I am pleased to share with you the 2012 annual report for the Office of Corporate Relations (OCR).

In 2012, Chancellor Phyllis Wise led a campus-wide Visioning Excellence at Illinois process to identify the major challenges the world will face in the next twenty to fifty years and what role our preeminent institution will play in addressing those challenges. The process included consultation with key stakeholders groups, including corporate partners and alumni. The Office of Corporate Relations hosted a day-long brainstorming session in Chicago for 21 of our leading corporate partners. Whether the topic was protecting our environment or working together to create new science, we were surprised at just how many of the areas discussed overlapped. Participants—university and corporate alike—walked away with a sense of shared purpose.

The philosophy of the Office of Corporate Relations is that in order to enable companies to take full advantage of our strengths, we must engage them across a broad spectrum of areas – what we call the Dimensions of Corporate Engagement – which encompasses sectors from student engagement and leveraging research to technology transfer. The OCR works with academic units and major research centers to bring value to 100+ companies. In order to further accelerate and enhance these engagements, the OCR established a C-Suite Executive in Residence Program in 2012. The goal of this program is to enable increased dialogue, improve understanding and have a greater appreciation for the perspectives of the corporate sector, and how the university can participate and contribute to corporate goals - while at the same time accomplishing our own goals.

The campus continued to enjoy strong corporate support during the 2012. Total corporate support totaled $99.28 million. Several major corporate partnerships were significantly expanded during the year. This report highlights two of them. Abbott partnered with the campus to establish the Center for Nutrition, Learning, and Memory. This Center is the first interdisciplinary cognition and nutrition research center in the country. The Dow Chemical Company significantly increased its strategic engagement at Illinois with a pledge of more than $13 million to several academic departments to strengthen research in traditional engineering fields that are important to Dow, in addition to providing support for graduate students.

We hope you enjoy this review of our major 2012 initiatives, and we look forward to another year of productive corporate engagement.

Pradeep Khanna
Associate Chancellor
Dimensions of Corporate Engagement

The Office of Corporate Relations (OCR) at the University of Illinois at Urbana-Champaign works with companies to assess their needs and identify the academic units, programs, laboratories, researchers, and students that can help them meet their objectives. The OCR serves as a valuable resource to companies both in the U.S. and abroad in facilitating access to the extensive human and technological resources available on campus that can enable companies to become more successful in an increasingly global economy. The OCR helps companies develop meaningful relationships and interactions with these resources and fosters the growth of partnerships between companies and academic units at the university.

In our model of corporate engagement at the University of Illinois at Urbana-Champaign, the OCR emphasizes seven dimensions of involvement. We facilitate company interactions on our campus along all seven of these key dimensions:

- Engaging students
- Leveraging research
- Transferring technology and innovation
- Accessing professional education opportunities
- Providing targeted solutions
- Optimizing corporate philanthropy
- Fostering economic development

We are part of a global marketplace now. From our teaching to our research to our public engagement – we need to think about how our work can have the broadest impact and achieve the longest reach. Expanding our existing partnerships and creating new ones with corporate entities is a priority for us as an institution. The grand challenges of our society are going to require new public-private collaborations that leverage the strengths of all of us to make a better world.

Phyllis Wise
Chancellor of the University of Illinois at Urbana-Champaign
and Vice President of the University of Illinois

Corporate Engagement Council

The Corporate Engagement Council provides strategic oversight for the Office of Corporate Relations and corporate engagement across campus. The Council establishes policies and processes to strengthen and expand corporate partnerships.

