**Multi-disciplinary Engineering and Computing – Research that Makes a Difference**

**Abstract**

“When Engineers Dream, Things Happen” -- Graham Hawkes, Chief Engineer-Inventor, Deep Flight. Engineers are creating new materials, products and systems to address problems of sustainability, health, safety, and security throughout the world, and to provide greater opportunities for recreation and entertainment that enrich the enjoyment of life. Advances in these areas frequently require multi-disciplinary research with contributions from diverse areas of engineering and computing. In this talk, Professor Cameron presents an overview of some of the multi-disciplinary research involving biomedical, chemical, electrical, materials, manufacturing, mechanical and software engineering at Miami University, and how this research makes a positive difference in people’s lives.

**Speaker Bio**

Professor Timothy (“Tim”) Cameron, Ph.D., is Associate Dean of the College of Engineering and Computing, and Professor of Mechanical and Manufacturing Engineering (MME), at Miami University, Oxford, Ohio, USA. Professor Cameron served as the Department Chair of MME from 2010-2018. He served previously as Professor and Associate Department Head of Mechanical Engineering at Kettering University, Flint, Michigan, and as Associate Professor and Assistant Chair of Mechanical Engineering - now Mechanical and Nuclear Engineering - at Virginia Commonwealth University, Richmond, Virginia. Professor Cameron conducts research on reducing noise and vibration, and improving efficiency and durability, of automotive powertrains. Professor Cameron has a B.S. in Engineering from Cornell University, Ithaca, New York, and M.Eng. and Ph.D. in Mechanical Engineering from Carnegie Mellon University, Pittsburgh, Pennsylvania.