THE WORLD RESOURCE FOR CERAMIC MANUFACTURING AND TECHNOLOGY

July 2001 www.ceramicbulletin.org

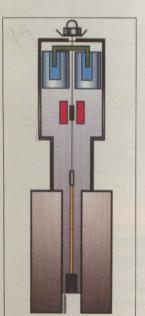
Colorimetry, Dilatometry at High Temps / 31 How Mixing Affects Rheology / 38 Technical Achievement: Ceramic Protection / 25 Environmental Achievement: Murata Electronics North America / 26 Unifrax Corp. / 27

Ref: PF 120201/05 AMERICAN CERAMIC SOCIETY BULLETIN 01.07.01 Vol. 80 No. 7 0002-7812 2210144 LIBRIS - C2 144 BOULEVARD KRIM BELLACEM ALGER ALGER

050-620-29

www.ceramicbulletin.org

Volume 80, Number 7, July 2001



Calorimetry, Dilatometry at

High Temperature . . .

e N

st

r

7. 9.

m

feature articles

29 Hawkins, Ohio Brick Industry Share Honor

5h

A brick monument has been dedicated to Robert Hawkins, emeritus director of engineering technologies at Hocking College, Nelsonville, Ohio.

31 Calorimetry, Dilatometry at High Temperature: Recent Developments in Instrumentation and Applications

Methods to characterize materials at high temperature are undergoing major development. Thermal analysis methods, especially using high-remperature thermoanalyzers and large amounts of sample have proved to be efficient in providing this information. Pierre Le Parlouer and Iggy Chan

38 How Mixing Affects the Rheology of Refractory Castables, Part 2

Refractory castable mixing is significantly influenced by particle-size distribution and water-addition method used.

R.G. Pileggi, A.R. Studart, V.C. Pandolfelli and J. Gallo

43 Avoiding Quartz in Alumina Porcelain for High-Voltage Insulators, Part 2 A body optimized according to established parameters is the most important precondition for reliability of alumina-porcelain insulators maunufactured for long-term service. J. Liebermann

49 Oil Shale Ash, Raw Material to Produce Glass and Glass-Ceramics Oil-shale ash, a byproduct of combustion of heat-plants, can be used in the economical manufacture of a

variety of glass and glass-ceramic products.

A. Gorokhovsky, J.I. Escalante-Garcia, J. Mendez-Nonell, V. Gororkhovsky and D. Mescheryakov

57 Three-Component Lead Borosilicate Frit

A new model is proposed to optimize three-component frit formulations needed for specific frit properties and low production costs.

Luciana Maccarini Schabbach, Márcio Celso Fredel and Dachamir Hotza

product focus

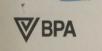
53 High-Temperature Furnaces

manufacturing briefs

- 64 Advances in
 - 4 Advances in Polishing Plate Bases, Cup Rims
 - 66 Baker Uses Sieve Analyzer to Help Meet QC Challenge



Hawkins, Ohio Brick Industry . .



www.ceramicbulletin.org

Volume 80, Number 7, July 200

news & views

global news 9 EPA Rules on Lead Will Stay/11 Ceramaseal Celebrates 50 Years of Innovation/12

- technology briefs 10 Greg Geiger, Technical Editor
- refractory hot line 17 Charles G. Marvin, Contributing Editor

viewpoint 24 Globalization and the Environment Denis Brosnan, P.E.

- 69 president's letter Off to a Good Start James E. Houseman, ACerS President
- editorial/last page 128 At Press Time Patricia A. Janeway, Editor

departments

- 5 calendar
- 12 business stats
- 20 names in the news
- 79 product news

society business

new officers, directors installed 22

Programming Guidelines, Five-Year Calendar

- 70 section notes
- 71 division report Whitewares & Materials Division Establishes

William M. Carty, Past Chair

Global News . . .

- ceramic websites 85
- business opportunities 115
- career opportunities/classified ads 125
- 127 ad index

meet the candidates 72

75 **NICE** news

> Maryland Refractories Bob Oxnard, President, Maryland Refractories Co

New Group Medical Programs Garry Moon, Membership Manager

Achievement Awards

- 25 . Technical: **Ceramic Protection Corp.**
- **Environmental:** 26 **Murata Electronics** North America Inc.
- 27 **Environmental:** Unifrax Corp.

ACerS Meeting Information

- Short Course: Refractory Wet 88 **Shotcreting Technology**
- **ACerS Whitewares & Materials** 89 **Division Fall Meeting in conjunc**tion with Canadian Ceramic Society 99th Annual Technical Forum
- 91 **Pac Rim IV: International Conference on Advanced Ceramics and Glasses**

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 CON-CERNING 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 S50; international (air mail only), 1-year S100. Back issues: North America, S9 per issue; international, S12 per issue. All rates include shipping charges. Our standard delivery method outside North America is via bulk air mail provided by an international (arrive.

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. 7, PP 1-128

2

July 2001

76

members network