2012 Corporate Engagement Council Members
Phyllis Wise, Chancellor and Vice President, Chair
Ilesanmi Adesida, Vice Chancellor for Academic Affairs and Provost
Peter Schiffer, Vice Chancellor for Research
C. Renée Romano, Vice Chancellor for Student Affairs
Ed Ewald, Vice Chancellor for Institutional Advancement (Interim)
Mike Bragg, Dean, College of Engineering (Interim)
Wynne Korr, Dean, School of Social Work
Ruth Watkins, Dean, College of Liberal Arts and Sciences
Pradeep Khanna, Associate Chancellor; Executive Director, Corporate Relations
Karen Bender, Associate Director, Corporate Relations; Chief Operating Officer, CEC

Unit Corporate Contact Network

The Unit Corporate Contact network was established upon approval of the Corporate Engagement Council and the Council of Deans in 2009. Since then, the Unit Corporate Contact network has continued to meet regularly in order to facilitate coordination and communication between colleges and the Office of Corporate Relations. The Unit Corporate Contacts are selected by the Deans.

2012 Unit Corporate Contacts
Alicia Beck, School of Social Work
Michael Biehl, College of Veterinary Medicine
Mary Susan Britt, College of Media
Jennifer Carroll, College of Law
Barry Dickerson, College of ACES
Jean Driscoll, College of Applied Health Sciences
Merle Giles, National Center for Supercomputing Applications
Sharon Johnson, Graduate School of Library and Information Science
Patricia Justice, College of Education
Nell Madigan, School of Labor & Employment Relations
Sofi Martin, College of Engineering
Melissa McKillip, Institute for Genomic Biology
Julie Pfeiffer, College of Business
Kevin Reeder, College of Fine & Applied Arts
Brian Ross, College of Liberal Arts & Sciences
Richard Tapping, College of Medicine
Engaging Students

The University of Illinois offers a wide network of career services offices across the campus that work together to provide opportunities for companies to interact with students. The Office of Corporate Relations works closely with these offices to develop a customized partnership that fits with the needs of each company.

Corporate recruiting activities

Companies participate in a variety of recruiting activities on campus each year, including career fairs, company information sessions and technical talks, and on-campus interviewing. Job shadow programs in several colleges represent an opportunity for companies to invite younger students to corporate facilities to learn more about what it means to be a professional in their field. Many companies also send representatives to campus to participate in resume review sessions, mock interviews, or workshops with students. Events like these benefit students through the direct interaction with a company representative and many companies find that they meet potential candidates during these activities.

Engaging with students beyond recruiting: Corporate Olympics

Engineering Career Services (ECS) worked with Engineering Council (engineering student leadership) to introduce the first annual Corporate Olympics during Engineers Week 2013. Approximately 40 students and 15 employer representatives from five companies competed in three events including a contest to pick the best candidate for the job, a photo scavenger hunt on the Engineering Quad, and a communication exercise. Students and employers enjoyed spending time together informally and getting to know each other. ECS and Engineering Council plan to expand the Corporate Olympics next year to include more companies and students.

Corporate engagement opportunities with graduate students

The Graduate College introduced several new programs this year to provide more opportunities for Masters and PhD students to interact with employers. Graduate students learned about and practiced professional skills such as networking and understanding how to communicate about their research at First Impression, which concluded with a networking reception with employer representatives. The Graduate College also worked with Research Park staff to establish an externship program for graduate students and created a resume pool of students interested in opportunities within the Research Park.

Leveraging Research

The Office of Corporate Relations assists industry in accessing the University of Illinois basic and applied research that helps fuel their continued competitiveness. The OCR makes connections for companies and works to create close working relationships with faculty and staff in a variety of academic units, centers, and institutes across the campus. Collaborative research with industry helped lead to the creation of new products, impacted existing products and markets, and solved issues facing today’s companies. In 2012, corporate support in the form of research and gift funding totaled $99.28 million, representing a slight increase over the previous year.

