

**Third Annual Searle Center Research Roundtable on
Innovation Economics:
Patent and Technology Standard Data Sets**

Thursday, April 9-Friday, April 10, 2015
Wieboldt Hall #147
Northwestern University School of Law
340 E. Superior Street, Chicago, IL 60611

This conference is organized by Stuart Graham and Daniel F. Spulber.

The conference introduces major new data sets. A goal of the conference is to encourage young researchers in economics and law to carry out empirical research in the field of innovation.

Thursday, April 9th

11:00 a.m. **Registration Check-In** (1st floor Wieboldt Hall)

12:00 p.m. **Lunch** (Wieboldt Hall 540)

1:00 **Welcome and Introduction** (Wieboldt Hall 147)

Matthew L. Spitzer, Howard and Elizabeth Chapman Professor and Director, Searle Center on Law, Regulation, and Economic Growth, Northwestern University 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

Stuart J. Graham, Senior Advisor, U.S. Patent and Trademark Office and Georgia Institute of Technology

1:15-2:45 **Session One— Patent Examination and Applications** (Wieboldt Hall 147)

Session Chair: Pere Arqué-Castells, Searle Center on Law, Regulation, and Economic Growth, Northwestern University School of Law

“Public PAIR Data Release: How Representative Are the Public PAIR Data?”

Stuart J. Graham, Senior Advisor, U.S. Patent and Trademark Office and Georgia Institute of Technology

Alan C. Marco, Chief Economist, United States Patent and Trademark Office

Richard Miller, U.S. Patent and Trademark Office

Discussant: Talia Bar, Department of Economics, University of Connecticut

"Business Dynamics of Innovating Firms: Linking U.S. Patent Data with Administrative Data on Workers and Firms"

Javier Miranda, Principal Economist, Business Dynamics Statistics Program, U.S. Census Bureau*

Stuart J. Graham, Senior Advisor, U.S. Patent and Trademark Office and Georgia Institute of Technology

Alan C. Marco, Chief Economist, United States Patent and Trademark Office

Cheryl Grim, Economist, U.S. Census Bureau

Tariqul Islam, Statistician, U.S. Census Bureau

Discussant: Yann Ménière, Mines Paris Tech

"Automated Disambiguations of US Patent Grants and Applications"

Benjamin Balsmeier, Freiberg University of Technology, Germany*

Gabe Fierro, UC Berkeley, Coleman Fung Institute for Engineering Leadership

Lee Fleming, UC Berkeley, Coleman Fung Institute for Engineering Leadership

Kevin Johnson, UC Berkeley, Electrical Engineering and Computer Science

Aditya Kaulagi, UC Berkeley, Electrical Engineering and Computer Science

Guan-Cheng Li, UC Berkeley, Coleman Fung Institute for Engineering Leadership

William Yeh, UC Berkeley, Electrical Engineering and Computer Science

Discussant: Nicolas van Zeebroeck, Université Libre de Bruxelles, Solvay Brussels School of Economics and Management

2:45-3:15 **Break** (Wieboldt Hall 150)

3:15-4:45 **Session Two— Technology Standards and Standards Organizations**
(Wieboldt Hall 147)

Session Chair: Yann Ménière, Mines Paris Tech

"Unpacking 3GPP Standards"

Justus Baron, Research Associate, Innovation Economics Project, Searle Center on Law, Regulation, and Economic Growth, Northwestern University School of Law

Kirti Gupta, Director, Economic Strategy, Qualcomm Incorporated*

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

"The Searle Center Database of Technology Standards and Standard Setting Organizations"

Justus Baron, Research Associate, Innovation Economics Project, Searle Center on Law, Regulation, and Economic Growth, Northwestern University 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

Discussant: Joanna Tsai, Charles River Associates (formerly Federal Trade Commission)

“Mapping Standards to Patents using Databases of Declared Standard-Essential Patents and Systems of Technological Classification”

Justus Baron, Research Associate, Innovation Economics Project, Searle Center on Law, Regulation, and Economic Growth, Northwestern University School of Law

Tim Pohlmann, Research Fellow, Mines ParisTech and Technische Universität Berlin*

Discussant: Arvids Ziedonis, Visiting Scholar, Department of Management Science and Engineering, School of Engineering, Stanford University

5:00-6:00 **Cocktail Reception** (Wieboldt Hall 440)

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

7:00 **Introduction**

Stuart J. Graham, Senior Advisor, U.S. Patent and Trademark Office and Georgia Institute of Technology

Keynote Address

Suzanne Drennon Munck, Chief Counsel for Intellectual Property, Deputy Director, Office of Policy Planning, Federal Trade Commission

Friday, April 10th

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

9:00-10:30 **Session Three— Patents and the Location of Innovation** (Wieboldt Hall 147)

Session Chair: Stuart J. Graham, Senior Advisor, U.S. Patent and Trademark Office and Georgia Institute of Technology

“How Courts Decide Patent Definiteness and Disclosure”

John R. Allison, Mary John and Ralph Spence Centennial Professor of Business Administration, University of Texas at Austin

