

# CONFERENCE PROGRAM



**2012 IEEE-IAS PCA  
San Antonio, TX  
54th Cement Industry  
Technical Conference  
May 13-17, 2012**



**Portland  
Cement  
Association**

54th IEEE-IAS PCA Cement Industry Technical Conference



*Above: Cemex, Balcones Plant  
On the Cover: TXI, Hunter Plant*

## **Welcome to San Antonio, deep in the heart of Texas!**

The Local Organizing Committee is once again providing you the premier technical event in our industry.

This year's conference provides a combination of the most timely technical content, exciting exhibits and great plant tours, all at a world class venue. You will find that this year's conference format is incorporating changes based on critical industry needs and your valuable feedback.

Please take the opportunity to visit the Exhibit hall during the new extended hours. This is your chance to see all of the industry vendors, the best of the best, in one location.

Technical content covering key issues that address current industry challenges will be presented through workshops, tutorials and technical papers.



Your plant hosts TXI-Hunter and Cemex- Balcones have organized tours of their operations along with a special lunch stop at charming Gruene Hall, the oldest dance hall in Texas.

The San Antonio local organizing committee invites you to take advantage of the industry's most valuable educational opportunity while enjoying the Hill Country of lovely San Antonio, Texas.

Sincerely,

Corinne Fields  
2012 Committee Chair



# WELCOME



## STATE OF TEXAS OFFICE OF THE GOVERNOR

### Greetings:

As Governor of Texas, it is my pleasure to welcome you all to Texas for the 54th Annual IEEE-IAS/PCA Cement Conference. As members of the leading professional association for the advancement of cement technology, you will certainly appreciate the opportunity to tour two outstanding examples of modern and efficient manufacturing: the TXI Hunter Plant and the CEMEX USA Balcones Plant.

And while you are here, please explore everything that San Antonio and the surrounding Hill Country have to offer. From popular landmarks like the Alamo and River Walk, to fine dining and professional sports, to beautiful natural scenery, this diverse area has something for everyone to enjoy.

I wish you another successful year and commend you for your efforts on behalf of the cement manufacturing industry, a critical part of economic vitality for our state and our country.

First Lady Anita Perry joins me in sending best wishes for a wonderful conference.

Sincerely,

A handwritten signature in black ink that reads "Rick Perry".

Rick Perry  
Governor

# WELCOME



**CITY OF SAN ANTONIO**

**JULIÁN CASTRO**

**MAYOR**

**Welcome  
¡Bienvenidos!**

As the Mayor of the seventh-largest city in the nation and on behalf of my colleagues and the citizens of San Antonio, I am pleased and honored to provide greetings to everyone attending the 2012 IEEE-IAS / PCA Cement Industry Technical Conference. San Antonio is delighted to host your conference May 13 -17, 2012.

Famed for the River Walk and the Alamo, you'll soon find that San Antonio has much more to offer. Our brand - Deep. In the Heart. - is built upon San Antonio's passion and pride for our diverse cultures, history, events, cuisine and southern hospitality. Our people embody the spirit of friendliness and it is our promise that you will find an authentic and unique experience around every bend in the river or street corner.

While you are here for business, please take time to enjoy the various sights and sounds that draw over 26 million visitors annually to San Antonio. I hope you have a memorable stay and a productive conference.

Thanks to each of you for your visit and please plan to return.

**Sincerely,**

A blue ink signature of Julián Castro, written in a cursive style.

**JULIÁN CASTRO**

**MAYOR**

# GENERAL CONFERENCE NOTES

## Conference Registration

Conference Registration is located adjacent to Grand Oaks Ballroom, 2nd level (near the two escalators).

Registration will be open:

Sunday May 13, 12:00 pm - 5:00 pm

Monday, May 14, 8:00 am - 5:00 pm

Tuesday, May 15, 7:00 am - 5:00 pm

Wednesday, May 16, 8:00 am - 1:00 pm

The full conference registration fee includes a single copy of the Conference Record (DVD format), the tutorials, the conference luncheons on Tuesday and Wednesday, Exhibits, Awards Reception and Banquet, and Plant Tours. Spouse registration allows for attendance to all the scheduled events with an accompanying full conference registrant for participants in the Technical Program. Full Registration in the Spouse Program or Full Conference Registration allows for participation in any Spouse Program Activity. Spouse Tour activities must be registered separately.

