

Public Workshop on Competition in Licensing Music Public Performance Rights

July 28-29, 2020

Panelist Biographies

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Session 1: Remarks from Stakeholders on the Consent Decrees

David Israelite, President and CEO, National Music Publishers' Association (NMPA)

David Mark Israelite is the President and Chief Executive Officer of the National Music Publishers' Association. The National Music Publishers' Association (NMPA) is the premier trade association representing American music publishers and their songwriter partners. The NMPA's mandate is to protect and advance the interests of music publishers and their songwriter partners in matters relating to the domestic and global protection of music copyrights.

From 2001 through 2005, Israelite served as Deputy Chief of Staff and Counselor to the Attorney General of the United States. In this capacity he served as the Attorney General's personal advisor on all legal, strategic and public affairs issues. In March of 2004, the Attorney General appointed Israelite Chairman of the Department's Task Force on Intellectual Property. Prior to joining the Department of Justice, he served as the Director of Political and Governmental Affairs for the Republican National Committee. In that role he was the senior advisor to the Chairman of the National Republican Party. From 1997 through 1998, he served as Missouri Senator Kit Bond's Administrative Assistant, making him the youngest AA in the United States Senate. He also served as Campaign Manager for Senator Bond's successful 1998 re-election campaign.

From 1994 through 1997, Israelite practiced law in the Commercial Litigation Department at the firm of Bryan Cave, LLP in Kansas City, Missouri. He earned his Juris Doctor from the University of Missouri in 1994 and received a B.A. in a double major of Political Science and Communications from William Jewell College in 1990.

Michelle Lewis, Executive Director, Songwriters of North America (SONA)

Michelle Lewis is a fierce New Yorker now based in Los Angeles, where she is a singer, songwriter, composer, and music creators' rights advocate. From her early career as a recording artist signed to Irving Azoff's Giant Records, to her first radio hit, Cher's "A Different Kind of Love Song" in 2002, to the 2014 worldwide #1 single "Wings" by the British girl group Little Mix, Lewis brings authenticity, musicality and heart to a diverse array of music projects.

For the last decade, Lewis has branched out into the world of songwriting for animated television, most notably as a Peabody Award-winning composer of all original music for Disney Jr's hit show, *Doc McStuffins* and as an Emmy-nominated songwriter for the beloved Nickelodeon series *Bubble Guppies*. She has over a half-dozen TV themes currently airing including *Doc McStuffins*, *The Loud House*, *Muppet Babies*, *The Harvey Street Kids*, *Mutt and Stuff* and *DC Super Hero Girls*.

In 2014, Lewis co-founded the non-profit, Songwriters of North America (SONA) in response to the ever-increasing complexities and disparities in digital royalties paid to songwriters and composers. And most recently—through her roles on the ASCAP Board's Legislative Committee, representing SONA and as one of the leaders of the #MusicArmy of songwriters, artists, composers and producers—she was an instrumental force in the historic passage of the Music Modernization Act, which was signed into law in October of 2018.

Elizabeth Matthews, CEO, American Society of Composers, Authors, and Publishers (ASCAP)

Elizabeth Matthews is Chief Executive Officer of ASCAP, the American Society of Composers, Authors and Publishers, a membership association of more than 750,000 US composers, songwriters, lyricists and music publishers of every kind of music. ASCAP licenses the public performance of its members' music, collects license fees, tracks performances and distributes to its members royalties based on their performances. Under her leadership, ASCAP has achieved record-breaking financial results, topping \$1 billion in annual revenue and driving record-high distributions of royalties to ASCAP songwriters, lyricists, composers and music publishers. Operating on a not-for-profit basis, ASCAP is among the most

efficient performing rights organizations, and has delivered almost 90 cents on every dollar collected back to its members as royalties.