In 2012, Abbott made a five-year investment to found the Center for Nutrition, Learning, and Memory (CNLM) at Illinois, the first interdisciplinary cognition and nutrition research center in the nation. The CNLM is an initiative designed to support pioneering research on nutritional compound utilization and mechanisms that enhance learning and memory throughout various stages in the lifespan. Researchers from the University of Illinois partner with the leading scientists in cognition, brain function, and supporting technologies from around the world to submit proposals.
With increased emphasis on the promotion of innovation, technology transfer, and entrepreneurship with stakeholders across the entire campus, technology disclosures increased to 223 in 2012, a 22.5% increase over the previous year. U.S. Patents issued increased by 11.7% to 76. Five new start-ups were launched from technologies originating from the College of Agricultural, Consumer and Environmental Sciences (ACES), the College of Liberal Arts & Sciences (LAS), and the College of Engineering. Having developed insights into key company interests, the Office of Corporate Relations promotes connections with the Office of Technology Management and, in an era of increasing open innovation models, fosters networking opportunities between corporations and the many innovative start-ups in EnterpriseWorks.

Disclosures: 223  
U.S. Patent Applications Filed: 194  
U.S. Patents Issued: 76  
Licenses & Options: 46  
Start-Ups: 5  

Source: Office of Technology Management FY12 Annual Report
Bridging the Campus-Corporate Divide: C-Suite Executive in Residence (CEIR) Program

Universities have a long history of collaboration with the private sector, forged primarily to provide industry access to a skilled future workforce. Increasingly these corporate-academic partnerships provide professional education opportunities to current employees, address targeted solutions to critical issues facing our society, leverage research opportunities, foster economic development, and optimize private philanthropy.

In response to a changing economic landscape and reductions in state support for education in recent years, the University of Illinois at Urbana-Champaign is taking a fresh approach to campus-corporate relationships with the C-Suite Executive in Residence (CEIR) program. In the CEIR program, a current or recently retired C-suite officer from a major U.S. corporation completes an on-campus residency, meeting with campus and unit executives and a diverse set of campus community members to provide guidance on ways to enhance and expand our collaborations with industry.

John Heller, former Vice President and Chief Information Officer for Caterpillar Inc. and a graduate of the Illinois Executive MBA program, served as the inaugural CEIR during the 2012 – 2013 academic year. Through meetings with campus and college leadership and the campus corporate relations community, Heller provided guidance in five broad areas: 1) understanding the dynamics of funding sources as they relate to the campus and specific units, and the opportunity for positive impact from aligned corporate investment, 2) harnessing innovation and creativity to increase corporate productivity, 3) creating value for corporate America through enhanced training programs 4) developing outcome rather than activity-based programming, and 5) implementing effective corporate engagement strategies consistently across campus. Upon completion of John’s term as CEIR in May, 2013, John will present his findings and recommendations to the Corporate Engagement Council (CEC).

“There is no shortage of innovation or creativity [on the Urbana-Champaign campus], but how is that harnessed? How do we create value for corporate America?” asked Heller. Through John’s efforts the campus is defining strategies and practices that will enhance our engagements with industry, increasing value to both industry and to faculty and students. John has also provided considerable value to individual colleges, by participating in strategy discussions and reviewing branding and marketing plans. John has also been able to give back to the campus through a personal passion of leadership development, presenting to students in both large and small group settings.

Karen Bender, Director of Corporate Relations and coordinator of the CEIR program, remarked that “John has been an incredible asset to the campus as CEIR. He brings different skills and an important industry perspective to our campus efforts to continue to expand and enhance our corporate partnerships, in a time where the success of these partnerships is increasingly critical to industry competitiveness and academic success”. With the CEIR program still in its infancy, Bender and her colleagues in the Office of Corporate Relations continue to refine the types of activities in which the CEIR will engage with campus leadership, faculty, staff, and students. Future program components may include formal course offerings, on-campus lectures and presentations, and thematically-based assistance for specific units focused on areas such as business plan development, operations improvement, infrastructure management, and marketing.
Abbott Expands Engagement on Campus