## Technical Sessions

All conference technical sessions will be held on Level 2 of the JW Marriott. All Tuesday sessions take place in the Grand Oaks Ballroom, Salon G-J. Sessions on Wednesday will take place in the Grand Oaks Ballroom, Salon G-J and the Grand Oaks Salon L,P,Q, and M,R,S. Everyone must have a conference badge for entry.

## General Reception and Awards Banquet

The Banquet reception will be held in the lobby of the Cibolo Ballroom. The Banquet will be held in the Cibolo Ballroom.

## Photos

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

## SCHEDULE

### Sunday, May 13, 2012

7:00am - 8:00am	IEEE-IAS CIC Working Group Chairs Breakfast (closed)	Indian Paintbrush
8:00am - 9:00am	IEEE-IAS CIC Nominations Committee Meeting (closed)	Indian Paintbrush
9:00am - 12:00pm	IEEE-IAS CIC Executive Committee Meeting (closed)	Indian Paintbrush
11:00am - 12:00pm	IEEE-IAS CIC Conference Site Selection Committee Meeting (closed)	Goldenrod
12:00pm - 1:00pm	IEEE-IAS CIC Full Committee Luncheon (closed) Event Lawn 1 (Rain: Sunflower/Wisteria)	
12:00pm - 6:00pm	Conference Registration	
1:00pm - 5:00pm	IEEE-IAS CIC Full Committee Meeting (closed)	Grand Oaks
All Day	Speakers Ready Room	Alyssum
4:00pm - 7:00pm	Exhibit Hall Open	Exhibit Hall A, B, C Nelson Wolff
7:00pm - Midnight	Hospitality Suites	

# SCHEDULE

## Monday, May 14, 2012

8:00am - 5:00pm	Conference Registration
8:00am - 5:00pm	<b>Tutorials</b> <i>AUTOMATION: Wireless Technology for Cement Plant Applications</i> Grand Oaks Salon E
	<i>DRIVES: Variable Speed Drives-Types, Sizing, Selection: How to Implement into a Project</i> Grand Oaks Salon C
	<i>GENERAL PRACTICES: Grinding Technology: Technical Assessment and Advances in Vertical Roller Mill Projects</i> Grand Oaks Salon A,B
	 <i>POWER GENERATION: Analysis for the Design of Electrical Power Systems</i> Grand Oaks Salon D
	<i>MSHA Part 46 Annual Refresher Training</i> Grand Oaks Salon F
8:00am - 12:00pm	PCA Joint E&E/MTC/OHS Meeting (closed) Grand Oaks Salon N,O,P
12:00pm - 1:00pm	Lunch for Tutorial Participants and Joint Meeting Participants (closed) Cibolo Ballroom Salon 7
12:00pm - 1:00pm	Lunch for Speakers/Authors (closed) Cibolo Ballroom Salon 6
1:00pm - 5:30pm	Speaker/Author Practice Session Grand Oaks Salon G-J
1:00pm - 5:00pm	Meeting of the PCA Manufacturing Technical Committee (closed) Grand Oaks Salon N,O,P
1:00pm - 6:00pm	Exhibit Hall Open Nelson Wolff Exhibit Halls A,B,C
6:00pm - Midnight	Hospitality Suites



