



ILLINOIS

THE OFFICE OF
TECHNOLOGY
MANAGEMENT

FISCAL 2014

ANNUAL REPORT



The Office of Technology Management

FISCAL 2014 ANNUAL REPORT

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Lawrence Schook, Vice President for Research



The Office of the Vice President for Research (OVPR) advances the economic development mission of the University of Illinois by elevating ideas and innovations into sustainable technologies and businesses. Our innovation pipeline provides a process and platform for technology transfer, company formation, and, inevitably we hope, start-up and licensee success.

The Offices of Technology Management (OTMs) are responsible for protecting and managing the University's ideas and intellectual property. Through the leadership of

Nancy Sullivan and Jeremy Hollis in Chicago and Lesley Millar-Nicholson in Urbana, the OTMs continue to find innovative ways to help students and faculty advance their research discoveries, resulting in new technologies and start-up companies.

Demonstrating this, here are some highlights from Fiscal 2014:

- **Proof-of-Concept Award Programs** – The Chicago and Urbana campuses administered successful proof-of-concept award programs that are designed to help faculty increase their chances of commercialization and start-up success. More than \$800,000 was awarded to help researchers across both campuses advance selected technologies. In addition to funding, award recipients receive commercialization support and access to other start-up resources.

- **Innovate@UIC** - OTM-Chicago, IllinoisVENTURES, and EnterpriseWorks Chicago launched Innovate@UIC, a new initiative that supports innovation and technology commercialization on the UIC campus. By integrating these units and functions, the University can better serve the needs of UIC innovators.
- **Share the Vision Technology Showcase** - OTM-Urbana hosted its second technology showcase, a two-day event that highlights the extraordinary research, technology, and start-ups arising on the Urbana campus. This event helped facilitate new connections for more than 200 participants including University inventors and visiting entrepreneurs, corporate partners, and venture capitalists.
- **U.S. Utility Patent Ranking** - The University of Illinois was ranked #11 on the "Top 100 Worldwide Universities Granted U.S. Utility Patents" list. This ranking, compiled by the Intellectual Property Owner's Association and the National Academy of Inventors, recognizes the global impact of U of I research and innovations.

More than ever, University research is acknowledged as critical to the U.S. economic ecosystem. It is a great privilege to work so closely with our brilliant researchers and talented OTM staff members as they engage to enhance research and innovation through the transfer of intellectual property, thus driving economic growth for the state of Illinois and beyond.

Fiscal 2014

Disclosures	179
U.S. Patent Applications Filed	203
U.S. Patents Issued	78
Licenses & Options	38
Start-Ups	6
Royalties Earned	\$5.26M

Five-Year History: Fiscal 2010 – Fiscal 2014

Invention Disclosures



U.S. Patents Filed



Licenses & Options



U.S. Patents Issued



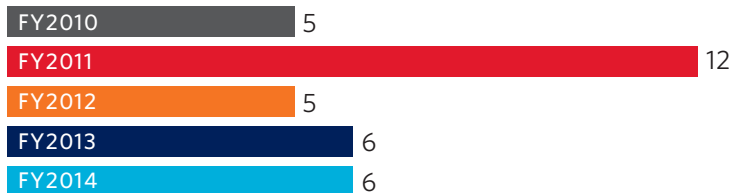
Royalties (\$ MILLIONS)



Patent Costs (\$ MILLIONS)



NUMBER OF START-UPS



Read more about new and existing start-ups on pages 18 and 20.



Dear Colleagues,

I am proud to present this Fiscal 2014 Annual Report, in which you will find highlights of the activities and accomplishments surrounding innovation and entrepreneurship on our campus.

Our report is organized to reflect the flow of technology commercialization from research to transfer to impact, and to show how our office is involved at virtually every point in supporting emerging technologies and new business ventures.

Research: The University's world-class research enterprise is the foundation of our intellectual property portfolio. To help support faculty, we provide tools to facilitate research collaborations (page 11), we are involved in the IP negotiations in major sponsored research agreements and strategic engagements (page 10), and, whenever we have the opportunity, we showcase the University's stellar researchers (pages 8-9).

Transfer: Protecting, marketing, and licensing the University's intellectual property is the core of our mission (pages 12-17). In addition, and more than ever before, the OTM and the University community offer supporting programs and services for innovators and entrepreneurs (pages 12-13).

Impact: From new companies (page 18) to the achievements of our existing start-ups (page 19) to new licensing partnerships with existing corporations (page 20), the impact of transferring University IP into companies, products, and services is substantial.

As always, our successes would not have been possible without the support of our community of outstanding researchers, innovators, entrepreneurs and other partners.

We look forward to working with you this year.

Lesley Millar-Nicholson, Director
Office of Technology Management

OTM is involved at virtually every point in supporting emerging technologies and new business ventures.

Fiscal 2014 Summary

College/Department/Unit	Disclosures	U.S. Patent Applications Filed	U.S. Patents Issued	Licenses & Options
Campus Total	179	203	78	38
College of Agricultural, Consumer, and Environmental Sciences	24	12	7	8
Agricultural & Biological Engineering	3	1	3	
Agricultural & Consumer Economics	1			
Animal Sciences	3	1		
Cooperative Extension	7			1
Crop Sciences	7	3	2	4
Food Science & Human Nutrition	6	6	2	2
Information Technology & Communications Services				1
Natural Resources & Environmental Sciences	1	2	1	
Nutritional Sciences, Division of	1			
Plant Biology		1		
College of Education	1			
Education Policy	1			
College of Engineering	100	124	61	18
Aerospace Engineering	8	7	5	2
Bioengineering	20	17	6	3

