

Entrepreneur Training Session

Industrial Liaison **Bernadeta Wysocka**

Princeton University

ILO Retreat, Pittsburgh, June 19-21, 2012



NSF

NSF-ERC Cooperative Agreement EEC-0540832



Outline

- Entrepreneurship at Princeton University
- •MIRTHE initiatives of interaction with industry and VC
- Entrepreneurship contests
- MIRHTE Support for Start-ups



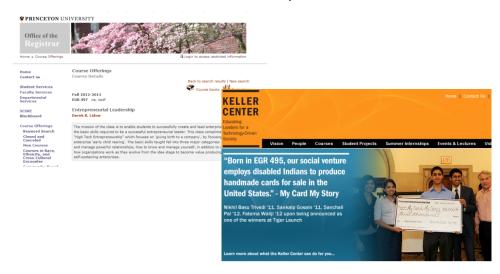
Princeton Entrepreneurship Education

Entrepreneurship Courses at Princeton University

- Undergrad and Grad- level courses:
 - EGR 495: http://commons.princeton.edu/kellercenter/2012/03/egr-495-the-lean-launch-pad.html
 - EGR 491: http://registrar.princeton.edu/coursefferings/course details.xml?courseid=002518&term=1132
 - EGR 497: http://registrar.princeton.edu/course-offerings/course_details.xml?courseid=012025&term=1132
- Students involved in active search for Princeton technologies with potential for commercialization (business plan)
- Entrepreneurship Lab @ Princeton http://kellercenter.princeton.edu/elab/
 - summer (10 weeks) program, stipend
 - work together with entrepreneurs, assigned mentors, participate in trainings and workshops.

Entrepreneur in Residence on campuses

 make connections and use them as consultants for start-ups and feature business leaders, pitch contests





MIRTHE Investment Focus Group

<u>Mission</u>: Introduce venture capital, angel and other investment professionals to mid-infrared technologies and applications opportunities

- > A network of venture and angel investors seeking opportunities from MIRTHE technologies
- Provides introduction to students, faculty, promising start-ups, small businesses, and large end-user members
- Serves as a window and allows input into development of MIRTHE technologies and applications roadmap
- > Joint assessment of technology readiness and approaches to commercialization
- Formed in early 2010; Co-chaired by Dr. Mort Collins and Dr. Ralph Taylor-Smith of Battelle Venture
- 23 board members

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Annual workshops

Oct. 2010 - focused on MIRTHE all applications

Oct. 2011 - medical applications

April 2012 - defense and security (workshop at SPIE)

Student benefits:

- get mentors
- attend meetings and workshops
- present oral presentations and posters
- networking with VCs



- NOT an investment fund but could serve as a spring board
- IFG strengthens the entrepreneurial aspect of MIRTHE industry program

Innovation competitions and meetings



NJ Entrepreneurial Network networking and poster session Princeton 2009

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Post-doc wins 2nd place at the Pitch contest at Innovation Forum,
Princeton 2012

- Make connections with local entrepreneurial networks and agencies to organize joint workshops and meetings:
 - ✓ NJ Small Business Development Center (SBIR workshops)
 - ✓ NJ Entrepreneurial Network (networking and poster session)
 - BioNJ (networking and poster session)
 - low cost events
 - in return agencies bring their VC network to campus (e.g. entrepreneurs, company executives, venture capitalists, angel investors, investment bankers)
- Work with tech-transfer offices at partnering universities
 - ✓ Industry Affiliates Day (Rice U.) poster session, prototypes demo
 - ✓ Innovation Forum by Keller Center (Princeton U.) pitch contest
 - Celebrating Innovation (Princeton U.) poster session, prototypes demo



Graduate student wins 2nd prize at Optoelectronics Start-up Challenge,
Photonics West 2012

- Look for Pitch Contests not only at local but also major international conferences
 - Photonics West (San Francisco)
 - CLEO (San Jose)



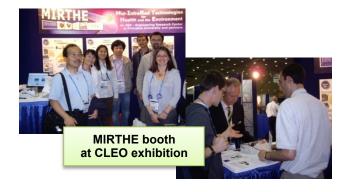
Innovation competitions and meetings

Trade shows

- Involve students in activities i.e.:
 - work the booth
 - prototypes demonstration
 - networking meeting with industry
- Make a good trade show selection
 - technical conference well attended by students and faculty
 - strong presence of industry members
- Allow Startups to exhibit at MIRTHE booth at no cost

Student Retreat – Industry Focus Forum

- focused on challenges and opportunities when starting a new company
- panel discussion and presentation





MIRTHE start-up story

RBICETON, N.J. - A prototype laser spectroscopy platform developed by electrical engineers at Princeton University ttracted a lot of attention when it was demonstrated during SPIE Photonics West 2010 in January. The sensor, a new evelopment in wireless sensor networks for monitoring trace gases and chemicals, use an infrared laser operating





Press release and video featured in Photonics **Spectra Magazine**

- January 2010 Showcase at a major international conference
 - ✓ Stephen So (post-doc) presenting his prototype to industry at the MIRTHE booth
 - make connection with media
 - (MIRTHE created a membership level called: Media Affiliate partner based on in-kind donations like articles in trade journals, videos, webinars)



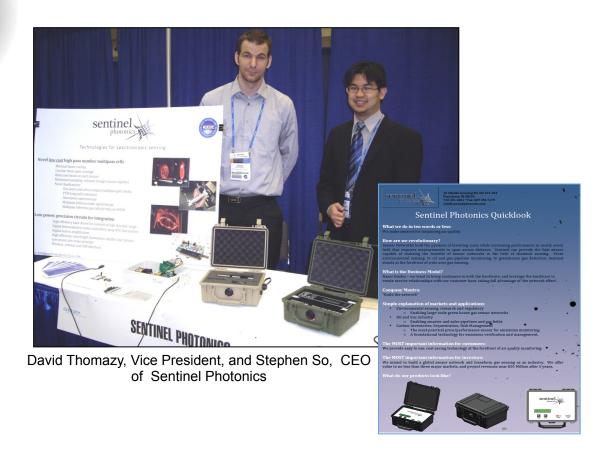
- March 2010 Presence at local venture conference
 - Prototype showcase
 - Oral presentation
 - Pitch judged by VCs

- April 2010 Elevator Pitch at Innovation Forum, Princeton University (judged by VCs)
 - second place (April 2010)





Sentinel Photonics lunched in April 2010



Lessons-learned

- ✓ Get students out from their labs
- ✓ Let them "show off" their work
- ✓ Make them interact with industry, VCs, entrepreneurs, and future customers
- Students should confirm with their faculty advisor before submitting for poster sessions and pitch contests (IP)

