Thirteenth Annual Conference on Innovation Economics

USPTO/ Kellogg School of Management/ Northwestern Center on Law, Business, and Economics

Thursday, August 27, 2020 — Friday, August 28, 2020

WebEx Virtual Conference

This conference is organized by Daniel F. Spulber, Kellogg School of Management, Northwestern University

All times listed are CDT (Central Daylight Time)

Thursday, August 27th

9:00 a.m.       Registration Log-on

9:15-9:30       Welcome and Introduction to the Conference
                Daniel F. Spulber, Kellogg School of Management, Northwestern University
                Andrew Toole, Chief Economist, United States Patent and Trademark Office

9:35-11:30      Session One — Intellectual Property
                Session Chair: Scott Kominers, Harvard Business School

                Effect of Technical Competition on Patent Collateralization for Debt Financing
                Tianyuan Cai, Pomona College
Discussant: **Alberto Galasso**, Rotman School of Management, University of Toronto

*Borrowing against the (Un)Known: Patent Portfolios and Leverage*

**David Heller**, Max Planck Institute for Innovation and Competition*

**Andrej Gill**, Department of Economics and Business Administration, Johannes Gutenberg University Mainz

Discussant: **Nicholas Rada**, United States Patent and Trademark Office

*Examination Incentives, Learning, and Patent Office Outcomes: The Use of Examiner's Amendments at the USPTO*

**Charles A. W. de Grazia**, University of London, Royal Holloway College and United States Patent and Trademark Office*

**Nicholas A. Pairolero**, United States Patent and Trademark Office

**Mike H. M. Teodorescu**, Boston College, Carroll School of Management and Harvard Business School

Discussant: **Pere Arque-Castells**, Innovation Management and Strategy Department, University of Groningen

*Network-Mediated Knowledge Spillovers in ICT/Information Security*

**Neil Gandal**, Berglas School of Economics, Tel Aviv University*

**Nadav Kunievsky**, Department of Economics, The University of Chicago

**Lee Branstetter**, Carnegie Mellon University, Heinz College

Discussant: **Imke Reimers**, Northeastern University

11:35-12:30  **KEYNOTE ADDRESS**

Introduction: Daniel F. Spulber

Keynote Speaker: **Makan Delrahim**, Assistant Attorney General for the Antitrust Division, U.S. Department of Justice

12:35-2:00  **Session Two — International Aspects of Innovation**

Session Chair: **Christian Helmers**, Santa Clara University

*Cross-Border Institutions and the Globalization of Innovation*

**Bo Bian**, Sauder School of Business, University of British Columbia*

**Jean-Marie Meier**, Jindal School of Management, University of Texas at Dallas

**Ting Xu**, University of Virginia, Darden School of Business

Discussant: **Mercedes Campi**, CONICET - University of Buenos Aires, Faculty of Economics, IIEP-Baires
GDPR (Europe’s General Data Protection Regulation) and the Localness of 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: Mario Daniele Amore, Bocconi University

Jin Cao, Norges Bank, the Central Bank of Norway *
Chenguo (Coco) Zhang, KoGuan Law School, Shanghai Jiao Tong University; and Centre for European Law and Politics, University of Bremen
Discussant: Huiyan Zhang, Heinz College, Carnegie Mellon University

2:05-3:30 Session Three — Public Policy toward Technology Standards

Session Chair: Michelle Saksena, United States Patent and Trademark Office

Cooperation, Competition and Patents: Understanding Innovation in the Telecommunication Sector
Tatiana Rosa, CEMFI
Discussant: Pedro Schilling-De-Carvalho, University of Cambridge - Sidney Sussex College

Standard Setting Organizations and Networked Oligopolies in General Equilibrium
Avik Chakrabarti, Department of Economics, University of Wisconsin, Milwaukee*
Hamid Beladi, University of Texas at San Antonio
Discussant: Alexei Alexandrov, Wayfair

A Tale of Two IPs in China: Linking Intellectual Property and Industrial Policy Through Standard Essential Patents
Philip Rogers, UC Berkeley Political Science Department
Discussant: Chenguo (Coco) Zhang, Centre for European Law and Politics, University of Bremen

3:35-5:00 Session Four— PANEL DISCUSSION: Prospects for the Protection of Intellectual Property Rights

Overview Are protections for IP rights getting weaker or stronger? The panel will discuss how the protection of IP rights has evolved over the last two decades. The panel will examine public policies toward Standard Essential Patents (SEPs). The panel will consider key legal cases such as eBay on injunctions and various decisions on patent subject matter eligibility. The panel will also note other developments that affect IP such as the USPTO’s Patent Trial and Appeal Board (PTAB). Finally, the
panel will consider prospects for the protection of IP rights in the future.

