

DRAFT - PROGRAM

“Refractory Sustainability”

March 28th, 2023

5:00 P.M. Kickoff Event – Topgolf Chesterfield, MO - <https://topgolf.com/us/st-louis/>

March 29th, 2023

7:15 A.M. Registration and Coffee

8:00 Morning Technical Sessions
Welcome and Introductions

St. Louis Section Chairman

Zach Hall

AluChem of Little Rock

Refractory Ceramics Division Chair

Kelley Wilkerson

Missouri University of Science & Technology

Co-Program Coordinators

Alex Stansbery

Resco Products

John Waters

RHI Magnesita

Behzad Majidi

Pyrotek

8:15 “You’ll Never Walk Alone” – Fostering Partnerships for a Sustainable Future (**Keynote Address**)
Nancy Bunt – Imerys Refractory Abrasives and Construction

9:15 How Refractory and Insulating Solutions Contribute to a Sustainable World: An internal and external perspective
Anthony Williamson and Steve Chernack – Morgan Advanced Materials

9:45 Coffee Break

10:15 Carbon Emission Reduction by Refractory Recycling and Sustainable Production Methods of Refractories
William Headrick and Mario Lopez – RHI Magnesita

10:45 The Time has Come for Refractory Sustainability
Ruth Engel – Refractory Consulting Services

11:15 Mission NeutrAL: A Sustainable Commitment
Andus Buhr – Almatris GmbH, Germany

11:45-1:00 Luncheon Banquet

Afternoon Session

- 1:00-1:45 Presentation of the T.J. Planje St. Louis Refractories Award to **Dave Tucker, Quality Manager - IMERYS Refractory Minerals USA, Inc.**
- 2:00 Embodied Energy Based Approach for Recycling of Basic Refractories
Jake Kerr - Missouri University of Science & Technology
- 2:30 Coffee Break
- 3:00 Geopolymer Refractory System for Molten Salt Thermal Storage Tanks
Dr. Youyang Zhao and Emma Wagstaff – NREL Golden CO
Tunahan Aytas and Dr. Elsa Olivetti - MIT
Thomas R. Viverito - Morgan Advanced Materials
- 3:30 **Invited Paper – 2020 Alfred W. Allen Award Winner**
Functional Porosity in Composite Ceramics for Refractory and Thermal Processing Applications
Stefan Schafföner, Georg Puchas, Lukas Wagner – University of Bayreuth, Germany
Wen Yan, Chen Zhe, Yajie Dai, Qiang Wang, Guangqiang Li – Wuhan University of Science & Technology, China
- 4:30 Questions & Discussion
Co-Program Coordinator
- 4:45 RCD Annual Members Meeting
- 5:00 Closing Remarks
Zach Hall
AluChem of Little Rock
Kelley Wilkerson
Missouri University of Science & Technology
- 5:00-7:00 Exposition and Cocktail Hour
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|-------------------------------------|---------------------------|
| Almatis, Inc. | Possehl Erzkontor N.A |
| Alteo-Alumina | R-E-D Industrial Products |
| AluChem | TAM Ceramics |
| Anton-Paar | US Electrofused Minerals |
| BassTech International | Washington Mills |
| Betterson Instruments | Zircar Zirconia, Inc. |
| Christy Minerals | |
| Edward Orton Jr. Ceramic Foundation | |
| First Bauxite | |
| FIVEN AS | |
| Gorka Cement | |
| Great Lakes Minerals, LLC | |
| Imerys | |
| Kyanite Mining Corp. | |
- 7:00 Dinner Buffet

March 30th, 2023

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

8:15 Morning Technical Sessions
Welcome and Introductions

St. Louis Section Chairman

Zach Hall

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Pyrotek

8:30 Optimization of a Calcium Aluminate Castable with Recycled Alumina Matrix
George Gower - Refractory Mineral Inc.

9:00 The Characterization of Particle Size Distributions with Two-Parameter Models
William Carty, Hyojin Lee, and Mark Ciccarella - New York State College of Ceramics at Alfred University

9:30 A Technical Framework for Managing Refractory Raw Material Aggregates
Glenn McIntyre - HarbisonWalker International

10:30 Coffee Break

11:00 The Effect of Different Grades of Mulcoa Aggregate on the Hot Properties of Refractory Castables
William L. Headrick, John Waters and Livia Lanna – RHI Magnesita
Scot Graddick, David Tucker and Chunfeng Liu - Imerys

11:30 Industrial Waste to Value in the Circular Economy
Paul Ormond – Evergreen Alumina

12:00 Questions & Discussion
Co-Program Coordinator

Zach Hall

AluChem of Little Rock

Kelley Wilkerson

Missouri University of Science & Technology

12:30 St. Louis Section Officer Business Meeting