



Center for  
Intellectual  
Property x  
Innovation  
Policy

**C-IP<sup>2</sup> PRESENTS AN  
ACADEMIC CONFERENCE ON**

# Intellectual Property and Innovation Policy **for 5G and the Internet of Things**



**DECEMBER 2-3, 2021**

Hosted both in person and virtually from  
**GEORGE MASON UNIVERSITY  
ANTONIN SCALIA LAW SCHOOL**

**PROGRAM**



**C-IP<sup>2</sup> PRESENTS AN  
ACADEMIC CONFERENCE ON**

# Intellectual Property and Innovation Policy **for 5G and the Internet of Things**

# WELCOME

**DECEMBER 2-3, 2021 | VIRTUAL PROGRAM**

## Welcome to C-IP<sup>2</sup>'s academic conference on Intellectual Property and Innovation Policy for 5G and the Internet of Things.

The global technology ecosystem stands at a historical point of transition between 3G- and 4G-enabled technologies, which launched transformative changes in audio and video communications, and 5G-enabled technologies, which will enable transformative changes in a broader array of environments, encompassing communication, transportation, health care, and industrial production. The vast increases in bandwidth and decreases in latency brought by 5G-enabled technologies will enable novel business models that exploit person-to-person, person-to-machine, and machine-to-machine pathways.

This conference is centered around the forthcoming book *5G and Beyond: Intellectual Property and*

*Competition Policy in the Internet of Things*, of which many of our speakers are co-authors. This project seeks to identify and analyze the key mechanisms through which intellectual property (IP) and competition law can supply a robust institutional infrastructure for the growth and development of this emergent Internet of Things (IOT) that will encompass substantial areas of business and consumer activities.

This conference and the corresponding book will be a comprehensive and “state-of-the-art” resource for scholars, policymakers, and practitioners on IP and competition law and policy in 5G/IOT environments around the world.

### QUICK NAVIGATION MENU (CLICK BELOW)

PROGRAM  
**12.2.21**

PROGRAM  
**12.3.21**

EVENT  
**SPONSORS**

SPEAKER  
**BIOS**

7:45 AM – 8:45 AM

## REGISTRATION

8:45 AM – 9:00 AM

## OPENING REMARKS

## SPEAKERS

**Jonathan Barnett**

*Torrey H. Webb Professor of Law, University of Southern California Gould School of Law; Senior Fellow for Innovation Policy & Senior Scholar, Center for Intellectual Property x Innovation Policy*

**Joshua A. Kresh**

*Managing Director, Center for Intellectual Property x Innovation Policy, George Mason University Antonin Scalia Law School*

**Sean M. O'Connor**

*Professor of Law, George Mason University Antonin Scalia Law School, Faculty Director, Center for Intellectual Property x Innovation Policy*

## PART 1: SEP Enforcement and Licensing Issues in IoT Markets

9:00 AM – 10:30 AM

## PANEL 1

## SEP ENFORCEMENT AND FRAND LICENSING

## COMMENTATOR

**Brian Hinman**

*Chief Commercial Officer, Aon Intellectual Property Solutions*

**Andrei Iancu**

*Partner, Irell & Manella LLP, Senior Adviser, Center for Strategic and International Studies, Former Undersecretary of Commerce for Intellectual Property and Director, USPTO*

**J. Gregory Sidak**

*Founder and Chairman, Criterion Economics, Inc.*

**Jeffrey M. Wilder**

*Economics Director of Enforcement, The United States Department of Justice*

10:30 AM – 10:50 AM

## MORNING BREAK

10:50 AM – 12:20 PM

## PANEL 2

## PATENT HOLDUP AND HOLDOUT – ROYALTY STACKING AND COMPARABLE LICENSES

## COMMENTATOR

**Dr. Kirti Gupta**

*Vice President, Economic Strategy and Chief Economist, Qualcomm*

**Alexander Galetovic**

*Research Fellow, Hoover Institution; Senior Fellow, Universidad Adolfo Ibáñez*

**Dr. Jorge Padilla**

*Senior Managing Director and Head, Compass Lexecon Europe*

12:20 PM – 1:40 PM

## LUNCH &amp; KEYNOTE

## SPEAKER

**The Hon. Prof. F. Scott Kieff**

*Fred C. Stevenson Research Professor, George Washington University Law School, Former Commissioner, U.S. International Trade Commission; Senior Scholar, Center for Intellectual Property x Innovation Policy*

1:45 PM – 3:15 PM

## PANEL 3

## EFFICIENT INFRINGEMENT

## COMMENTATOR

**Dr. Anne Layne-Farrar**

*Vice President, Charles River Associates, Vice Chair, International Comments & Policy Committee, American Bar Association, Adjunct Professor, Northwestern University Pritzker School of Law*

**Jonathan Barnett**

*Torrey H. Webb Professor of Law, University of Southern California Gould School of Law; Senior Fellow for Innovation Policy & Senior Scholar, Center for Intellectual Property x Innovation Policy*

**David J. Kappos**

*Partner, Cravath, Swaine & Moore LLP, New York, Former Director, U.S. Patent and Trademark Office*

**Kristen Jakobsen Osenga**

*Austin E. Owen Research Scholar & Professor of Law, University of Richmond School of Law; Senior Scholar, Center for Intellectual Property x Innovation Policy*

3:15 PM – 3:35 PM

## AFTERNOON BREAK

3:35 PM – 5:05 PM

## PANEL 4

## PRACTICAL TOPICS IN FRAND LICENSING (AUTOMOTIVE FOCUS)

## COMMENTATOR

**Luke McLeroy**

*Senior Vice President of Business Development, Avanci*

**Bowman (Bo) Heiden**

*Co-Director, Center for Intellectual Property (CIP), University of Gothenburg, Visiting Professor, University of California, Berkeley*