Lisa Larrimore Ouellette, Assistant Professor of Law, Stanford Law School

Discussant: Michael Frakes, Northwestern University School of Law

“Mobility of Knowledge and Local Innovation Activity”

Kyriakos Drivas, Department of Agricultural Economics & Rural Development, Agricultural University Of Athens

Claire Economidou, Department of Economics, University of Piraeus

Discussant: Laura Pedraza Fariña, Northwestern University School of Law

“Chinese Patent Data Project: Linking SIPO Patents to Listed Firms in China”

Tony W. Tong, Leeds School of Business, University of Colorado*

Yuchen Zhang, Leeds School of Business, University of Colorado

Discussant: Scott Kennedy, Center for Strategic and International Studies (CSIS)

10:30-10:45 **Break** (Wieboldt Hall 150)

10:45-12:15 **Session Four— Patents, Trademarks and the Market for Inventions**
(Wieboldt Hall 147)

Session Chair: Jorge L. Contreras, S.J. Quinney College of Law, University of Utah

"Patent Transactions in the Marketplace: Lessons from the USPTO Patent Assignment Dataset"

Stuart J. Graham, Senior Advisor, U.S. Patent and Trademark Office and Georgia Institute of Technology

Alan C. Marco, Chief Economist, United States Patent and Trademark Office

Amanda F. Myers, Economist, Office of Chief Economist, Office of Policy and International Affairs, U.S. Patent and Trademark Office

Discussant: Carlos J. Serrano, Department of Economics and Business Economics, Universitat Pompeu Fabra

"Monetizing Marks: Insights from the USPTO Trademark Assignment Dataset"

Stuart J. Graham, Senior Advisor, U.S. Patent and Trademark Office and Georgia Institute of Technology

Alan C. Marco, Chief Economist, United States Patent and Trademark Office (USPTO)

Amanda F. Myers, Economist, Office of Chief Economist, Office of Policy and International Affairs, U.S. Patent and Trademark Office

Discussant: David L. Schwartz, IIT Chicago-Kent College of Law

"Cross-country analysis of ICT impact using firm-level data: Micro Moments Database and Research Infrastructure"

Eric J. Bartelsman, Department of Economics, Vrije Universiteit

Eva Hagsten, Statistics Sweden

Michael Polder, Statistics Netherlands

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

12:15-1:15 **Lunch** (Wieboldt Hall 540)

1:00-1:15 **Some Remarks about the Conference**

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

Stuart Graham, Senior Advisor, U.S. Patent and Trademark Office and Georgia Institute of Technology

1:15-2:45 **Session Five— Panel Discussion on Publishing Empirical Analysis in Economics and Law** (Wieboldt Hall 147)

Session Chair: Daniel F. Spulber, Northwestern University, Editor, *Journal of Economics & Management Strategy*

Ashish Arora, Fuqua School of Business, Duke University, Department Editor, Entrepreneurship and Innovation, *Management Science*

Max M. Schanzenbach, Northwestern University School of Law, Co-Editor in Chief, *American Law and Economics Review*

Bernard Black, Nicholas D. Chabreja Professor, Northwestern University Law School, Managing Director of the Social Science Research Network (SSRN)

Rosemarie Ziedonis, Lundquist College of Business, University of Oregon

2:45 **Adjourn**

* *Presenting*

Confirmed Participants (as of April 2, 2015)

1. **John Allison**, McCombs School of Business, University of Texas at Austin
2. **Ashish Arora**, Fuqua School of Business, Duke University
3. **Pere Arqué-Castells**, Searle Center on Law, Regulation, and Economic Growth, Northwestern University School of Law
4. **Benjamin Balsmeier**, Freiberg University of Technology, Germany
5. **Talia Bar**, Department of Economics, University of Connecticut
6. **Justus Baron**, Searle Center on Law, Regulation, and Economic Growth, Northwestern University School of Law
7. **Eric J. Bartelsman**, Department of Economics, Vrije Universiteit
8. **Pilar Beneito**, University of Valencia
9. **Fred Bereskin**, University of Delaware
10. **Bernard Black**, Northwestern University School of Law
11. **Wendy A. Bradley**, HEC Paris
12. **Chirantan Chatterjee**, Indian Institute of Management, Bangalore, India
13. **Jorge L. Contreras**, S.J. Quinney College of Law, University of Utah
14. **Gaétan de Rassenfosse**, Ecole Polytechnique Fédérale de Lausanne
15. **Kyriakos Drivas**, Department of Agricultural Economics & Rural Development, Agricultural University Of Athens
16. **Beatrice Dumont**, University of Paris 13
17. **Claire Economidou**, Department of Economics, University of Piraeus
18. **Edward J. Egan**, Imperial College Business School
19. **Andreea Enache**, Paris School of Economics and University of Chicago (visiting)
20. **Daniel Ershov**, Rotman School of Management, University of Toronto
21. **Lee Fleming**, University of California, Berkeley
22. **Hila Fogel-Yaari**, Rotman School of Management, University of Toronto
23. **Roberto Fontana**, Pavia University and CRIOS - Bocconi University
24. **Michael Frakes**, Northwestern University School of Law
25. **Fabian Gaessler**, Max Planck Institute for Innovation and Competition
26. **Bernhard Ganglmair**, Naveen Jindal School of Management, The University of Texas at Dallas