Matthews has spearheaded a transformative six-year strategic plan to meet the future needs of ASCAP's members and licensing partners, and has closed major deals with key licensees, including digital media companies, cable and TV networks, satellite and traditional radio and more, securing a steady flow of royalties for performances of the more than 11.5 million musical works in the ASCAP repertory. Under her direction, ASCAP has launched pioneering transparency initiatives and technology innovations to benefit its members and licensing partners. She has been instrumental in leading ASCAP's advocacy and public policy initiatives to modernize music licensing, including passage of the Music Modernization Act into law.

Michael O'Neill, President and CEO, Broadcast Music Inc. (BMI)

Michael O'Neill is President and Chief Executive Officer of BMI. In this role, O'Neill oversees all of BMI's business operations, both domestically and globally, and directs the Company's strategic growth to benefit BMI's songwriters, composers, music publishers and licensees. He is also a member of BMI's Board of Directors.

Under O'Neill's leadership, BMI has reported its highest-ever revenue and distributions to its affiliated songwriters, composers and publishers. Notably, BMI became the first music rights organization in the world to deliver more than \$1 billion in public performance royalties to its affiliates. He has also overseen exponential growth year-over-year in both signing up tens of thousands of new affiliates to BMI and processing trillions of performances, adapting to the seismic digital shift in how music is consumed.

O'Neill has served BMI for 25 years. Prior to his current role, he oversaw all aspects of BMI's Creative team, as well as Domestic Licensing and revenue generation, including radio, television, cable, satellite, and the general licensing division, while managing royalty distributions and administrative services groups. He has led licensing negotiations, developed new licenses and sales policies and spearheaded a new customer relations campaign. He was also instrumental in developing the groundbreaking BMI Live program, which pays performing songwriters for live performances in small venues.

O'Neill holds an M.B.A. from Rutgers University in Marketing and Finance and received his undergraduate degree in Business Administration from Montclair University. He is Chairman of the Board of FastTrack and sits on the Board of Directors for the Songwriters Hall of Fame, the Broadcasters Foundation of America, National Association of Broadcasters Leadership Foundation and Monmouth Medical Center Foundation.

The Honorable Gordon Smith, President and CEO, National Association of Broadcasters (NAB)

Gordon H. Smith joined the National Association of Broadcasters as president and CEO in November 2009. Prior to joining NAB, he served as a two-term U.S. senator from Oregon and later as senior advisor in the Washington offices of Covington & Burling, LLP.

During his tenure in the U.S. Senate, Senator Smith's committee assignments included the Senate Commerce, Science and Transportation Committee, the panel that oversees all broadcast-related legislation. He also served on the Senate Energy and Natural Resources Committee, the Senate Finance Committee and the Senate Foreign Relations Committee. His role on the Commerce Committee and as chairman of a Senate High Tech Task Force helped foster his interest in new media and new technology issues.

Born in Pendleton, Oregon, Senator Smith attended college at Brigham Young University, received his law degree from Southwestern University School of Law in Los Angeles, and practiced law in New Mexico and Arizona before returning to Oregon to direct the family-owned Smith Frozen Foods business in Weston, Ore. Before his election to the U.S. Senate in 1996, he was elected to the Oregon State Senate, rising to the position of president of that body after only three years. He and his wife Sharon live in Bethesda, Md., and are the parents of three children and five grandchildren.

Session 2: Public Performance Licensing Alternatives

Jackie Brenneman, General Counsel, National Association of Theatre Owners

Jackie Brenneman serves as General Counsel and Director of Industry Relations for the National Association of Theatre Owners (NATO), a trade body representing movie theater owners in all 50 states and 100 countries worldwide. She leads NATO's legal strategy on a range of issues from constitutional protections, intellectual property, and antitrust matters. From 2018 through 2020 she has been recognized as one of the Top 50 Women in Global Exhibition by *Celluloid Junkie*, ranking at number 8 in 2020. She is a founding board member of Women in Exhibition and Film Row, two organizations focused on future leaders of the exhibition industry.

