Twelfth Annual Northwestern/USPTO Conference on Innovation Economics
Thursday, June 20, 2019 — Friday, June 21, 2019

Northwestern Pritzker School of Law
Wieboldt Hall #147
340 E. Superior Street, Chicago, IL, 60611

This conference is organized by Daniel F. Spulber.

The scientific committee consisted of Pere Arqué-Castells, Alberto Galasso, Christian Helmers, Ralph Siebert, and Daniel F. Spulber.

Thursday, June 20

9:00 a.m.  
Registration Check-In (1st Floor of Wieboldt Hall)
Continental Breakfast (Wieboldt Hall #150)

10:00  
Welcome and Introduction to the Conference (Wieboldt Hall #147)
Daniel F. Spulber, Elinor Hobbs Distinguished Professor of International Business, Kellogg School of Management, and Research Director, Center on Law, Regulation, and Economic Growth
Andrew Toole, Chief Economist, United States Patent and Trademark Office

10:00-12:00  
Session One—Products and Innovation (Wieboldt Hall #147)
Session Chair: Andrew Toole, Chief Economist, United States Patent and Trademark Office

Find and Replace: R&D Investment Following the Erosion of Existing Products
Richard T. Thakor, University of Minnesota, Carlson School of Management*
Joshua L. Krieger, Harvard Business School
Xuelin Li, University of Minnesota, Carlson School of Management
Discussant: Rajkamal K. Vasu, C. T. Bauer School of Business, University of Houston

The Impact of Product Market Characteristics on Firms’ Strategies in Patent Litigation
Danmo Lin, Warwick Business School, Warwick University*
Du Liu, Warwick Business School, Warwick University
Elizabeth Whalley, Warwick Business School, Warwick University
Discussant: Xuelin Li, University of Minnesota, Carlson School of Management
Reactive Outsourcing of Technological Innovations
Manuel Hermosilla, The Johns Hopkins Carey Business School
Discussant: Lex Zhao, Research Institute for Economics & Business, Kobe University

Revisiting the Effect of Patents on Emerging Markets: Evidence From India
Chirantan Chatterjee, Hoover Institution, Stanford University and IIM Ahmedabad*
Carlos Inoue, Rotman School of Management, University of Toronto
Anita M. McGahan, Rotman School of Management, University of Toronto
Discussant: Mercedes Campi, CONICET and University of Buenos Aires

12:00-1:30  Lunch (Wieboldt Hall #540)

1:30-2:30  Session Two—Science and Innovation (Wieboldt Hall #147)
Session Chair: Ralph Siebert, Purdue University, Department of Economics, Krannert School of Management

Running with (CRISPR) Scissors: Tool Adoption and Team Assembly
Samantha Zyontz, MIT Sloan School of Management
Discussant: Amanda F. Myers, United States Patent and Trademark Office

The Effects of Patent Rights on University Science
Laurent Bergé, CREA, Université du Luxembourg*
Thorsten Doherr, Centre for European Economic Research (ZEW)
Katrin Hussinger, Université du Luxembourg and Centre for European Economic Research (ZEW)
Discussant: Olena Ivus, Smith School of Business, Queen's University

2:30-3:00  Break (Wieboldt Hall #150)

3:00-5:00  Parallel Session Three A—Patents and Standards (Wieboldt Hall #147)
Session Chair: Pere Arqué-Castells, Center on Law, Regulation, and Economic Growth, Northwestern Pritzker School of Law

Approximating the Standard Essentiality of Patents – A Semantics-Based Analysis
Lorenz Brachtendorf, Max Planck Institute for Innovation and Competition; Munich School of Management, Ludwig-Maximilians-University (LMU)
Fabian Gaessler, Max Planck Institute for Innovation and Competition; TUM School of Management, Technical University of Munich*
Dietmar Harhoff, Max Planck Institute for Innovation and Competition; Munich School of Management, Ludwig-Maximilians-University (LMU); Centre for Economic Policy Research (CEPR)
Discussant: Pere Arqué-Castells, Center on Law, Regulation, and Economic Growth, Northwestern Pritzker School of Law
SSOs, Product Differentiation, and M&A in GOLE
Avik Chakrabarti, Department of Economics, University of Wisconsin, Milwaukee*
Anjishnu Banerjee, Division of Biostatistics, University of Wisconsin, Milwaukee
Discussant: Elvira Sojli, University of New South Wales Business School

Predicting Administrative Patent Challenges
Brendan Costello, Yale Law School*
Talia Bar, Department of Economics, University of Connecticut
Discussant: Christian Helmers, Santa Clara University

Prioritized Examination and its Impact on Commercialization of Patents
Taras Hrendash, Center for Economic Research and Graduate Education – Economics Institute (CERGE-EI)
Discussant: Runhua Wang, Chicago-Kent College of Law

Parallel Session Three B—Information, Learning, and Innovation
(Wieboldt Hall #250)
Session Chair: Alexei Alexandrov, Independent

The Short-Run Effects of GDPR [EU General Data Protection Regulation] on Technology Venture Investment
Liad Wagman, Stuart School of Business, Illinois Institute of Technology*
Jian Jia, Stuart School of Business, Illinois Institute of Technology
Ginger Zhe Jin, University of Maryland
Discussant: Heli Koski, Aalto University/ETLA, The Research Institute of the Finnish Economy

The Paper Trail of Knowledge Spillovers: Evidence from Patent Interferences
Jeffrey Lin, Federal Reserve Bank of Philadelphia Research Department*
Ina Ganguli, University of Massachusetts–Amherst
Nicholas Reynolds, Brown University
Discussant: H. Dennis Park, Naveen Jindal School of Management, University of Texas at Dallas

