



**University at Buffalo**  
*The State University of New York*

*Inventors*  
*and*  
*Entrepreneurs*  
*Reception*

Monday, March 23, 2015  
4:00-6:00 PM  
UB Center for Tomorrow





## **Welcoming Remarks**

Robert J. Genco  
Vice Provost, STOR



Charles F. Zukoski  
Provost



Satish K. Tripathi  
President



## **Introduction of UB Inventors Named on U.S. Patents Visionary Innovator Awards Entrepreneurial Spirit Awards**

Jeffrey A. Dunbar  
Director, STOR



## **Introduction of UB Technology Incubator Awards**

Woody Maggard  
Associate Vice Provost, STOR



## **Student Entrepreneur Fellowship Awards**

Martin Casstevens  
Business Formation and Commercialization Manager



## **Closing Remarks**

Venu Govindaraju  
Vice President for Research and Economic  
Development (Interim)

## UB Inventors Named on U.S. Patents in 2014

---

### **8,731,293 Representing Signals for Classification**

*UB Inventor:* Adly T. Fam, Electrical Engineering

*Collaborator:* Aaron J. Roof, formerly of Electrical Engineering

### **8,859,000 Synthesis of Nanoparticles by a Emulsion-Gas Contacting Process**

*UB Inventor:* Paschalis Alexandridis, Chemical and Biological Engineering

*Collaborator:* T.J. Mountziaris, formerly of Chemical and Biological Engineering

### **8,765,387 Method of Diagnosing Sjogren's Disease**

*UB Inventor:* Julian L. Ambrus, Jr., and Long Shen, both of Medicine

### **8,798,374 Automated Facial Action Coding System**

*UB Inventor:* Mark Frank, Communications

*Collaborators:* Marian Bartlett, Ian Fasel, Gwen Littlewort-Ford, Javier Movellan, all from University of California, San Diego

### **8,857,110 Negative Stiffness Device and Method**

*UB Inventor:* Michael C. Constantinou and Andrei M. Reinhorn, Civil, Structural & Environmental Engineering

*Collaborators:* Apostolos A. Sarlis, formerly Civil, Structural & Environmental Engineering; Douglas Taylor and David A. Lee, Taylor Devices, Inc.; Satish Nagarajaiah and Dharma Theja R. Pasala, Rice University

### **8,906,343 PAA Nanoplatfoms Containing Fluorophores and Targeted Moieties Covalently Linked and Photosensitizer Post-Loaded**

*UB Inventor:* Munawwar Sajjad, Nuclear Medicine

*Collaborators:* Ravindra K. Pandey from Roswell Park Cancer Institute; Raoul Kopelman from University of Michigan, and Anurag Gupta formerly of Roswell Park Cancer Institute

## Visionary Innovators

### UB Technologies Licensed to Industrial Partners in 2014

---

**Use of RNA inhibitors based on IL-14 and antibodies to IL-14 for the treatment of autoimmune diseases and lymphomas**

*UB Inventor: Julian L. Ambrus, Jr. and Long Shen, both of Medicine*

*Industrial Partner: Boss Translational Medicine, Ltd.*

**Use of anti-T antibody to block metastasis of T antigen bearing tumors**

*UB Inventor: Kate Rittenhouse-Olson, Biotechnical and Clinical Laboratory Science*

*Industrial Partner: For-Robin Inc.*

**Automated determination of the alveolar crest height from dental radiographs**

**and**

**Model based method for identifying tooth structures**

**and**

**Automated determination of landmark position for a tooth in dental radiographs**

**and**

**Model based method for identifying tooth structures in radiographic images**

*UB Inventors: Kenneth R. Hoffmann, Neurosurgery*

*Industrial Partner: Imagination Software Corporation*

**Hybrid anti-fouling films**

**and**

**Anti-fouling /foul release surfaces in a marine environment**

*UB Inventor: Michael Detty and Frank V. Bright, Chemistry*

*Industrial Partner: SiliCycle*

**Compact negative stiffness bracing system**

*UB Inventor:* Michael C. Constantinou and Andrei M. Reinhorn, Civil, Structural & Environmental Engineering

*Industrial Partner:* Taylor Devices, Inc.

