

## **JEFFREY HIROSHI MATSUURA**

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### **PROFESSIONAL EXPERIENCE:**

#### **ALLIANCE LAW GROUP**

1998 to Present

Lawyer with the Alliance Law Group, a Virginia law firm specializing in providing services to technology-based companies. Primary practice areas include commercial, legal, regulatory, and public policy issues associated with technology and intellectual property licensing, technology transfer/commercialization, commercial Internet use, electronic commercial transactions/relationships, electronic government initiatives, computer network security, data privacy, online publishing/media, digital rights management, telecommunications/information technology, emerging technologies and scientific research, and new venture development. Assisted governments in China, Lebanon, and Canada to develop policies and conduct transactions involving intellectual property rights management, technology commercialization, Internet and e-commerce operations, and new venture development. Assisted in the development of joint U.S./Japan technology transfer and commercialization exchange. Supported new venture development involving a variety of emerging technologies in wide range of fields, including information technology, digital media, telecommunications, aerospace, energy/natural resource management, and life sciences.

#### **UNIVERSITY OF DAYTON SCHOOL OF LAW**

2002 to 2005

Assistant Professor of Law and Director of the Program in Law and Technology at the University of Dayton School of Law (Dayton, Ohio). Taught classes in Internet law, intellectual property law and management, electronic commerce, intellectual property licensing, computer security, and regulation of science and technology. Responsible for planning and management of all initiatives associated with the Program in Law and Technology. Planned and chaired a scholarly symposium on "The Constitutionality of Protecting Factual Compilations" and conferences on "Licensing Intellectual Property" and "Advanced Computer and Cyberspace Law." Chaired a symposium on "Patents and Innovations." Developed teaching materials for judges, law enforcement authorities, business professionals, government officials, technology professionals, and the general public on the topic of copyright law enforcement in Lebanon. Created and delivered World Trade Organization intellectual property rights compliance training sessions to promote Lebanese WTO accession efforts. Established partnerships with businesses, government, and business development centers for projects associated with intangible asset development/management, technology commercialization, and new venture creation. Provided counsel for University of Dayton technology development and commercialization projects and initiatives, and for nanotechnology research and commercialization activities. Participated in the planning and implementation of fundraising and development initiatives. Provided consulting services on law and technology issues for private and public sector organizations. Topics of research emphasis included: technology transfer/commercialization, intellectual property and intangible asset valuation, digital media rights, electronic commerce, computer security, information privacy, and international technology and intellectual property development. Served on search committee for the University of Dayton Associate Provost hiring process. Appointed to University of Dayton scientific research strategy advisory group.

**ROUNDTABLE RESEARCH COMMERCIALIZATION**

1996 to 1998

Partner in the firm, Roundtable Research Commercialization (RRC), a company which provided business, financial, technical, and policy counsel to technology-based businesses, primarily those in the telecommunications, information technology, and Internet/electronic commerce industries. Provided advice regarding business strategy, management, and public policy (including regulatory and legislative) topics and issues to client companies.

**TELE-TV**

1995 to 1996

Assistant General Counsel for TELE-TV, a provider of interactive media (both video and online formats) technology and content. Provided commercial and legal counsel in support of the development of interactive media distribution and production technology. Developed and negotiated contracts to provide for the creation and acquisition of interactive media equipment and software. Developed and negotiated contracts to support the distribution of interactive media technologies created by TELE-TV. Provided commercial and legal counsel to support the development and management of TELE-TV's interactive media technologies and other intellectual property (copyright, trademark, and patent protection work). Provided counsel on regulatory and public policy matters associated with interactive media technologies and services. Managed internal staff, outside counsel and consultants.