College/Department/Unit	Disclosures	U.S. Patent Applications Filed	U.S. Patents Issued	Licenses & Options
Civil & Environmental Engineering	8	6	2	1
Computer Science	12	3	2	4
Coordinated Science Lab	3		1	1
Electrical & Computer Engineering	40	57	31	6
Materials Research Lab	9	9	2	
Materials Science & Engineering	30	37	13	5
Mechanical Science & Engineering	7	23	11	2
Micro & Nanotechnology Lab	14	13	2	3
Nuclear, Plasma & Radiological Engineering	2	6	2	
Physics	6	7	3	1
Theoretical & Applied Mechanics				1
College of Fine & Applied Arts		2		
School of Music		2		
College of Liberal Arts & Sciences	47	75	14	13
Biochemistry	5	3	1	3
Biophysics & Computational Biology	1	1	1	
Cell & Developmental Biology	7	3		6
Center for African Studies	1			
Chemical & Biomolecular Engineering	6	10	1	
Chemistry	23	59	11	6
Entomology	1	1		1
Microbiology	1	1	1	1
Molecular & Integrative Physiology	1			
Plant Biology	4			
Psychology	1	1		
School of Integrative Biology	1			

College/Department/Unit	Disclosures	U.S. Patent Applications Filed	U.S. Patents Issued	Licenses & Options
College of Medicine	2	1		
Medical Information Science		1		
College of Veterinary Medicine	1	3	1	
Pathobiology		2	1	
Veterinary Clinical Medicine		1		
Academic & Research Units				
Advanced Digital Sciences Center	5			
Beckman Institute for Advanced Science & Technology	21	32	21	12
Information Trust Institute				1
Institute for Genomic Biology	15	11		3
Library & Information Science, School of	3			
National Center for Supercomputing Applications	4		1	2
Illinois State Geological Survey		1		
Illinois State Water Survey	1			
Illinois Sustainable Technology Center				1
Natural History Survey	1			
Non-Academic & Administrative Units				
AITS	1			
CITES				1
Facilities & Services		1		
Library	1			
Office of Corporate Relations				1
Office of the Chancellor				1
Office of the Vice Chancellor for Student Affairs	1			

Note: Due to the large amount of interdisciplinary research on campus, inventions are often associated with more than one college, department, or unit. As a result, the numbers reported in the table above may be counted multiple times, once for each associated college of unit. For the same reason, the totals for each college may be smaller than the sum of their departments.

Share the Vision 2013

Our 2nd Share the Vision research and start-up showcase, co-hosted by OTM and the Research Park, took place over 2 days in October 2013. Share the Vision helps connect University inventors, innovators, and entrepreneurs with corporate partners and venture capitalists. The goal is to create opportunities for further innovation and innovation transfer.

The event included presentations from 35 faculty and more than 30 start-up companies. There were also panel discussions and facility tours. Share the Vision drew **more than 200 participants**, with attendees coming from across the country.

Since Share the Vision has been such a success on campus, OTM is taking it on the road. **The first regional event will be held in conjunction with the University of Illinois Foundation's Silicon Valley Roundtable hosted by Chancellor Phyllis Wise on November 18, 2014.**

Below: Scenes from Share the Vision 2013. (Photos: Jon Dessen, Illini Studio)



PARTICIPATING COMPANIES

Corporations:

- Abbott
- Ameren Corporation
- Amgen Inc.
- ATSP Innovations
- BASF Corporation
- Beijing Ansheng
- Blakely Sokoloff Taylor & Zafman
- Caterpillar Inc.
- Dell
- Eli Lilly & Company
- EMD Millipore
- EpiWorks
- Force Diagnostics
- Google
- HelpHippo
- Hyde Park Angels
- IHI Corporation
- Illinois Partners
- INOAC Group
- INOS Technologies
- ISS, Inc
- Janssen Research & Development

- Konica Minolta Laboratory USA
- Life Science Angels
- Life Technologies
- Marcus Law
- Mentor Management, LLC
- Merck & Co., Inc.
- MicroLink Devices
- Monsanto
- Motorola Solutions
- Neustar Inc.
- Parallel Worlds
- Plextronics
- Polsinelli PC
- Prairiefire Consulting, Inc.
- Rao Research and Consulting, LLC
- Riverbed
- Riverside Research
- Rogers Corporation
- Singleton Law Firm, P.C.
- Sony Biotechnology
- The Dow Chemical Company
- The HDF Group

- W.W. Grainger, Inc.
- Waterborne
- Woll Enterprises

Investors:

- Agile Equities
- Amgen Ventures
- Applied Ventures LLC
- Cultivian Sandbox Ventures
- Flavin Ventures
- Foundation Capital
- Hyde Park Angels
- Illinois VENTURES
- Life Science Angels
- Merck Global Health Innovation Fund
- New Venture Partners
- New World Ventures
- OCA Ventures
- Oracle Ventures
- Osage University Partners
- Serra Ventures
- Silicon Pastures Angels Investment Network



Innovation Celebration

Professor Stephen Boppart received the 2014 Innovation Transfer Award. The award was announced at the annual Innovation Celebration, a campus and community event that honors innovators and entrepreneurs.

The Innovation Transfer Award recognizes an individual or group from the University whose research has resulted in a discovery with the potential for significant societal impact. OTM received 17 nominations for the award.

Professor Boppart won for his work on medical imaging devices capable of delivering real-time microscopic imaging at the point of care. His research is being further developed in two start-up companies, Diagnostic Photonics and PhotoniCare.

Mark your calendars for next year's 10 Year Anniversary of Innovation Celebration Awards:
March 3, 2015, Krannert Center Lobby, 5:30 – 8:30 p.m.



Above Left: Innovation Celebration 2014 awardees and finalists. **Bottom Left:** Brett Walker, New Venture awardee for ElectronInks. **Bottom Right:** Innovation Transfer award finalists & awardee. Scott White (left), Stephen Boppart (center), and Stephen Sligar (middle)
(Photos: Justine Bursoni Photography)



President Obama announcing funding for the Digital Manufacturing and Design Innovation Institute, a first-of-its-kind manufacturing lab based in Chicago, supported with \$70 million in federal funding and \$250 million in partner and regional funding. OTM worked closely with multiple partner institutions to craft the intellectual property agreement that was part of the grant application. *(Official White House Photo by Lawrence Jackson)*

Innovation and Economic Prosperity University

The Association of Public Land Grant Universities (APLU) has named the University of Illinois as one of its Innovation & Economic Prosperity Universities.



