

CONFERENCE PROGRAM

Sustainable Strength through Innovation



2023
IEEE-IAS/PCA CEMENT CONFERENCE

Dallas, Texas ★ April 23rd - 27th

2023 IEEE-IAS/PCA Cement Industry Conference Dallas, TX



IEEE

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IEEE INDUSTRY
APPLICATIONS
SOCIETY



PCA

America's
Cement
Manufacturers™



Welcome to the 65th Annual IEEE-IAS/PCA Cement Industry Technical Conference. This year we are meeting in Dallas, Texas, in the Design District at a very special hotel, the Hilton Anatole. When you're not attending conference daily sessions or visiting the exhibit hall, you have easy access to downtown Dallas or plenty to explore on-site. The Hilton Anatole amenities include on-site restaurants, a 7-acre sculpture park, walking paths, pools, and a museum curated art collection.

The general sessions will take place in the Trinity Ballroom which is conveniently located next to the Trinity Exhibit Hall where our loyal vendors will showcase their latest products and information to assist producers with their needs. Similar to 2022, we will have an app dedicated to the conference, where attendees can explore session options to customize their experience. Some of this year's options include MSHA Refresher Training, Roundtable Discussions, Technical Sessions, and Process Training. We have also thoughtfully planned activities that spouses can attend while you are in sessions.

For those attending the conference for the first time, we are providing a brief tutorial including overview of the conference, its purpose and history, and some direction on how to navigate the various offerings.

As the conference continues to evolve to meet our ever-changing industry needs, we strive to offer the best value available by meeting the needs of our diverse audience. Each day there will be a process training session. They will focus on blended cements, dive into the production aspects of limestone cements, and explore equipment advancements for finer cement production. John Kline, Kline Consulting, LLC, and David Fortsch, Bridge Gap Engineering, LLC will lead these sessions.

A visit to Dallas would only be complete with a tour of AT&T Stadium, home to the Dallas Cowboys. No matter your favorite sport or which team you cheer for, VIP access to this state-of-the-art professional sports facility is sure to impress.

(Continued on page 4)

WELCOME LETTER

(Continued from page 3)

Every year industry volunteers, most of whom have at least one full time job, organize this conference. This group of extraordinary, dedicated women and men spend many hours working hard to ensure a successful conference. The conference technical content is developed, and carefully vetted by the CIC Working Groups and IEEE. The Local Organizing Committee directs the conference logistics with the support of Event Management Professionals, Audio Visual Experts and Exhibition Services. Once again, during the last weeks of the 18-month planning process, the combined efforts have come together seamlessly.

Loyal vendor support continues to be the key to this conference's success, please take the opportunity to seek out our 150 supplier partners in the exhibit hall. The exhibitors will host a cocktail reception on Sunday, Monday and Tuesday evening, and once again, lunch is provided among the exhibits on Monday and Tuesday.

We expect that this year's conference will exceed your expectations and we wish you another wonderful cement conference experience. Thank you for joining us!

Sincerely,



Stephen (Steve) Tyrrell

Local Organizing Committee Chair
2023 IEEE-IAS/PCA Cement Industry Conference



Dallas, Texas ★ April 23rd - 27th

GENERAL CONFERENCE NOTES

Conference Registration

Conference and Spouse program registration is located in the Tower Lobby in front of the Peacock Foyer Sunday through Wednesday.

Registration will be open:

Sunday, April 23..... 12:00pm-6:00pm
Monday, April 24..... 7:00am-5:00pm
Tuesday, April 25 7:30am-4:00pm
Wednesday, April 26..... 7:30am-12:00pm

The full conference registration fee includes a copy of the Conference Record, the conference luncheons on Monday, Tuesday and Wednesday, Exhibits and Awards Reception.

The Spouse Tours and MSHA Recertification Course, though included with your registration fee, must be registered for separately.

The AT&T Stadium VIP Tour, Roundtable Discussions and the Process Training modules must be registered for separately at an additional cost. Attendance is limited. These items are marked with an asterisk (*) in the schedule shown in this guide.

Technical Sessions

All conference technical sessions will be held in the Trinity Ballroom. Everyone must have a conference badge for entry.

Awards Reception

The Awards Reception will be held on Wednesday, April 26 in the Coronado Ballroom. The reception starts at 6:30pm and continues with the Texas style entertainment and awards until 9:30pm.

Photos

In connection with the conference, the conference organizers and sponsors will be taking candid photographs of conference attendees (for use in connection with the conference's awards reception and future conference marketing materials). Your attendance at, and participation in the conference constitutes your consent to the use of your likeness in such photos without any compensation.

CONFERENCE SCHEDULE OVERVIEW

Notes: Sign-up required for the MSHA Recertification, Process Training, AT&T Stadium VIP Tour and Spouse Tours. Please see Registration Desk.

	Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
MSHA Refresher Training										
Exhibits										
Roundtable Discussions										
Process Training										
Tech Sessions										
AT&T Stadium VIP Tour										

2023 Conference Mobile App!

1. Go to the App store.
2. Download the **Cvent Conference App**
3. Then search for IEEE/PCA conference
4. Register using the email address you used to register for the conference
5. A confirmation code will be emailed to you typically within minutes
6. Enter confirmation code (check spam and alternate email addresses for the code before resubmitting a request)
7. Voila, you're in!

You can now stay informed of:

- Schedule changes on a real time basis
- Event locator complete with maps
- Search and locate exhibitors
- Send and receive messages from other attendees
- Complete surveys in real time during the conference
- Maintain a list of favorite contacts or data collected during the conference
- And more!

OCTOBER 19-20, 2023



west coast

**SAVE
THE DATE!**

West Coast Cement Industry Conference

Provo, UT

**Provo Marriott Hotel
& Conference Center**

**Thursday, October 19
and
Friday, October 20**



**Stay Tuned for more
information on the 2024
East Coast IEEE Regional
Technical Conference**

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TUTORIAL - MSHA PART 46 REFRESHER*

*Tutorial must be registered for separately and requires a small fee.