Ted Cohen, Managing Partner, TAG Strategic

Ted Cohen is currently the Managing Partner of TAG Strategic, a digital entertainment consultancy based in Los Angeles and concurrently serves as Head of Corporate Development for Mediatech Ventures, an Austin-based incubator/accelerator. Previously, as SVP-Digital for EMI Music, Cohen led global digital business development for this iconic label and was instrumental in crafting the licensing agreements upon which the iTunes Store and Rhapsody/ Napster music subscription services were built. During that time, EMI led the industry by embracing and exploiting new tech and business models such as digital downloads and streaming music subscriptions, wireless services, hi-definition audio and Internet radio.

Prior to EMI, Cohen co-founded and Chaired the groundbreaking Webnoize conferences. He also led Consulting Adults, with clients such as Universal Studios, Amazon, Microsoft, DreamWorks Records, Liquid Audio and Napster. He also had senior positions at both Warner Brothers and Philips Electronics. A 40-plus year entertainment media industry veteran, Cohen conceived, created and chaired MidemNet and also served on the Grammy LA Board of Governors and Grammy National Trustee Board. Additionally, he served as Chairman of Mobile Entertainment Forum America, and on the board of Mouse.org, an innovative computer literacy program. In 2013, he received the NARM Presidential Award, previously awarded to Ahmet Ertegun and Dick Clark, among others.

David Kokakis, Chief Counsel, Universal Music Publishing Group

David Kokakis currently serves as Chief Counsel of Universal Music Publishing Group, where he oversees the company's global digital initiatives, business development strategies, contract negotiations, and litigation matters. He also serves as Chief Counsel, Digital Rights Management UMG/UMPG, which is a role focusing on joint-business development initiatives as between Universal's label group and publishing group.

Prior to his work with Universal, Kokakis was a partner in a media company that developed and managed businesses across many sectors of the entertainment industries, including book publishing, reality television production, music and sports talent management, consumer product development and corporate branding. He also practiced entertainment law for several years at various firms, including Greenberg Traurig, was the COO of a media company that managed radio and music properties, and owned and operated restaurants and bars in New York City.

Janet McHugh, Executive Director, TV Music License Committee

Janet E. McHugh is a seasoned corporate executive and attorney with experience in the energy, finance and broadcast industries. She has been Executive Director of TVMLC for 4 years. Prior to TVMLC, she was an attorney with Sinclair Broadcast Group, Inc. where she handled and managed operational legal matters including the negotiation of commercial contracts, insurance, real estate, and music licensing.

Prior to Sinclair, McHugh served as Deputy General Counsel and Senior Vice President of Human Resources for Constellation Energy Group, Inc., now Exelon Corporation. She is a summa cum laude graduate of Clemson University and Duke University School of Law. As a public service, she chairs the Maryland State Ethics Commission by appointment of Governor Larry Hogan. She has two children - a son who graduated from Duke in 2020 (soon-to-be NYU Law 1L), and a daughter who is a TV multi-platform producer with the Evening team at King5 in Seattle, WA.

Mike Steinberg, Executive Vice President of Creative and Licensing, BMI

Mike Steinberg is the Executive Vice President of Creative and Licensing at BMI. He is responsible for the company's Creative group, which encompasses BMI's songwriter and composer teams in Atlanta, Los Angeles, Nashville, New York,

Austin, Puerto Rico and London. He also oversees BMI's Strategic Partnership division. As leader of the Creative team, he works closely with the group's senior executives, who are responsible for helping to guide, nurture and develop the careers of BMI's unmatched roster of established and developing talent.

In addition, Steinberg leads all of BMI's Licensing efforts. He is responsible for all domestic licensing revenues and operations involving digital media, AM/FM radio, network and local television, cable networks and MSOs, satellite radio and television, VOD and all General Licensing categories, such as restaurants and hotels. In this capacity, he has overseen the diversification of BMI's revenue streams and led the company to record revenue growth in each year of his tenure.