27. **Ina Ganguli**, University of Massachusetts, Amherst
28. **Joel Gehman**, University of Alberta
29. **Alexander Gelatovic**, Universidad de los Andes, Chile
30. **Stuart J. Graham**, Georgia Institute of Technology
31. **Kirti Gupta**, Qualcomm Incorporated
32. **Brian Higginbotham**, School of Policy, Government, and International Affairs, George Mason University
33. **Erik Hovenkamp**, Northwestern University School of Law
34. **Jingjing (Jing) Huang**, Pamplin College of Business, Virginia Tech
35. **Mayank Jaiswal**, Scheller College of Business at the Georgia Institute of Technology
36. **T'Mir Julius**, Centre for Transformative Innovation, Swinburne University of Technology
37. **Scott Kennedy**, Center for Strategic and International Studies (CSIS)
38. **Jay P. Kesan**, University of Illinois College of Law
39. **Adrián Kovacs**, KU Leuven
40. **Margaret Kyle**, Paris MINESTech
41. **Pierre Larouche**, Tilburg Law School
42. **Anne Layne-Farrar**, Charles River Associates
43. **Zhen Lei**, Department of Energy and Mineral Engineering at Pennsylvania State University
44. **Aija Leiponen**, Charles H. Dyson School of Applied Economics and Management, Cornell University
45. **Celia Lerman**, Stanford Law School
46. **Gerard Llobet**, CEMFI
47. **Michelle Lowry**, LeBow College of Business, Drexel University
48. **Alan C. Marco**, U.S. Patent and Trademark Office
49. **Juan Mañez**, Department of Applied Economics II and ERICES, University of Valencia
50. **Yann Ménière**, Cerna - MINES ParisTech
51. **Ian D. McClure**, Intellectual Property Exchange International (IPXI)
52. **Brian Michalek**, Intellectual Property Exchange International (IPXI)
53. **Richard Miller**, U.S. Patent and Trademark Office
54. **Javier Miranda**, U.S. Census Bureau
55. **Suzanne Drennon Munck**, Office of Policy Planning, Federal Trade Commission
56. **Amanda F. Myers**, U.S. Patent and Trademark Office
57. **Kristen Osenga**, University of Richmond School of Law
58. **Lisa Larrimore Ouellette**, Stanford Law School
59. **Yasin Ozcan**, Kellogg School of Management, Northwestern University
60. **Laura Pedraza-Fariña**, Northwestern University School of Law
61. **Tim Pohlmann**, Mines ParisTech and Technische Universität Berlin
62. **Jeff Prince**, Kelley School of Business, Indiana University
63. **Jon Putnam**, Competition Dynamics
64. **E.J. Reedy**, Ewing Marion Kauffman Foundation
65. **Brandon Roberts**, Qualcomm Corporation
66. **María Rochina-Barrachina**, University of Valencia
67. **Arsalan Safari**, Sociotechnical Systems Research Center, MIT
68. **Amparo Sanchis-Llopis**, Department of Applied Economics II and ERICES, University of Valencia
69. **Juan A. Sanchis-Llopis**, Department of Applied Economics II and ERICES, University of Valencia
70. **Max Schanzenbach**, Northwestern University School of Law
71. **David L. Schwartz**, IIT Chicago-Kent College of Law
72. **Carlos J. Serrano**, Department of Economics and Business Economics, Universitat Pompeu Fabra

73. **Ralph Siebert**, Purdue University, Department of Economics, Krannert School of Management
74. **Mark Snyder**, Qualcomm Inc.
75. **Matthew L. Spitzer**, Searle Center on Law, Regulation, and Economic Growth
76. **Daniel F. Spulber**, Kellogg School of Management, Northwestern University
77. **Darren Stevenson**, Center for Internet & Society, Stanford Law School
78. **Neel Sukhatme**, Princeton University, Department of Economics
79. **Zhen Sun**, Agricultural and Resource Economics, University of California, Berkeley
80. **Wing Wah Tham**, Erasmus University of Rotterdam
81. **Tony W. Tong**, Leeds School of Business, University of Colorado
82. **Joanna Tsai**, Federal Trade Commission
83. **Nicolas van Zeebroeck**, Solvay Brussels School of Economics and Management, Université Libre de Bruxelles
84. **Ryan Whalen**, Northwestern University School of Law
85. **Chenguo "Coco" Zhang**, Universität Bremen
86. **Quin Kun Zhang**, Leeds School of Business, University of Colorado
87. **Yuchen Zhang**, Leeds School of Business, University of Colorado
88. **Arvids Ziedonis**, Department of Management Science and Engineering, School of Engineering, Stanford University
89. **Rosemarie Ziedonis**, Lundquist College of Business, University of Oregon
90. **Samantha Zyontz**, MIT, Sloan School of Management