

Dr. Tim Allison
Director-R&D, Southwest Research Institute

TMCES Technology Overview and Research Activities



Biography

Dr. Tim Allison is the Machinery Department Director at Southwest Research Institute® where he leads an organization that focuses on R&D for the energy industry. His research experience includes analysis, fabrication, and testing of turbomachinery and systems for advanced power or oil & gas applications including high-pressure turbomachinery, centrifugal compressors, expanders, gas turbines, reciprocating compressors, and test rigs for bearings, seals, blade dynamics, and aerodynamic performance. Dr. Allison holds two patents, has authored three book chapters and co-edited one book, and has published over 70 articles on various turbomachinery topics. He received the best tutorial/paper awards from the ASME Oil & Gas and Supercritical CO₂ Power Cycle Committees in 2010, 2014, 2015, and 2018. He is a past chairman of the ASME Oil & Gas Applications Committee, past and current co-chair for the Thermal-Chemical-Mechanical Energy Storage Workshop, a member of the Supercritical CO₂ Symposium Planning Committee, and an Associate Editor for the ASME Journal of Engineering for Gas Turbines & Power.