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 – Almatis, Inc. USA
     Dagmar Schmidtmeyer & Andreas Buhr – Almatis GmbH, Germany
     Brunnhilde Franz – RHI Urmitz AG & Co. KG, Germany
     Miilos Michael Biajs – 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 Classical vs Modern Refractoriness Test Methods for Fireclay Brick
      Glenn McIntyre – HarbisonWalker International

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 Quirmbach – 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

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

Almatis
Alteo NA
AluChem
American Ceramic Society
BassTech International
Blastcrete Equipment Company
Calucem, Inc.
Christy Minerals
DIFK GmbH, Germany
Elkem Materials, Inc.
FX Minerals
Great Lakes Minerals
Gorka Cement SP Z O.O.
Imerys Refractory Minerals
Ingredient Masters
Iwatani Corp of America

Kerneos, Inc.
Kyanite Mining Corp.
Norchem-Ferroglbobe
Materials Technology Innovation, LLC
Orton Ceramic Foundation
Palmetto Industries
Possehl Erzkantor N.A.
R-E-D Industrial Products
Refractory Minerals
TAM Ceramics
Washington Mills
ZIRCAR Ceramics, Inc.

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

St. Louis Section Vice Chairman
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Christy Refractories

Refractory Ceramics Division Chair
Matt Lambert
Allied Mineral Products

Co-Program Coordinators
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Bucher Emhart Glass
Steven Ashlock
Kyanite Mining Corporation

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

9:00  Failure Analysis Studies in Cement Kiln Zones
Dana Goski – Allied Mineral Products

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