Monday, April 24, 2023		Tutorial	Room
8:00am-5:00pm	Tutorial - MSHA Part 46 Refresher Training Speaker: Tom Burgess, Industrial Kiln		Cortez C

PROCESS TRAINING*

*Process Training must be registered for separately and requires a small fee.

Monday, April 24, 2023		Room
8:30am-11:30am	<p>Sustainability Training: Checklist for Environmentally-Sustainable Capital Projects – With stakeholder focus on Environmental, Social and Governance (ESG) and the growing number of companies making commitments regarding climate change and decarbonization, planning for capital projects has become a lot more complicated than it was 20 years ago. In the past, a capital project’s environmental requirements were dictated solely by regulations such as the Clean Air Act or Clean Water Act. Today, in addition to the regulatory landscape, environmental managers and project engineers need to navigate stakeholder expectations related to sustainable development, community impacts, and the potential risks and opportunities a new project may pose. In this half day course, a “checklist” of environmental issues will be presented with respect to cement plant projects, such as:</p> <ul style="list-style-type: none"> • Understanding overall impacts and associated drivers from typical projects such as production increases, modifications, or fuel changes. • Considering low carbon alternatives (e.g., alternative fuels/materials, solar power), available controls, and consequential environmental impacts associated with them. • Weighing the impact of green alternatives versus cost in the absence of a price on carbon. • Assessing project GHG emissions (Scope 1, Scope 2 and Scope 3) and impacts to decarbonization goals and/or EPD ratings. • Understanding potential environmental justice risks. • Evaluating, mitigating, and minimizing a project’s impacts to biodiversity and wetlands – harnessing regulatory requirements towards your sustainability goals. • Key cement industry specific ESG programs. <p>Example projects will be discussed in the context of this checklist to illustrate key considerations.</p> <p>Wendy Merz /Jose Orsini - Trinity Consultants</p>	Coronado A

PROCESS TRAINING*

Monday, April 24, 2023, cont'd.		Room
Blended Cements – what they are?, why they are important?, and what cement producers should consider?		
8:30am-10:15am	Limestone Cements – This training module will set the stage for the remainder of Monday's Process Training sessions. This session will enable participants to gain an understanding of limestone as a key lever for CO2 emissions reductions. John Kline - Kline Consulting, LLC	Cortez A-B
10:30am-12:15pm	Harvested Flyash – This training module will review all of the current technologies for carbon reduction through the use of flyash. John Kline - Kline Consulting, LLC	Cortez A-B
12:00am-1:00pm	Lunch	Exhibit Hall
1:15pm-3:00pm	Natural Pozzolans – This training module will review the use of natural pozzolans with respect to ongoing carbon reduction projects in the cement industry worldwide. John Kline - Kline Consulting, LLC	Cortez A-B
3:15pm-5:00pm	Calcined Clays – This training module will review the use of calcined clays as an important step that individual cement plants may be able to take to reduce their CO ₂ emissions. John Kline - Kline Consulting, LLC	Cortez A-B
Tuesday, April 25, 2023		Room
Producing Limestone Cements – what cement producers need to consider?		
12:00am-1:00pm	Lunch	Exhibit Hall
1:15pm-3:00pm	What Are the Options? – This training module will set the stage for the remainder of Tuesday's Process Training sessions. This session will highlight the importance of new and emerging technologies for the production of limestone cement in the cement industry. David Fortsch - Bridge Gap Engineering, LLC	Cortez A-B

PROCESS TRAINING*

Tuesday, April 25, 2023, cont'd.		Room
3:15pm-5:00pm	What Are the Issues? – This training module will explore the latest learnings from plants that have modified their grinding systems to produce limestone cements. The solutions to these issues will be described. The changes to mesh sizes for axial sampling will be explored. David Fortsch - Bridge Gap Engineering, LLC	Cortez A-B
Wednesday, April 26, 2023		Room
Producing Limestone Cements – what cement producers need to consider?		
12:00pm-1:30pm	Lunch	Exhibit Hall
1:15pm-3:00pm	Changing Mill & Classifier Designs – This training module will explore the requirements for producing finer cements including the next generation of mill and separator development – including changes to the slot sizes for diaphragms, recommended changes to the mill sweep targets, and the importance of modern analytical tools. David Fortsch - Bridge Gap Engineering, LLC	Cortez A-B
3:15pm-5:00pm	Lessons Learned – This training module will explore the various technologies available for improved ball mill performance when producing limestone cements. David Fortsch - Bridge Gap Engineering, LLC	Cortez A-B

EARLY AM ROUNDTABLE DISCUSSIONS

Monday, April 24, 2023		Room
7:00am-8:15am	<p>Roundtable Discussion: Supply Chain Issues (fuels and raw materials) – This roundtable discussion will explore the negative impact of weaknesses in the supply chain and identify possible solutions for the cement industry, specifically related to lower CO₂ Targets.</p> <p>Brian Keefe, Bridge Gap Engineering, LLC</p>	Coronado A
Tuesday, April 25, 2023		Room
7:00am-8:15am	<p>Roundtable Discussion: Supply Chain Issues (refractory, grinding media, and electrical components) – This roundtable discussion will explore the negative impact of weaknesses in the supply chain and identify possible solutions for the cement industry.</p> <p>David Fortsch - Bridge Gap Engineering, LLC</p>	Coronado A
Wednesday, April 26, 2023		Room
7:00am-8:15am	<p>Roundtable Discussion: Employee Retention in the Cement Industry – This roundtable discussion will explore the weaknesses of employee attraction and retention and identify possible solutions for the cement industry.</p> <p>John Kline - Kline Consulting, LLC</p>	Coronado A

SPOUSE / COMPANION PROGRAM*

***Spouse / Companion registration is required to attend the spouse activities, the awards banquet and for access to the exhibit hall and special tours described above. Participants must register in order to attend.**

***Spouse/Guest Registration:** All spouses and/or guests **must be non-industry attendees**. Any industry professional attending the conference must pay the delegate registration fee. **Please note: The spouse hospitality suite and program activities are reserved for those spouses and guests who have paid full spouse registration rates.**