Steinberg joined the company in 1996 as the Assistant Vice President of Business Affairs and Licensing and continued to take on greater management responsibilities within the Licensing department, culminating with his promotion to SVP of the group in 2011. He was promoted to his current role in 2017. Prior to BMI, he held positions in television distribution and worked in the private practice of law with several prominent firms. He earned his Juris Doctor from Fordham University School of Law and B.A. from Binghamton University. Steinberg also completed an Executive Program, Negotiating and Competitive Decision Making, at Harvard Business School.

Session 3: Competition between PROs for Songwriters and Publishers

Danielle Aguirre, Executive Vice President and General Counsel, NMPA

Danielle Malito Aguirre serves as NMPA's Executive Vice President and General Counsel. She was recognized as a 2018 Billboard Women in Music Executive of the Year and in 2019 was inducted into the Billboard Women in Music Hall of Fame. Aguirre currently oversees NMPA's legal, business and policy objectives. Her efforts have led NMPA to realize significant royalty rate increases before the Copyright Royalty Board and were critical to passage of the Music Modernization Act, which became law in October 2018.

Aguirre serves on the board of the newly created Mechanical Licensing Collective—established pursuant to the MMA—and has been integrally involved in the development of that entity. Under her leadership, NMPA has aggressively defended the copyrights of its members, resulting in high profile licensing agreements, settlements and judgements that have recovered over \$200 million for music publishers and songwriters.

Prior to joining NMPA, Aguirre was an attorney at Paul, Weiss, Rifkind, Wharton and Garrison LLP. She received her Juris Doctor from the University of Pennsylvania Law School and her B.A. from Georgetown University.

Jordan Bromley, Board Member, Music Artists Coalition

Jordan Bromley is a Partner at Manatt, Phelps, & Phillips, LLP, and a board member of the Music Artists Coalition. Bromley is the leader of Manatt's Entertainment Transactions and Finance practice. His experience lies in recognizing talented artists, individuals and companies; developing strategy to achieve their long-term success; and protecting their interests by rigorously negotiating and drafting the agreements that form the basis of their business relationships.

Bromley acts as general counsel to his clients, whom he terms "global CEOs." Recognizing that creators are no longer limited to the studio, but instead are CEOs of a global licensing regime, brand ambassadors and global strategists, he emphasizes that his responsibility is to support and protect their activities in all countries—large and small, developed and developing. This includes structuring global distribution networks, TM enforcement, and securing opportunities in developing markets such as China, India, South Korea and the MENA markets.

Bromley is known for his thought leadership on the Music Modernization Act, streaming trends, and copyright and royalty issues. A staunch advocate of creators' rights, he works closely with Manatt's government group in Washington, D.C., and Sacramento, helping music clients devise and implement strategies to influence legislation and policy affecting intellectual property. Prior to becoming an attorney, he co-founded and developed Golden Mean Management, a Bay Area rap label, management, marketing, and distribution company. He also co-founded and developed Hip Hop Congress, an international nonprofit organization that uses hip hop music and culture to inspire social and civic action among young people.

Bart Herbison, Executive Director, Nashville Songwriters Association International

Bart Herbison is Executive Director of the Nashville Songwriters Association International (NSAI), the world's largest not-for-profit songwriters trade organization and advocacy group dedicated to the songwriting profession. Established in 1967, NSAI's membership of nearly 5,000 spans the United States and many other countries. With more than 100 chapters, the association serves aspiring and professional songwriters in all genres of music.

Under Herbison's leadership, the NSAI gained prominence in the national legislative arena and advocated for the adoption of the Music Modernization Act in 2018. In 2018, Herbison received two prestigious national honors for his songwriter advocacy work: the "Industry Legacy Award" from the National Music Publishers Association and the "IP Champion's Award" from the U.S. Chamber of Commerce Global Innovation Policy Center. He serves on the Board of Directors of the Mechanical Licensing Collective.

A Paris, Tenn., native, Herbison worked as a reporter and spent 14 years in radio and as a correspondent for The Nashville Banner newspaper before joining the administration of former Tennessee Governor Ned McWherter as Deputy Director of Communications in 1987. He joined the staff of U.S. Rep. Bob Clement (D-Nashville) in 1988 where he served as the Tennessee Congressman's Press Secretary, Campaign Manager, and Chief Tennessee Administrative Officer before leaving Capitol Hill for Music Row in 1997.

