

# Third Annual Empirical Conference on Standardization

Thursday, May 25, 2023 — Friday, May 26, 2023

Northwestern University—Wieboldt Hall

340 E. Superior Street, Chicago, IL 60611

*Organized by Justus Baron*

All paper sessions: 15-minute presentation/each followed by 5-minute discussant, and 10-minute open discussion at end of session.

## **Thursday, May 25<sup>th</sup>**

7:30 a.m. **Registration Check-In** (*1<sup>st</sup> floor Wieboldt Hall*)

7:30 to 8:20 **Continental Breakfast** (*Wieboldt Hall #147*)

8:20 to 8:30 **Welcome and Introduction** (*Wieboldt Hall #150*)

**Justus Baron**, Director, Research Project on Innovation and Standards, Northwestern Center on Law, Business, and Economics

8:30 to 10:00 **Session 1: SEPs - SDOs' IPR Policies**

*The History of the ETSI IPR Policy: Using the Historical Record to Inform Application of the ETSI FRAND Obligation*

**Dave Djavaheerian**, President, PacTech Law, P.C.

**Discussant: Magnus Buggenhagen**, Senior Manager Business Development & Strategy, IPlytics

*Standard-Setting and the Incentives to Innovate: Evidence from the IEEE Patent Policy Update*

**Michela Bonani**, Postdoctoral Researcher, Department of Economics, ESSEC Business School

**Discussant: Georgios Effraimidis**, Senior Consultant, NERA Economic Consulting

*Standard Essential Utility Models*

**Jorge Contreras**, James T. Jensen Endowed Professor for Transactional Law, University of Utah S.J. Quinney College of Law

**Discussant: Justus Baron**, Director, Research Project on Innovation and Standards, Northwestern Center on Law, Business, and Economics

10:00 to 10:15

**Break** (*Wieboldt Hall #147*)

10:15 to 11:15.

**Session 2: SEP Licensing**

*Participant Diversity in Patent Pool Formation*

**Karen Ruckman**, Associate Professor of Strategy and Innovation, Beedie School of Business, SFU

**Discussant: Yanis Gamarra**, PhD Candidate, Technical University of Munich, TUM School of Management, Chair of Management Accounting

*The Economic Impact of Patent Holdout*

**Bowman Heiden**, Executive Director, Tusher Initiative for the Management of Intellectual Capital, Haas School of Business at UC-Berkeley

**Justus Baron**, Director, Research Project on Innovation and Standards, Northwestern Center on Law, Business, and Economics

**Discussant: Tatiana Rosa**, Assistant Professor, Pontificia Universidad Católica de Chile

11:15 to 12:15 p.m.

**Session 3: Standards and IPR - Policy Evolutions in China**

*China's Practice of Anti-Suit Injunctions in SEP Litigation: Transplant or False Friend?*

**Mark A. Cohen**, Distinguished Senior Fellow and Director, Asia IP and Technology Law Project, Berkeley Center for Law and Technology

**Discussant: Jorge L. Contreras**, James T. Jensen Endowed Professor for Transactional Law, University of Utah S.J. Quinney College of Law

*Law, State, and Private Enforcement: The Rise of Copyright Protection on China's Internet*

**Shitong Qiao**, Professor of Law and the Ken Young-Gak Yun and Jinah Park Yun Research Scholar, Duke Law School

**Discussant: Peter C. DiCola**, Professor of Law, Northwestern Pritzker School of Law

12:15 to 1:15

**Lunch** (*Wieboldt Hall #540*)

1:15 to 2:45

#### **Session 4: Standardization and Innovation**

*Standard Setting Outcomes and Firms' Subsequent Strategic Choices: An Exploratory Study*

**Ramkumar Ranganathan**, Associate Professor, McCombs School of Business, The University of Texas at Austin

**Puneet Sachdeva**, PhD Candidate, McCombs School of Business, The University of Texas at Austin

**Discussant: John L. Turner**, Jasper N. Dorsey Chair of Public Utilities Economics, Terry College of Business, University of Georgia

*Standardized Tools and the Generalizability of Human Capital: The Impact of Standardized Technologies on Employee Mobility*

**Milan Miric**, Assistant Professor, Information Systems Group, Department of Data Sciences & Operations, University of Southern California, Marshall School of Business2

**Discussant: Vishal Baloria**, Associate Professor of Accounting, University of Connecticut, School of Business

*Cooperation and Competition: The Case of Innovation in the Telecommunications Sector*

**Tatiana Rosa**, Assistant Professor, Pontificia Universidad Católica de Chile

**Discussant: Jorge Lemus**, Associate Professor, Department of Economics, University of Illinois Urbana-Champaign

2:45 to 3:00

**Break**

3:00 to 5:00

#### **Session 5 - Panel Discussion on SEP Policy in Europe (Essentiality Checks)**

*Two Empirical Studies on SEP Licensing*

*(Studies produced for DG GROW in support of Impact Assessment)*

**Justus Baron**, Director, Research Project on Innovation and Standards, Northwestern Center on Law, Business, and Economics