Session Chair Bruce Kobayashi, Antonin Scalia School of Law, George Mason University

Alan Marco, former Chief Economist, United States Patent and Trademark Office; School of Public Policy, Georgia Institute of Technology

Mark Snyder, Vice President and Patent Counsel, Qualcomm Incorporated

Jonathan Barnett, Gould School of Law, University of Southern California

Saurabh Vishnubhakat, School of Law, Dwight Look College of Engineering, Texas A&M University

Lawrence White, Stern School of Business, New York University

A “Primarily Property” Presumption Is – Still – Really Needed for the IP/Antitrust Interface

5:00 Adjourn

Friday, August 28th

9:00-11:00 Session Five— The Market for Patents and Patent Licensing

Session Chair: Daryl Lim, The University of Illinois at Chicago, John Marshall Law School

When Do Firms Trade Patents?
Jung H. Kwon, Jindal School of Management, University of Texas at Dallas*
H. Dennis Park, Jindal School of Management, University of Texas at Dallas
Shu Deng, Jindal School of Management, University of Texas at Dallas
Discussant: Marco Ceccagnoli, Georgia Tech

A Theory of Patent Holdout
Gerard Llobet, CEMFI and CEPR*
Jorge Padilla, Compass Lexecon
Discussant: Andrej Gill, Department of Economics and Business Administration, Johannes Gutenberg University Mainz

Compete or Cooperate? The Effect of Patent Protection on Licensing Decisions of Inventors
Honggi Lee, The Fuqua School of Business, Duke University
Discussant: H. Dennis Park, Jindal School of Management, University of Texas at
Collective licensing and asymmetric information: The double effect of the Medicine Patent Pool on generic drug markets
Arianna Martinelli, Scuola Superiore Sant'Anna, Pisa
Andrea Mina, Scuola Superiore Sant'Anna, Pisa*
Elena Romito, Scuola Superiore Sant'Anna, Pisa
Discussant: Kevin Tseng, Federal Reserve Bank of Richmond

11:05-1:00  Session Six — IP and Innovation

Session Chair: Ralph Siebert, Krannert School of Management, Purdue University

Institutional Ownership and the Strategic Drafting of Patents
Aneesh Datar, Bocconi University, Department of Management and Technology*
Mario Daniele Amore, Bocconi University, Department of Management and Technology
Andrea Fosfuri, Bocconi University, Department of Management and Technology
Discussant: Mike H. M. Teodorescu, Boston College, Carroll School of Management and Harvard Business School

Do Patents Enable Disclosure? Evidence from the Invention Secrecy Act
Gabriele Pellegrino, College of Management of Technology, Ecole Polytechnique Federale de Lausanne*
Gaetan de Rassenfosse, College of Management of Technology, Ecole Polytechnique Federale de Lausanne
Emilio Raiteri, School of Innovation Sciences, Eindhoven University of Technology
Discussant: Runhua Wang, Chicago-Kent College of Law

Booms, Busts, and the Quality of Innovation
Christos Makridis, Massachusetts Institute of Technology*
Erin McGuire, Scheller College of Business, Georgia Institute of Technology
Discussant: Tony Tong, Leeds School of Business, University of Colorado Boulder

Patent Auctions and Bidding Coalitions: Structuring the Sale of Club Goods
Mariagiovanna Baccara, Olin School of Business, Washington University in Saint Louis*
John Asker, Department of Economics, University of California in Los Angeles
SangMok Lee, Department of Economics, Washington University in St. Louis
Discussant: Alexei Alexandrov, Wayfair
Session Seven — PANEL DISCUSSION: Antitrust Policy and Intellectual Property

**Overview:** Are Antitrust Policy and IP rights at odds? The panel will discuss whether Antitrust Policy and IP rights are complements or are sometimes in conflict. The panel will consider whether there are ways that Antitrust Policy can be adjusted that are more sympathetic to innovation. The panel will examine whether there are ways that public policy toward IP rights can be positioned to address Antitrust Policy concerns. The panel will consider how the impact of Antitrust Policy on IP rights will evolve in the future.

Session Chair: **Jeffrey Prince**, Chief Economist, U.S. Federal Communications Commission (FCC); Kelley School of Business, Indiana University

**Alden F. Abbott**, General Counsel, U.S. Federal Trade Commission (FTC)

**Joshua D. Wright**, Scalia School of Law, George Mason University

**Kirti Gupta**, Vice President, Technology & Economic Strategy, Qualcomm Incorporated

**Danny Sokol**, Levin School of Law, University of Florida

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

2:45 Adjourn

*Presenters are indicated with an *