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AMERICAN  
CERAMIC  
SOCIETY

# BULLETIN

## 104th Annual Meeting & Exposition

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*Although currently too expensive for use in most passenger cars, a new high-performance, lightweight, ceramic disc brake has been developed.*  
V. Kevorkijan
- 31 Glass-Ceramic Technology—A Comprehensive New Book**
- 36 Dispersants for High-Alumina Castables**  
*Zeta-potential data alone is not an appropriate parameter to select dispersants for  $Al_2O_3$ -based zero-cement castables and suspensions when high solids loadings are concerned. Salt-neutralized polyacrylic acid leads to suspensions with superior viscosity and yield stress when compared with those dispersed with citric acid.*  
A.R. Studart, V.C. Pandolfelli and J. Gallo
- 45 Alumina Ceramics for Ballistic Protection, Part 2**  
*High-alumina and alumina-zirconia ceramics have been used successfully as armor material for personnel and vehicular ballistic protection.*  
Eugene Medvedovski
- 73 Structural Transitions in Glasses and Glassforming Liquids**  
*Brillouin light scattering was used for the investigation of glassforming systems of variable fragility, with the objective to elucidate the glass transition phenomenon. A theoretical model was developed that provides consistent description of the temperature dependence of real and imaginary mechanical moduli of all the systems investigated.*  
John Kieffer



104th Annual Meeting . . .

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### ACerS Meeting Information

[www.ceramics.org](http://www.ceramics.org)

Structural Clay Products Division  
Spring Meeting, Augusta, Ga.,  
May 19-21, 2002

ACerS 105th Annual Meeting  
and Exposition, Nashville,  
Tenn., April 27-30, 2003

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.

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