**Keith Mallinson**

*Founder, WiseHarbor*

**Dr. Igor Nikolic**

*Research Fellow, European University Institute, Florence*

5:05 PM – 5:10 PM

## CLOSING REMARKS

## Conference Adjourns

7:45 AM – 8:45 AM

## REGISTRATION

8:45 AM – 9:30 AM

## MORNING REMARKS

## SPEAKER

**Fabian Gonell***Senior Vice President, Licensing Strategy & Legal Counsel,  
Qualcomm***PART 2: Creating a Level International  
Marketplace for SEP Licensing**

9:30 AM – 11:00 AM

## PANEL 5

## 5G, SEPS, &amp; NATIONAL SECURITY ISSUES (CHINA FOCUS)

## COMMENTATOR

**Diane Rinaldo***Senior Vice President, Beacon Global Strategies LLC, Executive  
Director, Open RAN Policy Coalition*

## PANEL

**Mark A. Cohen***Distinguished Senior Fellow and Director, Asia IP and Technology  
Law Project, Berkeley Center for Law and Technology, University  
of California, Berkeley School of Law***Jon Putnam***Founder and Principal, Competition Dynamics*

11:00 AM – 11:20 AM

## MORNING BREAK

11:20 AM – 12:50 PM

## PANEL 6

GLOBAL DIFFERENCES IN ANTITRUST  
TREATMENT OF SEPS AND SSOS

## COMMENTATOR

**John Yun***Director of Economic Education, Global Antitrust Institute,  
Associate Professor of Law, George Mason University Antonin  
Scalia Law School*

## PANEL

**Maureen K. Ohlhausen***Partner, Co-Chair Antitrust & Competition Law Practice  
Group, Baker Botts, Former Acting Chairman, Federal Trade  
Commission***Dr. David J. Teece***Thomas W. Tusher Professor in Global Business; Faculty Director,  
Tusher Center for The Management of Intellectual Capital,  
University of California, Berkeley Haas School of Business*

12:50 PM – 1:00 PM

## AFTERNOON BREAK

1:00 PM – 1:45 PM

## CONCLUDING DIALOGUE

## FIRESIDE CHAT

## SPEAKERS

**The Hon. Kathleen M. O'Malley***Circuit Judge, U.S. Court of Appeals for the Federal Circuit***Sean M. O'Connor***Professor of Law, George Mason University Antonin Scalia  
Law School, Faculty Director, Center for Intellectual Property x  
Innovation Policy*

1:45 PM – 1:50 PM

## CLOSING REMARKS

## SPEAKER

**Sean M. O'Connor***Professor of Law, George Mason University Antonin Scalia  
Law School, Faculty Director, Center for Intellectual Property  
x Innovation Policy*

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**Jonathan Barnett**

*Torrey H. Webb Professor of Law, University of Southern California Gould School of Law; Senior Fellow for Innovation Policy & Senior Scholar, Center for Intellectual*

**Mark Cohen**

*Distinguished Senior Fellow and Director, Asia IP and Technology Law Project, Berkeley Center for Law and Technology, University of California, Berkeley School of Law*

Jonathan Barnett is a Professor of Law at the University of Southern California, Gould School of Law, where he is also Director of the Media, Entertainment and Technology Law Program. He specializes in intellectual property, antitrust and corporate law, with a focus on the transactional functions of intellectual property rights in information technology and content markets. Barnett has published in the *Harvard Law Review*, *Yale Law Journal*, *Journal of Institutional Economics*, *Harvard Journal of Law & Technology*, *Berkeley Technology Law Journal*, *Journal of Corporation Law*, *Journal of Legal Studies*, *Review of Law & Economics*, *Jurimetrics* and other scholarly journals. His scholarly articles can be downloaded [here](#) and [here](#).

Most recently, Professor Barnett's research has focused on the empirical and historical study of standard-setting, patent pools and licensing structures in information technology and other innovation markets. In 2018, Professor Barnett discussed the Supreme Court case, *Oil States Energy Services, LLC v. Greene's Energy Group, LLC*, in a piece that appeared in Regulation, published by the Cato Institute. In 2017, Professor Barnett was the co-lead author in an amicus brief signed by 44 law and economics scholars in the Supreme Court case, *Impression Products, Inc. v. Lexmark International, Inc.*

Professor Barnett joined USC Law in 2006 and was a visiting professor at New York University School of Law in fall 2010. Prior to academia, Barnett practiced corporate law as a senior associate at Cleary Gottlieb Steen & Hamilton LLP in New York, specializing in private equity and mergers and acquisitions transactions. He was also a visiting assistant professor at Fordham University School of Law in New York. A graduate of the University of Pennsylvania, he received a MPhil from Cambridge University and a JD from Yale Law School.

Mark joined the University of California Berkeley Law School in October 2017 as a Senior Fellow of the Berkeley Center for Law and Technology and as the first Director of its Asia IP Project, which has expanded the law school's reach on technology-related IP issues within Asia. He teaches Chinese IP Law, International Trade Law and other areas at Berkeley. Prior to this position he served as Senior Counsel to the USPTO leading its 21 member China team and assisted multiple government agencies on China IP-related matters.