**COMSAT CORPORATION**

1992 to 1995

Assistant General Counsel, provided legal and business counsel in support of COMSAT's international telecommunications and technology development services. Negotiated, drafted, and reviewed contracts associated with the provision of international telecommunications services, sale of telecommunications equipment/software, and acquisition of equipment and services (including satellites, earth stations, antenna equipment, space launch vehicles, and computer equipment). Provided legal counsel on: technology licensing, intellectual property, commercial transactions, government contracts, antitrust, labor/personnel matters, litigation, regulatory/administrative affairs, legislative initiatives, cooperative research and development operations, and international trade/export control regulations. Negotiated and supported development of international joint ventures for provision of mobile communications services and equipment (total value in excess of \$200 million) and assisted in the creation of a billion dollar international start-up venture to develop and operate a global mobile communications system using satellite technology. Participated in U.S. Signatory functions performed by COMSAT for the INTELSAT and INMARSAT international treaty organizations. Also served as elected chairman of the company's workforce diversity council. Served, by appointment of senior management, on special task forces created to recommend new structural and operational strategies for COMSAT's mobile communications business. Managed internal staff, outside counsel, and consultants.

**DISCOVERY COMMUNICATIONS, INC.**

1988 to 1992

Senior Counsel for DCI, an international cable television programming service (owner of both The Discovery Channel and The Learning Channel) and multimedia products company. Provided legal and commercial counsel in support of DCI's general corporate, television, consumer products, multimedia/interactive media, and marketing activities. Responsible for negotiating, drafting, reviewing, and managing all DCI contracts. Provided legal and commercial advice supporting DCI's joint ventures in the computer software, multimedia/interactive media, home video, publishing, and international programming industries. Legal and business advisor as to general corporate matters, including commercial transactions, insurance, employment/labor, and facilities acquisition (e.g., real estate, satellite transponder capacity, editing/production equipment). Provided legal and business advice regarding intellectual property protection and management issues. Managed litigation, regulatory actions, and

legislative efforts on behalf of DCI. Assisted Corporate Secretary in support of the Board of Directors. Managed internal staff, outside counsel, and consultants. Major projects, each valued at tens of millions of dollars, included providing legal and commercial counsel supporting: acquisition of programming service, The Learning Channel; development of the joint venture created to manage The Discovery Channel's European operations; creation of new lines of business to develop and market multimedia and interactive media products; the acquisition of satellite transponder capacity, and development of international joint ventures for the production and distribution of television programming.

**MCI COMMUNICATIONS CORPORATION**

1986 to 1988

Senior Attorney responsible for providing legal and business advice supporting international services, sale of telecommunications equipment/software, satellite operations, international facilities, telecommunications equipment acquisition, technology licensing, and regulatory issues generated by MCI's international telecommunications service offerings. Represented MCI in commercial contract negotiations, litigation, federal/state legislative and regulatory proceedings (including testimony), and industry organizations. Managed internal staff, outside counsel, and consultants. Provided legal and commercial counsel for several major projects, each valued at tens of millions of dollars, including: the development of MCI's electronic mail service (MCIMail), the acquisition of RCA Global Communications, Inc., sale and acquisition of satellite transponder capacity, acquisition and construction of international telecommunications facilities (including both international satellite and transoceanic cable facilities), and negotiations to develop operating agreements and traffic exchange arrangements with foreign governmental authorities and international service providers.

**SATELLITE BUSINESS SYSTEMS**

1982 to 1986

Attorney responsible for providing legal and business counsel supporting the SBS telecommunications service offerings, the SBS satellite communications network facilities (terrestrial and space), acquisition of telecommunications and computer equipment, technology licensing, development of technical specifications for telecommunications and satellite equipment, and SBS participation in joint ventures. Represented SBS in federal/state administrative/legislative proceedings, commercial transactions, industry organizations, and judicial proceedings. Managed internal staff, outside counsel, and consultants. Provided support for major SBS projects, each valued at tens of millions of dollars, including: SBS satellite system construction and launch; creation of joint ventures to develop large private data communications networks, and the MCI acquisition of SBS.

**PROFESSIONAL ORGANIZATION MEMBERSHIPS:**

Commonwealth of Virginia Bar  
District of Columbia Bar  
U.S. Court of Appeals for the Fourth Circuit  
U.S. Court of Appeals, D.C. Circuit

**EDUCATION:**

**THE WHARTON SCHOOL  
UNIVERSITY OF PENNSYLVANIA**

1995 to 1997

Earned M.B.A. degree in 1997, in the Executive MBA Program. Completed independent research project evaluating strategic alliances among Internet commercial ventures.