**Panel Discussion:**

**Dave Djavaheerian**, President, PacTech Law, P.C.

**Fabian Gonell**, Sr. Vice President, Licensing Strategy & Legal Counsel, erQualcomm

**Earl Nied**, Founder, Veracity-IP-Consulting LLC

5:00 to 6:00                      **Networking Reception** (*Wieboldt Hall #440*)

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

**Friday, May 26<sup>th</sup>**

7:45 a.m.                        **Continental Breakfast** (*Wieboldt Hall #147*)

8:15 to 10:00                   **Session 6: Standardization and Regulation**

*The European Standardisation System at a Crossroads*

**Pierre Larouche**, Professor of Law and Innovation, Faculty of Law,  
Université de Montréal; CERRE Research Fellow

**Justus Baron**, Senior Research Associate, Innovation Policy Research  
Project, Northwestern Center on Law, Business, and Economics

*Characteristics of European Harmonised Standards and Obstacles to their  
Official Recognition*

**Santiago Bergallo**, Research Assistant, Universidad Torcuato Di Tella

**Discussant: Marie Gérardy**, Legal and Policy Officer/Standardisation Desk  
Officer, European Commission

*The Saga of Copyrighted Standards: a Perspective on Access to Regulation*

**Olia Kanevskaia**, Assistant Professor, Utrecht University School of Law and  
researcher, Utrecht Centre for Regulation and Enforcement in Europe

*Quantifying the Size, Scope, and Accessibility of Standards Incorporated by  
Reference in the Code of Federal Regulations*

**Patrick McLaughlin**, Senior Research Fellow, Director of Policy Analytics,  
Mercatus Center, George Mason University

**Discussant: Alex Lee**, Director, Northwestern Center on Law, Business,  
and Economics; Professor of Law, Northwestern Pritzker School of Law

10:00 to 10:15                   **Break** (*Wieboldt Hall #147*)

10:15 to 11:15

### **Session 7: Governance of Standardization**

*Taxonomy of SDO Resilience Strategies*

**Antonia Stanojević**, Researcher, Tilburg Law School

**Discussant: Olia Kanevskaja**, Assistant Professor, Utrecht University School of Law; Researcher, Utrecht Centre for Regulation and Enforcement in Europe

*Good Governance of SSOs: Zoom In On Participation*

**Marie Gérardy**, Legal and Policy Officer/Standardisation Desk Officer, European Commission

**Discussant: Stéphanie Bijlmakers**, Assistant Professor, Tilburg Law School

11:15 to 12:15 p.m.

### **Session 8: Societal Impacts of Standards**

*Measuring the Societal Impact of Standardization*

**Paul Wiegmann**, Assistant Professor, Eindhoven University of Technology

**Discussant: Olia Kanevskaja**, Assistant Professor, Utrecht University School of Law; Researcher, Utrecht Centre for Regulation and Enforcement in Europe

*Mobile Broadband Internet, Poverty and Labor Outcomes in Tanzania*

**Pau Castells**, Head of Economic Analysis, GSMA

**Discussant: Aaron Wolf**, PhD Candidate, Department of Economics, Northwestern University

12:15 to 1:15

**Lunch** (*Wieboldt Hall #540*)

1:15 to 2:15

### **Session 9: Standardization in Emerging Technologies**

*Quantum Computing and New Challenges For Encryption Policy*

**Alessia Zornetta**, S.J.D. Student, UCLA Law School & Institute for Technology, Law and Policy

**Discussant: Puneet Sachdeva**, PhD Candidate, McCombs School of Business, The University of Texas at Austin

*Artificial Intelligence Governance Control Points: Examining Technical Standards as to AI Biases Against an Engineering-Informed Ontological Testbed*

**Emile Loza de Siles**, Assistant Professor of Law, University of Hawai'i at Mānoa

**Discussant: Daniel W. Linna Jr.**, Senior Lecturer & Director of Law and Technology Initiatives, Northwestern Pritzker School of Law & McCormick School of Engineering

2:15 to 3:15

**Session 10: Standardization and Financial Markets**

*Institutional Mobility in Global Capital Markets*

**Roger Silvers**, Assistant Professor, David Eccles School of Business, The University of Utah

*Public Interest Considerations in Financial Data Governance: The Case of the Global Legal Entity Identification System*

**Konrad Borowicz**, Assistant Professor, Tilburg Institute for Law and Technology

**Discussant: Ethan Yao**, PhD Candidate in Accounting, Carlson School of Management, University of Minnesota

3:15 p.m.