# SCHEDULE

## Tuesday, May 15, 2012

7:00am - 8:00am	Breakfast, sponsored by: ALAMO, San Antonio, TX CAPITOL AGGREGATES, INC, San Antonio, TX CEMEX, New Braunfels (Balcones), TX TEXAS LEHIGH, Buda, TX TXI, Hunter, TX  Cibolo Canyon Ballroom 5
7:00am - 5:00pm	Conference Registration
8:00am - 5:00pm	<b>Technical Sessions      Grand Oaks Salons G-J</b>  <b>Conference Opening by IEEE-IAS CIC Chair, Steve Coppinger</b> <b>Welcome Address by</b> <b>Conference Organizing Committee Chair, Corinne Fields</b> <b>Opening Remarks by IEEE-IAS CIC Vice Chair, Ted Richardson</b>
8:14am - 9:54am	State of the Industry viewpoints and forecasts from two leading economists, outlining both US Domestic and Global perspectives: Ed Sullivan, PCA Chief Economist, and Yassine Touahri, Vice President - Building Materials Exane BNP Paribas
9:54am - 10:15am	Break
10:20am - 10:38am	<i>A Fixed Bed Gas Remediation Solution for Mercury Control</i> John Knotts, Jeff Kolde, Chris Polizzi, Stephen Stark  Grand Oaks Salon G-J
10:38am - 10:56am	<i>Enhanced Capture of Mercury in Baghouse by Using Novel Filtration Media and Filter Design</i> Vishal Bansal, Robert W. Taylor, Pete Maly, Bryan Yetter  Grand Oaks Salon G-J
10:56am - 11:14am	<i>Energy Efficiency Improvement in the Cement Industry through Energy Management</i> Adriana J. González, Rosaura Castrillón, Enrique C. Quispe  Grand Oaks Salon G-J

## SCHEDULE

### ***Tuesday, May 15, 2012, cont'd.***

11:14am - 11:32am	<i>New Trends for Intelligent Motor Control Centers</i> Terry Schiazza, Fabio Meilli Grand Oaks Salon G-J
11:32am - 11:48am	Question and Answer
11:30am - 1:30pm	Exhibit Hall Open Nelson Wolff Exhibit Hall A,B,C
11:50am - 1:15pm	Lunch in Exhibit Hall Nelson Wolff Exhibit Hall A,B,C
1:20pm - 1:38pm	<i>Low-Carbon Content Cement with Waste Oil-Cracking Catalyst Incorporation</i> Carla Costa, Paulo Marques Grand Oaks Salon G-J
1:38pm - 1:56pm	<i>A Review of Energy Efficiency and CO<sub>2</sub> Emission in the US Cement Industry</i> Mohammad Rahim Vaseghi, Ali Amiri, Alireza Persaran Grand Oaks Salon G-J
1:56pm - 2:14pm	<i>Cement and CO<sub>2</sub>, A Victim of Success</i> John Kline, Laurent Barcelo Grand Oaks Salon G-J
2:14pm - 2:32pm	<i>Continuous On-Line Partial Discharge Monitoring of Medium Voltage Sub-Stations</i> Joel Benzing, Igor Blokhintsev, Calvin L. Patterson, Armin H. Loesch, Brian J. Cassidy Grand Oaks Salon G-J
2:32pm - 2:48pm	Question and Answer
2:48pm - 3:08pm	Break Outside Grand Oaks Salon G-J
3:08pm - 3:26pm	<i>Quality of Clinker Related to Preheater Performance</i> Pedro Montes de Oca Grand Oaks Salon G-J

## SCHEDULE

### ***Tuesday, May 15, 2012, cont'd.***

3:26pm - 3:44pm	<i>Processes for Activation and Manufacturing of Supplementary Cementitious Materials</i> James Ballan, Peter Paone Grand Oaks Salon G-J
3:44pm - 3:52pm	Question and Answer
3:52pm - 5:15pm	<b>PCA Environmental Workshop</b> Grand Oaks Salon G-J
3:58pm - 4:16 pm	<i>CEMs Survey Results of the PCA Environmental Technology Subcommittee</i> Kevin Kelley
4:16pm - 4:34 pm	<i>NESHAP Control Technology Survey Results of the PCA Environmental Technology Subcommittee</i> Scott Nielson
4:34pm - 4:54 pm	<i>NESHAP Update</i> Andy O'Hare Satish Sheth
4:54pm - 5:13 pm	<i>NHSM/CISWI</i> Trinity Consultants
5:13pm	Closing Remarks
5:00pm - 7:00pm	Exhibit Reception Nelson Wolff Exhibit Hall A,B,C
7:00pm - Midnight	Hospitality Suites