Sunday, April 23, 2023	
12:00pm-6:00pm	Conference and Spouse program Registration Registration open in the Peacock Foyer.
Monday, April 24, 2023	
9:00am-10:30am	Spouse & Sponsor Welcome Breakfast - Shelbourne
11:00am-3:30pm	<p>JFK Tour – Some remember where they were, others have only seen it in photographs and film, but the events of November 22nd, 1963 changed America forever. John Fitzgerald Kennedy was assassinated while traveling through Dealey Plaza in downtown Dallas but that is where agreement ends. Was it Lee Harvey Oswald who fired the deadly shots, or was there something more sinister at play? In this intense, live narrated tour, we will take you on an unforgettable journey back in time to explore the mysteries, facts, opinions, and conspiracies that surround the assassination JFK.</p> <p>We will visit the grounds of Dealey Plaza, the famous Sixth Floor Museum, and follow the trail of the assassination events. Spellbinding details and the background story leading up to November 22 and beyond will fascinate and captivate you, providing new insight into this tragic, human drama.</p> <p>Pick Up Location: 11:00 AM at Hilton Anatole Busses depart from the Grand Entrance located between the Infinity Pools, next to the hotel Gift Shop.</p> <p style="text-align: right;"><i>(Continued on page 16)</i></p>

SPOUSE / COMPANION PROGRAM*

Monday, April 24, 2023 Cont'd.

<p>11:00am-3:30pm Cont'd.</p>	<p>JFK Tour – Cont'd. Program:</p> <ul style="list-style-type: none"> • John F. Kennedy Memorial Plaza (stop) • Greyhound Bus Station • Dallas Morning News Headquarters • Police Headquarters, City Jail • Trace JFK Motorcade Route through Dallas / Main Street • Dealey Plaza (stop) • Sixth Floor Museum (stop - museum exhibit admission is not included in the excursion) • Grassy Knoll (stop) • Oswald Rooming House Museum (stop) • Neely House (stop) • Site of Officer J. D. Tippit's assassination • Texas Theater • Bishop Arts District / Oswald Mural • Lunch <p><i>At each landmark/point of interest marked as (stop), we will de-board the vehicle to explore the site while our tour guide conveys the historical, cultural, architectural, or popular significance of the place</i></p> <p>Drop Off Location: 3:30PM at: Hilton Anatole</p>
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Tuesday, April 25, 2023

<p>9:00am-10:00am</p>	<p>Spouse Breakfast - Veranda Park View Room</p>
<p>9:00am-4:00pm</p>	<p>Spa Day at Verandah (Hotel Spa) – Relax and rejuvenate at V-Spa, located on the second level of Verandah Health Club. Choose from a menu of soothing massages including deep tissue, hot stone, and signature Swedish, or facials.</p> <ul style="list-style-type: none"> • Glass of sparkling water, hot tea, and lunch. • Full-day access to the eucalyptus steam room, Finnish sauna, hot tub, Verandah Fitness Club, lap pool, and lounge areas. <p>Facials Pure Zen Signature Facial</p> <p>Zen Fusion Massages Bamboo/Hot Stone/Deep Tissue</p>

SPOUSE / COMPANION PROGRAM*

Wednesday, April 26, 2023

<p>8:30am-9:30am</p>	<p>Spouse Breakfast - Veranda Park View Room</p>
<p>10:00am-4:00am</p>	<p>Forth Worth Tour – Discover the city of “cowboys and culture,” a true Texan experience packed with longhorns, rodeos and western saloons. Our first stop is at the legendary Stockyards. We will give the group time to have lunch at one of the local eateries, your guide will provide you with recommendations or we can plan your lunch ahead of time, which is recommended for groups of 10 or more guests. After lunch, you will have the opportunity to explore all the area attractions and stores before we resume our excursion.</p> <p>From the Stockyards, our journey will take us to the heart of downtown, Sundance Square, a dazzling historic and entertainment district where charming, beautifully restored buildings, red brick streets and lush courtyards add to the plaza's authentic western aura.</p> <p>Fort Worth's fascinating western history and colorful past will come to life with tales about the Chisholm Trail and the famous outlaws, Butch Cassidy and the Sundance Kid, while we stroll the Hell's Half Acre where saloons, gambling parlors and dance halls once flourished.</p> <p>We will then explore the sunken Fort Worth Water Gardens; an architectural and engineering marvel creating a beautiful and refreshing oasis, and stop by the JFK Tribute Memorial and the former Hotel Texas where President John F. Kennedy spent the last night of his life.</p> <p>Come with us and discover Fort Worth's rich history; from a lonely outpost on the western frontier and the cattle drives of the Chisholm Trail to the vibrant city Fort Worth is today.</p> <p>Pick Up Location: 10:00 AM at: Hilton Anatole Busses depart from the Grand Entrance located between the Infinity Pools, next to the hotel Gift Shop.</p> <p style="text-align: right;"><i>(Continued on page 18)</i></p>

SPOUSE / COMPANION PROGRAM*

Wednesday, April 26, 2023 Cont'd.

10:00am-4:00am Cont'd.	<p>Forth Worth Tour – Cont'd.</p> <p>Program:</p> <ul style="list-style-type: none"> • Fort Worth Stockyards National Historic District (stop / Cattle Drive Show at 11:30 AM) • Lunch • Sundance Square Plaza (optional stop) • Hell's Half Acre / The Wild Bunch • John F. Kennedy Tribute Memorial (stop) • Water Gardens (stop) • Optional: Cultural District and Museums <p>At each landmark/point of interest marked as (stop), we will de-board the vehicle to explore the site while our tour guide conveys the historical, cultural, architectural, or popular significance of the place</p> <p>Drop Off Location: 4:00 PM at: Hilton Anatole</p>
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PCA COMMITTEE SCHEDULE