Abbott has a long history of engagement with Illinois, and in recent years this engagement has expanded substantially into a comprehensive campus-wide partnership. For many years, Abbott’s involvement on campus was comprised of traditional recruiting, sponsored research agreements to support individual faculty projects and philanthropic investment. In 2009, with leadership from OCR and faculty from the College of Agricultural, Consumer and Environmental Sciences and support from Research Park, the partnership was enhanced with Abbott’s establishment of a satellite research and development facility at the University of Illinois Research Park. This operation is Abbott’s only university-based satellite research and development facility in the U.S., and has served as a model for other Abbott facilities which have opened globally. The latest advancement in Abbott’s partnership with Illinois was the establishment of the Center for Nutrition, Learning, and Memory (CNLM). The Center is the first interdisciplinary cognition and nutrition research center in the country. CNLM partners with two world-renowned Urbana campus research facilities, the Institute of Genomic Biology and Beckman Institute for Advanced Science & Technology, in collaboration with the Division of Nutritional Sciences and the Neuroscience Program. In 2012, CNLM launched the first round of research projects, supporting research that drives the understanding of nutrition’s impact on brain cognition.

In addition to efforts to expand Abbott’s research investments on campus, OCR was actively engaged in broadening other aspects of the Abbott-Illinois partnership. OCR facilitated Illinois students’ participation in Abbott’s first ever global innovation student case competition (Abbott Innovation University Challenge), where select schools in the U.S., Europe and Asia were invited to participate in a case competition. Students created teams from IT, Engineering, Science and Business, and an Illinois team won 2nd place in this inaugural competition. OCR also served as the campus point of contact for a university-wide alumni event held at Abbott this fall. With over 1,000 alumni employed at Abbott, this alumni event provided a unique opportunity for campus, UIF and the alumni association to connect with alumni and friends at Abbott. OCR also facilitated Abbott executive meetings with campus and college leadership, including John Landgraf, Executive Vice President of Abbott Nutrition and Tom Freyman, Chief Financial Officer. Other examples of Abbott collaboration in 2012 included a series of Abbott lectures in a Veterinary Medicine course, Abbott’s membership on the corporate advisory board of the Hoeft Technology & Management program, new consulting opportunities and technical testing.

Providing Targeted Solutions

The University of Illinois at Urbana-Champaign is home to a vast array of human and technological resources including our 17 colleges and schools and more than 150 centers and institutes. The OCR provides companies assistance with technical testing services, facilities use, and other agreements, facilitating access to specialized equipment and services throughout the campus. Two examples of campus resources available to industry are:

The Illinois Simulator Laboratory (ISL) is a Beckman Institute facility at the University of Illinois for advancing scientific understanding of human-computer interactions. The primary mission of the ISL is to support the integration of advanced technologies so that Institute researchers can conduct experiments in human multi-modal perception and cognition. To facilitate this mission, the ISL maintains discrete laboratories allowing the incorporation of individualized multimodal control and monitoring technologies into advanced visualization environments. Example laboratories include the CAVE, CUBE, Driving Simulator, Flight Simulator, and Motion Capture Lab. Corporations have worked with us on a per-project basis to conduct perceptual psychology and human factors research drawing on the expertise of Beckman Institute researchers to design the experiments.

The School of Chemical Sciences through its seven core laboratories provide a state of the art research infrastructure to researchers. The laboratories most frequently used by corporate partners are: The Mass Spectrometry Laboratory, which provides varied services with capabilities in all modern methods of organic and biological mass spectrometry, the X-Ray Diffraction Laboratory, and the Microanalysis Laboratory, which provides services for elemental and thermal analysis.
The Dow Chemical Company significantly increased its strategic engagement at the University of Illinois at Urbana-Champaign with a pledge of more than $13 million to the Departments of Chemical & Biomolecular Engineering, Chemistry, Materials Science and Engineering and the Library. The investment will be used to strengthen research in traditional scientific fields that are important to Dow.

Dow is providing support for four graduate student fellows each year (Dow Chemical Company Graduate Fellows in Chemical Engineering), funds to enhance the start-up packages of junior faculty hires (Dow Chemical Early Career Fellows in Chemical Engineering) and funds for four sponsored research projects. The sponsored research projects include faculty from Chemical & Biomolecular Engineering, Chemistry, Materials Science & Engineering and the Library and will pursue the design, synthesis and characterization of new materials for encapsulation and targeted release, design new emitters for optoelectronic applications and study search effectiveness. The funding began in 2012.