## SCHEDULE

### Wednesday, May 16, 2012

8:00am - 1:00pm	Conference Registration	
8:00am	Welcome Intro to Today's Sessions	Grand Oaks Salon G-J
8:05am	Intro to Plant Tours	Grand Oaks Salon G-J
8:08am - 8:24am	Plant Tour No.1 - TXI Hunter	
8:24am - 8:40am	Plant Tour No.2 - Cemex Balcones	
8:40am - 9:00am	Dr. Franz Ulm, George Macomber Professor, Civil and Environmental Engineering Dept., Massachusetts Institute of Technology <i>Quantum Concrete: Results from MIT's Concrete Sustainability Hub</i>	
9:00am - 9:27am	Aris Papadopoulos, CEO Titan America, LLC PCA Board Chairman's Address	
9:27am - 9:47am	Break	Outside Grand Oaks

**Schedule continues on page 14 with  
concurrent technical sessions**

## NOTES



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# SCHEDULE

## Wednesday, May 16, 2012, cont'd.

9:47am	<b>Technical Sessions-Introduction</b> <b>Grand Oaks Salon L,P,Q</b>
9:52am - 10:10am	<i>Comparing International Standards to North American Standards for Large Adjustable Speed Drives</i> Manish Verma, Douglas Phares, Bill Horvath, Nathan Rodgers
10:10am - 10:28am	<i>A Seminal Advance in Vertical Mill Design by an Integrated Drive Train</i> Dr. Bernhard Langenbeck
10:28am - 10:46am	<i>VFD Control Methodologies in High Pressure Grinding Drive Systems</i> Brent Jones
10:46am - 10:58am	Question and Answer
10:58am - 12:14pm	<i>General Practices Panel Discussion: Vertical Roller Mill for Clinker Grinding</i> John Terembula Dr. York Reichardt Matthias Mersmann Dr. Thomas Schmitz Hans J. Nielsen
12:15pm - 1:30pm	Lunch      Event Lawn 1 (sun), Salon 5,6 (rain)
1:30pm - 3:07pm	<b>EE&amp;S Sustainability Workshop</b> <i>Sustainability through Non-Traditional Innovation</i> Pliny Fisk  <i>Development and objectives of the "Mission Verde" program for sustainability in San Antonio</i> Bill Barker, Office of Environmental Policy, City of San Antonio  <i>MIT - The academia view of sustainability.</i> Franz-Josef Ulm  <i>Titan - Industry approach to stake-holder involvement</i> Cesar Constantino

**Continued, page 16**

## SCHEDULE

### Wednesday, May 16, 2012, cont'd.

9:47am	<b>Concurrent Technical Sessions-Introduction</b> <b>Grand Oaks Salon M,R,S</b>
9:52am - 10:10am	<i>Education And Training: Inculcating Human Capital as a Strategic Investment</i> Richard P. Bohan
10:10am - 10:28am	<i>Measuring the Right Maintenance Cost in a Cement Plant</i> Stéphane Rommens
10:28am - 10:46am	<i>Filter Diagnostics for Reducing Opacity</i> Robert W. Baxter, Derrick J. Hinkle
10:46am - 10:58am	Question and Answer
10:58am - 11:16am	<i>Cost Effective Energy Information System for Cement Manufacturers</i> Fabio Meilli
11:16am - 11:34am	<i>Power Factor Correction - A Fresh Look into Today's Electrical Systems</i> Christopher A. Heger, P.K. Sen, Anthony Morroni
11:34am - 11:52am	<i>Grounding Systems for the Cement Industry</i> John J. Stroker
11:52am - 12:14pm	Question and Answer
12:15pm - 1:30pm	Lunch      Event Lawn 1 (sun) Salon 5,6 (rain)
1:35pm - 1:52pm	<i>A Users Guide to Arc Resistant Low Voltage Switchgear and Motor Control Center - Analytical Comparison vs Flash Test Results</i> Gabriel Arce, Casey McCollum, John Jennings, Brian Radibratovic
1:53pm - 2:11pm	<i>Best Practices in Automation Security</i> Murray McKay
2:11pm - 2:29pm	<i>Innovative Measuring Technology on the Burner Cuts Operating Cost When Using Substitute Fuels</i> Jens Hundreiser
2:29pm - 2:47pm	<i>Control System Retrofits-The Network is the Key</i> Neal W. Biege, Jeffrey Kemmerer

