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April 2017 • Vol. 96 No. 3

## feature articles

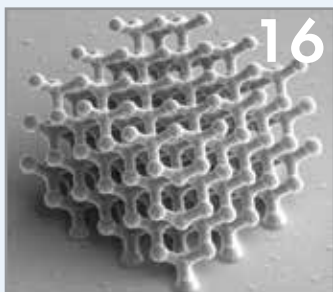


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### President's update: Industry issues

ACerS President Bill Lee provides the first of three updates to members about key themes of his presidency.

by Bill Lee

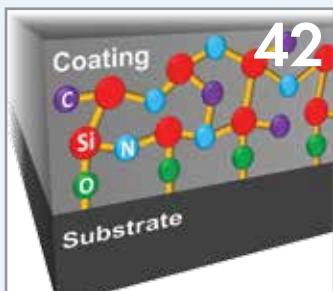


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### Additive manufacturing techniques for fabricating complex ceramic components from preceramic polymers

Properties of preceramic polymers allow use of additive manufacturing to fabricate advanced ceramics through various techniques.

by Paolo Colombo, Johanna Schmidt, Giorgia Franchin, Andrea Zocca, and Jens Günster



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### Polymer-derived ceramic and ceramic-like coatings: Innovative solutions for real problems

Polymer-derived ceramic coating systems have tunable chemical composition, versatility and ease of processing, and excellent properties, making these materials promising for a variety of applications.

by Gilvan Barroso, Quan Li, Günter Motz, and Rajendra K. Bordia



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### The QC checklist: An essential tool for managing product quality of ceramics

A quality control checklist clarifies product specifications for mass production and helps ensure the quality of manufactured ceramic products.

by John Niggel

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## bonus feature

### 25 Bulletin Business Supplement

**Materials with market value: Global ceramic and glass industry poised to reach \$1 trillion**

Traditional glass and ceramics comprise 89% of the global market; however, growth will be largest in technical ceramic sectors in the next five years.

by Margareth Gagliardi



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### As seen on Ceramic Tech Today...



## Low-temperature processing could establish 'Materials Valley'

What if—instead of redesigning individual materials to make them stronger, lighter, cheaper, and greener—we could rethink a single processing method to improve various different materials? Such a reality may be closer than you think.

### Read more at

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

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