Monday, April 24, 2023		Room
8:30am-11:30am	Joint PCA, MTC & E&E Committee Meetings (PCA members only)	Coronado C-D
11:30am-4:00pm	PCA RTR Workshop (E&E Committee members only)	Coronado C-D
1:00pm-4:00pm	PCA MTC Committee Meeting (PCA members only)	Cortez C-D
Wednesday, April 26, 2023		
8:30am-12:00pm	PCA General Session	Trinity Ballroom
1:30pm-5:00pm	PCA Board Meeting (closed)	Verandah Shelbourne
5:00pm-6:00pm	PCA Reception for Associate Members/Board Members (by invitation only)	Verandah Park View
6:30pm-9:00pm	PCA Board Dinner (by invitation only, off-site)	Off-Site

Portland Cement Association

Manufacturing Technical Committee

Co-chair: Kenny Miller, Monarch Cement Company
Co-chair: Andy Edwards, Ash Grove Cement Company

Environmental and Energy Committee

Chair: Adam Swercheck, Heidelberg Materials
Vice-chair: Gina Lotito, GCC of America

Occupational Health and Safety Committee

Co-chair: Robin Markussen, Heidelberg Materials
Co-chair: Gary Shaffer, Continental Cement Company

SCHEDULE

Sunday, April 23, 2023		Room
12:00pm-6:00pm	Conference Registration	Peacock Foyer
12:00pm-5:00pm	Speaker Ready Room open	De Soto A
7:00am-8:00am	IEEE-IAS CIC Joint Executive Committee and Working Group Chairs and Vice Chairs Breakfast (closed)	Wedgewood
8:00am-9:00am	IEEE-IAS CIC Nominations Committee Meeting (closed)	Cortez A
8:00am-9:00am	Site Selection Working Group (closed)	Cortez B
8:00am-9:00am	Young Professionals Working Group (closed)	Cortez C
8:00am-9:00am	Bylaws & Historian Working Group (closed)	Cortez D
8:00am-9:00am	Technical Content Working Group (Closed Session)	De La Salle
9:00am-12:00pm	IEEE-IAS CIC Executive Committee Meeting (closed)	Verandah Park View
12:00pm-1:15pm	IEEE-IAS CIC Full Committee Meeting (closed) (working lunch)	Metropolitan
1:30pm-3:00pm	Breakout – Automation Working Group	Cortez A
1:30pm-3:00pm	Breakout – Drives Working Group	Cortez B
1:30pm-3:00pm	Breakout – Environmental, Energy and Sustainability	Cortez C
1:30pm-3:00pm	Breakout – General Practices Working Group	Cortez D
1:30pm-3:00pm	Breakout – Power Generation	De Soto B
1:30pm-3:00pm	Breakout – Maintenance and Safety	De La Salle
3:00pm-4:00pm	IEEE-IAS CIC Full Committee Meeting (closed)	Metropolitan
5:00pm-7:00pm	Exhibit Reception	Trinity Exhibit Hall

SCHEDULE

Monday, April 24, 2023		Room
7:00am-5:00pm	Conference Registration	Peacock Foyer
7:30am-5:00pm	Process Training - see pages 11-13	
8:00am-5:00pm	Speaker Ready Room open	De Soto A
8:00am-5:00pm	TUTORIAL: MSHA Part 46 Refresher - Tom Burgess, Industrial Kiln	Cortez C
11:30am-1:30pm	Lunch in Exhibit Hall	Trinity Exhibit Hall
11:30am-6:00pm	Exhibit Hall Open	Trinity Exhibit Hall
12:00pm-1:00pm	Lunch for Speakers (closed)	Shelbourne
1:00pm-5:00pm	Speaker Practice Session (closed)	Trinity Ballroom
3:00pm-4:00pm	Media Reception	Verandah Stuart
5:00pm-7:00pm	Exhibit Reception	Trinity Exhibit Hall

SCHEDULE

Tuesday, April 25, 2023

7:30am-4:00pm	Conference Registration	Peacock Foyer
11:30am-1:30pm	Exhibit Hall open with Lunch	Trinity Exhibit Hall
Trinity Ballroom		
8:30am-8:45am	Conference Opening by IEEE-IAS CIC Chair, Doug Phares and Conference Liason, Steve Tyrrell	
8:45am-8:50am	Introduction of Keynote Speaker, Steve Tyrrell	
8:50am-9:50am	<p style="text-align: center;">Keynote Address, Brian Shul</p> <p>Key Note Speaker Brian Shul is a Vietnam War-era attack pilot and a retired major in the United States Air Force (USAF). He flew 212 combat missions and was shot down near the end of the war. He was so badly burned that he was given next to no chance to live. Surviving, he returned to full flight status, flying the SR-71 Blackbird. Please join us as he shares his inspiring life story.</p>	

SCHEDULE

Tuesday, April 25, 2023 - General Sessions

Trinity Ballroom	
10:10am-10:28am	Working Group: Automation <i>Saving Money Through Fast Quality Process Analysis</i> - Mark Hollett and Ken Herring, Ash Grove Cement
10:28am-10:46am	Working Group: General Practices <i>The Use of Precedence Networks for Cement Plant Outages</i> - James Lindsey & Bernie Sherin, Ash Grove Cement Company
10:46am-11:04am	Working Group: Drives <i>Study of Total Cost of Ownership of Variable Frequency Drives in Cement Industry</i> - Samantha Grosz & Navid Binesh, ABB
11:04am-11:16am	Questions and Answers
11:16am-11:34am	Working Group: General Practicess <i>Case Study: Production of Low Clinker Cements in Vertical Roller Mills</i> - Caroline Woywadt, Gebr. Pfeiffer
11:34am-11:52am	Working Group: EES <i>Study of Combined Heat and Power Integrated Carbon Capture and Compression at an Existing Cement Manufacturing Facility</i> - Wayuta Srisang, Brent Jacobs, Yuewu Feng, Puttipong Tantikhajongosol, Doug Daverne, Conway Nelson, International CCS Knowledge Centre
11:52am-12:00pm	Questions and Answers
11:30am-1:30pm	Exhibit Hall open with Lunch
1:20pm-1:38pm	Working Group: General Practices <i>Challenges of Firing H2 as An Alternative Fuel</i> - Syed Suhail Akhtar, Holcim and Tahir Abbas, Cinar
1:38pm-1:56pm	Working Group: Automation <i>The Successful Implementation of AI in Kiln Control</i> - Sunny Schooner, Siemens
1:56pm-2:04pm	Questions and Answers
2:04pm-2:22pm	Working Group: Power Generation <i>Advantages of Smart Protective Relaying</i> - Anuneet Krishna, Richard W. Miller, P.E., Alan Simmons, P.E.

