The MIST Center has five strategic thrust areas; integration, power, wireless, computing and sensing. Within each thrust area, we have identified comprehensive research topics. One such topic is on Harsh Environment Sensing.

Founded in 2014, the Multi-functional Integrated System technology (MIST) Center is a research consortium under the auspices of the Industry/University Cooperative Research Centers program at the National Science Foundation.

Since 2015, the MIST Center has funded $600k across 14 projects conducted by 7 faculty members resulting in 16 pre-publication reports, 6 journals, 4 conference papers, 3 patents issued, 2 PCTs and 3 utilities, and 1 doctoral student hired by a member organization.

Related Intellectual Property


Utility and PCT information available upon request

List of Projects

1. 2021-W1 - Ultra-compact Magnetoelectric Nanowire Antennas (D. Arnold, J. Andrew, Y.K. Yoon)
2. 2020-S6 - High-dynamic range micro-LIDAR (S. Koppal, H. Xie)
5. 2018-S1 - Zero-Power Magnetic Field Sensors Using Magnetoelectric Nanowires (J. Andrew, D. Arnold)
9. 2017-P2 - Chip-Scale MEMS Receivers for Low-Power Wireless Charging (A. Garraud, D. Arnold)
11. 2016-S2 - Zero-Power Magnetic Field Sensors Using Magnetoelectric Nanomaterials (J. Andrew, D. Arnold)
12. 2015-P2 - Directed Nanoparticle Assembly by Electrophoretic Deposition (D. Arnold, J. Andrew)
13. 2015-P5 - High-Performance CoPt Micromagnets (D. Arnold)
14. 2015-P6 - Compact Array Antennas with High Gain, Power Efficiency, and EMI Immunity in a System-In-Package Platform (Y.K. Yoon)

Publication lists available upon request

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