



## 2010 PAC Winner

Delbert Day

Delbert E. Day recently retired from the Missouri University of Science and Technology (formerly the University of Missouri-Rolla) as Curators' Professor Emeritus of Materials Science and Engineering and Senior Investigator (formerly Director) of the Graduate Center for Materials Research.

During his career as a university teacher and researcher, he published more than 365 technical papers dealing the structure, properties, and uses of glass, edited three books and received 45 US and foreign patents. His patents include glass microspheres for medical and dental applications, especially for radiation therapy, glasses for vitrifying nuclear waste, optically transparent composites, and high temperature ceramics.

He is co-inventor of special purpose glass microspheres, TheraSphere™, which are now in commercial use at more than 100 sites worldwide to treat patients with inoperable liver cancer. He conducted the first US glass melting experiments in micro gravity on NASA's Space Shuttle. He is also a co-inventor of "Glasphalt", which recycles waste glass by using it as part of the aggregate in asphalt paving.

His numerous honors and awards include election to the National Academy of Engineering, Distinguished Life Member (and past president) of the American Ceramic Society, the Presidential Award for Research and Creativity (University of Missouri), selection as the Nation's Outstanding Young Ceramic Engineer (Pace Award) by the National Institute of Ceramic Engineers, the Toledo Glass and Ceramics Award (for achievements in education and industry), the Hosler Alumni Scholar Medal for Scientific Achievement (Pennsylvania State University), the Chancellor's Medal and Doctor of Science, Honoris Causa, (University of Missouri-Rolla), and the W. David Kingery Award for Achievements in Ceramics and the Outstanding Educator Award from the American Ceramic Society.

He is a Fellow of the American Ceramic Society, the Society of Glass Technology (United Kingdom) and the National Institute of Ceramic Engineers.

He is the former Chairman and President of MO-SCI Corp (Rolla MO), a company he co-founded and which manufactures special purpose glasses for the healthcare, electronics, transportation, aerospace, chemical and sporting goods industries. He continues his work as a researcher/teacher, entrepreneur, consultant and commercial pilot/flight instructor.