**UNIVERSITY OF VIRGINIA SCHOOL OF LAW**

1979 to 1982

Earned J.D. degree in 1982. Provided pro bono services for small businesses and start-up ventures.

**DUKE UNIVERSITY**

1975 to 1979

Earned B.A. degree in 1979. Graduated magna cum laude (double major, economics and political science). Elected to Phi Eta Sigma and Pi Sigma Alpha honor societies. Selected to participate in summer session at Oxford University (1978) and Washington Semester Program (interned on the National Security Council Staff of the Office of the President of the United States in 1978).

**ADDITIONAL TEACHING EXPERIENCE:**

**CAPE TECHNIKON UNIVERSITY**

Summer 2004

Visiting professor in the Department of Business Informatics at Cape Technikon, Cape Town, South Africa. Taught graduate courses in computer and Internet legal issues and their impact on electronic commerce.

**NORTHERN VIRGINIA COMMUNITY COLLEGE**

1991 to 2002

Adjunct faculty member at NVCC teaching law courses. Created and taught courses on current issues in intellectual property law and the impact of the Internet and electronic commerce on the law. Also taught courses on the law of business organizations, commercial transactions, torts, and an introduction to the U.S. legal system

**UNIVERSITY OF MARYLAND**

1999 to 2000

Adjunct faculty member at the University of Maryland Business School. Taught courses on the legal aspects of businesses and business operations.

**CAPITOL COLLEGE**

2000 to 2005

Adjunct faculty member, created and taught online graduate level course, "Invention, Innovation, and Use of Intellectual Property," as part of the Capitol College M.S. program in Information Architecture, and online graduate course, "Legal Aspects of Computer Security & Information Privacy," as part of the M.S. program in Network Security. Developed a course on Issues in Business Leadership for the MBA program..

**MOSELEY PROFESSIONAL EDUCATION PROGRAMS**

2000 to 2004

Taught continuing legal education courses for legal professionals on the following topics: 1.) "Electronic Commerce: Emerging Legal Trends"; 2.) "Genetic Destiny: Today's Law, Tomorrow's Technology"; 3.) "The Internet's Legal Impact in Virginia," and 4.) "Privacy Law in the Commonwealth." Created a course, for real estate industry professionals, on use of electronic commerce in the residential and commercial real estate industries and a continuing education course for lawyers entitled, "Internet's Legal Impact in Virginia." Developed the course "High Tech Law Update." Created and taught online continuing legal education courses: 1.) "Managing Intellectual Property Online" and 2.) "Legal Compliance in E-Commerce." Created courses for lawyers entitled, "The Internet's Legal Impact on North Carolina." and "Technology & the Legal Practice: Opportunities & Challenges." Created and taught an online course ("Technology & Law Update") for lawyers that provides an update of recent

legislation, regulation, and court decisions affecting intellectual property law, Internet use, and electronic commerce.

#### **SELECTED PUBLICATIONS:**

**BOOKS:** *Law of the Internet*, co-author with George B. Delta, published in 1997 by Aspen Law and Business (updated in 1998, 1999, 2000, 2001). This book is a best-selling treatise on the impact of the Internet and electronic commercial activities on various areas of law, and is available at [www.aspenpublishers.com](http://www.aspenpublishers.com) and <http://www.amazon.com>. The second edition of *Law and the Internet* was published in 2001 (updated 2002, 2003, 2004, 2005, 2006, 2007). The third edition was published in 2008 (updated 2009, 2010, 2011).

*A Manager's Guide to the Law and Economics of Data Networks*, published in 2000 by Artech House Publishers.

*Security, Rights, and Liabilities in E-Commerce*, published in 2001 by Artech House Publishers.

*Managing Intellectual Assets in the Digital Age*, published by Artech House in May 2003.

*Nanotechnology Regulation and Policy Worldwide*, published by Artech House in June 2006.

*Jefferson vs. the Patent Trolls: A Populist Vision of Intellectual Property Rights*, published by the University of Virginia Press in 2008.

