

Fourth Annual Research Roundtable on Technology Standards

Thursday, May 5-Friday, May 6, 2016

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

This roundtable is organized by Justus Baron and Daniel F. Spulber.

Thursday, May 5th

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

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

10:30 to 12:00 **Session One—Standardization and International Economics** (Wieboldt Hall #150)
Session Chair: **Andrew Updegrove**, Gesmer Updegrove LLP

Standard Harmonization in International Trade

Julia Schmidt, Banque de France

Walter Steingress, Banque de France

Discussant: **Keith E. Maskus**, Department of Economics, University of Colorado, Boulder

Competition between the United States and China in Standard Setting: Case Study of 3G and 4G Telecommunication Technology

Luke Hung-Yu Chuang, University of Washington (UW) School of Law

Jane Winn, University of Washington School of Law

Discussant: **Dan Breznitz**, Munk School of Global Affairs, University of Toronto

Government Participation in SSO: US vs China

Jin Cao, Norges Bank

Chenguo (Coco) Zhang, Universität Bremen

Discussant: **Ping Gao**, Global Development Institute, The University of Manchester

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

- 1:00 to 2:30 **Session Two—Effects of SSO Participation** (Wieboldt Hall #150)
 Session Chair: **Aija Leiponen**, Charles H. Dyson School of Applied Economics and Management, Cornell University
- Standards, SSO Membership, and SSO Policies***
Anjishnu Banerjee, Division of Biostatistics, Medical College of Wisconsin
Avik Chakrabarti, UW Milwaukee
 Discussant: **Mian Dai**, Department of Economics and International Business, Bennett S. LeBow College of Business, Drexel University
- Capital Market Effects of Information Disclosure and Coordination at Standard-Setting Organizations***
Thomas Keusch, Erasmus School of Economics, Erasmus University
Jessica Kim-Gina, The Wharton School of the University of Pennsylvania
 Discussant: **Steven Chong Xiao**, Naveen Jindal School of Management, University of Texas at Dallas
- SSO Membership, Startups, and VC*** (presented by **Supradeep Dutta**)
Markus Fitza, Mays Business School, Texas A&M University
 Discussant: **Supradeep Dutta**, SUNY Buffalo, School of Management
- 2:30 to 3:00 **Break** (Wieboldt Hall #147)
- 3:00 to 3:25 **Invited Talk - Information on SSO and Consortia** (Wieboldt Hall #150)
Andrew Updegrove, Gesmer Updegrove LLP
- 3:30 to 5:00 **Session Three—Standardization Processes** (Wieboldt Hall #150)
 Session Chair: **Chris Forman**, Scheller College of Business, Georgia Institute of Technology
- Public Law Norms and Private Standardization***
Emily S. Bremer, University of Wyoming College of Law
 Discussant: **Michael Barsa**, Northwestern Pritzker School of Law
- A Closer Look at TIA Standards in the Field of Mobile Telephony***
Kristen Osenga, University of Richmond School of Law
 Discussant: **Kirti Gupta**, Qualcomm Incorporated
- Conflict and Disagreement in Standard Setting***
Stephen Jones, University of Wyoming, College of Business
Aija Leiponen, Charles H. Dyson School of Applied Economics and Management, Cornell University
Gurneeta Vasudeva Singh, Carlson School of Management, University of Minnesota
 Discussant: **Ram Ranganathan**, The University of Texas at Austin, McCombs School of Business
- 5:00 **Cocktail Reception** (Wieboldt Hall #440)
- 6:00 **Dinner** (Wieboldt Hall #540)
- 7:00 **Dinner Talk on “What Can We Learn from Technology Standards?”**
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

Friday, May 6th

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

9:00 to 10:30 **Session Four—Standards, Patents, and Innovation** (Wieboldt Hall #150)
Session Chair: **Pere Arqué-Castells**, Searle Center on Law, Regulation, and Economic Growth,
Northwestern Pritzker School of Law

Do Standards Inform or Constrain Innovation? A Longitudinal Study of UK Service and Manufacturing Firms

Cher Li, Nottingham University Business School

Paul Windrum, Nottingham University Business School

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

Intellectual Property Rights, Uncertainty, and Standard-Setting at the 3GPP

Chris Forman, Scheller College of Business, Georgia Institute of Technology

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

Wen Wen, McCombs School of Business, The University of Texas at Austin

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

When a Stranger Calls: Standards Outsiders and Unencumbered Patents

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

Discussant: **Nikolaus Thumm**, European Commission, Joint Research Centre, Institute for Prospective Technological Studies

10:30 to 10:45 **Break** (Wieboldt Hall #147)

10:45 to 11:10 **Invited Talk – Standardization Processes** (Wieboldt Hall #150)
Kirti Gupta, Qualcomm Incorporated

11:10 to 12:40 **Session Five—SEPs** (Wieboldt Hall #150)
Session Chair: **Ilja Rudyk**, Senior Economist, Office of the Chief Economist, European Patent Office

The Effect of SEPs on Standards Adoption

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

Discussant: **Chris Forman**, Scheller College of Business, Georgia Institute of Technology

Standard Related Patent Transfers and Litigation

Maddalena Agnoli, MINES ParisTech (CERNA)

Laurie Ciaramella, MINES ParisTech (CERNA)

Margaret Kyle, MINES ParisTech (CERNA)

Yann Ménière, European Patent Office and Cerna - MINES ParisTech and

Tim Pohlmann, IPlytics and MINES ParisTech (CERNA)

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

Technology Protectionism and the Patent System: Strategic Technologies in China

Gaetan de Rassenfosse, Ecole Polytechnique Fédérale de Lausanne, Switzerland

Emilio Raiteri, Ecole Polytechnique Fédérale de Lausanne, Switzerland

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

12:40 to 1:30 **Lunch** (Wieboldt Hall #540)

1:30 to 3:00 **Break-out Sessions**

Breakout sessions are intended for the work teams that will be using the Searle Center databases. Other participants are welcome to join the sessions but their participation is optional.

