

Plenary 4: Brave New Brain-Tech: IEEE Neuroethics Program Development of Guidelines for Use of Neurotechnologies in Practice, Saturday 16 November 2019

Prof. William (Jamie) Tyler, School of Biological and Health Systems Engineering, Arizona State University, USA



William (Jamie) Tyler is an associate professor in the School of Biological and Health Systems Engineering at Arizona State University. His group's primary research and development interests focus on developing and applying noninvasive neuromodulation methods and devices intended to optimize human performance and brain health. His team is particularly interested in developing electrical, ultrasonic, and alternative technologies or interfaces that are capable of precisely regulating the human autonomic nervous system, as well as deep-brain circuits to regulate arousal, attention, learning, and sleep/wake cycles. In addition to developing methods and tools for enhancing human performance, the Tyler lab also works on developing technologies that can be useful to treat some neurological diseases and neuropsychiatric disorders. The collective goal is to enhance human brain health and performance through the development of robust, scientifically-validated, and safe neurotechnologies.