SCHEDULE

Tuesday, April 25, 2023 - General Sessions Cont'd.

2:22pm-2:40pm	Working Group: General Practices <i>A Critical Review of CO₂ Mitigation Technologies</i> - Syed Suhail Akhtar, Holcim and Tahir Abbas, Cinar
2:40pm-2:48pm	Questions and Answers
2:48pm-3:06pm	Working Group: Automation <i>Cost Effective Use of Digitalization for Improved Maintenance & Reliability</i> - Johannes Vorsamer, Siemens and Michael Barnes, Holcim
3:06pm-3:24pm	Working Group: General Practices <i>Why Your Quarry Matters</i> - Morgan Lane, RESPEC Inc.
3:24pm-3:42pm	Working Group: Power Generation <i>Main Electrical Requirements and Their Implementation to Achieve the Decarbonization of Cement Plants</i> - Xavier d'Hubert, Joe Riley
3:42pm-3:54pm	Questions and Answers
3:54pm-4:12pm	Break
4:12pm-4:30pm	Working Group: EES <i>Achieving Full Design Life of Bearings in Demanding Mining Applications</i> - Matt Adams, SKF and Steven Soetjiandi, SKF
4:30pm-4:48pm	Working Group: Drives <i>Novel Voltage Observer for Reduced Voltage Soft-starter Torque Ramp</i> - Stan Simms & Thomas Farr, Eaton and Gabriel Braga, PWP Lab X
4:48pm-5:00pm	Questions and Answers
5:00pm-7:00pm	Exhibit Reception - Trinity Exhibit Hall

SCHEDULE

Wednesday, April 26, 2023 - General Sessions

7:30am-12:00pm	Conference Registration	Peacock Foyer
Trinity Ballroom		
8:30am-12:00pm	PCA General Sessions	
8:30am-8:40am	PCA President & CEO, Mike Ireland Welcome	
8:40am-9:15am	Technical #1: Technoeconomic Analysis of CO₂ Capture Cement Plant Retrofit Eric Grol, Chemical Engineer at National Energy Technology Laboratory	
9:15am-9:50am	Technical #2: The Role of Carbon Management in Achieving Net-Zero Goals Noah Deich, Deputy Assistant Secretary for the Office of Carbon Management (Dept of Energy)	
9:50am-10:00am	Break	
10:00am-11:05am	CEO Panel: Sustainability in the Cement Industry - Filiberto Ruiz, Votorantim Cimentos North America - Massimo Toso, Buzzi Unicem USA - Jaime Muguero, CEMEX USA - Chris Ward, Heidelberg Materials Moderators: Tina McIntyre, CalPortland Company, and Ashley Kizzire, PCA	
11:05am-12:00pm	PCA's SVP and Economist, Ed Sullivan's Forecast	
12:00pm-1:30pm	Lunch	
1:30pm-1:48pm	Working Group: Power Generation <i>Enhancing Efficiency and Decarbonization of the Cement Manufacturing Process with Advance Organic Rankine Cycle Waste Heat Recovery</i> - Andrea De Finis	
1:48pm-2:06pm	Working Group: EES <i>Carbon Sequestration Project Development: Practical Strategies and Process</i> - Matthew Minnick & Ken Glover, RESPEC Inc.	

SCHEDULE

Wednesday, April 26, 2023 - General Sessions Cont'd.

2:06pm-2:24pm	Working Group: EES <i>Low-Level Detection Sampling: New Technologies and Better Accuracy</i> - Blake Ericson, Montrose Environmental
2:24pm-2:36pm	Questions and Answers
2:36pm-2:50pm	Break
2:50pm-4:00pm	EES Panel Discussion: A Practical Perspective - How CCS Can Decarbonize the Cement Industry - Gina Lotito, Vice President Sustainability and Energy at GCC - Steve Jaasund, Consultant at AirTech Innovations LLC - Emily Kunkel, Vice President of Applied Sciences (Decarbonization) at Thorton Tomasetti - Conway Nelson, Vice President of Project Development and Advisory Services at International CCS Knowledge Centre - Jodi Ahorn, President and CEO of GLJ Ltd.
4:00pm-4:30pm	Panel Questions and Answer
4:32pm-4:48pm	Working Group: Drives <i>Electro-Mechanical Grinding Challenges: Next Generation of Gear Technology Offering Power Transmission Solutions for a Sustainable Future</i> - Ruben Salinas, Eng. David Brown Santasalo
4:48pm-4:52pm	Questions and Answers
6:30pm-9:30pm	Awards Reception - Coronado Ballroom

AT&T STADIUM VIP TOUR INFORMATION

Thursday, April 27, 2023

Busses depart from the Grand Entrance located between the Infinity Pools, next to the hotel Gift Shop. Please arrive prior to their tour departure time, so that the tour group can leave on time.

AT&T STADIUM VIP TOUR
9:00am-1:30pm



- Tour with a private tour guide about 90 minutes long
- Stops at 7-9 spots in the stadium including Cowboy's locker room, Cheerleader's locker room, Luxury suite, the Field level, Exclusive clubs, Press Box, and more (subject to availability)
- Complimentary professional photo included for each attendee
- Lunch with a drink

For more information, visit: attstadium.com

PCA EDUCATION FOUNDATION

Proceeds from the IEEE-IAS/PCA Cement Conference support the Portland Cement Association's Education Foundation. Since 2002, the Foundation has funded a wide variety of educational activities that:

Advance general scientific understanding of cement and concrete by providing scholarships, fellowships, grants, and other support for the study of engineering and the physical sciences relating to the production and use of cement and concrete.

A partial list of the 80 research fellowship award winners is noted below. For more information regarding the PCA Education Foundation and the J. P. Gleason Research Fellowship Program, go to www.cement.org/educationfoundation.

