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
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 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-Ferroglobe
Materials Technology Innovation, LLC
Orton Ceramic Foundation
Palmetto Industries
Possehl Erzkontor N.A.
R-E-D Industrial Products
Refractory Minerals
TAM Ceramics
Washington Mills
ZIRCAR Ceramics, Inc.

7:00 Dinner Buffet
6:30 A.M. Refractory Ceramics Division (RCD) Breakfast Meeting

8:15 Morning Technical Sessions
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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. Manguelde & 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