

Fifth Annual Research Roundtable on Patents and Technology Standards

Thursday, May 4, 2017 — Friday, May 5, 2017

Northwestern University—Wieboldt Hall
340 E. Superior Street, Chicago, IL 60611

This roundtable is organized by Daniel F. Spulber, Pere Arqué-Castells, and Justus Baron.

Thursday, May 4th

- 9:30 a.m. **Registration Check-in and Continental Breakfast**
(1st floor of Wieboldt Hall)
- 10:30 a.m. **Welcome and Introduction to the Conference** (Wieboldt Hall #150)
Matthew L. Spitzer, Howard and Elizabeth Chapman Professor and
Director, Searle Center on Law, Regulation, and Economic Growth at
Northwestern Pritzker School of Law
Daniel F. Spulber, Research Director, Searle Center on Law,
Regulation, and Economic Growth, and Elinor Hobbs Distinguished
Professor of International Business and Professor of Strategy, Kellogg
School of Management, Northwestern University
- 10:30 to 12:00 **Session One—Patents and Litigation** (Wieboldt Hall #150)
Session Chair: **Laura Pedraza-Fariña**, Northwestern Pritzker School of Law
- Patent Value and Uncertain Property Rights: Implications from Patent
Litigation*
Alan C. Marco, Chief Economist, United States Patent and Trade
Mark Office*
Richard D. Miller, Senior Economist, United States Patent and Trade
Mark Office
Discussant: **Brian L. Frye**, University of Kentucky, College of Law
- Patent Trolls: Benign Middleman or Stick-Up Artist?*
David S. Abrams, University of Pennsylvania Law School
Ufuk Akcigit, University of Chicago, Department of Economics*

Gokhan Oz, University of Pennsylvania, Department of Economics
Discussant: **Iain Cockburn**, Boston University, Questrom School of Business

[Roadblock to Innovation: The Role of Patent Litigation in Corporate R&D](#)

Filippo Mezzanotti, Kellogg School of Management, Northwestern University

Discussant: **Pere Arqué-Castells**, Searle Center on Law, Regulation, and Economic Growth, Northwestern Pritzker School of Law

12:00 to 1:00 **Lunch** (Wieboldt Hall 540)

1:00 to 2:30 **Session Two—Patents** (Wieboldt Hall #150)
Session Chair: **Georgios Effraimidis**, Qualcomm Inc.

Patent Disclosure

Deepak Hegde, New York University, Leonard N. Stern School of Business*

Kyle Herkenhoff, University of Minnesota

Chenqi Zhu, New York University, Leonard N. Stern School of Business

Discussant: **Alberto Galasso**, Rotman School of Management, University of Toronto

[An Economic Model of Patent Exhaustion](#)

Olena Ivus, Smith School of Business, Queen's University*

Edwin L.-C. Lai, Department of Economics, Hong Kong University of Science and Technology

Ted Sichelman, University of San Diego School of Law

Discussant: **Pierre Larouche**, Tilburg University and Northwestern Pritzker School of Law

The Impact of International Patent Systems: Evidence from Accession to the European Patent Convention

Bronwyn Hall, University of California at Berkeley

Christian Helmers, Leavey School of Business, Santa Clara University*

Discussant: **Christian Fons-Rosen**, Universitat Pompeu Fabra and Barcelona GSE

2:30 to 3:00 **Break** (Wieboldt Hall #147)

3:00 to 5:00 **Session Three—Intellectual Property and Innovation**
(Wieboldt Hall #150)

Session Chair: **Dirk Czarnitzki**, KU Leuven, Dept. of Managerial Economics, Strategy and Innovation

Patent Laws and Innovation Selection in the Global Firm

L. Kamran Bilir, University of Wisconsin, Madison, Economics Department

Yoko Sakamoto, University of Wisconsin, Madison, Economics Department

Discussant: **Hong Luo**, Harvard Business School

Back to Basics: Why do Firms Invest in Research?

