

AMERICAN CERAMIC SOCIETY

St. Louis Section

and the

Refractory Ceramics Division

Fifty-fifth Annual Symposium

on

Refractories

March 27-28, 2019

Hilton St. Louis Airport Hotel

Theme:

"Shaped Refractories"

DRAFT - PROGRAM

"Shaped Refractories"

March 26th, 2019

5:00 P.M. Kickoff Event – Westport Social

March 27th, 2019

7:15 A.M. Registration and Coffee

8:00 Morning Technical Sessions

Welcome and Introductions

ACerS President

Sylvia Johnson

St. Louis Section Chairman

Chris Perry

Christy Refractories

Refractory Ceramics Division Chair

Simon Leiderman

Shinagawa Advanced Materials

Co-Program Coordinators

Beau Billet

Edward Orton Jr. Ceramic Foundation

Dawn Hill

Xertech Specialties, LLC

8:30 An Overview of Ceramic Forming Processes

William M. Carty - New York State College of Ceramics Alfred University

9:00 Engineering Resilience with Precast Refractory

Dana Goski and Matthew Lambert - Allied Mineral Products, Inc.

9:30 Ideal Casting Procedures for Optimal Precast Shape Refractories

William L. Headrick Jr. – Missouri Refractories Company, Inc. (MORCO)

Dale Zacherl - Almatis, Inc., USA

Andreas Buhr - Almatis GmbH, Germany

10:00 Coffee Break

10:30 A Study of Controlled Drying of Refractory Castable Shapes

James G. Hemrick and John L. Waters – Reno Refractories, Inc.

11:00 Comparison of Cement- and Hydratable Alumina-Bonded Alumina-Spinel Materials for Steel

Ladle Purging Plugs

Dale Zacherl - Almatis, Inc.

11:30 Fused Cast Refractories – the World's First Pre-Cast Shapes

Eric Hanson - Monofrax

12:00-1:15 Luncheon Banquet

Afternoon Session

7:00

Dinner Buffet

1:15-2:00	Presentation of the T.J. Planje St. Louis Refractories Award to <i>Dr. Dana G. Goski, PhD., Vice President, Research and Development – Allied Mineral Products, Inc.</i>				
2:15	Non-Destructive Testing to Determine Internal Defects in Shaped Refractories Thomas R. Viverito – Morgan Advanced Materials				
2:45	Coffee Break				
3:15	The History of Refractory Bricks in Missouri Shannon Jaeger, Kelley Wilkerson and Jeffrey D. Smith – Missouri University of Science & Technology				
3:45	Thermally Induced Distinct Materials Behavior of Andalusite Bricks Hartmut Koerber, Yannick Hemberger and Peter Quirmbach – Deutsches Institut fuer Feuerfest und Keramik GmbH, Germany				
4:15	ACerS PCSA Overview Somnath Mandal – University of California, Irvine				
4:30	Questions & Discussion Co-Program Coordinator				
4:45	RCD Annual Members Meeting				
5:00	Closing Remarks Chris Perry Christy Refractories Simon Leiderman Shinagawa Advanced Materials				
5:00-7:00	Exposition and Cocktail Hour				
	Almatis, Inc. Alteo NA, LLC AluChem, Inc. American Ceramic Society BassTech International Bettersize Instruments Blastcrete Equipment, LLC Christy Minerals DiFK GmbH, Germany Electro Abrasives Elkem Materials, Inc. FX Minerals Gorka Cement Great Lakes Minerals, LLC Hindalco/GBL	IMERYS Aluminates Ingredient Masters, Inc. Kyanite Mining Corp. Monofrax Norchem, Inc Ferroglobe Orton Ceramic Foundation Possehl Erzkontor N.A. R-E-D Industrial Products Refractory Minerals Co., Inc. TAM Ceramics Washington Mills ZIRCAR Ceramics, Inc.			