In total, Mark has nearly 40 years of private, public sector, in-house, and academic experience in China and transition economies, with a focus on technology trade and monetizing intellectual property. Among his accomplishments within government, Mark was posted to Beijing as the first US IP Attaché in China from 2004-2008. His was the first IP Attaché posting principally focused on IP diplomacy in a foreign country. While overseas, he organized regular IPR Roundtables with the US Ambassador, an inter-agency IPR "Task Force" within the US mission to China, and an IP Toolkit for SME's. He served as the Embassy's spokesperson on IP issues, attracting audiences in excess of 150,000,000 people. He also launched a series of outreach efforts in the United States on IP-related issues that were primarily targeted at SME's, which were called "China IP Roadshows."

Mark has been involved in Chinese technology transfer matters as a government official, academic, corporate executive, attorney and expert witness. His first licensing expert witness assignment occurred in 1999 (Infineon vs. PowerMosFET), which involved the legality of a Chinese patent assignment to an American under Chinese technology licensing regulations. He was especially active in seeking reform of China's Administration of Technology Import/Export Regulations. He authored the sections on IP licensing for the book "Chinese Antimonopoly Law and Practice" and led a US government effort to strengthen US government support for legitimate technology licensing practices.

Apart from his diplomatic service, he also helped institute the US-China IP Dialogue under the Joint Commission on



Commerce and Trade, launched the US – China “Track II” IP Dialogue under the US Chamber of Commerce, as well as helped guide the US-India “Track 1.5” IP Dialogue with India. He has been recognized as a “Top 300” Global IP Strategist by Intellectual Asset Management magazine, an IP “Trailblazer” by the National Law Journal, as an “IP Champion” by the US Chamber of Commerce, and leading “IP Diplomat” by PhRMA. In 2018 he was the recipient of the Distinguished Civil Service award from the President for his service on Chinese IP licensing issues. This is the highest award offered a civil servant in the federal government. He also received a “Gold Medal” award from the Secretary of Commerce for his work on promoting rule of law through intellectual property.

Mark has authored numerous publications, including serving as the editor and author of the blog [www.chinaipr.com](http://www.chinaipr.com). He also holds visiting faculty appointments at Renmin University in Beijing and Jinan University in Guangzhou. His current areas of research include cross-border legal ethics (US/China), and the role of anti-suit injunctions in settling global FRAND disputes. He holds a J.D. degree from Columbia University, an M.A. from the University of Wisconsin, and a B.A. from the State University of New York. He is admitted to the District of Columbia Bar. His Chinese language reading and speaking were rated by the State Department in 2004 as fluent to near-fluent (4/4+).



#### Alexander Galetovic

*Research Fellow*, Hoover Institution;  
*Senior Fellow*, Universidad Adolfo Ibáñez

Alexander Galetovic is a Senior Fellow at Universidad Adolfo Ibáñez, Santiago, Chile a Research Fellow at the Hoover Institution at Stanford, a Research Associate at CRIEP, at the Universities of Padua, Verona and Venice, and Visiting Faculty at Singapore Management University.

Galetovic's book, *The Economics of Public-Private Partnerships: A Basic Guide* (Cambridge University Press, 2014), which he coauthored with Eduardo Engel and Ronald Fischer, is the standard reference in the field for academics and policy makers. With Engel and Fischer, Galetovic invented the least-present-of-revenue auction, which is routinely used in many countries to procure infrastructure through PPP concessions. Together with Juan Ricardo Inostroza, Galetovic invented an auction mechanism to allocate and price new power transmission lines, which was implemented in Chile in 2004, and created a thriving

competitive transmission market. His current research focuses in three fields: the institutional design for the efficient provision of infrastructure; the design of efficient capacity and reserve markets in electricity; and the role of patents and Ricardian rents in fostering innovation.

Galetovic has previously been a Research Scholar at the International Monetary Fund, a Tinker Visiting Professor at Stanford, and a Rita-Ricardo National Fellow at the Hoover Institution. He has also been advised the Chilean government and multilateral organizations such as the World Bank, the Inter-American Development Bank, and the OECD on PPPs and infrastructure. Galetovic holds a Bachelor's degree from the Catholic University of Chile and a Ph.D. in Economics from Princeton University.

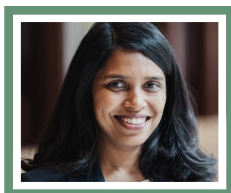


#### Fabian Gonell

*Senior Vice President, Licensing Strategy & Legal Counsel*,  
Qualcomm

Fabian Gonell is Senior Vice President, Licensing Strategy and Legal Counsel of Qualcomm's Technology Licensing division, where his responsibilities include developing the Company's licensing strategy, negotiating license agreements, and overseeing the company's compliance with the rules of standards organizations. He has played a major role in structuring and negotiating license agreements with many of Qualcomm's licensees, including Apple, Samsung, LGE, Ericsson, and Nokia/Microsoft, as well as in Qualcomm's response to regulatory investigations of Qualcomm's licensing practices.

Prior to joining Qualcomm, Mr. Gonell was a litigator at Cravath, Swaine & Moore LLP in New York, where he represented Qualcomm and other clients in patent and antitrust litigation. He also served as an adjunct professor at the Fordham University School of Law, where he taught courses in interviewing, counseling and negotiation. Mr. Gonell holds a BA in Economics from the City University of New York and a JD from the Fordham University School of Law, where he was Editor-in-Chief of the Fordham Law Review.

**Dr. Kirti Gupta**

*Vice President, Economic Strategy,  
Chief Economist, Qualcomm*

Dr. Kirti Gupta is the Vice President and Chief Economist at Qualcomm with ~20 years of experience in the mobile industry in diverse roles spanning engineering, product, litigation, and policy. She and her team provide economic analysis and thought leadership on global Technology, IP, Antitrust economic policy issues, collaborating with various business units internally, and a global network of experts, influencers, and policy makers externally. She is also a Senior Advisor at the Washington D.C. based think-tank, Center for Strategic and International Studies, and the co-founder and executive director of IP Leadership, an industry coalition providing a data-driven dialogue and analysis on IP and Innovation policy. Prior to her role as an economist, Kirti spent over a decade as a wireless systems-engineering expert, working on R&D for the third and fourth generation wireless cellular standards that connect most of the mobile devices in the world today.