Clara Kim, Executive Vice President and General Counsel, Business and Legal Affairs, ASCAP

Clara Kim is Executive Vice President and General Counsel of ASCAP, one of the largest performance rights organizations in the world, representing more than 750,000 songwriters, composers and publishers and more than 11.5 million works. She has oversight of the global Business and Legal Affairs department and is a key driver of groundbreaking licensing deals with top streaming services such as Netflix, YouTube, Spotify, Pandora and Apple Music, as well as with major media groups such as NBC Universal, Disney/ABC, the TVMLC (Television Music Licensing Committee) and RMLC (Radio Music Licensing Committee). Clara also led negotiations for ASCAP with music and tech industry stakeholders and Capitol Hill lawmakers for the Music Modernization Act, which provides modernized judicial and evidentiary protections for creators and music publishers in connection with the market value of public performance rights.

Kim has been named one of *Billboard's* Top Music Lawyers for five consecutive years since 2016 and was among the top entertainment lawyers featured in *Variety's* 2018, 2019 and 2020 Legal Impact Report. Prior to ASCAP, she held senior roles with National Geographic Channels US and International, Discovery Communications and Viacom. She received her Juris Doctor from New York University School of Law.

Jack Kugell, Board Member, SONA

Jack Kugell is a founding member of Songwriters of North America (SONA) and currently holds a seat on its board of directors. He co-chairs SONA's Advocacy committee and is passionately committed to fighting for creators' rights, while continuing to write great songs and put his stamp on great talent.

Kugell was first signed to EMI Music Publishing (which later became Sony/ATV) in 1993, a successful relationship lasting 23 years. As the son of producer Marty Kugell ("In The Still of The Night"), his first musical experiences took place as he watched his dad write and record in the classic studios of New York and Los Angeles. By the age of 11, he knew that he wanted to be a songwriter. What started as a hobby soon became a full-time career and lifelong passion.

Kugell first success as a songwriter came after he penned the perennial Christmas song "Hey Santa!" for The Wilsons and the theme song for *The Carnie Wilson Show*. He is perhaps most recognized for his #1 chart-topper "Valentine," recorded by Martina McBride, co-written with Jim Brickman. "Valentine" became a #1 AC hit as well as reaching Top 5 on the Billboard Country Singles chart and earned multi-platinum status for both Martina McBride and Jim Brickman's albums. Artists he has worked with include Christina Aguilera, H.E.R., Kesha, J.Lo, Fergie, The Pussycat Dolls, Jim Brickman, Martina McBride, Jessica Simpson, Sean Kingston, Mary J. Blige, Wayne Brady, Taio Cruz, 98 Degrees, All-4-One, Anastacia and Michelle Williams to name a few.

Kugell along with his partners Jamie Jones and Matt Wong are songwriters/producers collectively known as The Heavyweights. The Grammy-nominated, multi-platinum production team has delivered hit songs to amass collective sales of over 35 million units.

July 29, 2020

Session 4: Licensing Music to Users

John Bodnovich, Executive Director, American Beverage Licensees

John Bodnovich is Executive Director of American Beverage Licensees (ABL) and a leading advocate for America's beer, wine and spirits retailers. He works closely with ABL's state affiliates representing on- and off-premise beverage licensees before Congress and the federal government, and facilitating strategic communication efforts amongst ABL and its affiliates. He manages ABL's government affairs portfolio, grassroots advocacy, and is ABL's primary representative to industry trade associations, alcohol suppliers, wholesalers and importers, as well as social responsibility organizations and other industry stakeholders. He has led association initiatives on legal advocacy, membership and responsibility campaigns, and public awareness efforts addressing small business issues for beverage licensees.

Bodnovich holds a B.A. in Government and International Relations from the University of Notre Dame, and a Master's degree in Political Management from The George Washington University. He and his wife, Erin, reside in Kensington, Maryland with their four children.

