

2016 LAUNCH AWARD FINALISTS

Launch is a proof of concept and commercialization center for commercially promising technologies developed at NMSU. Its 5th annual competition yielded six finalists; for these finalists, Arrowhead provides cash investments and mentoring services to bring new products and services to market.

2016 FINALISTS INCLUDE:

BACKPACK LASER-INDUCED BREAKDOWN SPECTROSCOPY (LIBS):

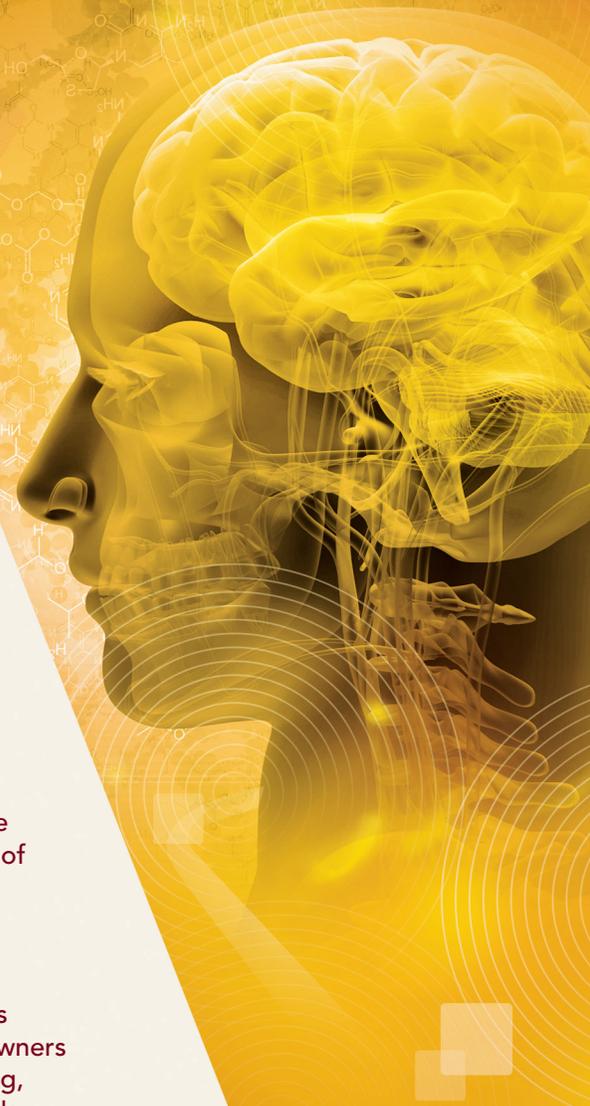
Nancy J. McMillan (NMSU, Geological Sciences), with Rosalie Multari and David Cremers (Creative LIBS Solutions) and NMSU undergraduate Shawn Goudy, are developing a backpack version of LIBS specifically to allow field-based chemists to understand compositional relationships rapidly, on location in the field. LIBS is a laser-based spectroscopy technique that records information on the concentrations of all elements in the periodic table. The instrument will be designed to create and apply detection algorithms that allow rapid identification of ore minerals and detection of pollutants in water.

EQUUS:

Nicole Jaynes (NMSU, Master's student in Agriculture and Extension Education) is developing a horse farm management database. This database will allow horse owners and managers to keep track of general horse records that involve health, breeding, nutrition, and expenses. It is an online database that will mobilize a horse's records. Ultimately, this program will ease the process of collecting and storing information for horse owners and managers alike.

GREENIE:

Taylor Burgett (NMSU, Master's student in Electrical Engineering) is developing an app/website that helps cities track and resolve thousands of non-emergency issues. These issues as varied as graffiti, potholes and illegal dumping cost taxpayers hundreds of millions of dollars each year because there is no easy way to stop or fix these problems. Greenie makes it easier than ever before for people to report non-emergency issues and for local governments to track and fix those issues. Greenie has two parts; a mobile app where citizens report issues by simply taking a picture, and a website that local governments pay to access so they can effectively resolve these problems while saving tax dollars. Greenie will be able to handle reports for potholes, graffiti, illegal dumping, weeds, water main breaks, signage issues, accessibility issues, street lights, and abandoned cars.



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MAESTRO REVIEW SYSTEM:

The Maestro Team developed the web-based Maestro review system as a collaborative effort between the Office of Associate Vice President for Research Integrity and the Research Information Technology Department to streamline the IRB submission process and incorporate the latest technology for electronically submitting IRB applications for evaluation. Maestro is a workflow management system that processes in a sequential, chronological, and organized format creating a well-documented record retention application and information system. It routes and manages applications, supporting documents, training certificates, review and approval authorizations, and provides automatic email notifications and reminders. This innovative system supports environmental sustainability and standardization of information that is necessary for the storage of records.

MAKE IT AUTONOMOUS:

Make It Autonomous (MIA) is a Start Up Company Founded by Mr. Daniel Corona Jr. MIA is currently in the process of innovating their signature product, an Autonomous Pavement Marking machine, to be used in the 629 BN (Revenue) (IBIS) Construction Industry. This technology will allow Contractor Companies to deliver a higher quality, time efficient, and lower cost project on time and under schedule. With the help of Studio G, Arrowhead Launch, and the College of Engineering at NMSU, we are happy to say we have made tremendous progress and are continuing to finalize an MVP in May of 2016.

SMALL-SCALE LOW-TEMP MULTIPLE EFFECT DISTILLATION FOR BRACKISH GROUNDWATER:

Catherine Brewer's research group (NMSU, Chemical & Materials Engineering) has developed a system for the thermal desalination of brackish groundwater using biomass energy. The multiple effect distillation (MED) unit is capable of purifying hard-to-treat water in a way that prevents scaling and high maintenance needs, running on a low temperature heat energy source (hot water), partial vacuum, and a very small amount of electrical energy for pumps.