Dr. Gupta holds a M.S. in Electrical Engineering from Purdue University, and a Ph.D. in Economics from the University of California, San Diego. She has published widely in policy, law, and economic journals, and holds over 50 patents in the field of wireless communications.

**Bowman Heiden**

*Co-Director, Center for Intellectual  
Property (CIP), University of  
Gothenburg, Visiting Professor,  
University of California, Berkeley*

Dr. Heiden is currently the Co-Director of the Center for Intellectual Property (CIP), which is a joint center for knowledge-based business development between the University of Gothenburg, Chalmers University of Technology, and the Norwegian University for Science and Technology. He is also a Visiting Professor at UC-Berkeley and co-chair of the Technology, Innovation, and Intellectual Property program at the Classical Liberal Institute at the NYU School of Law. Dr. Heiden is currently a member of the European Commission High-Level Expert Group on Standard Essential Patents.

Previously he was Innovation Director for the Qatar Science

& Technology Park, where he was responsible for driving innovation strategy and intellectual property policy. Over the past ten years, Dr. Heiden has managed over 100 innovation projects with industry, university research institutes, healthcare providers, and start-up ventures.

As Co-Director of CIP, Dr. Heiden currently manages the internationalization of the CIP platform and strategic collaborations with industry and university partners. In this role, Dr. Heiden has co-founded and developed the Intellectual Capital Management (ICM) and Business Creation and Entrepreneurship in Biomedicine (BCEB) master's level programs, CIP FORUM, the Business of Intellectual Property executive program, and the CIP Internship Program.

Dr. Heiden holds degrees in engineering, technology management, and economics, and his research is at the interdisciplinary interface of economics, law, and innovation, in particular, intellectual property and open innovation in knowledge-intensive sectors. Before turning his focus to the field of knowledge-based business, Dr. Heiden played professional basketball in a number of European countries.

**Brian Hinman**

*Chief Commercial Officer,  
Aon Intellectual Property Solutions*

Brian is the Chief Commercial Officer for Aon IP Solutions. In this capacity, he is part of the executive leadership team, which delivers IP solutions that enhance our client's enterprise value through executing IP-based value creation strategies and mitigating IP risk exposure. Brian helps lead the efforts for Aon in seizing the generational opportunity to establish market-accepted standards for assessing and valuing the IP asset class for businesses and investors.

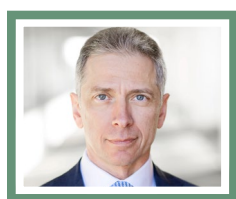
Brian Hinman has over 30 years experience in the field of intellectual property, having held senior executive positions at some of the world's leading companies. Most recently, he served as Chief Intellectual Property Officer at Philips, based in the Netherlands. In this capacity, he also held the position of CEO of Philips Intellectual Property and Standards where he led a worldwide team of over 400 intellectual property professionals in 9 different countries. He formulated and executed a robust IP strategy for each of Philips' business units including IP portfolio management, all IP litigation matters (offensive and defensive), active participation in various industry standards,



and conducting all forms of IP monetization including patent, technology and brand licensing and formation of various IP Ventures.

Previous to Philips, he was co-founder and Chief Operating Officer of Unified Patents Inc., and prior to that, he held positions of Vice President of IP and Licensing at IBM, Verizon and InterDigital, and was founding CEO of Allied Security Trust.

Brian holds degrees from RPI and the University of Pittsburgh.



#### **Andrei Iancu**

*Partner, Irell & Manella LLP, Senior Adviser, Center for Strategic and International Studies, Former Undersecretary of Commerce for Intellectual Property and Director, USPTO*

Andrei Iancu is an intellectual property partner at Irell & Manella LLP. Prior to rejoining the firm in 2021, he served as the Undersecretary of Commerce for Intellectual Property and Director of the U.S. Patent and Trademark Office. As head of the USPTO, Iancu oversaw one of the world's largest IP offices with approximately 13,000 employees and a \$3.5 billion annual budget. He previously spent two decades at Irell, serving as managing partner from 2012 to 2018. Earlier this year, Iancu co-founded the Renewing American Innovation Project at the bipartisan Center for Strategic and International Studies. He earned his J.D. from UCLA School of Law and an M.S. and B.S. from UCLA. Before his legal career, Iancu was an engineer at Hughes Aircraft Company.



#### **David J. Kappos**

*Partner, Cravath, Swaine & Moore LLP, New York, Former Director, U.S. Patent and Trademark Office*

David J. Kappos is a partner at Cravath. He is a leader in the field of intellectual property, including IP management and strategy, the development of global IP norms, laws and practices as well as commercialization and enforcement of innovation-based assets. From 2009 to 2013, Mr. Kappos served as Under Secretary of Commerce and Director of the U.S. Patent and Trademark Office (USPTO). In that role, he advised the President, the Secretary

of Commerce and the Administration on IP policy matters. Mr. Kappos led the Agency in dramatically reengineering its entire management and operational systems and its engagement with the global innovation community. He was instrumental in achieving the greatest legislative reform of the U.S. patent system in generations through passage and implementation of the Leahy-Smith America Invents Act, signed into law by President Obama in September 2011.