From the APLU's press release (July 10, 2014): "The designation acknowledges universities working with public and private sector partners in their states and regions to support economic development through a variety of activities, including innovation and entrepreneurship, technology transfer, talent and workforce development, and community development."

Updates on Disclosures Resulting from Major Sponsored Research Agreements

Established centers:

Energy Biosciences Institute (EBI): Founded in 2007 with a \$500 million investment from BP for research in cellulosic fuels and fossil fuel microbiology at Illinois and UC Berkeley. Forty-two total disclosures since inception. Two disclosures in 2014.

Advanced Digital Sciences Center (ADSC): Established in 2009 with a grant from Singapore's Agency for Science, Technology and Research (A*STAR) to address challenges in computer science and engineering. Eleven disclosures since inception, including five in 2013/2014.

New and emerging centers:

Center for Nutrition, Learning and Memory (CNLM): Established in 2011 with a five-year investment from Abbott, CNLM supports pioneering research in nutritional compound utilization and mechanisms that enhance learning and memory. Three disclosures in 2013/2014

Joint Center for Energy Storage Research (JCESR): Established in 2012 to create new breakthroughs in energy storage technology and made possible by a \$120 million investment by the Department of Energy. JCESR includes 14 partner institutions and is administered by Argonne National Lab. One disclosure in 2014



Lesley Millar-Nicholson was present at the University's induction into the **National Academy of Inventor's**. College of Engineering professors Brian Cunningham and John Rogers were also inducted. *(Photo courtesy: Aimee Blodgett)*

OTM Advisory Committee

The Office of Technology Management thanks our advisory committee (OTMAC) for their guidance, input, and commitment.

Advisory Committee by College 2014-2015

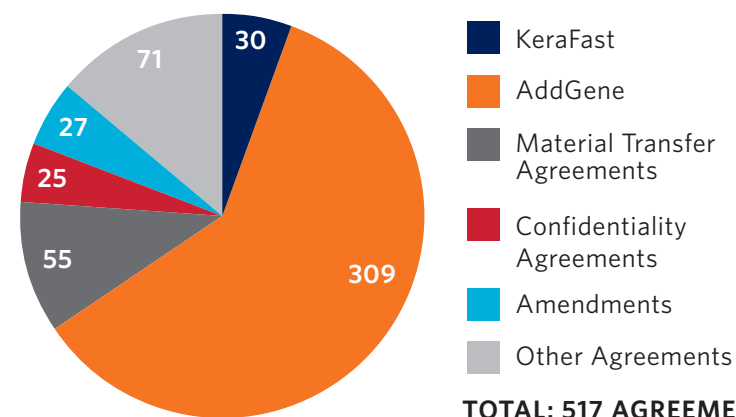
Michael Biehl	Veterinary Medicine
Isaac Cann	Agricultural, Consumer & Environmental Sciences; Liberal Arts & Sciences; Institute for Genomic Biology
Lizanne Destefano	Education
Carl Gunter	Engineering
Elizabeth Hsiao-Weckler	Engineering
Fatima Husain	Applied Health Sciences
Victor Jongeneel	NCSA and Institute for Genomic Biology
Wynne Korr, Chair	School of Social Work
David Lipari	Engineering
Yi Lu	Liberal Arts & Sciences
Deana McDonagh	Art & Design
Jim Morrissey	Liberal Arts & Sciences
Rob Pennington	NCSA
Jennifer Quirk	Institute for Genomic Biology
Paul Redman	Fine & Applied Arts
Beth Sandore Namachchivaya	Library
Jim Shriner	Education
Fei Wang	Liberal Arts & Sciences
Melissa Wasserman	Law

Tools to Reduce Transaction Costs and Encourage Tech Transfer

The Office of Technology Management has agreements in place with two online marketplaces in order to make it easier for faculty to transfer research materials such as reagents and plasmids to colleagues.

- **KeraFast** connects laboratories producing unique research materials with laboratories that need those materials. More than 100 institutions are currently providing materials through KeraFast. **In fiscal 2014, KeraFast handled 30 transactions for UI.**
- **AddGene** operates a plasmid repository for the research community. More than 1,300 laboratories have contributed to their library, and AddGene handles packaging, shipping, and material transfer agreements. **In fiscal 2014, AddGene handled 309 transactions for UI.**

FACILITATING COLLABORATIONS



The OTM manages many IP-related agreements in addition to licenses and options; these include confidentiality, material transfer, inter-institutional, and evaluation agreements.

These agreements help facilitate research collaborations and lay the groundwork for future technology transfer activity.

OTM Launches a \$500,000 Illinois Proof-of-Concept Program

The OTM launched the **Illinois Proof-of-Concept Program** (I-POC) in Spring 2014 to help address the funding gap between University innovations and the marketplace. I-POC helps “de-risk” technologies, making them more attractive to potential investors, funders, and licensing partners.

I-POC projects include a defined set of milestones that, if completed, help overcome specific hurdles to an innovation’s transfer outside of the University.

The I-POC Fund is currently made possible by contributions from colleges and units across campus and matching funds from the **Office of the Vice Chancellor for Research**. The Office of Technology Management is also working with campus advancement officers to try to create an ongoing and sustainable source of funding via alumni gifts.

For more information: otm.illinois.edu/IPOC

Five faculty projects were chosen for the first round of I-POC awards (\$195,000 awarded):

- **Kaustubh Bhalerao**, from the College of Agricultural, Consumer, and Environmental Sciences, for developing a **Soybean Cyst Nematode (SCN) testing service** that is faster and provides more precise data than existing solutions.
- **Stephen Boppart**, from the Beckman Institute for Advanced Science and Technology and the College of Engineering, for his **Quantitative Pneumatic Oscope**, which uses optical coherence tomography (OCT) to visualize middle ear disease.
- **Martin D. Burke**, from the College of Liberal Arts and Sciences, for **advancing a non-toxic amphotericin** toward clinical candidacy by developing a compound with the potential to become a frontline antifungal therapy.
- **Andrew Singer**, College of Engineering professor and Director of the Technology Entrepreneur Center, for developing a **high-speed underwater wireless communications system**.
- **Heinrich Taube**, from the College of Fine and Applied Arts, for **Harmonia**, which aims to replace paper-based music theory instruction with a mobile app that allows musical content to be created, edited, searched, annotated, and automatically graded.

