ACerS President’s update: International issues
ACerS President Bill Lee provides the third of three updates to members about key themes of his presidency.
by Bill Lee

Honoring the ACerS Awards Class of 2017
The Society announces awards that will be presented at the Awards Banquet of the 119th Annual Meeting in October to recognize significant contributions to the engineered ceramic and glass field by members and corporations.

Protective and functional ceramic coatings—An interagency perspective
Thermal barrier and environmental barrier coatings protect superalloy and ceramic matrix composite turbine engine components. Advances in coating processing and materials could drive improved engine efficiencies.
by Stephen W. Freiman, Sanjay Sampath, and Lynnette D. Madsen

Special benefits of bauxite for a stable porcelain microstructure in high-voltage insulation
Bauxite offers novel potential to decrease microcrack formation in high-voltage porcelain insulators by resolving residual quartz particles in the microstructure.
by Johannes Liebermann

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Thin and ultrathin films market to remain stable despite challenges in electronics
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Waste products for green building materials
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As seen in the August 2017 ACerS Bulletin...

Reaction-bonded boron carbide for lightweight armor

Light ceramics particularly are attractive for personnel as well as vehicle protection. With adequate understanding of processing parameters and resulting material properties, reaction bonding offers a relatively inexpensive alternative fabrication method for lightweight ceramic armor.

Read more at www.ceramics.org/boroncarbide

As seen on Ceramic Tech Today...

New insights into strength of Roman concrete

An international group of scientists recently found that Roman concrete actually gets stronger with age, thanks to evolution of a rare mineral called aluminous tobermorite. As a result, Roman harbor concrete structures survive about two orders of magnitude longer than Portland-type cement seawater concrete structures.

Read more at www.ceramics.org/romanconcrete