



## Semifinalist Venture Descriptions, 2010

### **BOISE STATE UNIVERSITY**

**Venture:** R2EV

**Concept:** R2EV's Fuel 2.0™ battery is a portable energy solution for any energy problem. Our patented technology is the only battery system in the world capable of providing emergency/backup power to your home or office, and a complete electric vehicle energy replacement in less than 5 min.

**Team:** Alex Livingston, Thomas Schoeck and Marcel Wermeckes

**Faculty Adviser:** Kent Neupert

### **BRIGHAM YOUNG UNIVERSITY**

**Venture:** Marere Pure Water

**Concept:** Marere Pure Water is a manufacturer and distributor of small bags (18oz sachets) of pure, convenient, and inexpensive water for urban Tanzanians who are out of their homes and the go.

**Team:** Zac Clarke, Kyle Freebairn and Kyle Lemmon

**Faculty Adviser:** Gary Williams

### **CORNELL UNIVERSITY**

**Venture:** Bombyx Technologies

**Concept:** Bombyx Diagnostics is developing a platform technology that can produce smaller, cheaper, faster, and more accurate medical diagnostic tests. The test can be used to detect disease such as heart, brain, and cancer early and accurately which will save lives and reduce the cost of health care.

**Team:** Benjamin Rollins and Brian Lawrence

**Faculty Adviser:** Rich Newman

### **GEORGIA INSTITUTE OF TECHNOLOGY**

**Venture:** NanoShield

**Concept:** NanoShield's proprietary coating technology doubles the useful life of central venous catheters, thereby reducing the need for surgical interventions and the thousands of dollars of costs they incur. The company is currently raising funds to begin in vitro testing in a vascular environment.

**Team:** Edward Sloan, Nikhil Patel, Andy Sanders, Jake Sisley and Toni South

**Faculty Adviser:** Margi Berbari

## **HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**Venture:** Alfuel Biotech - 3X Algae Solutions

**Concept:** Our venture seeks to apply advanced luminescence technologies to grow algae and extract algae oil, which is rich in lipids, in the most efficient and economical way to produce bio-diesel. This will address the growing need for clean fuels and help recycle carbon.

**Team:** Arun Anand, Jean-Philippe Atse, James Chi, Jing Jia and Tom Oefler

**Faculty Advisers:** Paul Forster and Joseph Salvacruz

## **JOHNS HOPKINS UNIVERSITY**

**Venture:** Cortical Concepts

**Concept:** Innovating with leading spine surgeons at Johns Hopkins Hospital, Cortical Concepts has developed a new technology to address the growing presence of osteoporosis during spinal fusion procedures. This technology increases the fixation strength of pedicle screw systems, while reducing the costs and risks associated with the procedure.

**Team:** Nicolas Martinez, Jason Hsu, Chris Komanski and Evan Luxon

**Faculty Adviser:** A. Jay Khanna

## **PURDUE UNIVERSITY**

**Venture:** Microfluidic

**Concept:** At Microfluidic Innovations LLC, we have identified a viable gap in the Lab-on-a Chip (LoC) market. LoC devices have diverse applications, including clinical diagnostics, biochemistry, drug discovery, and more. We will deliver the first ever general-purpose, programmable microfluidic LoC (GPLoC), significantly reducing cost and time to conduct biochemical experiments.

**Team:** Leonard Kim and Samir Sahoo

**Faculty Adviser:** Mithuna Thottethodi

## **SASIN GRADUATE INSTITUTE OF BUSINESS ADMINISTRATION OF CHULALONGKORN UNIVERSITY**

**Venture:** Mielixir

**Concept:** Mielixir has developed Centoral™, a clinically-proven safe and highly effective herbal medication derived from patent-pending extract of Centella asiatica for the treatment of common mouth ulcer that affects 1.4billion people globally. Reaping benefit from recently-introduced ASEAN pharmaceutical harmonization, Southeast Asia will be Centoral™ initial market.

**Team:** Parnote Shusang, Rosalin Chanyasak, Natdanai Dejtheeranukul, Prapada Prapan and Salinrat Pruksa

**Faculty Adviser:** Nick Pisalyaput

## **TEPPER SCHOOL OF BUSINESS AT CARNEGIE MELLON UNIVERSITY**

**Venture:** Beyond Lucid Technologies, Inc.

**Concept:** MEDIVIEW DX™ is a healthcare IT system that transmits vital patient data to doctors in the E.R. AND begins automated signal-based diagnostics, while patients are in an ambulance en route to the hospital. The system renders time-in-transit diagnostically useful, improving patient safety by allowing hospital-side triage to commence more efficiently.

**Team:** Jonathon Feit and Christian Witt

**Faculty Adviser:** Art Boni

## **THAMMASAT UNIVERSITY**

**Venture:** Mediscan Asia

**Concept:** Mediscan Asia will be the first in Asia to utilize our breakthrough technology to diagnose and treat the potential root cause of untreatable diseases and prevailing ailments. Our alternative medical research identifies the sensitive inter-relationships between various minerals in the body on brain function and neurological development.