SEP Data and Matching Patents to Standards (Wieboldt Hall #107)

Session Chair: **Tim Pohlmann**, IPlytics and CERNA ParisTech

3GPP Standardization Process Data (Wieboldt Hall #109)

Session Chair: **Kirti Gupta**, Qualcomm Incorporated

Data on Technology Standards and SSOs (Wieboldt Hall #150)

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

3:00 **Adjourn**

Confirmed Participants (as of 3/16/2017):

1. **Maddalena Agnoli**, CERNA, Ecole des Mines de Paris
2. **Gary Anderson**, Economic Analysis Office, Office of the Director, National Institute of Standards and Technology
3. **Pere Arqué-Castells**, Searle Center on Law, Regulation, and Economic Growth, Northwestern Pritzker School of Law
4. **Anjishnu Banerjee**, Division of Biostatistics, Medical College of Wisconsin
5. **Justus Baron**, Searle Center on Law, Regulation, and Economic Growth, Northwestern Pritzker School of Law
6. **Michael Barsa**, Northwestern Pritzker School of Law
7. **Emily S. Bremer**, University of Wyoming College of Law
8. **Dan Breznitz**, Munk School of Global Affairs, University of Toronto
9. **Jin Cao**, Norges Bank
10. **Julie Carlson**, Bureau of Economics, U.S. Federal Trade Commission
11. **Avik Chakrabarti**, University of Wisconsin, Milwaukee
12. **Luke Hung-Yu Chuang**, University of Washington (UW) School of Law
13. **Laurie Ciaramella**, CERNA, Ecole des Mines de Paris
14. **Jorge L. Contreras**, S.J. Quinney College of Law, University of Utah
15. **Dirk Czarnitzki**, KU Leuven, Dept. of Managerial Economics, Strategy and Innovation
16. **Mian Dai**, Bennett S. LeBow College of Business, Drexel University
17. **Supradeep Dutta**, SUNY Buffalo, School of Management
18. **Chris Forman**, Scheller College of Business, Georgia Institute of Technology
19. **Ping Gao**, Global Development Institute, The University of Manchester
20. **Kirti Gupta**, Qualcomm Incorporated
21. **Erik Hovenkamp**, Northwestern Pritzker School of Law
22. **Stephen Jones**, University of Wyoming, College of Business
23. **Amol M. Joshi**, Oregon State University, College of Business
24. **Thomas Keusch**, Erasmus School of Economics, Erasmus University
25. **Jessica Kim-Gina**, The Wharton School of the University of Pennsylvania
26. **Margaret Kyle**, Paris MINESTech
27. **Aija Leiponen**, Charles H. Dyson School of Applied Economics and Management, Cornell University
28. **Cher Li**, Nottingham University Business School
29. **Alan C. Marco**, Chief Economist, United States Patent and Trademark Office
30. **Keith E. Maskus**, Department of Economics, University of Colorado, Boulder
31. **Kristen Osenga**, University of Richmond School of Law
32. **Laura Pedraza-Fariña**, Northwestern Pritzker School of Law
33. **Chryssoula Pentheroudakis**, IP Research & Consulting
34. **Tim Pohlmann**, IPlytics and CERNA ParisTech
35. **Emilio Raiteri**, Ecole Polytechnique Fédérale de Lausanne
36. **Ram Ranganathan**, The University of Texas at Austin, McCombs School of Business
37. **Ilja Rudyk**, Senior Economist, Office of the Chief Economist, European Patent Office

38. **David L. Schwartz**, Northwestern Pritzker School of Law
39. **Ralph Siebert**, Purdue University, Department of Economics, Krannert School of Management
40. **Gurneeta Vasudeva Singh**, Carlson School of Management, University of Minnesota
41. **Matthew L. Spitzer**, Searle Center on Law, Regulation, and Economic Growth, Northwestern Pritzker School of Law
42. **Daniel F. Spulber**, Kellogg School of Management, Northwestern University
43. **Walter Steingress**, Banque de France
44. **Jeffrey Strauss**, Director of Industry Programs, The Roberta Buffett Institute for Global Studies, Northwestern University
45. **Nikolaus Thumm**, European Commission, Joint Research Centre, Institute for Prospective Technological Studies
46. **Tony W. Tong**, Leeds School of Business, University of Colorado
47. **Andrew A. Toole**, Office of Policy and International Affairs, U.S. Patent and Trademark Office
48. **Andrew Updegrove**, Gesmer Updegrove LLP
49. **Nicolas van Zeebroeck**, Solvay Brussels School of Economics and Management, Université Libre de Bruxelles
50. **Wen Wen**, McCombs School of Business, The University of Texas at Austin
51. **Paul Windrum**, Nottingham University Business School
52. **Steven Chong Xiao**, Naveen Jindal School of Management, University of Texas at Dallas
53. **Chenguo (Coco) Zhang**, Universität Bremen