

Dr. Luis San Andrés, former Mast-Childs Chair Professor of Mechanical Engineering, specializes in research on fluid film bearings and seals for turbomachinery. His work encompasses gas foil bearings for high-temperature oil-free turbomachinery, hybrid fluid film bearings for turbopumps, and squeeze film dampers for aircraft jet engines. His computational codes have become industry standards in rotating machinery, having been extensively validated against test data. Throughout his career, San Andrés and his students have published more than 160 journal papers and 80 conference papers, with several receiving Best Paper recognition. His contributions to the field have earned him prestigious accolades, including the 2022 ASME Aircraft Engine Technology Award, the 2023 ASME Mayo D. Hersey Award, and the 2025 ASME Henry R. Worthington Medal. San Andrés is a fellow of both ASME and STLE.