Peter Brodsky, General Counsel and Executive Vice President, Business Affairs, Sony/ATV Music Publishing

Peter Brodsky is the Executive Vice President, Business Affairs and General Counsel of Sony/ATV Music Publishing in New York. He has held that position since April 2020. Prior to that, he was Executive Vice President, Business and Legal Affairs, from the time he joined the company in 2007. In this role, he leads a department of 20 that is responsible for all of Sony/ATV's business and legal activities in the United States. Since 2015, he has been recognized by Billboard Magazine as one of the top 25 "Digital Power Players" in the music business. He has also been included in Billboard's "Top Music Lawyers" since 2016.

Brodsky is also responsible for Sony/ATV's North American digital initiatives, which include creating and executing the company's strategy in connection with the licensing of Sony/ATV's catalog to digital music services and other platforms. He has been a leader in the industry since the inception of the digital music business and has successfully negotiated with virtually every type of digital music service and platform including on-demand and non-interactive audio streaming, video streaming services, lyric services, sheet music, cloud-based lockers and many others.

Since 2014, Brodsky and Sony/ATV have taken an industry leadership position in setting and implementing a strategy to change the way in which public performance rights are licensed in the United States. He plays an active role in music publishing industry and legislative matters, such as copyright reform and works closely with the National Music Publishers Association on many issues including the 2019 passing of the Music Modernization Act.

Rick Kaplan, General Counsel and Executive Vice President, Legal and Regulatory Affairs, NAB

Rick Kaplan is the General Counsel and Executive Vice President, Legal and Regulatory Affairs at the National Association of Broadcasters (NAB). Kaplan joined NAB in October 2012 as the Executive Vice President of Strategic Planning and was named General Counsel in November 2014. Kaplan is responsible for directing NAB's advocacy at the Federal Communications Commission and other federal agencies. Kaplan also manages NAB's legal affairs, including litigation, corporate governance, and regulatory compliance.

Prior to joining NAB, Kaplan served in various leadership capacities at the Federal Communications Commission (FCC), including Chief of the Wireless Telecommunications Bureau, Chief Counsel to Chairman Julius Genachowski, and Chief of Staff and Media Advisor to Commissioner Mignon Clyburn. Before joining the Commission, Kaplan practiced appellate litigation and regulatory law at Sidley Austin LLP, served in the Office of the General Counsel at the U.S. House of Representatives, and clerked for Judge Harry T. Edwards of the U.S. Court of Appeals for the D.C. Circuit. Prior to his legal

career, Kaplan founded and operated a sports management and public relations agency that represented and served professional athletes and sports-related organizations.

Kaplan earned his Juris Doctor from Columbia Law School, where he served as Editor-in-Chief of the *Columbia Law Review*, and undergraduate degree from Wesleyan University.

Stuart Rosen, Senior Vice President and General Counsel, BMI

Stuart Rosen is the Senior Vice President and General Counsel of BMI, overseeing global operations of the Legal Department, directing the organization's legal affairs, as well as all attorneys working within the company.

Rosen joined BMI in 1996 as an Associate Attorney. He was promoted to Senior Attorney in 1999, Assistant Vice President of Legal Affairs in 2002, and Vice President of Legal in 2007. From 2004 through 2011, he also served the Board of Directors and the company in the capacity of corporate secretary. Prior to BMI, Rosen was in private practice at Sills, Cummis, Epstein, & Gross and Thelen, Reid, Brown, Raysman, & Steiner LLP. He earned his Juris Doctor from the University of Pennsylvania Law School.

Tres Williams, Executive Vice President, Business Affairs, iHeartMedia, Inc.