**Continued, page 17**

## SCHEDULE

### Wednesday, May 16, 2012, cont'd.

#### Technical Sessions-continued

#### Grand Oaks Salon L,P,Q

3:07pm - 3:27pm	Break
3:32pm - 3:50pm	<i>Successful Integration of a Facility Wide Energy Management System in a Cement Plant</i> Hurchel R. Young, David B. Durocher, Bruce Newell
3:50pm - 4:08pm	<i>Mining for Energy Efficiency in Cement Plants: A Teamwork Approach</i> Richard Sperberg, Tim Ruegg
4:08pm - 4:26pm	<i>Energy Management And Efficiency - A Systems Approach</i> Bhaskar Dusi, Robert Schultz
4:26pm - 4:40pm	Question and Answer
4:40pm - 4:45pm	Closing Remarks

**Continued, page 18**



## SCHEDULE

**Wednesday, May 16, 2012, cont'd.**

### **Concurrent Technical Sessions-continued Grand Oaks Salon M,R,S**

3:07pm - 3:27pm	Break
3:32pm - 3:50pm	<i>Mitigation Development for the Reduction of Greenhouse Gas Emissions by the Cement Industry: Agrowaste-Based Green Building and Construction Materials</i> Dr. Shahid Kabir
3:50pm - 4:08pm	<i>A Systematic Approach to Increased Alternative Fuel Utilization</i> Peter Paone, Brian Stutsman
4:08pm - 4:26pm	<i>Plant Specific Energy Efficiency Modeling and Analysis of the Indian Cement Industry for Robust Policy Implementation</i> S.S. Krishnan, G. Ramakrishna, A. Murali Ramakrishnan, V. Venkatesh, P. Shyam Sunder
4:26pm - 4:40pm	Question and Answer
4:40pm - 4:45pm	Closing Remarks

**Continued, page 18**

## SCHEDULE

### ***Wednesday, May 16, 2012, cont'd.***

5:00pm - 6:00pm	IEEE-CIC Meeting (closed)	Grand Oaks Salon K
6:30pm - 7:30pm	Awards Reception	HC Foyer
7:30pm - 10:00pm	Awards Banquet	Cibolo Ballroom Salons 5-7
End of awards banquet to Midnight	Hospitality Suites	



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## PLANT TOUR SCHEDULE

### ***Thursday, May 17, 2011***

9:00am	Leave hotel
9:30am	Arrive TXI
11:00am	Leave TXI
11:15am	Arrive Gruene Hall for lunch
1:15pm	Leave Gruene
1:30pm	Arrive CEMEX
3:00pm	Leave CEMEX
3:30pm	Arrive Hotel



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***Absolutely no privately owned vehicles  
will be admitted to either plant***

## SPOUSE SCHEDULE

### Sunday, May 13, 2012

12:00pm - 5:00pm Registration

### Monday, May 14, 2012

8:00am - 9:00am Registration

7:30am - 8:30am Breakfast Event Lawn 1 (sun) / Salon 7 (rain)

9:00am - 3:00pm **Spouse Tour: Price of Freedom** – This itinerary includes a tour of the Alamo followed by the historical movie of the Alamo at the IMAX Theatre. The day will continue with a tour of the Menger Hotel, the “grand lady” of Alamo Plaza. Lunch will be at Aldeco’s in the Sunset Station complex followed by a visit to El Mercado.

### Tuesday, May 15, 2012

7:00am - 9:00am Registration

7:30am - 8:30am Breakfast Event Lawn 1 (sun) / Salon 7 (rain)

9:15am - 3:00pm **Spouse Tour: Grand Gardens** - This itinerary includes the San Antonio Botanical Gardens, the Lucile Halsell Conservatory, and the Native Texas Trail. Lunch will be at The Barn Door followed by a visit to the Japanese Tea Gardens.

### Wednesday, May 16, 2012

7:30am - 8:30am Breakfast Event Lawn 1 (sun) / Salon 7 (rain)

9:00am - 3:00pm **Spouse Tour: Shopping in Gruene, Texas,** a small Texas town founded in the mid-1800’s. Gruene (pronounced “Green”) offers the opportunity to shop for everything from antiques and regional wines, to pottery and fly tackle. Lunch will be at the Gristmill next to Gruene Hall where many famous music stars began their careers, including George Strait and Lyle Lovett. The hall has also been the site of numerous music videos, live recordings, album covers, and the John Travolta dance scene in the 1996 movie “Michael”.