2010

Bryan Wilson
Brigham Young University

Eric Giannini
University of Texas at Austin

Robby Borden
Washington State University

Joel Sikkema
Iowa State University

2011

Tengfei Fu
Oregon State University

Ashlee Hossack
University of New Brunswick

2012

Jake Tolbert
Brigham Young University

Ashrafal Alam
Washington State University

2013

Mahmoodreza Soltani
Clemson University

Federico Aguayo
University of Texas at Austin

Kamran Armeni
Iowa State University

2014

Jessica Kettelkamp
Northern Arizona University

Yaghoob Farnam
Purdue University

Stephen Stacey
University of Texas at Austin

Kaveh Afshinnia
Clemson University

2015

Konstantin Sobolev
University of Wisconsin-Milwaukee

Kamran Amin
Iowa State University

Kevin Folliard
University of Texas at Austin

2016

Yanqi Luo
University of California, San Diego

Tyler Deboodt
Oregon State University

Taylor Sorensen
Utah State University

Kamran Amini
Iowa State University

PCA EDUCATION FOUNDATION

2017

Kamran Amini
Iowa State University

Taylor Sorensen
Utah State University

Robert Stevens & Tenli Waters
Brigham Young University

2018

Jinho Kim
Texas A&M

Othman Alshareedah
Washington State University

Sivakumar Ramanathan
University of Miami

2021

Abdul Basit Peerzada
Clemson University

Mounir Kassem
University of Illinois at Chicago

Qian Bi
University of Toronto

2022

Jafar Shah Bukhari
Temple University

CONFERENCE HISTORY

Year	Location	National Chair	Committee Chair	Reg.
1959	Allentown, PA	W.A. Allan	A.H. Huelsman	298
1960	Milwaukee, WI	W.A. Allan	V.B. Murdock	316
1961	Detroit, MI	J.F. Hower	I.E. Swanson	307
1962	St. Louis, MO	J.F. Hower	J.B. Woodward	437
1963	Cleveland, OH	R.J. Jager	G.E. MacDonald	304
1964	Pasadena, CA	R.J. Jager	D.B. Carson	433
1965	Allentown, PA	H.P. Cassel	C.A. Zimmerman	601
1966	Denver, CO	H.P. Cassel	W.A. Walking	436
1967	Albany, NY	I.E. Swanson	J.R. Kelly, Jr.	479
1968	St. Louis, MO	I.E. Swanson	A.C. Lordi	515
1969	Toronto, ON	A.C. Lordi	J.A. Allan	501
1970	Indianapolis, IN	A.C. Lordi	G.F. Messinger	453
1971	Seattle, WA	J.A. Allan	F.J. Bauer	370
1972	Detroit, MI	J.A. Allan	I.E. Swanson	464
1973	Miami, FL	R.P. Kistler	I.W. Copple	503
1974	Mexico City, Mexico	R.P. Kistler	R.J. Plass	676
1975	Montreal, PQ	F.J. Bauer	M.S. Jackson	583
1976	Tucson, AZ	F.J. Bauer	J.A. Vidergar	587
1977	Omaha, NE	R.C. White	F.E. Staples & R.F. Palmer	570
1978	Roanoke, VA	R.C. White	K.C. Wiles	677
1979	Tarpon Springs, FL	J. Warshawsky	F.W. Cohrs	829
1980	Toronto, ON	J. Warshawsky	M.E. Wrinkle	839
1981	Lancaster, PA	L.L. Warner	N.W. Biege	841
1982	Vancouver, BC	L.L. Warner	B.T. Price	595
1983	San Antonio, TX	N. Roistacher	U.K. Alsguth	622
1984	Anaheim, CA	N. Roistacher	J.A. Vidergar	563
1985	New Orleans, LA	R.J. Krekel	L.C. Cockrell	595
1986	Salt Lake City, UT	R.J. Krekel	R.W. Riegel	490
1987	San Francisco, CA	R.F. Palmer	C.D. Maars	557
1988	Quebec City, PQ	R.F. Palmer	A. Morneau	560
1989	Denver, CO	Ib Bentzen-Bilkvist	E.D. Parker	546
1990	Tarpon Springs, FL	Ib Bentzen-Bilkvist	E.A. Buehler	629
1991	Mexico City, Mexico	N.W. Biege	J.R. Trevino	430

CONFERENCE HISTORY

Year	Location	National Chair	Committee Chair	Reg.
1992	Dallas, TX	N.W. Biege	P.H. Caldwell	528
1993	Toronto, ON	R.J. Meta	J.R. Gonzolez	536
1994	Seattle, WA	R.J. Meta	S.E. Sheridan	505
1995	San Juan, PR	P.J. Riley	R. Di Cristina	546
1996	Los Angeles, CA	P.J. Riley	J.G. Brown	623
1997	Hershey, PA	M.W. Jasberg	R.J. Pospisil	632
1998	Rapid City, SD	M.W. Jasberg	D.L. Rydquist	604
1999	Roanoke, VA	J.R. Gonzolez	A. Papadopoulos	682
2000	Salt Lake City, UT	J.R. Gonzolez	J.R. Sommers	783
2001	Vancouver, BC	E.F. Bouse, Jr.	A.S. Moore	836
2002	Jacksonville, FL	E.F. Bouse, Jr.	C.O. Cohrs	875
2003	Dallas, TX	R.H. Simmons	D.R. Jones	844
2004	Chattanooga, TN	R.H. Simmons	G. Garcia	858
2005	Kansas City, MO	E.A. Buehler	A. Winston	931
2006	Phoenix, AZ	E.A. Buehler	R. Smith	1,058
2007	Charleston, SC	G. Fergades	C. Bech	1,181
2008	Miami, FL	G. Fergades	D. Crowley	1,186
2009	Palm Springs, CA	C. Macey	P. Gaynor	678
2010	Colorado Springs, CO	C. Macey	S. Zellmer	795
2011	St. Louis, MO	S. Coppinger	J. Ouhl	1,022
2012	San Antonio, TX	S. Coppinger	C. Fields	940
2013	Orlando, FL	T. Richardson	M. Mueller	914
2014	Washington, DC	T. Richardson	D. Nicholls	987
2015	Toronto, ON	J. Nagel	M. Vroegh	900
2016	Dallas, TX	J. Nagel	K. Blankenship & S. Nielson	971
2017	Calgary, AB	C. Fields	H. Knopfel	825
2018	Nashville, TN	T. Richardson	R.H. Simmons	1,049
2019	St Louis, MO	C. Macey	C. Fields	1,002
2020	Las Vegas, NV	C. Macey	B. Lindsay	not held
2021	Virtual	C. Macey	M. Mueller	301
2022	Las Vegas, NV	D. Phares	B. Lindsay	789
2023	Dallas, TX	D. Phares	S. Tyrrell	