PROOF OF CONCEPT FUNDING WORKS

Previous Proof-of-Concept projects on the Urbana campus have resulted in:



FOUR START-UP
COMPANIES FORMED

\$4mil

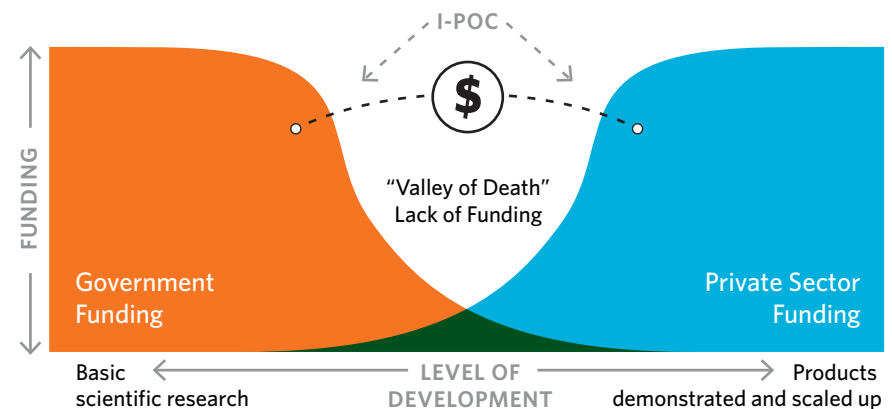
RAISED IN
VENTURE AND
ANGEL FUNDING



MORE THAN
\$1.1mil
IN ADDITIONAL
GOVERNMENT
FUNDING SUPPORT



MULTIPLE ONGOING
DISCUSSIONS WITH
LARGE CORPORATE
PARTNERS



Update on Supporting Programs for Innovators & Entrepreneurs

The Office of Technology Management, the Research Park, the Technology Entrepreneur Center and IllinoisVENTURES all offer programs and services that facilitate and support new venture creation. Taken together, these programs offer a comprehensive set of resources addressing many of the challenges faced by new businesses.

On-Site Expertise through Entrepreneurs-in-Residence (EIR's):

- Free individual mentoring and consulting for faculty, students, and staff
- Monthly training events
- More than 1,290 consultation meetings since the program began four years ago

Lean Start-Up Training through NSF I-Corps Site:

- UI is one of only 10 NSF I-Corps sites
- Thirty teams have completed the program already
- Teams have gone on to raise more than \$4 million so far

Early Guidance through Chicago Innovation Mentors (CIM):

- Matches new technology-based ventures with experienced mentor teams
- Mentors help young companies understand their potential market and validate their value propositions
- Seven faculty from Urbana have presented at CIM; each has secured a mentor team

Hitting the Ground Running with ISTART:

- First-year start-up professional services for new companies including legal services, business planning, SBIR assistance, and financial services

Top: Laura Frerichs, Director, Research Park (Photo: Justine Bursoni Photography) **Middle:** Jed Taylor, Operations Director, Technology Entrepreneur Center and Research Park Entrepreneur-in-Residence
Bottom: Nancy Sullivan, CEO and Senior Managing Director, IllinoisVENTURES

- Twenty-five companies have received first round ISTART funding; 16 have become EnterpriseWorks tenants or affiliates
- Three first round ISTART companies have graduated from the incubator

Early and Seed Funding through IllinoisVENTURES (IV):

- IV has more than \$65 million under management and investments in 75 companies
- IV companies have attracted more than \$600 million in follow-on funding (13:1 leverage)

Improving the Odds for SBIR & STTR Funding through the Technical Assistance Program:

- Free individual consultations and workshops help identify solicitations, write grant proposals, draft budgets, and complete contracts
- EnterpriseWorks clients have received more than 193 SBIR & STTR awards, totaling more than \$49 million