**Adjourn**

**Confirmed Conference Attendees (as of 5/26/2023):**

1. **Themi Anagnos**, Head of IP for the Americas, Continental Automotive Systems
2. **Vishal Baloria**, Associate Professor of Accounting, University of Connecticut, School of Business
3. **Justus Baron**, Director, Research Project on Innovation and Standards, Northwestern Center on Law, Business, and Economics Northwestern Pritzker School of Law
4. **Santiago Bergallo**, Research Assistant, Universidad Torcuato Di Tella
5. **Stéphanie Bijlmakers**, Assistant Professor, Tilburg Law School
6. **Michela Bonani**, Postdoctoral Researcher, Department of Economics, ESSEC Business School
7. **Konrad Borowicz**, Assistant Professor of Financial Regulation, Tilburg Institute for Law and Technology
8. **Magnus Buggenhagen**, Senior Manager Business Development & Strategy, IPlytics
9. **Pau Castells**, Head of Economic Analysis, GSMA
10. **Ji Hae Choi**, Ph.D. Student, Northwestern University
11. **Mark A. Cohen**, Distinguished Senior Fellow and Director, Asia IP and Technology Law Project, Berkeley Center for Law and Technology
12. **Jorge L. Contreras**, James T. Jensen Endowed Professor for Transactional Law, University of Utah S.J. Quinney College of Law
13. **Peter C. DiCola**, Professor of Law, Northwestern Pritzker School of Law
14. **Dave Djavaherian**, President, PacTech Law, P.C.
15. **Georgios Effraimidis**, Senior Consultant, NERA Economic Consulting

16. **Yanis Gamarra**, PhD Candidate, Technical University of Munich, TUM School of Management, Chair of Management Accounting
17. **Robert Gee**, Senior Manager Portfolio Development, Continental Automotive Systems
18. **Marie Gérardy**, Legal and Policy Officer/Standardisation Desk Officer, European Commission
19. **Fabian Gonnell**, Sr. Vice President, Licensing Strategy & Legal Counsel, Qualcomm
20. **Bowman Heiden**, Executive Director, Tusher Initiative for the Management of Intellectual Capital at the Haas School of Business at UC-Berkeley
21. **Olia Kanevskaia**, Assistant Professor, Utrecht University School of Law and researcher, Utrecht Centre for Regulation and Enforcement in Europe
22. **Taegon Kong**, Senior IP Counsel, LG Electronics
23. **Pierre Larouche**, Professor of Law and Innovation, Faculty of Law, Université de Montréal; CERRE Research Fellow
24. **Alex Lee**, Director, Northwestern Center on Law, Business, and Economics; Professor of Law, Northwestern Pritzker School of Law
25. **Jorge Lemus**, Associate Professor, Department of Economics, University of Illinois Urbana-Champaign
26. **Daniel W. Linna Jr.**, Senior Lecturer & Director of Law and Technology Initiatives, Northwestern Pritzker School of Law & McCormick School of Engineering
27. **Emile Loza de Siles**, Assistant Professor of Law, The University of Hawai'i at Mānoa William S. Richardson School of Law
28. **Konstantinos Makrodimitris**, Senior Standards Advisor, U.S. Food & Drug Administration (FDA)
29. **Patrick McLaughlin**, Senior Research Fellow, Director of Policy Analytics, Mercatus Center, George Mason University
30. **Milan Miric**, Assistant Professor, Information Systems Group, Department of Data Sciences & Operations, University of Southern California, Marshall School of Business
31. **Earl Nied**, Founder, Veracity-IP-Consulting LLC
32. **Shitong Qiao**, Professor of Law and the Ken Young-Gak Yun and Jinah Park Yun Research Scholar, Duke Law School
33. **Ramkumar Ranganathan**, Associate Professor, McCombs School of Business, The University of Texas at Austin
34. **Tatiana Rosa**, Assistant Professor, Pontificia Universidad Católica de Chile
35. **Karen Ruckman**, Associate Professor of Strategy and Innovation, Beedie School of Business, SFU
36. **Puneet Sachdeva**, PhD Candidate, McCombs School of Business, The University of Texas at Austin
37. **Roger Silvers**, Assistant Professor, David Eccles School of Business, The University of Utah
38. **Antonia Stanojević**, Researcher, Tilburg Law School
39. **John L. Turner**, Jasper N. Dorsey Chair of Public Utilities Economics, Terry College of Business, University of Georgia
40. **Paul Wiegmann**, Assistant Professor, Eindhoven University of Technology
41. **Aaron Wolf**, PhD Candidate, Department of Economics, Northwestern University
42. **Ethan Yao**, PhD Candidate in Accounting, Carlson School of Management, University of Minnesota
43. **Alessia Zornetta**, S.J.D. Student, UCLA Law School & Institute for Technology, Law and Policy