## SPOUSE ACTIVITIES SPONSORS

Abresist Kalenborn Corp.  
Airstream – Logequip  
Bedeschi America, Inc.  
Bosch Rexruth Corp. / Hagglunds  
Capitol Aggregates Inc.  
Cemex  
FLSmith Inc.  
GE Energy Air Filtration  
Gebr. Pfeiffer, Inc.  
Harbison-Walker Refractories Company  
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IKN USA, Inc.  
K&G Industrial Services  
KHD Humboldt Wedag  
Koppert Equipment, Inc.  
PMI Steel Pipe & Supply  
Polysius Corp.  
Process Solutions Canada Limited  
Refratechnik North America, Inc.  
Resco Products  
Rockwell Automation  
San Antonio Armature Works, Inc.  
Sentry Equipment Corp.  
Solios Environment Corp.  
Southern Refractories, Inc.  
TXI  
Vega Industries  
Zachry

## STUDENT SCHEDULE

### ***Sunday, May 13, 2012***

4:00pm - 6:00pm	Arrival and Conference Registration
7:00pm - 9:00pm	Opening Night Reception
9:00pm - 12:00am	Hospitality Suites (Optional)

### ***Monday, May 14, 2012***

9:00am	Leave Conference Center
9:35am - 9:45am	Arrive at Cemex-Balcones Plant
9:45am - 11:45am	Cement 101 Intro Presentation
11:45am - 12:15pm	Lunch
12:15pm - 1:15pm	Cemex-Balcones Plant Site Tour
1:15pm	Return Trip to Conference Center
2:00pm	Arrive Conference Center
4:00pm - 6:00pm	Exhibits
7:00pm - 12:00am	Hospitality Suites

### ***Tuesday, May 15, 2012***

8:00am - 12:00pm	Conference Opening Remarks
	Welcome Address
	Economic Update – Ed Sullivan
	Technical Papers (Optional)

## NOTES



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## HOSPITALITY SUITES

### Hospitality Suite Hours:

Sunday: 7:00pm – midnight

Monday: 6:00pm – midnight

Tuesday: 7:00pm – midnight

Wednesday: end of awards banquet - midnight

Company	Room	Dates
Southern Welding	Room 7174	Mon, Tues
TECO-Westinghouse	Room 7214	Sun, Mon, Tues
IKN & Magotteaux	Room 2174	Mon, Tues, Wed
Siemens Industry, Inc.	Room 3152	Mon, Tues
Loesche Americas Inc.	Room 3105	Mon, Tues, Wed
Donaldson Membranes	Room 3125	Mon, Tues
Norit Americas Inc.	Room 2355	Tues
Martin Engineering	Room 2135	Sun, Mon
Rockwell Automation & Endress + Hauser	Room 2143	Sun, Mon, Tues
BEUMER Group	Room 2151	Sun, Mon, Tues

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## NOTES



## CONFERENCE HISTORY

<b>Year</b>	<b>Location</b>	<b>National Chair</b>	<b>Committee Chair</b>	<b>Reg.</b>
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. Messenger	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

## CONFERENCE HISTORY

<b>Year</b>	<b>Location</b>	<b>National Chair</b>	<b>Committee Chair</b>	<b>Reg.</b>
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
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	1022
2012	San Antonio, TX	S. Coppinger	C. Fields	

# 2012 SAN ANTONIO COMMITTEE

## Chair

Corinne Fields  
GE Energy-Air Filtration

## Promotion - Latin America

Jonathan Forinton  
A TEC-America

## Vice Chair

Clifton Stapleton  
TXI

## Publications

Al Wall  
FLSmidth Inc

## Secretary

Max Frailey  
Capitol Aggregates, Inc.

## Marketing

Mike Sebasto  
FLSmidth Inc

## Treasurer

Laura Nedli  
Portland Cement Association

## Registration

Bob Kniss  
Southern California Edison

## Spouse Activity

Penny Stapleton

## Facilities

Kristi Tarantino  
Portland Cement Association

## Exhibits

Jeff Nagel  
Resco Products, Inc.

## PCA Liaison

Rick Bohan  
Portland Cement Association

## Scheduling

Harald Walter  
Refratechnik North America

## CIC Liaison

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Solios Environment Corp.