**Research reagents for human serum paraoxonase status  
and**

**Monoclonal antibody to paraoxonase and uses**

*UB Inventor:* Richard Browne and Kate Rittenhouse-Olson, Biotechnical and Clinical Laboratory Science and James R. Olson, Pharmacology & Toxicology

*Industrial Partner:* ZeptoMetrix Corporation

**Mechanically activated channel blocker  
and**

**Peptide to block mechanically activated channels**

*UB Inventor:* Frederick Sachs and Thomas Suchyna, Physiology and Biophysics

*Industrial Partner:* Tocris Bioscience

# Entrepreneurial Spirit

## 2014 UB Faculty Entrepreneurs

---

### **Boss Translational Medicine, Ltd.**

Founded by Julian Ambrus, Jr., Medicine



### **For-Robin Inc.**

Founded by Kate Rittenhouse-Olson, Biotechnical and Clinical Laboratory Science



### **Imagination Software Corporation**

Founded by Kenneth R. Hoffmann, Neurosurgery



## 2014 UB Technology Incubator Company Entrants

---

### **Biologichem LLC**

[www.biologichem.com](http://www.biologichem.com)

Biologichem LLC, a pharmaceutical and biotechnology R&D and consulting firm, designs, synthesizes and develops commercial routes for chemical products. Biologichem utilizes a variety of enabling technologies to provide cost-effective and environmentally friendly processes.



### **Dimien LLC**

[www.dimien.com](http://www.dimien.com)

Dimien is focused on the development and commercialization of energy related materials that lead to product innovations. With an emphasis on accelerating time to market, Dimien focuses on transitioning laboratory innovations into commercially viable products with agility and efficiency. Dimien is best known for their "smart" window film that dynamically controls solar heat gain in buildings. The applied film turns ordinary and out-of-date windows into "smart windows" that would both increase energy efficiency and comfort in buildings.



### **Nupur Technologies, LLC**

[www.nupurtech.com](http://www.nupurtech.com)

Nupur Technologies, LLC is a medical device company, whose mission is to design, develop and market new, patented, cost effective technologies in the medical device field. Based in Buffalo, New York, Nupur draws upon the rich tradition of manufacturing excellence in the region. Nupur's expertise includes assembly, testing, automation, and US and international standards compliance. Their State-of-the-art facilities, equipment and administrative sophistication provide superior value.





## **Specialized NDE Inc.**

[www.specializednde.com](http://www.specializednde.com)



Specialized NDE is a company that supports industry, manufacturing, and inspection companies with specialized services within the field of Non-Destructive Evaluation. Specialized NDE offers a full suite of services designed to help move projects forward including: solving inspection problems, assisting in incorporating new technologies, procedural reviews, training or staffing support.

## **Swish Energy Inc.**

[www.swish4energy.com](http://www.swish4energy.com)



Swish Energy specializes in the production of an oral rinse consumer product designed to enhance cognition, increase physical stamina, and freshen breath. The product targets people on the go who are looking for a quick boost of energy, an increased level of alertness, and fresh breath.

## **You First Services, Inc.**

[www.youfirstservices.com](http://www.youfirstservices.com)



You First Services offers preventive health care services, environmental control diagnostics, environmental air treatment devices and research, and educational programs aimed at contributing towards the health requirements of individuals and professionals. With a unique preventive health care model they aim to reduce hospital admissions, emergency department visits and unnecessary advanced diagnostics use. You First Services strives to create new ways for individuals to lead improved, healthy lives by focusing on personalized care to ease the overall economic burden of health care.

## **Vascudyne Inc.**

Vascudyne is a company currently working on developing a tissue-based coronary bypass graft.

## 2014 UB Technology Incubator Company Graduates

---

**Optoelectronic Nanodevices, LLC**

[www.open-buffalo.com](http://www.open-buffalo.com)



Optoelectronic Nanodevices LLC has been established to commercialize scientific and engineering achievements into real optoelectronic devices, such as solar cells and photodetectors. The company develops novel optoelectronic nanomaterials with enhanced photoresponse, high photovoltaic efficiency, and low recombination losses. The company has been founded by UB professors highly qualified in the area of photonics, nanoelectronics, and material science. The company provides design of advanced devices and technological support.

**Refulgent Software LLC**

[www.amburapp.com](http://www.amburapp.com)



Consisting of a team with numerous years of experience in the restaurant industry, Refulgent Software LLC set out to create a powerful, easy to use point of sale system for the hospitality and restaurant industries. Their restaurant management app, Ambur, was officially released in the App Store in April, 2011. Refulgent Software is committed to providing restaurant owners with the most advanced point of sale system at an affordable price.

## 2015 eLab Fellowships

---

Mahmoud Kamal Ahmadi – PreMeR X

Jorge Cueto – Smart Walls

Joseph Peacock – Igloo

Rohan Shah - InteractiveX

## **Bruce Holm Memorial Catalyst Fund**

---

The Bruce Holm Memorial Catalyst Fund was created through an initial endowment from an anonymous donor.

The Fund is intended to support applied research and development directed specifically to prepare new UB technology for commercialization. Proof-of-concept, prototype development, toxicity testing, marketing and other studies to advance the technology are all supported.

