	Mohamed Zayed · KAUST
9:20	**EPD Tool signing ceremony**	Eng. Turki Al-Babtain, Sir Edward, Thomas
9:30	**FCI Award ceremony**	Eng. Turki Al-Babtain, Sir Edward, Winners
9:50	**Group Photo**	Eng. Turki Al-Babtain, Sir Edward, Audience



Session 1 — 10:00 – 11:00

Saudi cement sector Decarbonization Roadmap

10:00 GCCA Decarbonization roadmap — Thomas Guillot · GCCA

Panel Roster (10:20 – 11:00)

Moderator
Prof. Bassam Dally
KAUST



Ministry
Mosleh Al Emrani
MIM



Cement Plants
Abdulsalam Aldraibi
SPCC CEO



Global Association
Thomas Guillot
GCCA CEO



Green Buildings
Yazeed Abusabir
Mostadam



11:00 : 11:30 — *Refreshment & Networking Break*

Session 2 — AI Adaptation & Operations Excellence — 11:30 – 12:30

11:30	Interpretable Physics Twin (fault detection)	Prof. Shehab Ahmed · KAUST
11:40	AI in process optimisation	Dr. Mohamed Foad · Riyadh Cement
11:50	**Panel discussion**	

Panel Roster (11:50 – 12:30)

Moderator
Dr. Mohamed Fouad
Riyadh Cement



Scott Ziegler
CEMAI



Oliver Kanders
ALCEMY

Shoel Al Ayed
Riyadh Cement CEO



Prof. Shehab Ahmed
KAUST



Amr Nader
A3&CO



12:30 - 15:00 — *Lunch & Exhibition – Laboratory Tour – Arab Scholars Museum Visit*

Session 3 — Decarbonization enablers — 15:00 – 16:00

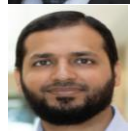
15:00	HOLCIM decarbonisation journey	Mohamed Gouda · HOLCIM
15:10	RDF preparation and handling	Boris Sassenrath · Fuel Technology
15:20	**Panel discussion**	

Panel Roster (15:20 – 16:00)

Moderator
Kiran Badkar
Najran Cement



Muhammad Nasir
KAUST



Boris Sassenrath
Fuel-Technology GmbH



Majed Osailan
City Cement CEO



Global Producer
Mohamed Gouda
HOLCIM



Session 4 — 16:00 – 16:30 — Saudi Cement CEOs Roundtable & Closing



Prof. Bassam Dally



Majed Osailan



Shoel Al Ayed



Mohamad Al Matrafi



Aly Al Ayed



Abdulkader Shoikan

P1: Saudi Cement Sector Decarbonization Roadmap



Moderator
Prof. Bassam Dally
KAUST



Ministry
Mosleh Al Emrani
MIM



Cement Plants
Abdulsalam Aldraibi
SPCC CEO



Global Association
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GCCA CEO



Green Buildings
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P2: AI Adaptation & Operations Excellence



Moderator

Dr. Mohamed Fouad
Riyadh Cement



Shoel Al Ayed
Riyadh Cement CEO



Scott Ziegler
CEMAI



Prof. Shehab Ahmed
KAUST



Amr Nader
A3&CO

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P3: Decarbonization enablers



Moderator
Kiran Badkar
Najran Cement

Majed Osailan
City Cement CEO

Mohamed Gouda
HOLCIM

Dr. Muhammad Nasir
KAUST

Boris Sassenrath
Fuel-Technology GmbH

P4: Saudi Cement CEOs Roundtable & Closing



Moderator
Prof. Bassam Dally
KAUST



Ministry
Mosleh Al Emrani
MIM



Cement Plants
Mohamad Al Matrafi
United Cement CEO



Cement Plants
Majed Osailan
City Cement CEO



Cement Plants
Shoel Al Ayed
Riyadh Cement CEO

Conference Team



Mohamed Zayed



Muhammad Nasir



Chiara Canciani