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SATRA tests homeware...

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#### feature articles

- Engineering of Wear-Resistant Surfaces on Aluminum-Based Friction Components

  If aluminum alloys are to be used in the production of automotive brake disks and other wear-resistant products, insertion of a monolithic friction cladding rather than surface coating will need to be considered.

  Varužan Kevorkijan
- Using the Optical Dilatometer to Determine Sintering Behavior

  The double-beam optical dilatometer is the ideal instrument to determine the temperature at which a ceramic body achieves full vitrification, with no bloating, in a minimum length of time.

  Mariano Paganelli
- Composite Insulation System Provides Fast, Effective Furnace Lining Maintenance

  A new full-thickness gunnable foam/fiber insulation system provides a fast, effective alternative to traditional modules and blankest for furnace lining maintenance.

  Brian Bradley
- 34 SATRA Tests Homeware

  SATRA has formulated a series of test routines designed to give realistic predictions of normal service performance and safety of homeware.

  Tony Smith
  - What Is My TC Really Telling Me?

    Basic knowledge about the operation, standardization, application and sources of error of thermocouples can prevent loss of a process or damage to equipment.

    Fred C Dimock
- Challenges to Innovation in the United States

  Too few U.S. high-school graduates, particularly women, are entering undergraduate and graduate programs in science and engineering to maintain a high level of innovation in these fields.

  Duncan T. Moore
- Deflocculant Capability of Sodium TPP
   The Rietveld method is a valid characterization analysis tool to facilitate the selection of an appropriate tripolyphosphate (TPP) for a specific application.

   F. Bondioli, M. Ferrari and P Miselli
- Effect of Grinding Time and MgO Source on Cordierite Formation
   The effect of the MgO source (talc or Mg(OH)<sub>2</sub>) and of the grinding process of a mixture of kaolinite and MgO powders on the amount of α-cordierite formed was investigated using XRD.
   S. Kurama and N. Ay



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**ACerS Engineering Ceramics Division, 27th Annual Conference** & Exposition on Advanced Ceramics & Composites, Cocoa Beach, Fla. Jan. 26-31, 2003

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

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