Tres Williams is the Executive Vice President of Business Affairs for iHeartMedia where he advises the company on various business and legal subject matters across multiple divisions and is primarily responsible for the company's music rights strategy. He is responsible for all PRO licensing for the company including ASCAP, BMI, SESAC and GMR and is part of the Radio Music License Executive Committee where he was the lead negotiator for its rate case settlement with BMI in 2020. In addition to maintaining and renewing all music industry licenses for iHeartRadio's digital services, Williams handles all business affairs for iHeartMedia's marquee events including the iHeartRadio Jingle Ball Tour, iHeartRadio Music Festival and iHeartRadio Music Awards.

Williams brings more than 20 years of experience in the music industry, ranging from jazz saxophone performance to concert promotion, to his role at iHeartMedia. His extensive background includes practicing music and technology law at eMusic.com and negotiating several key deals for eMusic's sister company, independent digital distributor The Orchard. From 2008 to 2011, he was the general counsel of music tech startup Thumbplay where he was instrumental in launching its cloud-based music subscription service as well as its eventual sale to iHeartMedia. He holds a Juris Doctor from Brooklyn Law School, and both B.S. and B.M. from Appalachian State University.

Session 5: Economists' Views and Wrap-up

Dr. Adam B. Jaffe, Brandeis University

Adam B. Jaffe is Research Professor at Brandeis University and Senior Lecturer at the Sloan School at M.I.T. He was previously Director and Senior Fellow at Motu Economic and Policy Research in Wellington New Zealand, and the Fred C. Hecht Professor in Economics, Chair of Economics and Dean of the Faculty of Arts and Sciences at Brandeis.

Dr. Jaffe's research focuses on the economics of research and innovation, particularly the relationship between public research and commercial innovation, the measurement of the impacts of research, and the role of the patent system. He is an Editor for *Research Policy*, the leading international scholarly journal of the economics and management of innovation and technological change.

Dr. Jaffe is the author of two books—*Patents, Citations and Innovations: A Window on the Knowledge Economy* (with Manuel Trajtenberg, 2002); and *Innovation and Its Discontents: How Our Broken Patent System is Endangering Innovation and Progress and What to Do About It* (with Josh Lerner, 2004). He is also the editor (with Ben Jones, 2015) of *The Changing Frontier: Rethinking Science and Innovation Policy*. According to Google Scholar, Jaffe's publications have been cited over 50,000 times.

In addition to his scholarly activities, Dr. Jaffe is active in public policy formulation and debate. He is the Chair of the Board on Science, Technology and Economic Policy of the U.S. National Academies of Sciences, Engineering and Medicine. In 2015-17, he served as Co-Chair of the OECD Global Science Forum Experts' Group on "Effective Operation of Competitive Research Funding Systems."

Dr. Kevin M. Murphy, University of Chicago

Dr. Kevin M. Murphy is the George J. Stigler Distinguished Service Professor of Economics at the University of Chicago Booth School of Business. Dr. Murphy is the first professor at a business school to be chosen as a MacArthur Fellow. He was selected for "revealing economic forces shaping vital social phenomena such as wage inequality, unemployment, addiction, medical research, and economic growth." The foundation felt his work "challenges preconceived notions and attacks seemingly intractable economic questions, placing them on a sound empirical and theoretical footing."

In addition to his position at the University of Chicago, Dr. Murphy works as a faculty research associate for the National Bureau of Economic Research. He primarily studies the empirical analysis of inequality, unemployment, and relative wages as well as the economics of growth and development and the economic value of improvements in health and longevity.

In 2007, Dr. Murphy and fellow Chicago Booth faculty member Robert Topel won the Kenneth J. Arrow Award for the best research paper in health economics for "The Value of Health and Longevity," published in the *Journal of Political Economy*. The award is given annually by the International Health Economics Association.

A fellow of the Econometric Society and an elected member of the American Academy of Arts and Sciences, Dr. Murphy was a John Bates Clark Medalist in 1997. He has received fellowships from the Earhart Foundation, the Sloan Foundation, and the Friedman Fund.

Dr. Murphy earned his PhD in 1986 from the University of Chicago after graduating from the University of California at Los Angeles with a bachelor's degree in economics in 1981. He joined the Chicago Booth faculty in 1984.