Prior to leading the USPTO, Mr. Kappos held several executive posts in the legal department of IBM, the world's largest patent holder. From 2003 to 2009, he served as the company's chief intellectual property lawyer. In that capacity, he managed global intellectual property activities for IBM, including all aspects of patent, trademark, copyright and trade secret protection and exploitation. During his more than 25 years at IBM, he also served in a variety of other roles including litigation counsel and Asia Pacific IP counsel, where he led all aspects of IP protection, including licensing, transactions support and M&A activity for the Asia/Pacific region.



#### **The Hon. Prof. F. Scott Kieff**

*Fred C. Stevenson Research Professor, George Washington University Law School, Former Commissioner, U.S. International Trade Commission; Senior Scholar, Center for Intellectual Property x Innovation Policy*

The Honorable F. Scott Kieff is the Fred C. Stevenson Research Professor at GW Law School. Formerly a Commissioner of the US International Trade Commission, he was nominated by President Obama and confirmed unanimously by the Senate. He also has served as a senior government advisor during the Bush, Obama, and Trump Presidential Administrations on national security and economics.

Through Kieff Strategies LLC he brings together fellow academics and former government officials to help firms in technology, finance, business, and law by conducting investigations and crisis management and providing strategic consulting, expert advice and testimony, as well as neutral services including mediation, arbitration, and compliance monitoring. A former law clerk to U.S. Circuit Judge Giles S. Rich, and graduate of MIT and Penn Law School, he was elected to the European Academy of Sciences and Arts in 2012.

**Joshua A. Kresh**

*Managing Director, Center for Intellectual Property x Innovation Policy, George Mason University Antonin Scalia Law School*

Joshua Kresh is the Managing Director of the Center for Intellectual Property x Innovation Policy (C-IP2) at George Mason University, Antonin Scalia Law School. He was previously an Associate with DLA Piper in Washington, D.C., where he practiced patent litigation. Joshua received his law degree with honors from The George Washington University Law School, and he holds master's and bachelor's degrees in computer science from Brandeis University. Joshua is the Chair of AIPLA's New Lawyers Committee and Co-Mentoring Chair of the Giles Rich American Inn of Court, and he is a registered patent attorney with the U.S. Patent and Trademark Office. He previously served on the Intellectual Property Committee for the U.S. Court of Federal Claims Advisory Council.

defining markets; and determining costs and benefits for legislative proposals covering healthcare, credit and debit cards, labor unions, television ratings, software security, and e-commerce.

Dr. Layne-Farrar has given oral and written expert testimony in a variety of US courts and has provided other submissions, including ones before the US Supreme Court and before regulatory bodies including the US Federal Trade Commission, the US Department of Justice, the US Senate, the European Commission, and MOFCOM.

Additionally, she has presented at academic and industry conferences around the world and is widely published. She coauthored a book on law and economics, has published articles in magazines including *Antitrust*, *Global Competition Review*, and *Regulation* and in academic journals, including *Antitrust Law Journal*, *International Journal of Industrial Organization*, and *Journal of Competition Law and Economics*.

**Dr. Anne Layne-Farrar**

*Vice President, Charles River Associates, Vice Chair, International Comments & Policy Committee, American Bar Association, Adjunct Professor, Northwestern University*

Dr. Anne Layne-Farrar is a Vice President in the Antitrust & Competition Economics Practice of CRA and an Adjunct Professor at Northwestern University School of Law. She specializes in antitrust and intellectual property matters, especially where the two issues are combined.

She advises clients on competition, intellectual property, regulation, and policy issues across a broad range of industries and has worked with some of the largest information technology, communications, and pharmaceutical companies in the world. Dr. Layne-Farrar has advised clients in a variety of jurisdictions, including the US, Europe, and Asia (South Korea and China).

Dr. Layne-Farrar's expert work for industry leading clients has included analyzing reasonable licensing, including RAND and FRAND; calculating damages; assessing economic incentives and firm behavior within standard setting organizations; reviewing the competitive implications of licensing pharmaceuticals;

**Keith Mallinson**

*Founder, WiseHarbor*

Keith Mallinson is founder of WiseHarbor, providing commercial consultancy to technology businesses serving consumer and professional markets since 2007. He is an industry analyst with 25 years of experience and extensive knowledge of technology industries and their markets, including the patent-rich mobile communications sector with 4G, 5G and the Internet of Things (IoT). He is often engaged as a testifying witness in patent licensing disputes and in other litigation including antitrust cases as an industry expert and financial analyst valuing assets and assessing damages. He is a regular opinion writer with RCR Wireless and IP Finance – "where money issues meet intellectual property rights."

Keith has an undergraduate electrical engineering degree from Imperial College London and an MBA from the London Business School, including an academic exchange with Northwestern University's Kellogg Graduate School of Management in Illinois.

**Luke McLeroy**

*Senior Vice President of Business Development, Avanci*

Luke McLeroy is Senior Vice President of Business Development at Avanci, a platform bringing together standard-essential wireless patents from many different patent owners and making them available in a single license to companies making products for the Internet of Things. Luke has more than eighteen years of experience as an intellectual property attorney negotiating technology licensing agreements and resolving intellectual property disputes.

Before joining Avanci, Luke was the director of North American patent licensing at Ericsson and a principal at the law firm McKool Smith in Dallas, Texas.

