

2018 New Venture Competition - Tech Surge Awards

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Selected UCI Available Technologies:

Case Number Technology Title

Computers & Communication

| | |
|--------------------------|---|
| 2015-032 | <i>Mobile Application to Reduce Hospital Stay Times by Empowering Patients</i> |
| 2014-605 | <i>Referenceless Clock Recovery Circuit With Wide Frequency Acquisition Range</i> |
| 2006-110 | <i>A Novel Beamforming Method for Ofdm Wireless Communication Systems</i> |

Energy & Environment

| | |
|--------------------------|--|
| 2016-331 | <i>H2 Evolution and CO2 Conversion by Whole Cells or Engineered Azotobacter Vinelandii Strains</i> |
| 2015-784 | <i>Spinodal-based Co-continuous Composites for High Performance Battery Electrodes</i> |
| 2012-130 | <i>Thermal Devices for Controlling Heat Transfer</i> |
| 2017-890* | <i>Closed Loop Plastic Recycling System</i> |

Imaging & Sensors

| | |
|--------------------------|--|
| 2018-067* | <i>Hydrogen Gas Sensors Based on Patterned Carbon Nanotube Ropes</i> |
| 2017-809 | <i>Portable Waterborne Pathogen Detector</i> |
| 2016-927 | <i>Soluble Phosphoramodite</i> |
| 2014-982 | <i>Silicon on Sapphire-Based Plasmonic and Metasurface Design for Optical Light Manipulation</i> |
| 2009-611 | <i>Fast Sensitive Hydrogen Gas Detection Using Single Palladium Nanowires</i> |

Materials & Chemicals

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|--------------------------|--|
| 2017-416 | <i>Non-Immunogenic Coating for Biomedical Devices</i> |
| 2017-209 | <i>Powder Bed Additive Manufacturing Method of Fabricating a Porous Matrix</i> |
| 2015-142 | <i>Smart Nail Polish</i> |
| 2014-267* | <i>Electrical Conduction in a Cephalopod Structural Protein</i> |
| 2014-264 | <i>Process for the Fabrication of Nanostructured Arrays on Flexible Polymer Films</i> |
| 2012-501 | <i>Microfabricated Surfaces for the Physical Capture of Bed Bugs and Other Insects</i> |
| 2011-670 | <i>Green Production of Fuels and Plastics</i> |

* Technology to be published online soon

Case Number Technology Title

Medical Devices & Tools

| | |
|--------------------------|---|
| 2018-228* | Automatic Personal Daily Activity Tracking |
| 2018-225* | Zero-Power Microfluidic Osmotic Pumps Using Ultra-Thin PDMS Membranes |
| 2018-080* | Measuring the Quantity and Quality of Head Impacts and Their Effects |
| 2018-077* | Design and Configuration of an Illuminated Periodontal Curette That Uses Wireless Technologies to Transmit Images of the Interior of the Periodontal Pocket |
| 2018-069* | Lactose Detecting Strip |
| 2018-061* | Mobile Application Standardizing Assessment for Effective Response |
| 2017-811 | Purifying Breast Milk of Alcohol |
| 2017-414 | Ultrasound-Guided Delivery System for Accurate Positioning - Repositioning of Transcatheter Heart Valves |
| 2017-206 | LED-Based Diffuse Optical Spectroscopy Tool for Assessing the Ear |
| 2015-780 | Torque Balancing Active Wrist Brace |
| 2015-665 | Directed and Selective Facial Nerve Stimulation for Unilateral Facial Paralysis |
| 2014-927 | Implantable Wireless Oxygen Biosensor for Implanted Devices |
| 2014-673 | Asthma Inhaler Compliance |
| 2013-884 | Protein Refolding Device for Industrial Production of Biologics |
| 2011-621 | Fluid Management Device |
| 2010-033 | Direct Drive Micro Hearing Device |

Medical Therapeutics & Diagnostics

| | |
|--------------------------|---|
| 2015-408 | Spiroindolinones and Their Uses |
| 2012-203 | Implantable Device for Treating Diabetes |
| 2011-032 | Infant Movement Diagnostics |
| 2007-533 | Plastic Antibodies |
| 2006-028 | Biomarker-Guided Prediction of Patient Adherence to Medications |

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