A Machine Learning Analysis of The Geographic Localization of Knowledge Flows
Joel Blit, Department of Economics, University of Waterloo*
Mikko Packalen, University of Waterloo
Discussant: David Heller, Department Management and Microeconomics, Goethe University Frankfurt

Experimentation, Learning, and Appropriability in Early-Stage Ventures
Andrea Contigiani, Fisher College of Business, Ohio State University
Discussant: Jian Jia, Stuart School of Business, Illinois Institute of Technology

5:00-6:00 Cocktail Reception (Wieboldt Hall #440)
6:00 Dinner (Wieboldt Hall #540)
Keynote Address

Introduction
Daniel F. Spulber, Kellogg School of Management, Northwestern University

TBD
TBD

Friday, June 21

8:00 a.m.  Breakfast (Wieboldt Hall #540)

9:00-11:00  Session Four—Innovation and Acquisitions (Wieboldt Hall #147)
Session Chair: Christian Helmers, Santa Clara University

Acquisition Prices and the Measurement of Intangible Capital
Michael Ewens, California Institute of Technology*
Ryan H. Peters, Tulane University
Sean Wang, Southern Methodist University
Discussant: Syed Walid Reza, School of Management, SUNY at Binghamton

What is the US Comparative Advantage in Entrepreneurship? Evidence from Israeli Migration to the United States
Annamaria Conti, University of Lausanne - Faculty of Business and Economics (HEC)*
Jorge Guzman, Columbia Business School, Columbia University
Discussant: Nic Kozeniauskas, Banco de Portugal

The Effect of U.S. Public-to-Private Leverage Buyouts on Innovation
Brian F. Ayash, Orfalea College of Business, California Polytechnic State University*
Edward J. Egan, McDonough School of Business, Georgetown University
Discussant: Rrongrong Zhang, Parker College of Business, Georgia Southern University

Growth through Acquisition of Innovations
Galina Besstremyannaya, Centre for Economic and Financial Research, New Economic School*
R. Dasher, Stanford University
S. Golovan, New Economic School
Discussant: Olgu Ozkul, Department of Economics, University of Illinois Urbana-Champaign

11:00-11:15  Break (Wieboldt Hall #150)
11:15-12:45  **Parallel Session Five A—Innovation and Employment**  
(Wieboldt Hall #147)  
Session Chair: TBD

*Boundary Choices in Innovation — How does Availability of Hiring Affect Technology Sourcing Strategy?*
**Xiaoshu Bei**, Fuqua School of Business, Duke University  
Discussant: **Ye (George) Jia**, Department of Economics, University of Prince Edward Island

*Emerging and Disappearing Work, Thriving and Declining Firms*
**Sarada**, Wisconsin School of Business, University of Wisconsin-Madison*  
**Enghin Atalay**, Department of Management and Human Resources, Wisconsin School of Business, University of Wisconsin-Madison  
Discussant: **Sukhdeep Singh**, Institute of Development Studies Kolkata (IDSK),

*Heterogeneous Innovation and the Antifragile Economy*
**Benjamin Balsmeier**, Université Du Luxembourg*  
**Gustavo Manso**, University of California, Berkeley  
**Lee Fleming**, University of California, Berkeley  
Discussant: **Catherine De Fontenay**, Melbourne Business School

12:45-1:30  **Lunch**  
(Wieboldt Hall #540)

12:45-1:30  **Parallel Session Five B—Trademarks and Innovation**  
(Wieboldt Hall #250)  

*Knocking Off Firm Value*
**Mehmet I. Canayaz**, Smeal College of Business, Pennsylvania State University  
**Umit Gurun**, University of Texas at Dallas*  
Discussant: **Kevin Tseng**, Federal Reserve Rank Richmond

*Submarine Trademarks*
**Christian Helmers**, Santa Clara University*  
**Carsten Fink**, World Intellectual Property Organization (WIPO)  
**Andrea Fosfuri**, Bocconi University  
**Amanda F. Myers**, United States Patent and Trademark Office  
Discussant: **Zhaoxia Xu**, School of Banking and Finance, UNSW Business School

*Product Hopping and Innovation Incentives*
**Jorge Lemus**, Department of Economics, University of Illinois Urbana-Champaign*  
**Olgu Ozkul**, Department of Economics, University of Illinois Urbana-Champaign  
Discussant: **Georgios Petropoulos**, MIT and Bruegel
Session Six—Innovation and Intellectual Property (Wieboldt Hall #147)
Session Chair: Alberto Galasso, Rotman School of Management, University of Toronto

The Consequences of Invention Secrecy: Evidence from the USPTO Patent Secrecy Program in World War II
Daniel P. Gross, Harvard Business School
Discussant: Alberto Galasso, Rotman School of Management, University of Toronto

R&D and Market Size: Who Benefits from Orphan Drug Regulation?
Simona Gamba, Department of Economics, University of Verona*
Laura Magazzini, Department of Economics, University of Verona
Paolo Pertile, Department of Economics, University of Verona
Discussant: Saish Nevrekar, Indira Gandhi Institute of Development Research

Early Disclosure Could Save Billions in Wasted Duplication, Yet Inventors Still Choose Secrecy for Most Valuable Technologies
Florian Seliger, KOF Swiss Economic Institute, ETH Zurich*
Sonja Lück, University of Paderborn, Faculty of Business Administration and Economics
Benjamin Balsmeier, Université Du Luxembourg
Lee Fleming, University of California, Berkeley
Discussant: Lorenz Brachtendorf, Max Planck Institute for Innovation and Competition; Munich School of Management, Ludwig-Maximilians-University (LMU)

3:00 Adjourn

Presenters are indicated with an *