*Global Information Technology Law*, co-author with Craig Blakeley, published in 2010 by Thomson Reuters West Publishers.

Currently writing the book tentatively entitled, *Performance Enhancing: Science and Technology in the World of Sports*, for the University of Missouri Press (anticipated publication date 2012).

**ARTICLES AND PAPERS:** "Regulatory Compliance in the Cloud," *Computerworld New Zealand*, May 9, 2011 and online edition, May 16, 2011.

"In tough times science investment requires vision, courage," *Otago Daily Times*, April 7, 2011.

"International Trends in the Regulation of Information and Communication Technology," *Nanjing University Law Review*, October 2009.

"Thomas Jefferson: Intellectual Property Rights Populist," published in the *Newsletter of the History of Science Society*, July 2009, at [www.hssonline.org/publications/Newsletter2009/July\\_Matsuura.html](http://www.hssonline.org/publications/Newsletter2009/July_Matsuura.html).

"Thomas Jefferson and the Evolution of a Populist Vision of Intellectual Property Rights and Democratic Values," published in, *Archipelago*, Vol. 10-34, March 2007, available at [www.archipelago.org/vol10-34/matsuura.htm](http://www.archipelago.org/vol10-34/matsuura.htm).

"Public Perceptions of Science, as Reflected in the Conduct of Legal Institutions" published in the Proceedings of the 2004 Congress of Scientific Knowledge and Cultural Diversity (Barcelona, Spain, June 2004).

"An Overview of Leading Current Legal Issues Affecting Information Technology Professionals," *Information System Frontiers*, June 2004.

“Legal and policy challenges facing electronic commercial marketplaces and trading exchanges,” *The Internet Society*, May 2004.

“Digital Victim or Vigilante: Legal and Ethical Limits to Online Self-Defense,” published in the Proceedings of the ETHICOMP 2004 Conference: Challenges for the Citizens of the Information Society (Syros, Greece, April 2004).

“Law and Technological Change: Lessons from the Digital Media Industry,” published in, the Proceedings of the International Management of Technology 2004 Conference (Washington D.C., April 2004).

“Expecting the Public Backlash: Public Relations Lessons for Nanotechnology from the Biotechnology Experience,” published in the Technical Proceedings of NSTI Nanotech 2004 Conference, Vol. 3, p. 491 ( Boston, Massachusetts, March 2004).

“An Overview of Intellectual Property and Intangible Asset Valuation Models,” *Research Management Review*, Vol. 14, No. 1, Spring 2004.

“Electronic Marketplaces and Trading Exchanges: The Legal and Policy Challenge of Preserving the Integrity of Digital Markets,” published in the Proceedings of the 2003 International Business Information Management Conference (Dec. 2003), Cairo, Egypt.

“Key Legal Issues Affecting Information Management and Their Impact on Transformation of Business Performance,” published in the proceedings of the Conference on Information Science and Technology Management (Oct. 2003), Cape Town, South Africa.

“The Impact of National Infrastructure and Cyberspace Security Strategies on Legal Rights and Liabilities,” published by the Telecommunications Policy Research Conference (August 2003), at <http://www.tprc.org> .

“Computer Art: Trends and Licensing Implications,” *The Licensing Journal*, Vol. 23 No. 6 (June/July 2003)

“Electronic Banking: How E-Government Can Foster E-Commerce” (co-author with Craig Blakeley), published online (August 2002) by the Center for Digital Government as part of its “International Government Navigator” ([www.centerdigitalgov.com/international](http://www.centerdigitalgov.com/international)).

“Tech Wreck Recycling: Investment Strategies for Economic Downturns” (co-author with Craig Blakeley), published in *2002 Venture Guide*, published by Capital Growth Interactive.

“Legal Liability and Distributed Denial of Service Attacks,” published online in, *Insight*, Vol. 4, Issue 3, Feb. 15, 2002, at <[www.tisc2002.com/insight.html#v43](http://www.tisc2002.com/insight.html#v43)>

“Network & Information Security: Legal Rights & Liabilities,” published in the 3<sup>rd</sup> International Conference on Advanced Communications Technology Proceedings (2001).