“This unique and industry-leading investment will support breakthrough technologies and increase collaboration between Dow and key universities, while helping to develop America’s future pipeline of PhD-level talent,” said Dr. William F. Banholzer, PhD., Chief Technology Officer and Executive VP of Ventures, New Business Development and Licensing at Dow. “It is vital that we support academic research to ensure universities can continue the tradition of excellence in chemical engineering, chemistry and materials science to help address the needs of the industry and of our country.” Although the number of doctorates awarded in engineering increased 50 percent to about 9,000 over the decade that ended in 2010, the number of chemical-engineering PhD’s is still not enough to satisfy demand, according to the Wall Street Journal.

Making an investment in the University Illinois as Dow has done is the perfect way to enhance a company’s brand across campus, generate innovation, support disciplines important to corporate competitiveness and increase the likelihood of attracting the best students as new employees, all while creating a true “win-win” engagement with the campus.

Dow Chemical Invests in Illinois

With ever tightening state and federal government funding, private support is an essential element to maintaining Illinois’ position as a pre-eminent public university. Corporate philanthropy is a key component of private support, and in 2012 corporate giving to the university totaled $56.1 million, representing 27% of total private support to the university. Corporate gifts exceed the total financial support of individual alumni as well as private foundations.

The OCR provides leadership to corporate philanthropic giving to the campus. The OCR serves as the primary point of contact for corporate foundations, providing guidance to both the foundation and interested campus units regarding proposal opportunities, areas of interests, breadth of programs and funding opportunities. A number of corporate foundations allow one annual campus proposal submission, and the OCR manages the campus submission process, ensuring a comprehensive proposal including aligned requests ranging from scholarship support to student programs and curriculum development to pipeline and diversity support and facility enhancements. The OCR also works closely with the U of I Foundation, communicating proposal and award information to provide for seamless distributions of funds.

Optimizing Corporate Philanthropy

2012 Gift Sources

Percentage of Dollars Received of Total $210.6 Million
(Source: University of Illinois Foundation)

- Alumni 23%
- Foundations 18%
- Corporations 27%
- Associations 18%
- Friends 14%

Dr. William F. Banholzer, PhD.
Chief Technology Officer and Executive VP of Ventures, New Business Development and Licensing at Dow
The OCR continued in 2012 to address job attraction and retention opportunities and challenges throughout the state of Illinois in partnership with the Illinois Department of Commerce and Economic Opportunity (DCEO), the Champaign County Economic Development Corporation (CCEDC), and other local and regional economic development organizations. One key area of economic development for the OCR is the University of Illinois Research Park (http://www.researchpark.illinois.edu/). In continuing efforts to promote the Research Park, the Champaign-Urbana community, and the state of Illinois, the OCR regularly incorporates the Research Park, its facilities, resources, and tenants during executive visits to campus. Through the OCR’s introductions, relationships between large firms, startups, and young companies in EnterpriseWorks, the Research Park, as well as in the region have led to significant conversations and partnerships. In 2012, key University of Illinois Research Park developments included:

- 19 new startups in the EnterpriseWorks Incubator
- Four new operations welcomed
- Several expansions of company operations
- 20 new Small Business Innovation Research (SBIR), Small Business Technology Transfer (STTR), and Advanced Research Projects Agency - Energy (ARPA-E) awards for Park occupants

Accessing Professional Education

As workforce responsibilities change and new knowledge develops, keeping employees current in the latest techniques and technologies is a major priority for employers. The OCR works with companies to develop customized professional education programs for their employees that can be offered on or off campus. The OCR will help identify the programs for employers to enable their employees to meet emerging challenges and opportunities. These programs range from executive leadership skills development to software training. Our examples this year include one brand new program and one well established:

Massively Open Online Courses (MOOCs) are a recent phenomenon transforming education and providing just-in-time learning as well as life-long learning opportunities. Illinois was the first land-grant university to join Coursera’s MOOC platform in July 2012. By joining Coursera we dramatically extend the reach of our offering of courses across our state and around the globe: in the first 60 days we added 100,000+ users and today we have over 250,000+. Organic Chemistry, Microeconomics, and developing Android Apps are some of the Illinois MOOCs.

