

AMERICAN CERAMIC SOCIETY

St. Louis Section and the Refractory Ceramics Division

Fifty-first Annual Symposium

on

Refractories

March 25-26, 2015

Hilton St. Louis Airport Hotel

Theme:

"Refractories as Engineered Ceramics"

PROGRAM

"Refractories as Engineered Ceramics"

March 24th, 2015

5:00 P.M. Kickoff Event - TBD

March 25th, 2015

11:15

11:45-1:00

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7:15 A.M.	Registration and Coffee
8:00	Morning Technical Sessions Welcome and Introductions
	St. Louis Section Chairman Roger Smith Bucher Emhart Glass Refractory Ceramics Division Chair Ben Markel Resco Products
	Co-Program Coordinators Mike Alexander Riverside Refractories Matthew Lambert Allied Mineral Products
8:15	New Forefront Measuring Techniques for Characterizing Engineered Refractories Peter Quirmbach and Hartmut Koerber – Deutsches Institut fuer Feuerfest and Keramik (DIFK), Almuth Sax – University of Koblenz-Landau, Germany
8:45	Thoughts on Additive Manufacturing for Refractory Application Abstract James Hemrick – Oak Ridge National Laboratory
9:15	A Potential Short-Cut to Quantitative Mineralogy William Carty, Kuo-pin Tseng and Hyojin Lee – Alfred University
9:45	Coffee Break
10:15	Physical Properties of a Refractory Castable with Various Alumina Aggregates Mike Alexander – Riverside Refractories
10:45	Carbon Bonded Refractory Composites Duane DeBastiani – Vesuvius Pittsburgh, USA, Stefano Martelli – Vesuvius Genoa, Italy, Philippe Guillo – Vesuvius Feignes, France

Tailoring Composite Properties through Engineered Ceramics Jeremy Watts – Missouri S&T

Luncheon Banquet

Afternoon Session

1:00-1:45	Presentation of the T.J. Planje St. Louis Refractories Award to <i>Victor C. Pandolfelli – Federal University of S. Carlos - Brazil</i>					
2:00	Castables for Industrial Applications - Still Room for Improvement Dale Zacherl – Almatis, Inc.					
2:30	Coffee Break					
3:00	Novel Deflocculation System for Silica Fume Containing Castables with Enhanced Robustness to Raw Material Variations Carl Zetterström, C. Wöhrmeyer, E. Frier and J. Pommay – Kerneos, France					
3:30	Micro-Gel Bonded Castables - A Bond with Potentials Bjorn Myhre and Hong Peng – Elkem Silicon Materials					
4:00	ACerS President's Council of Student Advisors (PCSA): Annual Report of Student Activities Jessica Rimsza and Bradley Richards					
4:30	Questions & Discussion Co-Program Coordinator					
4:45	RCD Annual Members Meeting					
5:00	Closing Remarks Roger Smith Bucher Emhart Glass Ben Markel Resco Products					
5:00-7:00	Exposition and Cocktail Hour					
	Almatis AluChem Alteo-Alumina American Ceramic Society BassTech International Calucem, Inc. China Mills Christy Minerals Cilas Particle Size DIFK GmbH, Germany Great Lake Minerals	IMERYS Refractory Minerals Kercher Industries Kerneos, Inc. Kyanite Mining Corp. LAEIS GmbH Orton Ceramic Foundation Possehl Erzkontor N.A. RED Industrial Products Refractory Minerals TAM Ceramics Washington Mills				
7:00	Dinner Buffet with Speaker - Marcus Fish, ACerS Ceramic and Glass Industry Foundation					

March 26th, 2015

6:30 A.M. Refractory Ceramics Division (RCD) Breakfast Meeting 8:15 Morning Technical Sessions Welcome and Introductions St. Louis Section Chairman Roger Smith **Bucher Emhart Glass Refractory Ceramics Division Chair** Ben Markel Resco Products **Co-Program Coordinators** Mike Alexander Riverside Refractories Matthew Lambert Allied Mineral Products 8:30 Invited Paper - 2014 Al Allen Award Winner In-Depth Microstructural Evolution Analyses of Cement-Bonded Spinel Refractory Castables: Novel Insights Regarding Spinel and CA₆ Formation Eric Sako. Mariana Braulio and Victor Pandolfelli - Federal University of Sao Carlos, Brazil Sieger van der Laan – Ceramics Research Centre, The Netherlands Appeared in the J. Amer. Ceram. Soc., 95[5] 1732-1740 (2012) 9:30 Protecting Metallic Anchors and Vessel from Alkali Corrosion by Innovative Refractory Paints Norm Phelps - Calderys 10:00 Coffee Break 10:30 Maximize Energy Savings by Selecting the Right Insulating Firebricks Steve Chernack - Morgan Thermal Ceramics 11:00 Improvement of Refractory Castables with an Innovative Calcium Aluminate Binder System Robert Stacy and Douglas Ostrander - Calucem, Inc., Nikolaus Kreuels and Ingrid Mikanovic -Calucem GmbH, Germany 11:30 An Alternative Advanced Alumina for Advanced Refractory Ceramics Elodie Chabas - Alteo-Alumina 12:00 Questions & Discussion Co-Program Coordinator St. Louis Section Chairman Roger Smith **Bucher Emhart Glass Refractory Ceramics Division Chair** Ben Markel

12:30 St. Louis Section Officer Business Meeting & Lunch

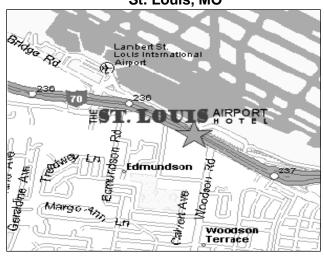
Resco Products

REGISTRATION FORM

Please select:	METHOD OF PAYMENT				
☐ Pre-Registration Fee (Deadline March 20)	\$225.00	CHARGE MY CARD: \$			
☐ On-Site Registration Fee	\$275.00	OTANGE IN CARD. \$			
☐ Emeritus/Senior Fee \$1		MC:		VISA:	AMEX:
☐ Student Fee	\$50.00	CC#:			
☐ Exhibitor for Exposition (Table Top) (Exhibitor cost does not include registrate)	EXP: CVV:			CVV:	
☐ Lunch - ☐ Chicken ☐ Fish ☐ Pasta/Ve	NAME ON CARD:				
☐ Dinner Buffet		SIGNATURE: ADDRESS:			
☐ Guest for Dinner \$40.00		ZIP CODE:			
(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 65401 Tel (573) 341-6265			
NAME:					
NAME ON BADGE:					
COMPANY:					
ADDRESS:					
CITY/STATE/ZIP:					
EMAIL:	Fax (573) 341-2071 Email: psmith@mst.edu				
TEL/FAX:		NOTE: Dress Attire – Semi Casual (Tie 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 SAC** at the Hilton when reserving a room for which the rate is \$104.00 single/double per night or you can reserve online. *Reservations must be made before March* 2nd 2015

HOTEL ACCOMMODATIONS

Hilton Hotel (Mar 2, 2015) (314) 426-5500

The web page address

is: http://www.hilton.com/en/hi/groups/personalized/S/ST LHIHF-SAC-20150321/index.jhtml?WT.mc_id=POG

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