

# 2016 Innovation Crossover Abstract Selections

## SPARC Panel

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- ❖ *Additive Manufacturing* Dr. Dan Berrigan, AFRL
- ❖ *Digital Thread for Enabling Patient Care* Hazim El-Mounayri, IUPUI
- ❖ *Emergent Properties in Cybersecurity* Steve Meyers, Indiana University
- ❖ *Enhanced Airman Performance* Dr. Erica Johnson, AFRL
- ❖ *Looking Beyond Visible* Dr. Ben Conley, NSWC Crane
- ❖ *Hypersonic Flight: A Critical National Need* Dr. Jonathan Poggie, Purdue
- ❖ *Improvements in Non-Destructive Printed Circuit Board Reverse Engineering* Dr. Darren Crum, NSWC Crane
- ❖ *Machine Learning* Dr. Mark Linderman, AFRL
- ❖ *Pulsed Laser Surface Processing* Dr. Steve Seghi, NSWC Crane
- ❖ *Science Gateways to Support NSWC Crane Grand Challenges* Dr. Marlon Pierce, Indiana University
- ❖ *STRONG: Signature TRacking for Optimized Nutrition and traininG* Dr. Erica Johnson, AFRL
- ❖ *Trusted Microelectronics* Dr. Matt Gadlage, NSWC Crane

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## University Panel

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- ❖ *Advances in Control Systems Cybersecurity* James Graham, University of Louisville
- ❖ *Characterization of ABS-HOPE Blended Virgin Filaments* Laura Luther, IUPUI
- ❖ *Design of Highly Flexible and Elastic Electronic Sustrates Using Additive Manufacturing* Jong Ryu, IUPUI
- ❖ *Exploring Technology and Human Sensors to Monitor PTSD* Katherine Connelly, Indiana University
- ❖ *FITest* Dr. Jack Smothers, University of Southern Indiana
- ❖ *Fusing Hard and Soft Information* Sandra Kuebler, Indiana University
- ❖ *Identifying Fibroblast Subpopulations and Signaling Modules that Facilitate 3DP Based Regeneration of Specialized Skin* John Foley, Indiana University
- ❖ *Knowledge Discovery & Web Mining Lab* Olfa Nasraoui, University of Louisville
- ❖ *Lightweight Structure Design with Additive Manufacturing* Dr. Li Yang, University of Louisville
- ❖ *Multi-Scale Multi-Physics Models for Metal Based Additive Manufacturing Process* Dr. Jing Zhang, IUPUI
- ❖ *Radiation Effects in Advanced Micro/Nano Fabricated Devices* Dr. Shamus McNamara, University of Louisville
- ❖ *Socially Assistive Robots in Patient-Centered Eldercare* Selma Sabanovic, Indiana University
- ❖ *WMTS* Dr. Arthur Chlebowski, University of Southern Indiana