THE WORLD RESOURCE FOR CERAMIC MANUFACTURING AND TECHNOLOGY

November 2001 www.ceramicbulletin.org

Focus on Refractories Unitecr 2001 Corporate Connection: Saint-Gobain

Ref: PF 120201/05 Df: 2774508 AMERICAN CERAMIC SOCIETY BULLETIN 01.11.01 Vol. 80 No. 11 0002-7812 22101144 14.11.0

144 BOULEVARD KRIM BELKACEM ALGER ALGERIE

www.ceramicbulletin.org

CONTENTS

Volume 80, Number 11, November 2001



Refractory Helps Cure . . .

feature articles

Suspension Processing, Microstructure and Mechanical Properties of Alumina-Platelet-Reinforced 3Y-TZP, Part 1

3Y-TZP containing Al₂O₃ platelet reinforcements were fabricated by suspension processing and pressureless sintering to >95% of theoretical density. The effect of platelet size on the green and fired microstructures was determined. There was improvement in mechanical properties using smaller platelets, but loss in fracture strength using larger platelets.

Isaac K. Cherian and W.M. Kriven

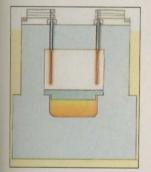
Focus on Refractories

- 31 U.S. Refractories Demand to Improve
- 34 High-Alumina Multifunctional Refractory Castables

 Versatile multifunctional castables can be installed using ramming, vibrating and self-flowing methods by changing the water content used during their preparation.

 A.R. Studart, R.G. Pileggi, V.C. Pandolfelli and J. Gallo
- 41 Refractory Helps Cure Furnace's Recurring Bellyache
- 47 Drying Behavior of Refractory Castables
 Knowledge of the drying behavior of castables is an important factor to help manufacturers of refractories optimize their heating programs, thus minimizing the time and energy costs involved in the replacement of damaged pieces in the manufacturing process.
 M.D.M. Innocentini, C. Ribeiro, J. Yamamoto, A.E. Paiva, V.C. Pandolfelli, L.R.M. Bittencourt and R.P. Rettore

57 Alafar Hosts Unitecr 2001



manufacturing briefs . . .

corporate connections

76 St. Gobain Ceramics and Plastics Inc.—Sustaining Corporate Member

manufacturing briefs

68 High-Temperature-Resistant Heating Elements in the Glass Industry
Lars-Jöran Frisk and Bengt Linder





CONTENTS

Volume 80, Number 11, November 2001

product focus

72 High-Temp Furnaces

news & views

- 4 up front
 Business as Usual . . . Somewhat
 Patricia A. Janeway, Editor
- 11 global news
 Siam Guardian Glass Forecasts
 Tough Year/12
 O-I Closes on Canadian Glass/13

13 technology briefs Greg Geiger, Technical Editor

- 16 refractory hot line
 Charles G. Marvin, Contributing Editor
- 25 brick business
 Interviews with Industry Giants—Larry
 Myers, The Belden Brick Co.
 Denis Brosnan, Contributing Editor



global news . . .

departments

- 6 calendar
- 14 business stats
- 26 names in the news
- 85 product news
- 88 on-line business directory
- 109 business services
- 119 career opportunities/classified ads
- 120 ad index

society business

- 56 statement of ownership
- 81 section notes
- 83 NICE news

Diane C. Folz, NICE Director

84 members network

Get Involved with Your Local ACerS Student Branch! Garry Moon, Membership Manager

ACerS Meeting Information

91 ECD/Cocoa Beach Meeting Program



product news . . .

THE AMERICAN CERAMIC SOCIETY BULLETIN COVERS NEWS AND ACTIVITIES OF THE SOCIETY AND ITS MEMBERS, INCLUDES ITEMS OF INTEREST TO THE CERAMIC COMMUNITY, AND PROVIDES THE MOST CURRENT INFORMATION CONCERNING ALL ASPECTS OF CERAMIC TECHNOLOGY, INCLUDING RESEARCH AND DEVELOPMENT, MANUFACTURING, ENGINEERING AND MARKETING.

AMERICAN CERAMIC SOCIETY BULLETIN (ISSN No. 0002-7812). ©2001 Published monthly, 12 times a year. Printed in the United States of America.

EDITORIAL AND SUBSCRIPTION OFFICES: P.O. BOX 6136, WESTERVILLE, OH 43086-6136. SUBSCRIPTION INCLUDED WITH AMERICAN CERAMIC SOCIETY MEMBERSHIP. NONMEMBER SUBSCRIBER RATES: NORTH AMERICA, 1-YEAR \$50; INTERNATIONAL (AIR MAIL ONLY), 1-YEAR \$100. BACK ISSUES: NORTH AMERICA, \$9-PER ISSUE; INTERNATIONAL, \$12 PER ISSUE. ALL RATES INCLUDE SHIPPING CHARGES. OUR STANDARD DELIVERY METHOD OUTSIDE NORTH AMERICA IS VIA BULK AIR MAIL PROVIDED BY AN INTERNATIONAL RE-MAIL CARRIER.

POSTMASTER: Please send address changes to American Ceramic Society Bulletin, P.O. Box 6136, Westerville, OH 43086-6136. Periodical postage paid at Westerville, Ohio, and additional mailing offices. Allow six weeks for address changes.

ACSBA7, Vol. 80, No. 11, PP 1-120