The Graduate School of Library and Information Science (GSLIS) offers professional education and development opportunities for those in the broader workforce seeking to advance their skills in information science, services, and operations. Through the school’s popular online education option, LEEP, students can pursue an advanced degree or take courses to improve their knowledge base and advance their careers. Sample course offerings include: Text and Data Mining, Social Computing, Information Networks and Analysis, User Interface Design, Project Management, Competitive Intelligence, Strategic Information Management, and Change Management.
In 2012, OCR interacted with a diverse range of private sector companies and economic development organizations including:

004 Technologies
3M
Abbott
Accretive Health
Advanced Filtration Systems
Alcatel-Lucent
Allstate
Ameren
Axeheuser-Busch InBev
Apple
Archer Daniels Midland Company
AT&T
Baxter
Bayer CropScience
Bayer HealthCare
Belcan Corporation
Bixlab
Bostik
Booz Allen Hamilton
BP p.l.c.
Brunswick Corporation
Burrell & Company
Bytemobile - a Citrix Systems company
Caterpillar
Champaign County Economic Development Corporation
Chicago Housing Authority
Cloudera
CME Group
CNH
Deere & Company
Detroit Venture Partners
Dow AgroSciences
Dow Corning Corporation
DuPont
DuPont Pioneer
Eastman Chemical Company
eBay
Elanco
Eli Lilly and Company
Ericsson Silicon Valley
Express Scripts
ExxonMobil Corporation
Firefly International Energy Co.
First Auto Works Group
Corporation
Founders Fund
Garage Technology Ventures
General Electric Company
GE Hitachi Nuclear Energy
Google
GreenGoose
Greentech Media
Groundwork Opportunities
Groupon
Halcyon Molecular
Hewlett-Packard Development Company
Hill’s Pet Nutrition
Hillshire Brands
IBM
Illinois Department of Commerce & Economic Opportunity
Impetus Technologies
Ingredion
Intel Corporation
Intelligent Medical Objects
IntelliWheels
Kemin Industries
Kerry Group
Kraft Foods Group
Mayo Clinic
McDonald’s
McKesson
MetaScale - a Sears Holdings Corporation company
Mondelēz International
Monsanto
Motorola Solutions
Neo Technology
Nestlé Group
Neustar
Northrop Grumman
Novartis AG
Novo Nordisk
Oration
Palantir Technologies
PepsiCo
Personify
Pfizer
Ploughman Analytics
PrairieFire Consulting, Inc.
Procter & Gamble
Raytheon Company
Riverside Research Institute
Rockwell Collins
Rolls-Royce plc
SAIC
Salesforce.com
Samsung
SAP
Schlumberger
Sears Holdings Corporation
Shell
Silicon Valley Bank
State Farm Mutual Automobile Insurance Company
Swedish-American Chamber of Commerce
Tata Consultancy Services
Tate & Lyle
Taylor Studios
TCF Bank
The Boeing Company
The Coca-Cola Company
The Dow Chemical Company
The Nielsen Company
TIIA-CREF
Trident Consulting
Twitter
US Market Access Center
Veolia Environnement
VyperSim
Wal-Mart Stores Inc.
Wm. Wrigley Jr. Company
Wolfram Research
World Dryer
W.W. Grainger
Yahoo! Inc.

The challenges ahead of us during this century demand that we incorporate different models of learning, discovery and the issues we must address aren’t just ones within our state or even the nation, but ones will impact the viability of the planet. As a preeminent public research university, these are the grand challenges that our nation increasingly is looking to us to tackle.

Phyllis Wise
Chancellor of the University of Illinois at Urbana-Champaign and Vice President of the University of Illinois