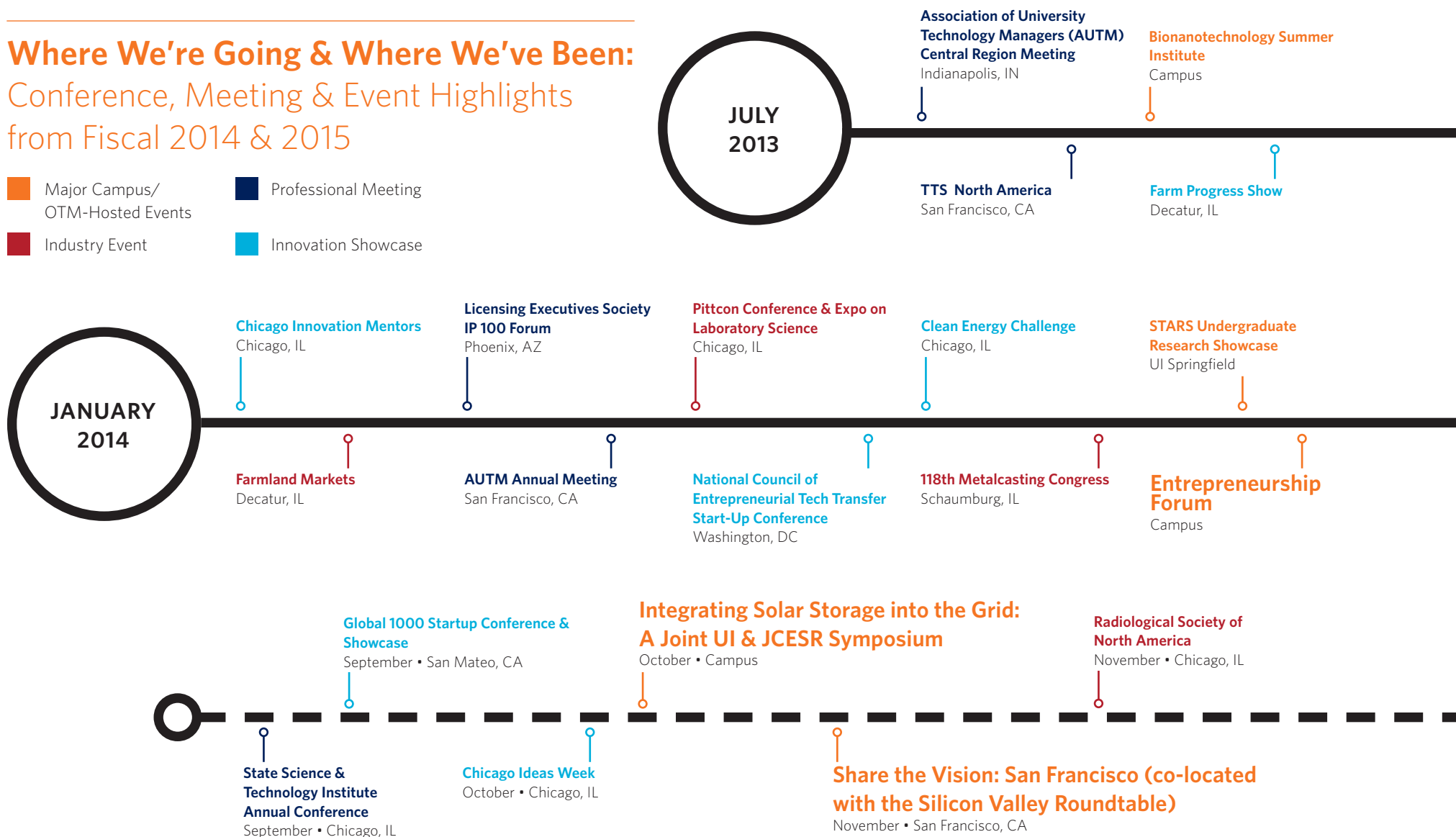


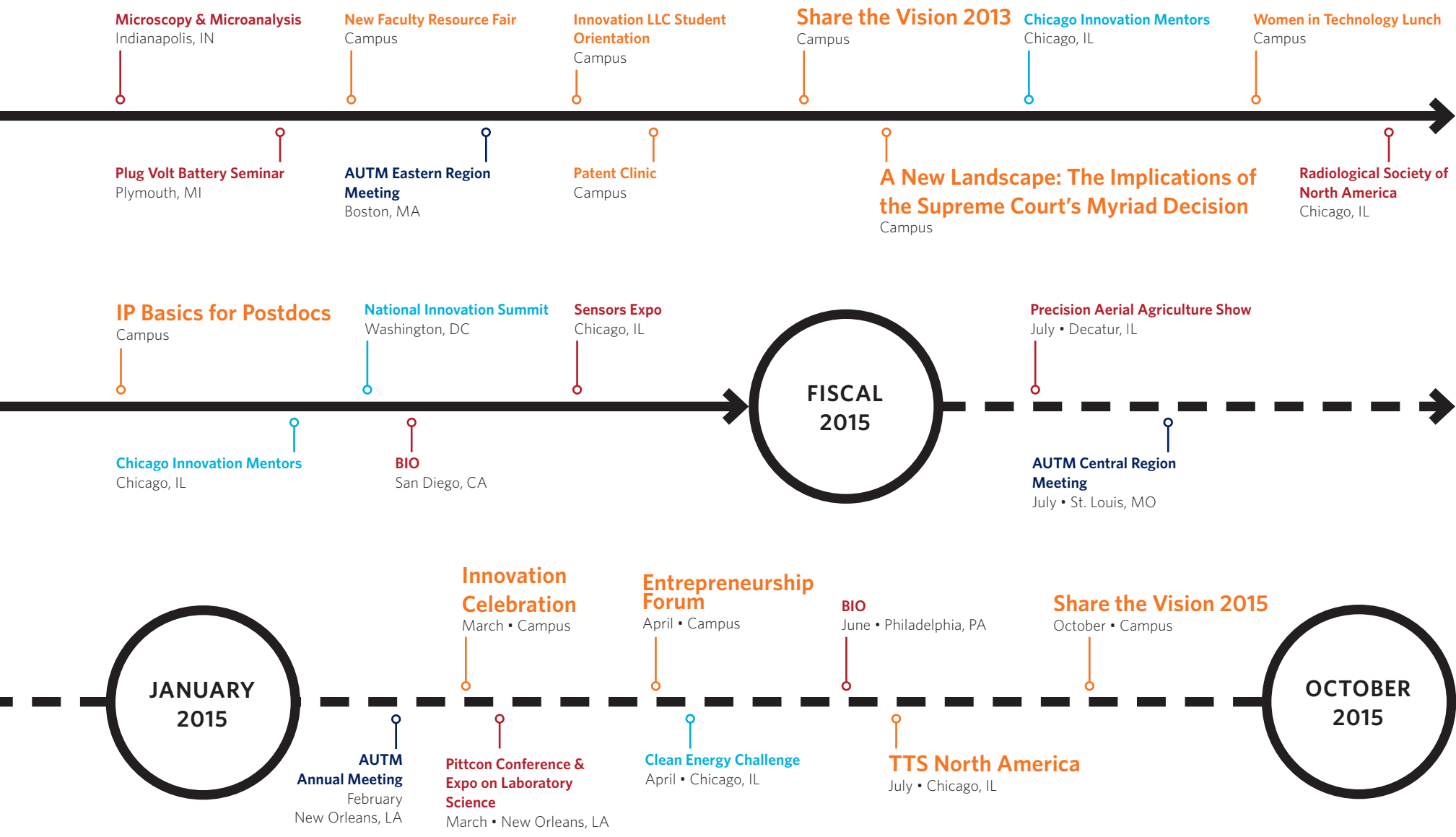
RESEARCH PARK EXPANSION

- Deere & Company is doubling the size of its innovation center to 13,500 square feet.
- Yahoo broke ground on a new building that will increase their space to 40,000 square feet.
- Silicon Valley advertising technology firm Turn opened an innovation center in the Park.