## Hospitality

Marc Wurman  
Wear Solutions

## Advisor

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Mitsubishi Cement

## Plant Tours

Jimmy Rabon  
Cemex

## Student Outreach

Tom Hershberger  
Capitol Aggregates, Inc.

Tracy Crowther  
TXI

## Special Projects

Bruce Chamrad  
Zachry Holdings, Inc.

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Suwanee American Cement

Lana DeLeon  
TECO-Westinghouse

## NOTES



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Ted Richardson, Vice Chair  
Max Frailey, Secretary  
Rod Simmons, Past Chair  
Lars Hansen, Conference Liaison  
Satish H. Sheth, PCA Liaison  
John Sommers, Nominating Committee Chair  
Richard Bohan, PCA Representative  
Ed Buehler, ByLaws and Historian/Past Chair  
Chris Macey, Past Chair  
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Mark Mueller, Member  
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John Kline, Member  
Derek Nicholls, Member

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Mary J Lewis, Eaton  
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Edward Papa, Cemtech Corp.

Richard J. Schmidt, ALSTOM Power - Raymond Operations

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Roger Smith, Salt River Materials Group

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Corinne Fields, GE Energy-Air Filtration

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Frank Sheets, Strategic Partners Group

Stephen Tyrrell, Laron, Inc.

Richard Woltil, Mitsubishi Cement

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# PORTLAND CEMENT ASSOCIATION

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Co-Chair: John Kline, Lafarge North America

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Co-Chair: Jeff Kemmerer, FLSmidth Inc.

## **Pyroprocessing Subcommittee**

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Andy Winston, GE Energy

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Ty Wilson, PCA

## **Liaison to Health and Safety Committee**

Tom Harman, PCA

## **Environmental Technology Subcommittee**

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Co-Chair: John Kline, Lafarge North America

## EXHIBITORS

All exhibits are located in the Nelson Wolff Exhibit Ballroom. A conference badge is necessary for entry into the exhibit hall.

### Hours of Exhibition:

Sunday, May 13: 4pm - 7pm

Monday, May 14: 1pm - 6pm

Tuesday, May 15: 11:30am - 1:30pm and 5pm - 7pm

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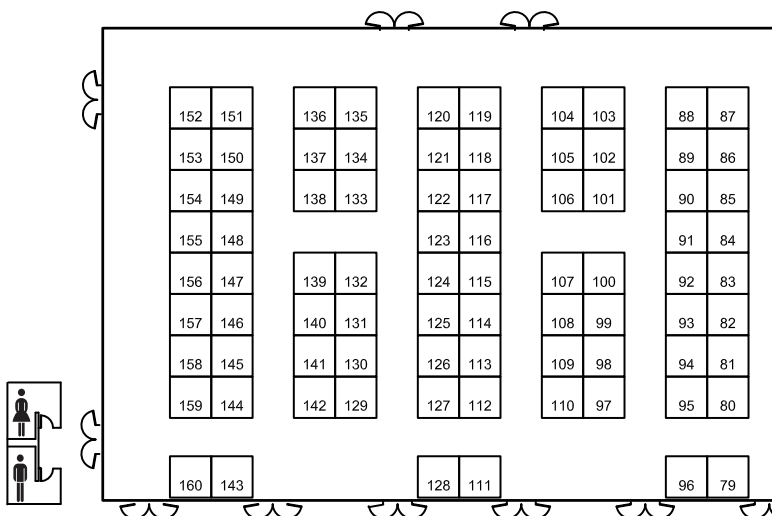
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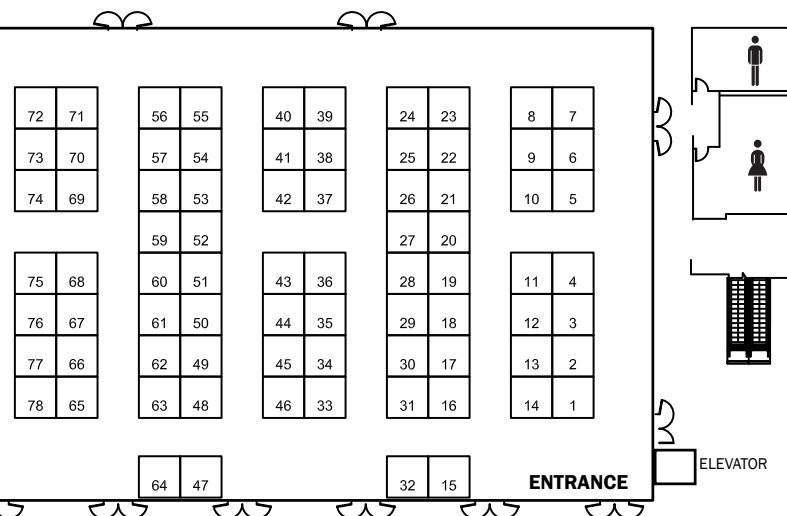
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3. Rivertop Grill
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5. Replenish Spa Bistro
6. Crooked Branch Lobby Bar
7. Starbucks