**Dr. Igor Nikolic**

*Research Fellow, European University Institute, Florence*

Dr. Igor Nikolic is a Research Fellow at EUI. He specialises and writes in the areas of intellectual property rights, competition law, standard essential patents (SEPs), innovation and technical standardisation, competition and digital economy. Igor completed his PhD at University College London on the licensing of Standard Essential Patents in the era of 5G and the Internet of Things, where he is also associated as a Senior Fellow at UCL's Centre for Law, Economics & Society. A book on SEP licensing will be published by Hart Publishing in 2021. Igor has given presentations at various international conferences (Oxford, Stanford, Tokyo) and published in academic journals. He also taught competition law at UCL, King's College and University of Turin, worked on the report by BRICS Competition Law and Policy Centre on 'Digital Era Competition: a BRICS View' and often works as an external consultant on competition law and policy for the World Bank. Igor is also a qualified attorney at law advising on competition, intellectual property and regulatory issues.

**Sean M. O'Connor**

*Professor of Law, George Mason University Antonin Scalia Law School, Faculty Director, Center for Intellectual Property x Innovation*

Sean O'Connor, noted innovation law scholar, is a Professor of Law and Faculty Director of the Center for Intellectual Property x Innovation Policy (C-IP<sup>2</sup>) at George Mason University, Antonin Scalia Law School. He was previously Boeing International Professor of Law at the University of Washington School of Law in Seattle. His research focuses on intellectual property and business law with regard to start-ups and commercializing technology and arts innovation. His teaching and law practice specialize in transactions and the strategic role of the general counsel. Professor O'Connor received his law degree from Stanford Law School, a master's degree in philosophy from Arizona State University, and a bachelor's degree in history from University of Massachusetts. He is currently completing a book, *The Means of Innovation: Creation, Control, Method+ology*, and serving as Editor for a new *Handbook of Music Law & Policy*, both to be published by Oxford University Press. His scholarly articles can be downloaded [here](#).

**Maureen K. Ohlhausen**

*Partner, Co-Chair Antitrust & Competition Law Practice Group, Baker Botts, Former Acting Chairman, Federal Trade Commission*

Maureen K. Ohlhausen chairs the antitrust group at Baker Botts LLP, where she focuses on competition, privacy and regulatory issues and frequently represents clients in the tech, life sciences, energy, and retail industries. She served as Acting Chairman at the Federal Trade Commission from January 2017 to May 2018 and as a Commissioner starting in 2012. She directed all FTC competition and consumer protection work, with a particular emphasis on privacy and technology issues. Ms. Ohlhausen has published dozens of articles on antitrust, privacy, regulation, FTC litigation, and telecommunications law issues and has testified over a dozen times before Congress.

She has received numerous awards, including the FTC's Robert Pitofsky Lifetime Achievement Award. Prior to serving as a Commissioner, Ms. Ohlhausen led the FTC's Internet Access Task Force and headed the FTC practice group at a leading communications law firm. Ms. Ohlhausen clerked at the U.S. Court of Appeals for the D.C. Circuit and received her J.D. with distinction from the George Mason University School of Law and her B.A. with honors from the University of Virginia.



**The Hon. Kathleen M. O'Malley**  
*Circuit Judge, U.S. Court of Appeals  
for the Federal Circuit*

Kathleen M. O'Malley was appointed to the U.S. Court of Appeals for the Federal Circuit by President Obama in 2010. Prior to her elevation to the Federal Circuit, Judge O'Malley was appointed to the U. S. District Court for the Northern District of Ohio by President Clinton in 1994. Prior to her appointment to the bench, Judge O'Malley served as First Assistant Attorney General, Chief of Staff, and Chief Counsel to the Attorney General for the State of Ohio, Lee Fisher. Judge O'Malley was also in private practice with Jones Day and Porter, Wright, Morris & Arthur, practicing complex litigation. Judge O'Malley began her legal career as a law clerk to the Hon. Nathaniel R. Jones, U.S. Court of Appeals for the Sixth Circuit.

She received her J.D. from Case Western Reserve University School of Law in 1982, summa cum laude and Order of the Coif, her A.B. from Kenyon College in 1979, *magna cum laude* and Phi Beta Kappa, and also received an honorary LL.D. from Kenyon in 1995. Among other awards for her service on the bench, Judge O'Malley has been awarded the Sedona Conference Lifetime Achievement Award, the New Jersey Intellectual Property Law Association Jefferson Medal, the New York Intellectual Property Law Association Outstanding Public Service Award, and the Intellectual Property Owners Association's 2020 Distinguished IP Professional Award, and was named to the Globe Business Media Group's IP Hall of Fame. Judge O'Malley is a member of four American Inns of Court chapters, including the Kathleen M. O'Malley Inn of Court in Cleveland, Ohio, named in her honor.



**Kristen Jakobsen Osenga**  
*Austin E. Owen Research Scholar  
& Professor of Law, University of  
Richmond School of Law; Senior  
Scholar, Center for Intellectual  
Property x Innovation Policy*

Professor Kristen Jakobsen Osenga teaches and writes in the areas of intellectual property, patent law, law and language, and legislation and regulation. Some of her recent scholarship focuses on patent eligible subject matter, patent licensing firms, standard setting organizations, patent law reform, and claim construction. She has written numerous law review articles on these and other topics, as well as book chapters and op eds on various aspects of patent law. Additionally, she has spoken on patent-related issues at many academic conferences and bar events. Professor Osenga is an active member of the Federal Circuit Bar Association and the American Intellectual Property Law Association.

Professor Osenga received a B.S. degree in Biomedical Engineering from the University of Iowa, an M.S. degree in Electrical Engineering from Southern Illinois University - Carbondale, and a J.D. from the University of Illinois College of Law, where she graduated magna cum laude. After law school, she practiced at the law firm of Finnegan, Henderson, Farabow, Garrett, & Dunner LLP, where she did patent prosecution and litigation. She then clerked for the Judge Richard Linn of the U.S. Court of Appeals for the Federal Circuit. After clerking, she entered academia, teaching first at Chicago-Kent College of Law and then at the University of Richmond, where she has been since 2006. She has also been a Visiting Professor at Emory University School of Law and at William & Mary School of Law.