Where We're Going & Where We've Been: Conference, Meeting & Event Highlights from Fiscal 2014 & 2015

- Major Campus/OTM-Hosted Events
- Professional Meeting
- Industry Event
- Innovation Showcase





IP Updates

UI ranks #11 in the World for Universities Granted U.S. Patents

The University of Illinois (all campuses) was **#11 on the list of top 100** worldwide universities granted U.S. utility patents in 2013. The National Academy of Inventors and the Intellectual Property Owners Association compile the list.

An Active Term for the Supreme Court

The U.S. Supreme Court heard six patent cases in the term that ended June 30, 2014, weighing in on a variety of patent issues, including fee shifting, infringement, and patentable subject matter. This is the most patent cases the Supreme Court has heard in one term since the 1982 establishment of the Court of Appeals of the Federal Circuit (CAFC). The Supreme Court overruled the CAFC in five of the six cases this term, continuing a trend of high reversal rates that has been ongoing for several years.



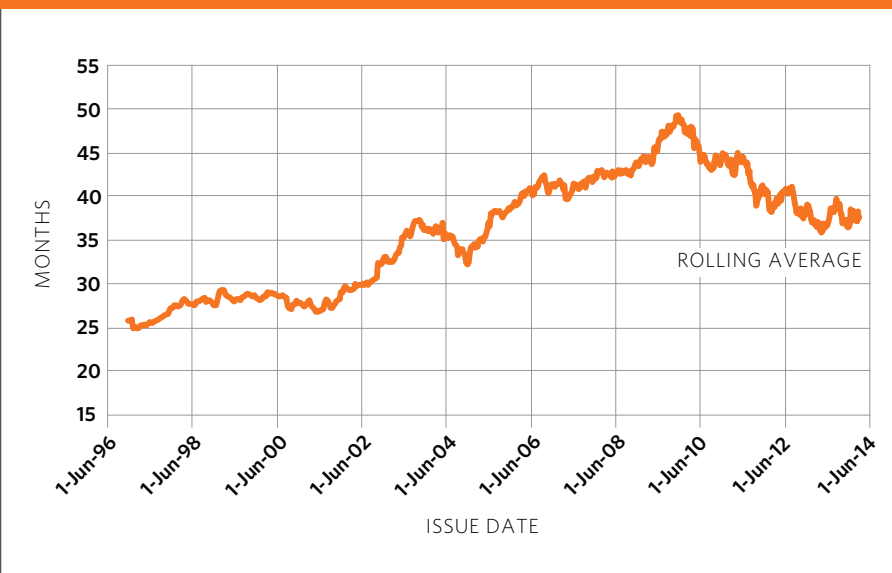
OTM Director Takes A Stand on Patent Reform

Lesley-Millar Nicholson discussed the potential negative impact of the Innovation Act on university technology transfer in articles in *Governing Magazine*, the *National Law Journal*, and *Corporate Counsel*. The Act, which attempted to curb the abusive practices of patent trolls by targeting them as “non-practicing entities” (NPEs), raised the concern of many universities since universities can also be broadly categorized as NPE’s. Ultimately the Innovation Act did not have enough support for a vote in Congress.

After the Innovation Act, More Targeted Patent Reform

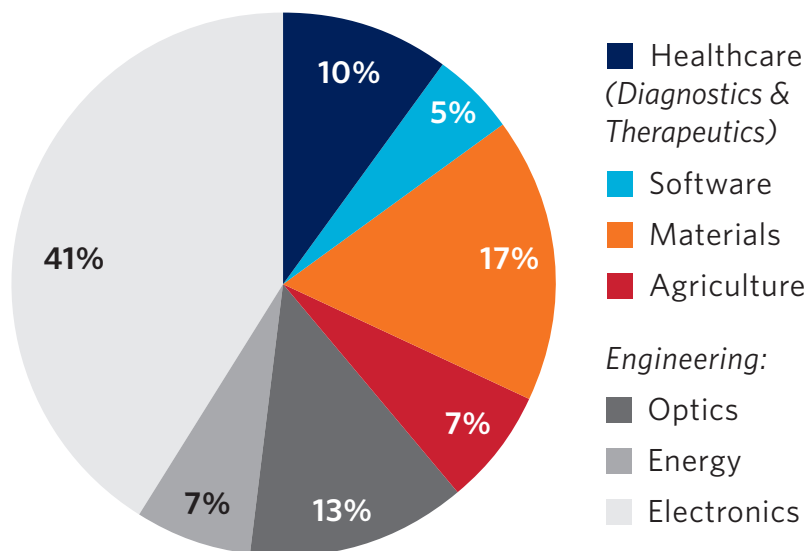
Unable to garner enough support for the broad reforms in the Innovation Act, the House has narrowed the scope of proposed legislation in the TROL Act (Targeting Rogue and Opaque Letters Act of 2014). TROL specifically seeks to curb the patent troll practice of sending abusive demand letters. This more focused bill has won support from organizations including the Association of American Universities, the American Council on Education, and the Association of Public and Land-grant Universities.

AVERAGE TIME TO ISSUE FOR CAMPUS U.S. PATENTS



The average pendency of a U.S. patent issued to campus in Fiscal 2014 was approximately three years.

FY2014 ISSUED U.S. PATENTS BY CATEGORY



For a full list of U.S. patents issued in Fiscal 2014, please see the OTM's website: otm.illinois.edu



46%

of U.S. patents issued to campus in fiscal 2014 have been licensed or optioned.