8. River Bluff Water Experience
9. AT&T Canyons Course
10. AT&T Oaks Course
11. 24-Hour Fitness Center
12. Gift Shops



## EXTERIOR MAP

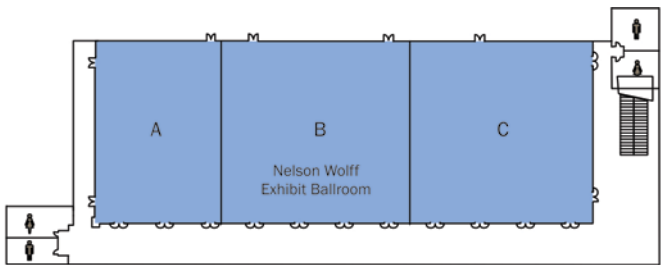


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- 17. Business Center

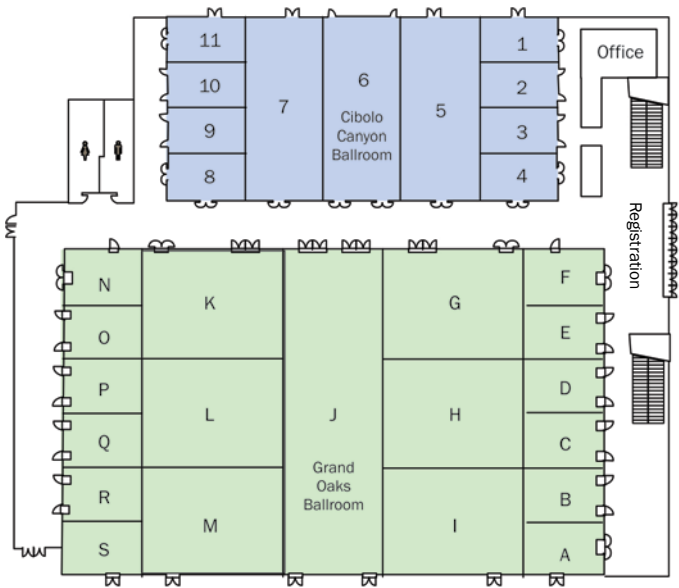
**JW MARRIOTT.**  
SAN ANTONIO  
HILL COUNTRY



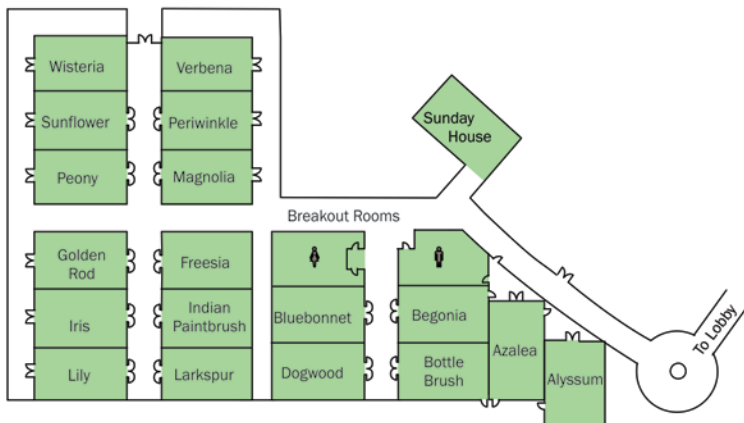
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**Level 1**



**Level 2**



**Level 3**



2013



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