**Dr. Jorge Padilla**  
*Senior Managing Director and Head,  
Compass Lexecon Europe*

Dr. Padilla earned M. Phil and D. Phil degrees in Economics from the University of Oxford. He is Research Fellow at the Centro de Estudios Monetarios y Financieros (CEMFI, Madrid) and teaches competition economics at the Barcelona Graduate School of Economics (BGSE) and at the Toulouse School of Economics (TSE).



He has given expert testimony before the competition authorities and courts of several EU member states, as well as in cases before the European Commission. Dr. Padilla has submitted written testimony to the European General Court, and the UK Competition Appeals Tribunal in cartel, merger control and abuse of dominance cases. He has also given expert testimony in various civil litigation (damages), international arbitration cases, and competition cases in non-EU jurisdictions (Argentina, Australia, Brazil, Canada, Chile, China, Colombia, India, Israel, Jamaica, Singapore, South Africa, Turkey and the United States).

Dr. Padilla has written numerous papers on competition policy and industrial organization in the Antitrust Bulletin, the Antitrust Law Journal, the Economic Journal, the European Competition Journal, the European Competition Law Review, the Fordham International Law Journal, Industrial and Corporate Change, the International Journal of Industrial Organization, the Journal of Competition Law and Economics, the Journal of Economics and Management Strategy, the Journal of Economic Theory, the RAND Journal of Economics, the Review of Financial Studies, the University of Chicago Law Review, and World Competition.

He is also co-author of *The Law and Economics of Article 102 TFEU*, 3rd edition, Hart Publishing, 2020.



**Jon Putnam**  
Founder and Principal,  
Competition Dynamics

Jon Putnam founded Competition Dynamics as a platform for economic research and testimony at the intersection of intellectual property, competition, and international trade law.

Jon Putnam holds BA, MA and PhD degrees in economics from Yale University, where he specialized in international, macro and R&D economics. He received fellowships at Yale and Columbia Law Schools, and a Yale International and Area Studies fellowship for the study of European patent systems. Dr. Putnam's PhD thesis, *The Value of International Patent Rights*, was the first to measure the global value of patent rights.

From 2001 to 2005, Dr. Putnam held a professorship in the Law and Economics of Intellectual Property at the Centre for Innovation Law and Policy, University of Toronto. Dr. Putnam

has also held academic appointments at the Boston University Graduate School of Management, Columbia University Schools of Law and Business, Vassar College, and Yale College.

Among other publications, Dr. Putnam is the author of *"Patent Valuation,"* in The New Palgrave Dictionary of Economics (2008); *"The Law and Economics of International Intellectual Property: A Primer,"* in Frontiers of Economics and Globalization, vol. 2: Intellectual Property, Growth and Trade (2008); and is the editor of and a principal contributor to *Intellectual Property Rights and Innovation in the Knowledge-Based Economy* (2006).

Dr. Putnam has been retained in more than 100 consulting engagements and has testified more than 40 times in patent, antitrust, copyright, trade secret, contract and tax actions in federal, state and bankruptcy courts; before the US Federal Trade Commission, International Trade Commission, and Tax Court; in US and international arbitrations; and in regulatory proceedings in Canada and India.

Dr. Putnam regularly testifies in large-scale intellectual property litigation. Cases with more than \$1 billion in controversy include: *Medtronic v Internal Revenue Service*, *Apple v Qualcomm*, *Idenix v Gilead Sciences*, *Ericsson v Huawei*, *Ericsson v Apple*, *Ericsson v Samsung*, and *InterDigital v Samsung*.



**Diane Rinaldo**  
Senior Vice President, Beacon Global  
Strategies LLC, Executive Director,  
Open RAN Policy Coalition

Diane Rinaldo is one of the country's leading authorities on 5G, telecommunications supply chain security, privacy, and Internet governance. She served as Acting Administrator of the National Telecommunications and Information Administration and Acting Assistant Secretary of Commerce for Communications and Information. During her time at NTIA, Ms. Rinaldo directed the Administration's efforts on privacy; testified in the House of Representatives and Senate on 5G and Internet security issues; served as a principal advising the White House and Congress on 5G and supply chain; as well as other successes in education and deployment of Internet access around the world.

Prior to her Executive Branch service, Ms. Rinaldo served on the House Permanent Select Committee on Intelligence, where she focused on Congress' landmark cybersecurity legislation, the Cybersecurity Act of 2015. She also served as Congress'



oversight and budget monitor for the National Security Agency and the defense network systems, and as Deputy Chief of Staff to Congressman Mike Rogers as his top technology policy staffer.

Ms. Rinaldo also spent time in the private sector as the Director of Government Affairs and cyber policy for SAP, and as a Vice President at a top consulting firm in Washington, DC.

Recognized for her work on cybersecurity, Ms. Rinaldo was awarded the Executive Women's Forum's 2016 Influencer of the Year award; was named one of the top ten people in Washington, D.C. impacting cyber legislation; and has consulted on movies and television. She earned a bachelor's degree in Political Science from the University of Maine and an Executive Certificate from Harvard University for Cyber Studies. Diane currently serves as Senior Vice President at Beacon Global Strategies.