PERCENT OF U.S. PATENTS LICENSED OR OPTIONED AT ISSUANCE



Fiscal 2014 Start-Up Company Licenses

Charmworks

Charm software is a system for helping programmers write science and engineering applications for powerful computers, such as clusters. The software includes multiple components such as adaptive runtime libraries, performance analysis tools, debuggers, and visualization tools. Based on the research of founder **Laxmikant Kale** from the College of Engineering. The company is located in the University's Research Park in Champaign, Illinois. atgsites.com/Charmworks_Inc



Electroninks

Developing inks for printed electronics technologies. Their first product, the Circuit Scribe, is a rollerball

pen filled with conductive silver ink that allows users to literally draw circuits. Based on the research of co-founders **Jennifer Lewis**, formerly in the College of Engineering, and **Brett Walker**. The company is located in the University's Research Park in Champaign, Illinois. electroninks.com

eText

Delivering textbooks and other classroom materials with multimedia, notes, and assignments embedded directly in context. Based on the research of co-founder **Milind Basole** from the College of Agricultural, Consumer and Environmental Sciences. The company is located in Savoy, Illinois.



Network Perception

Developing the NP-View software tool designed to perform an automated and comprehensive network path analysis of firewall and router configurations.

Based on the research of co-founders **David Nicol** and **William Sanders** from the College of Engineering. The company is located in the University's Research Park in Champaign, Illinois. network-perception.com



X-Celeprint

Developing micro-transfer-printing technology as a manufacturing platform for integrating microscale

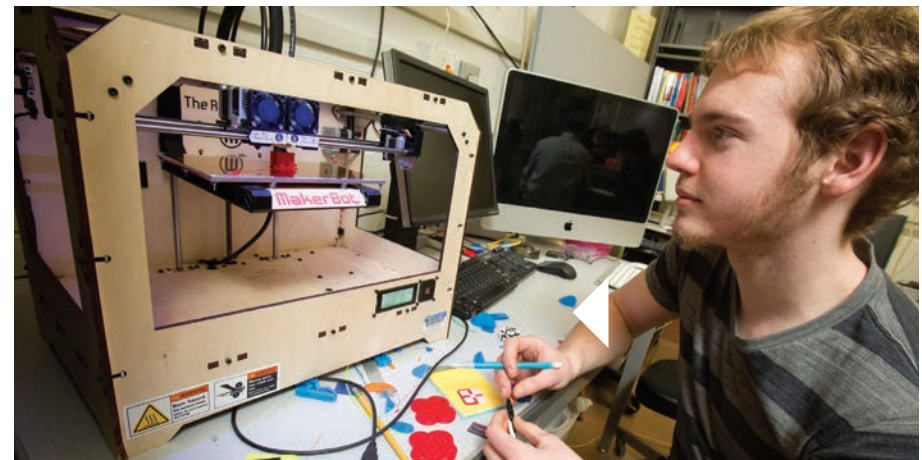
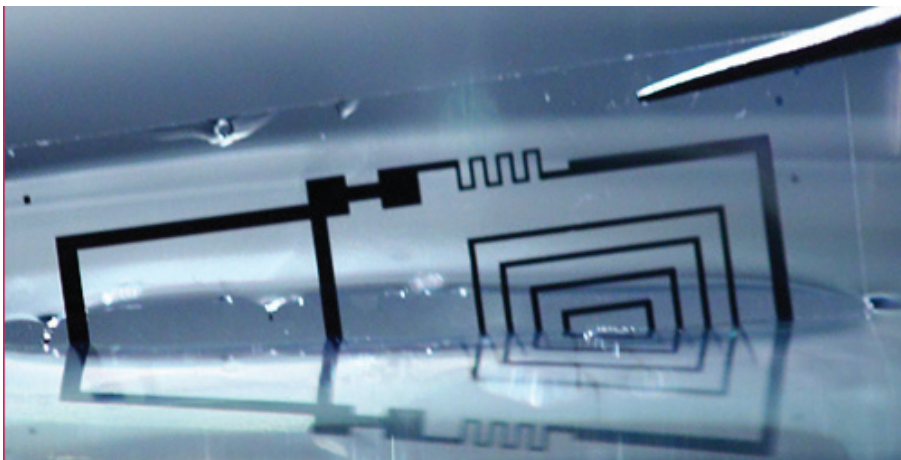
devices such as lasers, LEDs or integrated circuits onto non-native substrates. Based on the research of **John Rogers** from the College of Engineering. The company is located in Cork, Ireland. x-celeprint.com