**Team:** Todsaporn Siangsukon, Veeraya Ratanasook, Booraya Takerngrangsarit and Rungarun Wonghom

**Faculty Adviser:** Bill Randall

## **TULANE UNIVERSITY**

**Venture:** SafeSnip

**Concept:** SafeSnip is a disposable, plastic medical device that simultaneously sterilizes, clamps and cuts the umbilical cord while enclosing the severed umbilical cord stump inside the housing unit. SafeSnip was developed to streamline the procedure for cord severance, to prevent blood splatter, and to reduce infant mortality from bloodborne infections.

**Team:** William Kethman, Damon Bowe, Alex Chan, Stephanie Roberts and Cesar Solorzano

**Faculty Adviser:** John Silbernagel

## **SAN DIEGO STATE UNIVERSITY**

**Venture:** CyrusPath

**Concept:** CyrusPath offers language-learning tools via smart phone applications and turns daily SMS and email exchanges into foreign language practice. We supplement the lack of conversation practice in the classroom and software based learning curriculums. By integrating consistent practice into users' daily habits, we offer a way of retaining foreign language forever.

**Team:** Doug Melton, Craig Stern

**Faculty Adviser:** Bernhard Schroeder

## **UNIVERSITY OF ARKANSAS**

**Venture:** Green Valley Solar

**Concept:** Green Valley Solar is commercializing a patented technology to bring down the price of solar generated electricity through reduced manufacturing costs. Our process is protected by four patents with an additional patent pending and relies on standard equipment allowing low adoption costs and fast payback period.

**Team:** Douglas Hutchings, Brent Bertelsen, Stephen Ritterbush and Seth Shumate

**Faculty Adviser:** Carol Reeves

## **UNIVERSITY OF BRITISH COLUMBIA**

**Venture:** Aeos Biomedical

**Concept:** Aeos Biomedical was created to reduce the frequency of medical mistakes. Target Tape is a medical imaging aid containing semi-permanent ink and radiopaque materials in a ruler/grid pattern. The pattern shows on an X-ray scan image and on the patient's skin, allowing the surgeon to correlate information between the two.

**Team:** Patricia Backlund, John Holt, Colin O'Neill, Nicholas Seto and Wylie Spencer

**Faculty Adviser:** Darren Dahl

## **UNIVERSITY OF ILLINOIS AT CHICAGO**

**Venture:** Thermal Conservation Technologies

**Concept:** Thermal Conservation Technologies is an early-stage company committed to energy preservation and sustainability through the utilization of high-performance vacuum insulation. The first application our technology, Klimate Kontrol, is in the insulation of refrigerated vehicles. Klimate Kontrol reduces operating costs by up to 50% and increases carrying by up to 27% due the thinner insulation.

**Team:** Laura Klibanow, Jacob Kist and James Parks

**Faculty Adviser:** Rodney Shrader

## **UNIVERSITY OF LOUISVILLE**

**Venture:** NanoMark Therapeutics

**Concept:** NanoMark Therapeutics has developed AUra, for the treatment of ovarian cancer. AUra targets cancer cells only, minimizing negative side effects to healthy cells. AUra also reduces dosage requirements 200-fold. AUra passed Round 1 of animal testing with compelling results. This patent-pending drug can treat and diagnose 12 different cancer types.

**Team:** Sham Kakar, Gary Degen, Cohin Kakar, Dave Noack and Viji Sundar

**Faculty Adviser:** Professor Van Clouse

## **UNIVERSITY OF MANITOBA**

**Venture:** A2K Technologies

**Concept:** A2K Technologies is a private for-profit Canadian product development company working to commercialize their flagship product ColoSpec. Studies have shown that ColoSpec™, a colorectal cancer-screening tool from A2K Technologies, has the ability to accurately and reliably detect colorectal neoplasia in a non-invasive, patient-friendly manner.

**Team:** Andrea Legary, Anocha Jivanuwong and Katherine O'Rourke

**Faculty Adviser:** Robert Warren

## **UNIVERSITY OF MICHIGAN**

**Venture:** Nalu Solar Software

**Concept:** Nalu Solar Software (Nalu) provides a complete, end-to-end software solution for solar photovoltaic (PV) contractors that allows them to sell, design and install PV systems easily and accurately regardless of their level of expertise.

**Team:** Jennifer McLaughlin, Prashanth Prasad and Imogen Taylor

**Faculty Adviser:** Paul Kirsch

## **UNIVERSITY OF OREGON**

**Venture:** Mosaic Genetics

**Concept:** Mosaic Genetics LLC is bringing to market a new drug discovery tool, in the form of a genetically engineered mouse, which will allow scientists to unlock the secrets of cancer at the cellular level. In short, our proprietary mouse provides researchers the information they need to develop better anti-cancer drugs faster.

**Team:** Elizabeth Holsapple, Nick Boehm and Yonatan Schultz

**Faculty Adviser:** Don Upson

## **UNIVERSITY OF TEXAS AT AUSTIN**

**Venture:** Ordoro

**Concept:** Ordoro is a simple, web-based order management software for small online retailers. Ordoro's goal is to improve the business productivity on back-end order fulfillment activities; thus allowing the business owner to focus on critical front-end revenue generation activities.

**Team:** Jagath Narayan, Sangram Kadam and Naruby Schlenker

**Faculty Adviser:** Rob Adams and Ann Whitt