#### Dr. David J. Teece

*Thomas W. Tusher Professor in Global Business; Faculty Director, Tusher Center for The Management of Intellectual Capital, University of California, Berkeley Haas School of Business*

David J. Teece is the Thomas W. Tusher Professor in Global Business and faculty director of the Tusher Center for the Management of Intellectual Capital at the University of California, Berkeley's Haas School of Business. He has authored over thirty books and two hundred scholarly papers, and has been cited almost 170,000 times, per Google Scholar. Dr. Teece has been ranked as the world's most-cited scholar in the combined field of business and management in an analysis of science-wide author citations published in PLOS Biology, a peer-reviewed journal. He is co-editor of the Palgrave Encyclopedia of Strategic Management. Dr. Teece has received eight honorary doctorates and has been recognized by Royal Honors.

Dr. Teece pioneered the dynamic capabilities perspective, defined as "the ability to integrate, build, and reconfigure internal and external competencies to address rapidly changing environments." According to Science Watch (November/December 2005), his paper (with Gary Pisano and Amy Shuen) "Dynamic Capabilities and Strategic Management" was the most cited paper in economics and business globally for the observed period 1995 to 2005.

Dr. Teece co-founded Berkeley Research Group, an expert services and consulting firm of economists and other professionals with expertise in domains ranging from higher education to corporate finance. Founded in 2010, BRG has more than forty offices and over 1,200 employees. Dr. Teece also founded the Law and Economics Consulting Group (LECG), where he acted as chairman and then vice-chairman.

Dr. Teece has a PhD in economics from the University of Pennsylvania and has held teaching and research positions at Stanford University and Oxford University. He has received honorary doctorates from the University of Canterbury, New Zealand; St. Petersburg State University, Russia (where he was instrumental in cofounding the Graduate School of Management); Copenhagen Business School, Denmark; Lappeenranta University of Technology, Finland; University of Calgary Haskayne School of Business, Canada; Kaunas University of Technology, Lithuania; EBS University of Business and Law, Germany; Edinburgh Business School, United Kingdom; and Keio University, Japan.



#### J. Gregory Sidak

*Founder and Chairman, Criterion Economics, Inc.*

J. Gregory Sidak is the chairman of Criterion Economics, which he founded in 1999. He has testified as an expert economic witness in complex business disputes throughout the world, and he twice served as Judge Richard Posner's court-appointed neutral economic expert. Sidak co-founded the Journal of Competition Law & Economics, published quarterly by the Oxford University Press since 2005, and is also the publisher and editor of the *Criterion Journal* on Innovation, which he founded in 2016. He has held the Ronald Coase Professorship of Law and Economics at Tilburg University in The Netherlands and the F.K. Weyerhaeuser Chair in Law and Economics at the American Enterprise Institute for Public Policy Research. He has been a senior lecturer at the Yale School of Management and a visiting professor at Georgetown University Law Center. Sidak was Judge Posner's first law clerk, served on the senior staff of the Council of Economic Advisers in the Executive Office of the President, and was deputy general counsel of the Federal Communications Commission. He has published six books and approximately 200 scholarly articles, primarily on antitrust, telecommunications regulation, and intellectual property. The Supreme Court of the United States, the U.S. Courts of Appeals for the D.C. Circuit, and many other courts and regulatory bodies have cited his writings approvingly. He received A.B. and A.M. degrees in economics and a J.D. from Stanford University.

Other honors Dr. Teece has received include: Clarivate Citation Laureate (2021); Thinkers50 Hall of Fame (2020); Citation of Excellence, Emerald Publishing (2017); Named among Who's Who Legal's five "Most Highly Regarded Experts" in North America (2016); Distinguished Fellow, New Zealand Association of Economist (2016); Eminent Scholar Award, Academy of International Business (2013); New Year Royal Honours, Companion of the New Zealand Order of Merit (2013); Herbert Simon Award (2011); Winner of the Best Paper Prize Award of the Strategic Management Journal: "Dynamic Capabilities and Strategic Management" (2003); Viipuri International Prize in Strategic (Technology) Management and Business Economics (2003); On Accenture's list of the world's "Top 50 Business Intellectuals" (2002)

Dr. Teece has over thirty years of experience as an active consultant performing economic, business, and financial research services to businesses and governments around the world. He has worked on matters in industries ranging from music recording to semiconductors, automobiles, software, and petroleum, and has testified in both federal and state court, before Congress, and before the Federal Trade Commission, as well as in several international jurisdictions.

Dr. Teece is the co-editor of *Industrial & Corporate Change* (Oxford University Press). In addition, Dr. Teece is among the "A-List of Management Academics 2011," an honorary group of thirty accomplished and distinguished US business professors.

His other significant entrepreneurial ventures include Mt. Beautiful Vineyards and Farms in the Cheviot Hills of North Canterbury, on New Zealand's South Island; Vomo Island Resort in the Fiji Islands; and numerous student housing projects in the Berkeley, California, community.



**Jeffrey M. Wilder**

*Economics Director of Enforcement,*  
The United States Department of  
Justice

Jeffrey Wilder is the Director of Economics at the Antitrust Division. Previously, as Assistant Chief in the Division's Economic Analysis Group, Dr. Wilder supervised the economic analysis in the agency's merger and civil nonmerger investigations in financial and technology markets, including payment systems, search advertising, and computer software. Dr. Wilder received his Ph.D. in economics from the Massachusetts Institute of Technology.



**John Yun**

*Director of Economic Education,*  
Global Antitrust Institute, *Associate*  
*Professor of Law,* George Mason  
University Antonin Scalia Law  
School.

John M. Yun is an Associate Professor of Law at the Antonin Scalia Law School, George Mason University, and the Director of Economic Education at the Global Antitrust Institute (GAI). Prior to joining Scalia Law, he was an Acting Deputy Assistant Director in the Bureau of Economics, Antitrust Division, at the U.S. Federal Trade Commission (FTC). He received his BA in economics at UCLA and his PhD in economics at Emory University.