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EXHIBIT HALL

Sustainable Strength through Innovation



2023
IEEE-IAS/PCA CEMENT CONFERENCE

Dallas, Texas ★ April 23rd - 27th

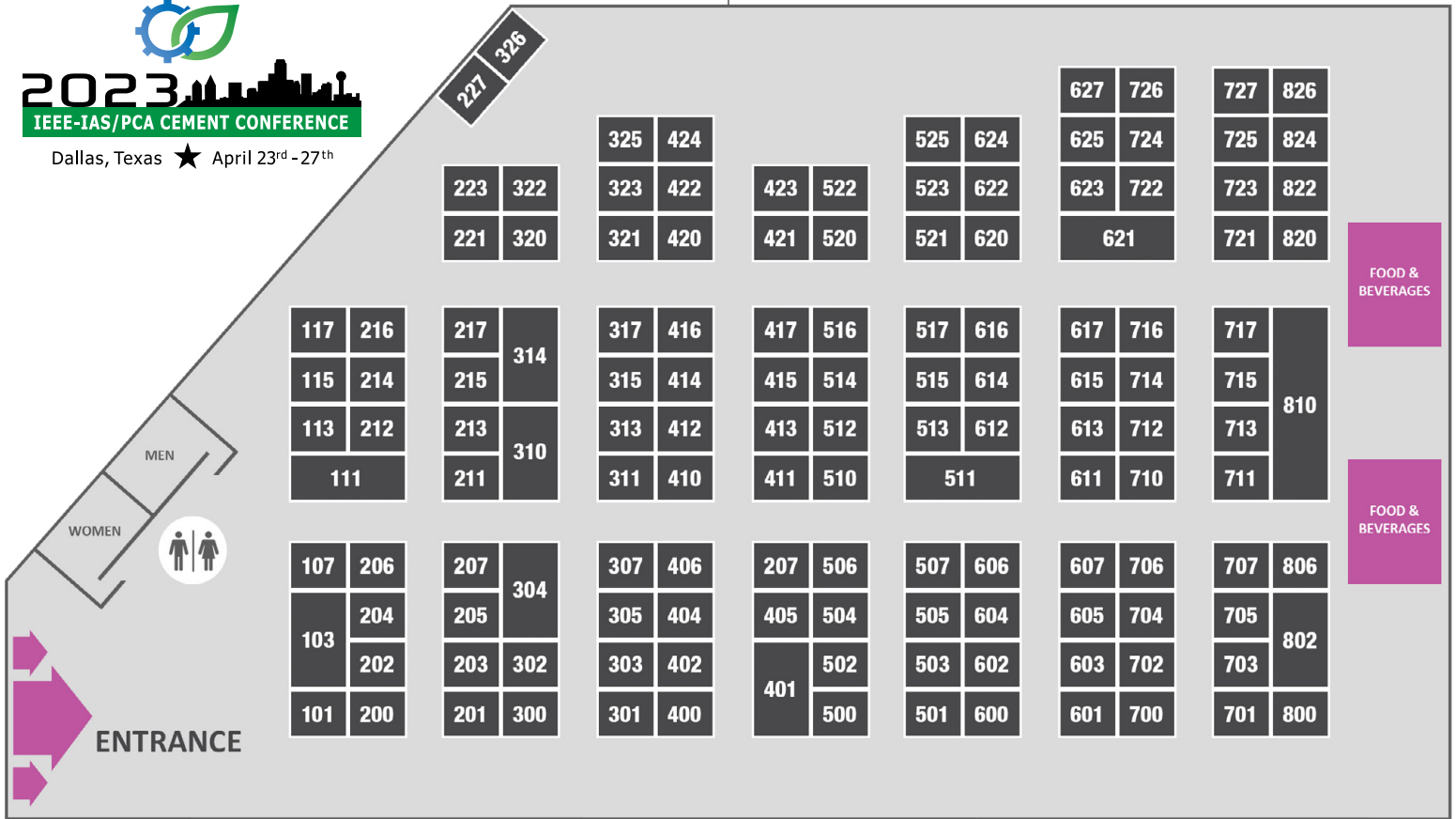


Exhibit Hall

All exhibits are located in Trinity Exhibit Hall.
A conference badge is necessary for entry into the exhibit hall.

Hours of Exhibition:

Sunday, April 23, 2023

Exhibit hours..... 5:00pm to 7:00pm
Reception / snacks in exhibit hall..... 5:00pm to 7:00pm

EXHIBIT HALL

Monday, April 24, 2023

Exhibit hours..... 11:30am to 1:30pm & 5:00pm to 7:00pm
Lunch in exhibit hall..... 11:30am to 1:30pm
Reception / snacks in exhibit hall..... 5:00pm to 7:00pm

Tuesday, April 25, 2023

Exhibit hours..... 11:30am to 1:30pm & 5:00pm to 7:00pm
Lunch in exhibit hall..... 11:30am to 1:30pm
Reception / snacks in exhibit hall..... 5:00pm to 7:00pm

