



## CURRICULUM VITAE

**PAULETTE SPENCER, DDS, PhD, Ackers Distinguished Professor**

University of Kansas, Lawrence, KS

**ORCID - 0000-0003-1447-826X**

- 1978** - DDS, University of Missouri-Kansas City School of Dentistry
- 1980** - MS, Pediatric Dentistry, University of Minnesota
- 1988** - MS, Materials Engineering, Rensselaer Polytechnic Institute
- 1993** - PhD, Oral Biology and Physics, University of Missouri-Kansas City
- 2003** - pres Fellow, American Institute for Medical and Biological Engineering (AIMBE)
- 2007** - pres Fellow, Biomaterials Science & Engineering, International Union of Societies for Biomaterials
- 2007** - pres Fellow, American Association for the Advancement of Science (AAAS)
- 2007** - Curators' Professor Emeritus, University of Missouri-Kansas City
- 2007** - pres Deanne E. Ackers Distinguished Professor, School of Engineering and Director, Institute of Bioengineering Research, University of Kansas
- 2009** - Visiting Professor, Bauru School of Dentistry, University of São Paulo, SP, Brazil
- 2014 - 2015** - Fulbright U.S. Scholar Award
- 2015** - Visiting Professor, University of São Paulo, São José dos Campos, Brazil

Dr. Paulette Spencer is the Founding Director of the Institute for Bioengineering Research, University of Kansas. She is an internationally recognized scholar in the design and development of durable biomaterials. Dr. Spencer is among the pioneers in the development of non-destructive techniques for in situ characterization of structure/property relationships at tissue/tissue and material/tissue interfaces. Her work represents some of the earliest examples of Raman spectroscopic analyses of material/tissue interfaces. Working with her research team, she uses multi-scale structure/property imaging and mathematical modeling to provide insight into mechanistic behavior at the juncture between dissimilar tissues and tissue/material interfaces. The analytical results coupled with modeling provide understanding of interfacial behavior at scales ranging from molecules to fractions of meters.

Dr. Spencer has a diverse background in dentistry, materials engineering and biophysics. Using this background as a foundation, she undertakes problems that are driven by clinical need and utilize approaches that integrate engineering principles with clinical practice. Her research program is based on "practice-inspired advances in understanding tissue-material interfaces" to drive biomaterials discovery and innovation. Dr. Spencer has published over 175 peer-reviewed publications and in 2017, co-edited the book titled, *Material-Tissue Interfacial Phenomena: Contributions from Dental and Craniofacial Reconstructions*.