



**Academy of Prosthodontics Annual Scientific Session  
Ritz-Carlton, Sarasota Florida April 25 – April 29, 2017**

**Program Speaker – Dr. Van P. Thompson**

**Title**

*Ceramic Materials, Enamel Still Shines*

**Abstract**

This presentation focuses on the latest research on ceramics, oxide and glass-ceramics, and their comparison to resin-ceramic technology. Both laboratory and clinical study outcomes will be reviewed. Enamel is still outperforming CAD/CAM materials. Enamel design encompassing micro- and meso-structure (decussation) promoting damage tolerance, longevity and esthetics will be discussed.

**Learning Objectives**

1. Discuss ceramic performance and problems associated with: slow crack growth, strength, fracture toughness and fatigue
2. Describe the clinical evidence for clinical applications of these materials
3. Describe the micro- and meso-structure of enamel and how esthetics and damage resistance are enhanced by this single cell derived structure

**Biography**

VAN P THOMPSON, DDS, PhD, Professor Emeritus, King's College London Dental Institute

Is known for his work on adhesion and bonded bridges at the University of Maryland and later for work on ceramic fatigue at NYU and King's College, he has published many articles and made numerous presentations on dental biomaterials in the U.S. and internationally. His current research areas include dentin caries activity, all-ceramic crown fatigue and fracture, and practice based research (PEARL Network).