March 28th, 2019

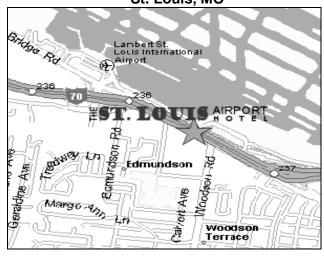
6:30 A.M.	Refractory Ceramics Division (RCD) Breakfast Meeting			
8:15	Morning Technical Sessions Welcome and Introductions			
	St. Louis Section Chairman Chris Perry Christy Refractories Refractory Ceramics Division Chair Simon Leiderman Shinagawa Advanced Materials			
	Co-Program Coordinators Beau Billet Edward Orton Jr. Ceramic Foundation Dawn Hill Xertech Specialties, LLC			
8:30	Invited Paper – 2018 Alfred W. Allen Award Winner New Advances in the Laboratory Characterization of Refractories: Testing, Modelling and Industrial Applications Jacques Poirier - CNRS			
9:30	Thermomechanical Behavior and Slag Corrosion Mechanism of Spinel-Periclase-Zirconia Refractories for Ruhrstahl Heraeus Degasser Somnath Mandal – University of California, Irvine			
10:00	Coffee Break			
10:30	Phase Changes in Aluminum Phosphates Caused by Refractory Fabrication and Service James Bennett – National Energy Technology Laboratory, USDOE Anna Nakano and Jinichiro Nakano – National Energy Technology Lab, USDOE & AECOM Jack Widmer – National Energy Technology Lab, USDOE & ORISE			
11:00	Regional Influences in Aluminosilicate Refractory Raw Material Selection Scot Graddick, Chris Parr and Phil Edwards – Imerys Aluminates			
11:30	Processing of Magnesia Ceramic Shapes via Slip Casting Keith DeCarlo – Blasch Precision Ceramics William G. Carty - New York State College of Ceramics Alfred University			
12:00	Questions & Discussion Co-Program Coordinator			
	Chris Perry Christy Refractories Simon Leiderman Shinagawa Advanced Materials			
12:30	St. Louis Section Officer Business Meeting & Lunch			

REGISTRATION FORM

Please select:	1	METHOD OF PAYMENT						
☐ Pre-Registration Fee (Deadline March 20) \$225.00			CHARGE MY CARD: \$					
☐ On-Site Registration Fee \$275.00		┢		<u> </u>				
☐ Emeritus/Senior Fee	\$125.00		MC:	VISA:	AMEX:		DISCOVER:	
☐ Student Fee \$50.00			CC#:					
☐ Exhibitor for Exposition (Table Top) \$300.00 (Exhibitor cost does not include registration fee)			EXP:			C'	VV:	
□ Need Electricity			NAME ON CARD:					
☐ Lunch - ☐ Chicken ☐ Fish ☐ Pasta/Vegetarian			SIGNATURE:					
☐ Dinner Buffet			ADDRESS:					
☐ Guest for Dinner	\$40.00	L	ZIP CODE for	CC:				
(Fill in below)			Company or Personal Check in U.S. Dollars (Make checks payable to: St. Louis Section) Send To: Patty Smith Missouri S&T 105 Straumanis-James Hall 401 W. 16 th St. Rolla, MO 65409 Tel (573) 341-6265 Fax (573) 341-2071 Email: psmith@mst.edu NOTE: Dress Attire – Semi Casual (Tie Optional)					
NAME:								
NAME ON BADGE:								
COMPANY:								
ADDRESS:								
CITY/STATE/ZIP:								
EMAIL:								
TEL/FAX:			NOIL. DIE	:33 AUII 6 - 3	Jeiii Gasu	iai	(rie Optional)	
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LOCATION

Hilton St. Louis Airport Hotel 10330 Natural Bridge Road St. Louis, MO



A block of rooms has been set aside at the Hilton St. Louis Airport Hotel in St. Louis, MO for this meeting. Please refer to **Group Code ACS** at the Hilton when reserving a room for which the rate is \$113.00 single/double per night or you can reserve online.

Reservations must be made before March 7, 2019

HOTEL ACCOMMODATIONS

Hilton Hotel (*March 7, 2019*) (314) 426-5500

The web page address is:

https://secure3.hilton.com/en_US/hi/reservation/book.htm?inputModule=HOTEL&ctyhocn=STLHIHF&spec_plan=ACS&arrival=20190325&departure=20190329&cid=OM,WW,HILTONLINK,EN,DirectLink&fromId=HILTONLINKDIRECT

Hampton Inn	(314) 429-2000
Drury Inn	(314) 423-7700
Marriott Airport	(314) 423-9700