Ashish Arora, The Fuqua School of Business, Duke University*

Sharon Belenzon, The Fuqua School of Business, Duke University

Lia Sheer, The Fuqua School of Business, Duke University

Discussant: **Ralph Siebert**, Purdue University, Department of Economics, Krannert School of Management

[An Empirical Study of University Patent Activity](#)

Christopher J. Ryan, Jr., Vanderbilt University*

Brian L. Frye, University of Kentucky, College of Law

Discussant: **Aija Leiponen**, Charles H. Dyson School of Applied Economics and Management, Cornell University

5:00 **Cocktail Reception** (Wieboldt Hall #440)

6:00 **Networking Dinner** (Wieboldt Hall #540)

Friday, May 5th

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

9:00 to 10:30 **Session Four— Technology Standards and Standard Essential Patents**
(Wieboldt Hall #150)

Session Chair: **Julie Carlson**, Federal Trade Commission

[Litigation of Standards-Essential Patents in Europe: A Comparative Analysis](#)

Jorge L. Contreras, The University of Utah, College of Law*

Fabian Gaessler, Max Planck Institute for Innovation and Competition

Christian Helmers, Leavey School of Business, Santa Clara University

Brian J. Love, Santa Clara University School of Law
Discussant: **David L. Schwartz**, Northwestern Pritzker School of Law

*The Effect of Technological Change on Firm Survival and Growth—
Evidence from Technology Standards*

Justus Baron, Searle Center on Law, Regulation, and Economic
Growth, Northwestern Pritzker School of Law*

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

Discussant: **Laurie Ciaramella**, Cerna, Mines ParisTech

A Welfare Economic Interpretation of FRAND

Jen Leth Hougaard, Department of Food and Resource Economics,
University of Copenhagen

Chiu Yu Ko, Assistant Professor, Department of Economics,
National University of Singapore*

Xuyao Zhang, Lee Kuan Yew School of Public Policy, National
University of Singapore

Discussant: **Natalia Fabra**, Universidad Carlos III de Madrid

10:30 to 11:00 **Break** (Wieboldt Hall #147)

11:00 to 12:30 **Session Five—Patents, Licensing, and Spillovers** (Wieboldt Hall #150)
Session Chair: **Dan Breznitz**, Munk School of Global Affairs, University of
Toronto

[*Reversed Citations and the Localization of Knowledge Spillovers*](#)

Ashish Arora, The Fuqua School of Business, Duke University

Sharon Belenzon, The Fuqua School of Business, Duke University*

Honggi Lee, The Fuqua School of Business, Duke University

Discussant: **Benjamin Balsmeier**, ETH Zurich, KOF Swiss
Economic Institute

Firm Matching in the Market for Technology

Pere Arqué-Castells, Searle Center on Law, Regulation, and
Economic Growth, Northwestern Pritzker School of Law*

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

Discussant: **Cher Li**, Nottingham University Business School

[*Do Valid Patents Promote Progress?*](#)

Jonathan H. Ashtor, Paul, Weiss, Rifkind, Wharton & Garrison, LLP

Discussant: **Tony Tong**, Krannert School of Management, Purdue
University

12:30 **Lunch** (Wieboldt Hall #540)

Adjourn

Confirmed Participants (as of 4/25/2017):