EXHIBITORS

Company	Booth
ABB Measurement & Analytics	200
ADW Inc.	422
Aerzen Rental	521
Air Hygiene International	705
Airstream Systems, Inc.	407
Alfran USA	810/812/814/816
Alliance Technical Group	212
American Hofmann Corporation	503
ASI industrial	501
ATD Pressure Gas System	721
AUMUND Corporation	820
Battelle	423
Bayliss Machine & Welding	710
Bedeschi America Inc.	810/812/814/816
Beumer Group	305
Borton LC	405
BWF Envirotec	413
CCC Group Inc	716
CEM Specialties Inc	600
Cemengal	714
Cement Products	601
Cement Technology Consulting	810/812/814/816
CEMTEC Cement and Mining Technology	420
CEMTEC KVB-Enertec	400
Christian Pfeiffer	822
Cintasa Americas	624
Claudius Peters (Americas) Inc	315
Concetti North America	717
Continental Construction Company	204
Coperion & Coperion K-Tron	406
Corrosion Monitoring Services Inc	202
CPFD Software	723

EXHIBITORS

Company	Booth
DALOG Diagnosesyemes GmbH	314/316
DCL	103/105
Dynamis	414
Eaton	301
Elite Refractory Services	703
ENVEA Inc	205
EnviroCare International, Inc.	607
EquipPro	522
ETS, Inc	713
FCMD North America	517
FCT Combustion	513
Fives	614/616
Flender Corporation	317
Fodisch North America	602
Fons Technology International	824
Forjas Bolivar	410
Fundiciones del Estanda, S.A.	810/812/814/816
GAMBAROTTA GSCHWENDT SRL	113
GE Industrial Motors	320
Gebr. Pfeiffer	800
Global Cement/Pro Global Media Ltd	217
HarbisonWalker International	201
HASLE Refractories A/S	417
HAYER & BOECKER	520
HAZEMAG	516
Helmke Orbis GmbH	722
Herzog Automation Group	303
HGH Infrared	214
Honeywell	115
IAC	707
International Cement Review	206
Juval / Argo IPS	621

EXHIBITORS

Company	Booth
Kalenborn Abresist Corporation	515
Kase Conveyors	605
Keith Manufacturing	424
KettenWulf Inc	514
Kiln Technology Company	606
KIMA Process Control GmbH	810/812/814/816
Kluber Lubrication	310/312
Kobo USA	712
Koeppern Group	623
K-TEK International Inc	313
Laidig Systems	620
LDX Solutions	307
Lhoist North America	223
Loesche America	412
Magnum Steel - Tampa FL	416
Malvern Panalytical	402
Marietta Silos LLC	300
Merrick Industries	221
MHE	216
Micronics Engineered Filtration Group	211
Mino Cermiac Co. Ltd.	724
MMR	111/210
Mole Master Services	401/403
Mostardi Platt	326
Motion Industries	724
Pacific Standard Environmental	325
Parker Hannifin	611
Portland Cement Association	107
PEBCO	726
Pentol GmbH	727
Plattco Corporation	213
Pneumat Systems Inc	421

EXHIBITORS

Company	Booth
ProcessBarron	715
Production Data	500
Purvis Industries	625
Rapat Corporation	415
Redecam USA, LLC	826
Refratechnik North America	304/306
Regal Rexnord	511/610
Reitz India Ltd	711
Reliant CEM Services	702
Resco Products Inc	322
RESPEC	323
Robinson Fans	504
Sabia Inc	215
SAXUM	617
Schaeffler Group USA	603
Schenck Process	506
Scheuch	411
Seal Plus	720
Shanghai Everspring Filtration Tech	117
Sibilia s.r.l	810/812/814/816
Sick	523
SOLVAir	510
Southern Industrial Contractors	612
Southern Welding	505
Specialty Silo Services	706
St. Peter Metal Works	525
stela Laxhuber GmbH	512
Technos, Inc.	302
The New York Blower Co.	207
Thermoteknix	613
Tianjin Cement Industry Design & Research Institute Co., Ltd	604
TMEIC Corporation Americas	203

EXHIBITORS

Company	Booth
Toni Technik	404
Toyo Grinding Ball Co., Ltd.	507
Triodetic Ltd.	622
Unitherm Cemcon G.m.b.H.	810/812/814/816
Untha Shredding America	502
VEGA INDUSTRIES LTD	700
Ventmecca Fans	321
Vezer Industrial Professionals Inc	615
VIDMAR – Dosing Technologies & Process Automation	810/812/814/816
VIM Technologies	704
W.L. Gore & Associates	802/804
Wear-Concepts	311
WEG	627
Welding Alloys	101
World Cement Magazine	806
WSP USA	701
ZAP Engineering & Construction Services	725
ZKG Cement Lime Gypsum	227

CALL FOR PAPERS

Sustainable Strength through Innovation



Denver, Colorado • April 28th - May 2nd

2024 Call for Papers

Papers are now requested for the 66th annual IEEE-IAS/PCA Cement Industry Technical Conference to be held in the Spring of 2024.

The papers should be on topics related to the practical application of electrical technology, standards, equipment, safety, and systems of interest in cement industry within the scope of the Cement Industry Committee Working Groups.

All papers presented are subject to peer review and are published in the conference record. Papers are also evaluated for publication in either the *IEEE Transactions on Industry Applications Magazine* or the *Industry Applications Magazine*.

At least one author must register and attend the conference to present their paper. If you are interested in presenting a paper please submit an abstract of 200 words or less to one of the following Working Group Chairs for consideration (You need JavaScript enabled):

Abstracts must be received prior to May 1, 2023 to be considered for the for the 2024 conference.

CIC Vice Chair:

Brian Keefe
brian.keefe@bridgegapengineering.com

Automation:

Alan Simmons
asimmons@calportland.com

Drives and Related Products:

Ashok Amin
ashok.amin@boschrexroth-us.com

Environmental, Energy and Sustainability:

Matt Devitt
mdevitt@ldxsolutions.com

General Practices:

ZK Zarif
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Maintenance & Safety:

Tom Burgess
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Power Generation, Distribution and Related Products:

Steve Tyrrell
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AND REACH NEW HEIGHTS

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2024



IEEE-IAS/PCA CEMENT CONFERENCE

Denver, Colorado • April 28th - May 2nd

- Stay current with cement industry regulations and technologies.
- Access unmatched depth of industry experience.
- All of your vendors and industry experts under one roof!



More Information at CementConference.org

