



AMERICAN CERAMIC SOCIETY

St. Louis Section
and the
Refractory Ceramics Division

Fifty-fourth Annual Symposium

on

Refractories

March 21-22, 2018

Hilton St. Louis Airport Hotel

Theme:

“Refractories for the Cement, Glass, and Minerals Manufacturing Industry”

PROGRAM

“Refractories for the Cement, Glass, and Minerals Manufacturing Industry”

March 20th, 2018

5:00 P.M. Kickoff Event – 99 Hops House – Hollywood Casino

March 21st, 2018

7:15 A.M. Registration and Coffee

8:00 Morning Technical Sessions
Welcome and Introductions

St. Louis Section Vice Chairman

Chris Perry

Christy Refractories

Refractory Ceramics Division Chair

Matt Lambert

Allied Mineral Products

Co-Program Coordinators

Andrew Domann

Bucher Emhart Glass

Steven Ashlock

Kyanite Mining Corporation

8:15 How to Deal with Alkalis Infiltration in Mag-Spinel Bricks Used in Cement Rotary Kilns
Daniela Mancini Fonseca, Eduardo Márcio Reis & Graziella Rajão Cotz Pacheco – Magnesita Refractories S.A.

8:45 Moisture Pick Up and Strength of Hydraulically Bonded Pre-Cast Shapes
Dale Zacherl – Almatiss, Inc. USA
Dagmar Schmidtmeier & Andreas Buhr – Almatiss GmbH, Germany
Brunhilde Franz – RHI Urmitz AG & Co. KG, Germany
Milos Michael Blajs – RHI Refractories Technology Center, Austria
Jerry Dutton – United Kingdom

9:15 Update on Use of Spherical Particles in NCC
Bjørn Myhre & Hong Peng – Elkem Silicon Materials, Norway

9:45 Coffee Break

10:15 Failure Analysis Studies in Cement Kiln Zones
Dana Goski – Allied Mineral Products

10:45 Minerals in the Glass Industry
Craig Carmody – Glass Technology

11:15 Critical Factors Affecting the Performance of Refractory Repair Materials and the Influence of Calcium-Aluminates on These Factors
Josh Pelletier – Kerneos, Inc.

11:45-1:00 Luncheon Banquet

Afternoon Session

- 1:00-1:45 Presentation of the T.J. Planje St. Louis Refractories Award to **Nancy E. Bunt – Kerneos Aluminate Technologies**
- 2:00 Automated Rotary Drum Furnace for Testing Refractories for Cement Rotary Kiln Applications
Peter Quirnbach – Deutsches Institut fuer Feuerfest und Keramik, Germany
Ralf Simmat & Christian Dannert – Forschungsgemeinschaft Feuerfest e.V., Germany
- 2:30 Coffee Break
- 3:00 The Glass Formation Boundary in Silicate Systems: Potential to Predict Corrosion Products
William M. Carty & Hyojin Lee – New York State College of Ceramics at Alfred University
Tom Lam – Smithsonian Institute
- 3:30 Cement and Lime Kiln Rings and Refractory Strategies to Combat Them
James G. Hemrick & John L. Waters – Reno Refractories, Inc.
- 4:00 Development of an Optimized Set for Application on Burner Pipes
A.G.S. Mangualde, V.G. Domiciano, M.A.M. Brito, R.S. Lara & M.G. Oliveira – Magnesita S&D, Brazil
- 4:30 Questions & Discussion
Co-Program Coordinator
- 4:45 RCD Annual Members Meeting
- 5:00 Closing Remarks
Chris Perry
Christy Refractories
Matt Lambert
Allied Mineral Products
- 5:00-7:00 Exposition and Cocktail Hour
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|------------------------------|--------------------------------------|
| Almatis | Kerneos, Inc. |
| Alteo NA | Kyanite Mining Corp. |
| AluChem | Norchem-Ferroglobe |
| American Ceramic Society | Materials Technology Innovation, LLC |
| BassTech International | Orton Ceramic Foundation |
| Blastcrete Equipment Company | Palmetto Industries |
| Calucem, Inc. | Possehl Erzkontor N.A. |
| Christy Minerals | R-E-D Industrial Products |
| DIFK GmbH, Germany | Refractory Minerals |
| Elkem Materials, Inc. | TAM Ceramics |
| FX Minerals | Washington Mills |
| Great Lakes Minerals | ZIRCAR Ceramics, Inc. |
| Gorka Cement SP Z O.O. | |
| Imerys Refractory Minerals | |
| Ingredient Masters | |
| Iwatani Corp of America | |
- 7:00 Dinner Buffet

March 22nd, 2018

6:30 A.M. Refractory Ceramics Division (RCD) Breakfast Meeting

8:15 Morning Technical Sessions
Welcome and Introductions

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Matt Lambert

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Co-Program Coordinators

Andrew Domann

Bucher Emhart Glass

Steven Ashlock

Kyanite Mining Corporation

8:30 Trends and Challenges on Raw Materials for Refractories
A. Platzer, D. Frulli & S. Graddick – Imerys Refractory Minerals

9:00 Classical vs Modern Refractoriness Test Methods for Fireclay Brick
Glenn McIntyre – HarbisonWalker International

9:30 Refractory Challenges in Glass Melting
Ruth Engel – Refractory Consulting Services

10:00 Coffee Break

10:30 Cold Setting Phosphate Bonded Castables for Repairs
S.L.C. Silva, A.M. Correa, A. Mangualde & M.A.M. Brito – Magnesita R&D, Brazil

11:00 Comparing Bonding Systems used in Preheat Tower Shotcrete Mixes
Gus Hughes – Mt. Savage Specialty Refractories

11:30 Determining the Water Content for Castable Slump Using Specific Volume Diagram Approach
William M. Carty, Hyojin Lee, Martin Monk, Josh Onofrio & Greg Pomarico – New York State College of Ceramics at Alfred University

12:00 Questions & Discussion
Co-Program Coordinator

Closing Remarks

Chris Perry

Christy Refractories

Matt Lambert

Allied Mineral Products

12:30 St. Louis Section Officer Business Meeting