Eleventh Annual Searle Center/USPTO Conference on Innovation Economics
Thursday, June 21, 2018 — Friday, June 22, 2018

Northwestern University 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 21

9:00 a.m. Registration Check-In (1st Floor of Wieboldt Hall)
Continental Breakfast (Wieboldt Hall #540)

10:00 Welcome and Introduction to the Conference (Wieboldt Hall #147)
Matthew L. Spitzer, Howard and Elizabeth Chapman Professor and Director, Searle Center on Law, Regulation, and Economic Growth at Northwestern University Pritzker School of Law
Daniel F. Spulber, Elinor Hobbs Distinguished Professor of International Business, Kellogg School of Management, and Research Director, Searle Center on Law, Regulation, and Economic Growth

10:00-11:30 Session One—Patents and Information (Wieboldt Hall #147)
Session Chair: Christian Helmers, Santa Clara University

Patents, Data Exclusivity, and the Development of New Drugs
Fabian Gaessler, Max Planck Institute for Innovation and Competition
Stefan Wagner, ESMT European School of Management and Technology*
Discussant: Bruno Versaevel, Emlyon Business School

R&D and Patent Decisions as Real Options under Ambiguity
Abraham Ravid, Sy Syms School of Business, Yeshiva University*
Gabriela Coiculescu, Sy Syms School of Business, Yeshiva University,
Yehuda Izhakiany, Zicklin School of Business, Baruch College  
Discussant: Joaquin Poblete, Pontificia Universidad Católica de Chile

*A Wonderland after Alice: Abstraction and Uncertainty of Patentability*
Nicholas Pairolero, United States Patent and Trademark Office*  
Jesse Frumkin, United States Patent and Trademark Office  
Asrat Tesfayesus, United States Patent and Trademark Office  
Andrew A. Toole, United States Patent and Trademark Office  
Discussant: Joel Blit, Department of Economics, University of Waterloo

Notice Failure Revisited: Evidence on the Use of Virtual Patent Marking
Gaétan de Rassenfosse, Chair of Innovation and IP Policy, College of Management of Technology, Ecole polytechnique fédérale de Lausanne  
Discussant: Georgios Effraimidis, Qualcomm Inc.

11:30-12:30  Lunch (Wieboldt Hall #540)

12:30-2:30  Session Two—Innovation in the Long Run (Wieboldt Hall #147)  
Session Chair: Alberto Galasso, Rotman School of Management, University of Toronto

*The Long-Run Impact of New Medical Ideas on Cancer Survival and Mortality*
Frank R. Lichtenberg, Columbia University  
Discussant: Simona Gamba, Department of Economics, University of Verona, Verona, Italy

Ideas-Driven Endogenous Growth and Standard-Essential Patents
Andrei Kirilenko, Imperial College Business School, Imperial College Business School*  
Albina Neklyudova-Khairullina, Ecole polytechnique fédérale de Lausanne  
Artem Neklyudov, University of Lausanne and SFI  
Christopher Tucci, Ecole polytechnique fédérale de Lausanne  
Discussant: Iacopo Grassi, University of Naples FEDERICO II, Italy

*The Relationship between Innovation and Firm Dynamics*
John Baldwin, Economic Analysis Division, Statistics Canada*  
Kate Chen, Economic Analysis Division, Statistics Canada  
Bob Gibson, Economic Analysis Division, Statistics Canada  
Anne-Marie Rollin, Economic Analysis Division, Statistics Canada  
Discussant: Gabriela Coiculescu, Assistant Professor of Finance, Yeshiva University, Sy Syms School of Business

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

3:00-5:00  Parallel Session Three A—Intellectual Property and Incentives (Wieboldt Hall #147)  
Session Chair: Kamil Kiljanski, Chief Economist, DG Internal Market and Industry, European Commission

Optimal Patent Protection with Sequential and Complementary Innovations
Piercarlo Zanchettin, University of Leicester School of Business*  
Vincenzo Denicolò, University of Bologna and CEPR  
Discussant: Georgios Petropoulos, Bruegel
Verifying High Quality: Entry for Sale
Pehr-Johan Norbäck, Research Institute of Industrial Economics (IFN)*
Lars Persson, Research Institute of Industrial Economics (IFN) and CEPR
Roger Svensson, Research Institute of Industrial Economics (IFN)
Discussant: Gaston Llanes, Pontificia Universidad Católica de Chile

Firm Creation and Moral Hazard in Teams
Pierre Mella-Barral, Toulouse Business School, University of Toulouse
Hamid Sabourian, University of Cambridge
Discussant: Francisco Ruiz-Aliseda, Pontificia Universidad Católica de Chile

Optimal Standards of Proof for Non-Obviousness and Infringement
Ezra Friedman, Northwestern Pritzker School of Law*
Abraham L. Wickelgren, University of Texas School of Law
Discussant: Joaquin Poblete, Pontificia Universidad Católica de Chile

Parallel Session Three B—Location, Location, Location
(Wieboldt Hall #250)
Session Chair: Pere Arqué-Castells, Searle Center on Law, Regulation, and Economic Growth, Northwestern Pritzker School of Law

Innovation Below North Dakota
Zack Liu, C.T. Bauer College of Business, University of Houston*
Avishai Schiff, University of Texas, Austin
Nathan Swem, Economist, Board of Governors, Federal Reserve System
Discussant: Christopher Tucci, Ecole Polytechnique Federale de Lausanne

Technological Opportunity and the Locus of Innovation: Airmail, Aircraft, and Local Capabilities
Robert Seamans, Leonard N. Stern School of Business, New York University
Eunhee Sohn, Scheller College of Business, Georgia Institute of Technology*
Daniel B. Sands, Leonard N. Stern School of Business, New York University
Discussant: Michal Grajek, ESMT Berlin