1. **Maddalena Agnoli**, MINES ParisTech (CERNA)
2. **Ufuk Akcigit**, University of Chicago, Department of Economics
3. **Ashish Arora**, Duke University, The Fuqua School of Business
4. **Pere Arqué-Castells**, Searle Center on Law, Regulation, and Economic Growth, Northwestern Pritzker School of Law
5. **Jonathan Ashtor**, Paul, Weiss, Rifkind, Wharton & Garrison LLP
6. **Benjamin Balsmeier**, ETH Zurich, KOF Swiss Economic Institute
7. **Talia Bar**, Department of Economics, University of Connecticut
8. **Justus Baron**, Searle Center on Law, Regulation, and Economic Growth, Northwestern Pritzker School of Law
9. **Sharon Belenzon**, The Fuqua School of Business, Duke University
10. **L. Kamran Bilir**, University of Wisconsin, Madison, Economics Department
11. **Dan Breznitz**, Munk School of Global Affairs, University of Toronto
12. **Jin Cao**, Norges Bank, the Central Bank of Norway
13. **Julie Carlson**, Federal Trade Commission
14. **Laurie Ciaramella**, Cerna, Mines ParisTech
15. **Iain Cockburn**, Boston University, Questrom School of Business (**THURSDAY ONLY**)
16. **Jorge L. Contreras**, The University of Utah, College of Law
17. **Dirk Czarnitzki**, KU Leuven, Dept. of Managerial Economics, Strategy and Innovation
18. **Xinghua Deng**, Tsinghua University, School of Public Policy and Management
19. **Mian Dai**, Department of Economics and International Business, Bennett S. LeBow College of Business, Drexel University
20. **Supradeep Dutta**, SUNY Buffalo, School of Management
21. **Georgios Effraimidis**, Qualcomm Inc.
22. **Natalia Fabra**, Centre for Economic Policy Research, Universidad Carlos III de Madrid (**FRIDAY ONLY**)
23. **Christian Fons-Rosen**, Universitat Pompeu Fabra and Barcelona GSE
24. **Brian L. Frye**, University of Kentucky, College of Law
25. **Alberto Galasso**, Rotman School of Management, University of Toronto (**THURSDAY ONLY**)
26. **Amy Garber**, Hazel Technologies, Inc.
27. **Wenlong He**, University of International Business & Economics
28. **Deepak Hegde**, New York University, Leonard N. Stern School of Business (**THURSDAY ONLY**)
29. **Christian Helmers**, Leavey School of Business, Santa Clara University
30. **Olena Ivus**, Smith School of Business, Queen's University
31. **Amol M. Joshi**, Oregon State University, College of Business
32. **Nikita Kaul**, NowPow
33. **Jay P. Kesan**, University of Illinois College of Law
34. **Jessica Kim-Gina**, The Wharton School of the University of Pennsylvania
35. **Chiu Yu Ko**, Department of Economics, National University of Singapore
36. **Margaret Kyle**, MINES ParisTech (CERNA)
37. **Pierre Larouche**, Tilburg University and Northwestern Pritzker School of Law
38. **Anne Layne-Farrar**, Vice President, Charles River Associates
39. **Honggi Lee**, The Fuqua School of Business, Duke University

40. **Aija Leiponen**, Charles H. Dyson School of Applied Economics and Management, Cornell University
41. **Cher Li**, Nottingham University Business School
42. **Sonja Lück**, University of Paderborn, Faculty of Business Administration and Economics
43. **Hong Luo**, Harvard Business School
44. **Alan C. Marco**, Chief Economist, United States Patent and Trade Mark Office
45. **Filippo Mezzanotti**, Kellogg School of Management, Northwestern University (**THURSDAY ONLY**)
46. **Jane Olmstead-Rumsey**, Department of Economics, Northwestern University
47. **Yasin Ozcan**, National Bureau of Economic Research
48. **Laura Pedraza-Fariña**, Northwestern Pritzker School of Law
49. **Matthew White Ridley**, Department of Economics, MIT
50. **Tatiana Rosá**, Centro de Estudios Monetarios y Financieros (CEMFI)
51. **Christopher J. Ryan, Jr.**, Vanderbilt University
52. **Yoko Sakamoto**, University of Wisconsin, Madison, Economics Department (**Thursday Only**)
53. **David L. Schwartz**, Northwestern Pritzker School of Law
54. **Ralph Siebert**, Purdue University, Department of Economics, Krannert School of Management
55. **Gurneeta Vasudeva Singh**, Carlson School of Management, University of Minnesota
56. **Matthew L. Spitzer**, Searle Center on Law, Regulation, and Economic Growth, Northwestern Pritzker School of Law
57. **Daniel F. Spulber**, Kellogg School of Management, Northwestern University
58. **Jeffrey Strauss**, The Roberta Buffett Institute for Global Studies, Northwestern University
59. **Wing Wah Tham**, School of Banking and Finance, University of New South Wales
60. **Tony Tong**, Krannert School of Management, Purdue University
61. **Lore Unt**, United States Patent and Trademark Office
62. **Lyu Uzunov**, Tech+IP Advisory Group, Houlihan Lokey
63. **Pierre-Luc Vautrey**, Department of Economics, MIT
64. **Sean Wang**, Department of Economics, MIT
65. **Paul Widrum**, Nottingham University Business School
66. **Steven Chong Xiao**, Naveen Jindal School of Management, University of Texas at Dallas
67. **Mingtao Xu**, Krannert School of Management, Purdue University
68. **Chenguo (Coco) Zhang**, University Bremen, Law School