**To donate to the Bruce A. Holm Memorial Catalyst Fund:**

<http://giving.buffalo.edu/giving-options/honorary-and-memorial-gifts/stor-bruce-holm.html>

## **STOR Entrepreneur-in-Residence Program**

---

The objective of the STOR Entrepreneur-In-Residence (EIR) program is to identify high potential UB technology startup opportunities and to support the formation and growth of those companies. Experienced business people and entrepreneurs are engaged to work with UB inventors interested in forming a company. Projects include business plan and marketing plan development, competitive analysis, intellectual property strategy and voice-of-customer market research. Funding for the program is provided by grants from the U.S. Economic Development Administration and the SUNY EIR program. Contact Jeff Dunbar for more information.

## WNY Innovation Hot Spot

---

The UB Technology Incubator has been awarded the NYS Innovation Hot Spot and Business Incubator designation. This designation, which includes collaboration with regional partners, will provide funding to advance entrepreneurial assistance initiatives across Western New York.



The effort seeks to ignite an entrepreneurial ecosystem and assist WNY in becoming a hub for innovation and economic development.

Partners include SUNY Fredonia Technology Incubator, BNMC Innovation Center, Z80 Incubator Labs, Ceramics Corridor Incubator (Alfred), Harrison Place (Lockport), UB Center for Entrepreneurial Learning, LaunchNY and UB Center of Excellence in Bioinformatics and Life Sciences.

## Directed Energy

---

Renewable energy startups and entrepreneurs advancing technology and introducing new products receive directed assistance from UB STOR's Directed Energy program. The NYSERDA-funded, virtual incubator program engages clients with a wide range of services procured with small grants and, in some cases, strategic investments. Clients are expected to seek investments, launch new products, and grow their businesses. Contact Martin Casstevens for more information.



## tenX

---

In 2014, tenX, UB's co-working space was launched at the UB Technology Incubator. This space affords various levels of membership for early-stage companies and entrepreneurs. It provides a professional space for working or holding meetings with a mix of open space and private meeting rooms.



For more information, or to schedule your tour of tenX, please email: [tenX@buffalo.edu](mailto:tenX@buffalo.edu), or call Sara at 716.645.3515.

## eLab

---

The Entrepreneurial Lab (eLab) is a 3-credit winter session course designed for students with entrepreneurial ideas and the intention to create viable business ventures from these ideas. The eLab also prepares students for competing in the eLab Fellowship program. Most participants will also participate in the Panasci Technology Entrepreneurship Competition and the State Business Plan competition after successful completion of this course. STOR co-sponsors and instructs this course with the UB School of Management.

## SUNY-INC Insurance Program

---

SUNY-INC Insure provides discounted access to certain forms of business insurance, including general liability, product liability, directors' and officers' liability and statutory workers compensation. Startup companies formed to commercialize UB technology, UB incubator clients, entities affiliated with UB commercialization programs or certified WNY Innovation Hot Spot clients – in their first three years of formation – may qualify for this valuable program. STOR is the UB representative for this program; contact Kimberly Kohl for more information.

## Contact Information

---

### **Jeff Dunbar**

*Director*

111 Baird Research Park, North Campus

Phone: (716) 645-8134

Email: [dunbarj@buffalo.edu](mailto:dunbarj@buffalo.edu)

### **Martin Casstevens**

*Business Formation & Commercialization Manager*

103 Baird Research Park, North Campus

Phone: (716) 645-8133

Email: [mkc@buffalo.edu](mailto:mkc@buffalo.edu)

### **Thomas Murdock**

*Innovation Hot Spot Manager*

110 Baird Research Park, North Campus

Phone: (716) 645-7367

Email: [murdock2@buffalo.edu](mailto:murdock2@buffalo.edu)

### **Kimberly Kohl**

*Business Manager*

110 Baird Research Park, North Campus

Phone: 716-645-8135

Email: [krohring@buffalo.edu](mailto:krohring@buffalo.edu)

**Contact STOR at (716) 645-5500 or visit us at:**

**<http://www.research.buffalo.edu/stor>**

**1576 Sweet Home Road**

**UB Technology Incubator**

**Amherst, NY 14228**





The University at Buffalo Office of Science, Technology Transfer, and Economic Outreach (STOR) is UB's interface between the inventive work of laboratory research and the applied commercial development that brings the benefits of that work to market.

STOR promotes economic revitalization through technology transfer and economic outreach activities, and fosters partnerships between UB - New York's major public research university - and the business community. STOR manages the UB Incubation Services program, which includes the UB Technology Incubator, the UB Biosciences Incubator and the Directed Energy Virtual Alternative Energy Incubator.

STOR is led by UB Vice Provost Robert J. Genco, D.D.S., Ph.D., SUNY Distinguished Professor of oral biology and microbiology. Dr. Genco is a world-renowned scientist with demonstrated success in commercializing both his own discoveries and those of others.

STOR provides business leaders, researchers, and entrepreneurs with easy access to UB's extensive resources and expertise.