Unmanned Dynamics

Unmanned Dynamics

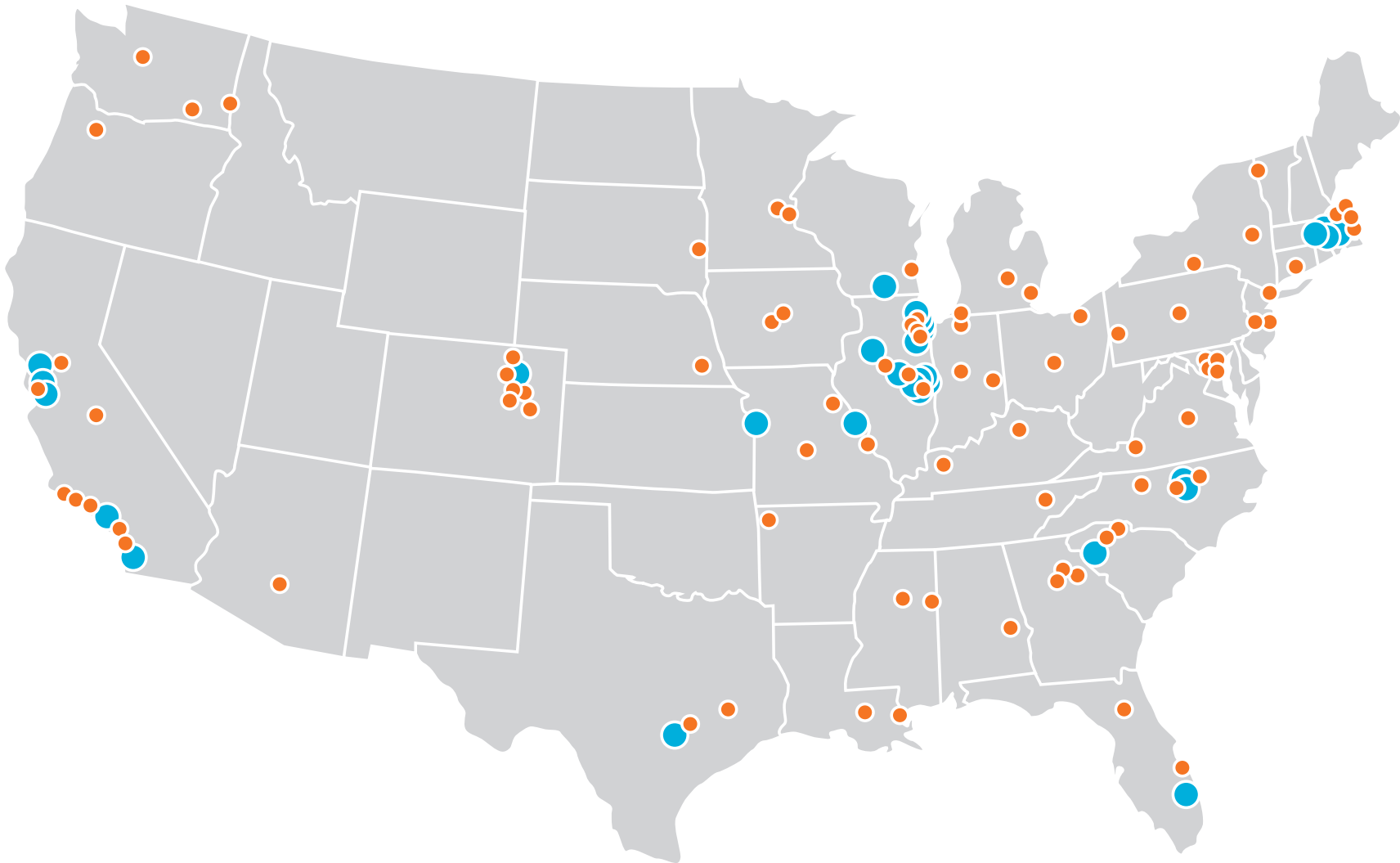
Specializes in the simulation and implementation of control

systems for autonomous vehicles. Based on the research of co-founder **Naira Hovakimyan** from the College of Engineering. The company is located in Champaign, Illinois. unmanned-dynamics.com



OTM Start-Ups and Licensees Across the Country

● Active Start-Ups ● Licensees (FY2010-2014)



More than **225** licenses and options (FY2010-2014)

More than **55** Active Start-Ups

Licensees in more than **15** countries outside the U.S.

Start-Up Company Milestones

- **aPriori**, provider of enterprise product cost management software, was selected as a finalist in the Big Data and Analytics Innovation category for the MITX What's Next Awards.
- **ANDalyze** signed Hatch as an authorized distributor for their product line of devices to test for water contamination. ANDalyze was also profiled in *Forbes*.
- **ElectronInks** completed a Kickstarter campaign that raised more than \$670,000 to begin manufacturing their first product, the Circuit Scribe, a rollerball pen filled with conductive ink. They were also named a National Innovation Awardee at the Tech Connect Expo in Washington, DC.



- **EP Purification**, developer of air and water purification devices, won the \$100,000 grand prize in the Clean Energy Challenge, run by the Clean Energy Trust.
- **Glucosentient** received a Phase I NIH SBIR award and a Phase II NSF SBIR award to continue developing drug and disease monitoring technologies.
- **InstaRecon** was awarded a Phase II NIH SBIR award to continue work on their technology to increase the computational efficiency of CT image reconstruction.
- **mc10**, developing flexible electronics, was profiled in the *Boston Globe*. The Checklight, created by mc10 and Reebok, won the 2014 Red Dot Award, one of the highest honors for product design.
- **Multicoreware**, a leader in heterogeneous computing, ranked 3rd in ITEN's Top Ten Start-Up Companies 2013 report.

- **Personify**, provider of immersive video conferencing services, was awarded a prestigious Globe Award as one of the Fastest Growing Companies in America in the category of Products and Services Growth.
- **Runtime Verification** received a Phase II NASA SBIR award to continue developing techniques to improve the safety and reliability of software systems.
- **Semprius**, working together with Solar Junction, has developed a solar cell with the best ever conversion efficiency for a photovoltaic technology.
- **Solarbridge Technologies** closed on a \$42 million round of funding led by Constellation Technology Ventures. SolarBridge is a leading provider of microinverters and monitoring technology for solar systems.
- Naira Hovakimyan, founder of **Unmanned Dynamics**, was awarded the prestigious Humboldt Prize honoring career of research achievements.
- **Vanquish Oncology** received a \$2 million investment to help advance its PAC-1 anti-cancer compound towards human trials.



(Photo: Clean Energy Trust)

Royalties and Royalty Distribution

Royalties Earned: \$5,255,381

Non-University Share: \$80,197

Patent Expense Reimbursement: \$1,983,513

Net Available for Distribution: \$3,451,040

Actual Distributions

Inventors' Share: \$616,052

University Share

Unit/College: \$1,629,133

OTM Cost Recovery: \$719,552

Note: "Actual Distributions" do not match the "Net Available for Distribution" in any one year because of the time lag between the date many are received and the date actual distributions are made.

Top Three Royalty Generating Technologies

Native Oxide:

A semiconductor technology used in laser printers, fiber optic communications, microelectronic devices, and more.

MarketMaker:

An interactive data base of food industry marketing and business data that helps connect food producers with new markets.

Soybean Germplasm:

A collection of soybean germplasm having a wide range of agronomic traits.



Staff Contacts

Office of Technology Management

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