Pricing of Complements in the U.S. Freight Railroads: Cournot versus Coase
Alexei Alexandrov*
Russell Pittman, U.S. Department of Justice
Olga Ukhaneva, Georgetown University
Discussant: E. Mark Curtis, Department of Economics, Wake Forest University

Thinking Outside the Box: Cross-border Effects of Tax Cuts for Intellectual Property
Maximilian Todtenhaupt, University of Mannheim and ZEW
Thomas Schwab, University of Mannheim, WU Vienna and ZEW*
Discussant: Olga Ukhneva, Managing Consultant, Navigant Consulting and Senior Visiting Policy Scholar, Center for Business and Public Policy, Georgetown

5:00-6:00  Cocktail Reception (Wieboldt Hall #440)
6:00      Dinner (Wieboldt Hall #540)
7:00  Keynote Address

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

Luke Froeb, Deputy Assistant Attorney General for Economics, U.S. Department of Justice Antitrust Division; William C. Oehmig Chair of Free Enterprise and Entrepreneurship, Vanderbilt’s Owen Graduate School of Management.

Friday, June 22

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

9:00-11:00  Session Four—Innovation and Intellectual Property (Wieboldt Hall #147)
Session Chair: Ralph Siebert, Purdue University, Department of Economics, Krannert School of Management

How Does Product Liability Risk Affect Innovation? Evidence From Medical Implants
Hong Luo, Harvard Business School*
Alberto Galasso, Rotman School of Management, University of Toronto
Discussant: Rosemarie Ziedonis, Questrom School of Business, Boston University

The Elasticity of Science
Kyle Myers, National Bureau of Economic Research
Discussant: Benjamin Balsmeier, University of Luxembourg

What Explains Intellectual Property Use in Chile and Does It Make a Difference?
Christian Helmers, Santa Clara University*
Carsten Fink, World Intellectual Property Organization
Bronwyn H. Hall, Department of Economics, University of California, Berkeley
Discussant: Roberto Álvarez, Universidad De Chile

Easy to Keep, But Hard to Find: How Patentable Inventions Are Being Kept Secret
David T. Angenendt, Department of Economics, University of Bologna
Discussant: Lubomir P. Litov, University of Oklahoma, Michael F. Price College of Business

11:00-11:15  Break (Wieboldt Hall #150)

11:15-12:45  Parallel Session Five A—Science and Experience (Wieboldt Hall #147)
Session Chair: Georgios Efstramidis, Qualcomm Inc.

The Value of Insiders: Evidence from the Effects of NSF Rotators on Early Career Scientists
Christos Kolympiris, Warwick Business School, University of Warwick*
Sebastian Hoenen, Rotterdam School of Management
Discussant: Eunhee Sohn, Scheller College of Business, Georgia Institute of Technology
Amateurs
Kevin Boudreau, Northeastern University and NBER
Discussant: Laurina Zhang, Scheller College of Business, Georgia Institute of Technology

Science Is Shaped by Wikipedia: Evidence from a Randomized Control Trial
Neil Thompson, MIT Sloan School of Management*
Douglas Hanley, University of Pittsburgh
Discussant: Arvids Ziedonis, Questrom School of Business, Boston University

Parallel Session Five B—Financing Innovation and Entrepreneurship
(Wieboldt Hall #250)
Session Chair: Ramy Elitzur, Rotman School of Management, University of Toronto

Off-Balance Sheet Securitization, Bank Lending, and Corporate Innovation
Zhaoxia Xu, School of Banking and Finance, UNSW Business School*
Yiwei Dou, New York University
Discussant: Jing Huang, Pamplin College of Business, Virginia Tech

Herding in Equity Crowdfunding
Thomas Åstebro, HEC Paris*
Manuel Fernández, Economics Department, Oxford University
Stefano Lovo, HEC Paris
Nir Vulkan, Said Business School, Oxford University
Discussant: Artyom Jelnov, Ariel University, Israel

Competition in the Venture Capital Market and the Success of Startup Companies: Theory and Evidence
Suting Hong, School of Entrepreneurship and Management, ShanghaiTech University*
Konstantinos Serfes, School of Economics, LeBow College of Business, Drexel University
Veikko Thiele, Smith School of Business, Queen’s University
Discussant: Elvira Sojli, UNSW Business School

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

1:30-3:00 Session Six—Patents (Wieboldt Hall #147)
Session Chair: Andrew A. Toole, U.S. Patent and Trademark Office

How Redeployable are Patent Assets? Evidence from Failed Startups
Carlos J. Serrano, Universitat Pompeu Fabra and Barcelona GSE*
Rosemarie Ziedonis, Questrom School of Business, Boston University and NBER
Discussant: Nathan Swem, Economist, Board of Governors, Federal Reserve System

Getting International Patents: Does the Quality of Patent Attorney Matter?
Beth Webster, Swinburne University of Technology, Melbourne, Australia*
Gaétan de Rassenfosse, Ecole polytechnique fédérale de Lausanne
Paul H. Jensen, The University of Melbourne, Melbourne
T'Mir D. Julius, Swinburne University of Technology, Melbourne, Australia
Alfons Palangkaraya, Swinburne University of Technology, Melbourne, Australia
Discussant: Richard D. Miller, Office of Chief Economist, U.S. Patent and Trademark Office

Patent Validity Challenges and The America Invents Act
Talia Bar, Department of Economics, University of Connecticut*
Brendan Costello, Department of Economics, Yale University
Discussant: Avik Chakrabarti Department of Economics, UWM

3:00 Adjourn

*Presenters are indicated with an *