“E-Government: An Engine to Power E-Commerce Development” (written with Craig Blakeley), published in the Proceedings of the European Conference on E-Government (2001).

“E-Government: Is E-Democracy Inevitable?” (written with Craig Blakeley), published in the Proceedings of the Conference on Innovations for an e-Society: Challenges for Technology Assessment (2001).

“A Double-Edged Sword,” published in *DB2 Magazine* (2001).

“The Open Source Development Process: A Potential Model for Knowledge Management,” published by the National Knowledge & Intellectual Property Management Taskforce (2000).

“Internet Governance: In Search of the Internet’s Once and Future King,” published by the Internet Society, Proceedings of INET 2000, The Internet Global Summit (2000).

“Patents for Online Business Systems: Implications for Developers and Users of Internet-Based Negotiation Technologies” (Co-author with James Lester), published by IBM Institute for Advanced Commerce (1999).

“Reducing Risk of Liability: A Guide for Developers, Owners, and Operators of Artificial Intelligence Systems”, published by the International Association of Science and Technology for Development in the Proceedings of the IASTED International Conference on Artificial Intelligence and Soft Computing (1999).

“A Guide to the Rules of the Road for the Information Superhighway: An Internet Legal Primer,” published by the Northern Virginia Community College (1998).

“The Case Against Internet Law” (Co-author with J.P. Auffret), published by The Internet Society as part of its global INET 98 Conference (1998).

“Technological Change, Telecommunications Deregulation, Telecommunications Economics, and Internet Globalization” (Co-author with J.P. Auffret), published by The Internet Society as part of its global INET 98 Conference (1998).

“Applications of Space Science and Space Technology to Life Sciences: A Model for Future Research Commercialization Efforts “ (in *Life Sciences and Space Medicine Conference '95*, published by the American Institute of Aeronautics and Astronautics in 1995).

“Defining and Attributing Accountability/Liability for the Content of Networked Communications: Evaluation of the Role of Telecommunications Common Carriers in Computer Networking” (in *Legal, Ethical, and Technological Aspects of Computer Network Use and Abuse*, published by the American Association for the Advancement of Science and the American Bar Association in 1994).

#### **SELECTED LECTURES, SPEECHES, AND PRESENTATIONS:**

2011: Presentation to University of Otago information science faculty and students on telecommunications regulatory issues affecting information technology (Dunedin, New Zealand)

Lecture to University of Otago and Dunedin personnel on alternative intellectual property rights management strategies of research institutions (Dunedin, New Zealand)

Presentation to University of Otago Research and Enterprise Group on changing intellectual property rights management strategies of U.S. and Canadian academic institutions (Dunedin, New Zealand)

Lecture to law faculty and students at the University of Waikato on legal issues associated with Wikileaks (Hamilton, New Zealand)

Delivered first lecture in the new Te Punaha Seminars on Science and Innovation presented by the New Zealand Ministry of Science and Innovation. Spoke on the topic of evolving intellectual property rights management strategies by research organizations in the United States and Canada (Wellington, New Zealand)

Presentation on legal issues associated with Wikileaks at a public forum presented by the University of Otago's Centre for Law and Emerging Technologies (Dunedin, New Zealand)

Interviewed on Dunedin Channel 9 Local Television News (Dunedin, New Zealand)

Lecture to University of Otago faculty and students on current telecommunications legal and regulatory issues (Dunedin, New Zealand)

Lecture to University of Otago faculty and students on legal issues associated with Google AdWords and other forms of online advertising (Dunedin, New Zealand)

Speech on commercialization of genome technologies at the Australia-New Zealand Genome Roundtable (Melbourne, Australia)

2009: Presentation on "Law in the Internet Age" to faculty representatives at the Community College of Baltimore County (Baltimore, Maryland)

Presentation on "Jefferson vs. the Patent Trolls: A Populist Vision of Intellectual Property Rights" to the Southern History of Science and Technology Conference (Richmond, Virginia)

Presentation on "Jefferson vs. the Patent Trolls: A Populist Vision of Intellectual Property Rights" to the Thomas Jefferson Literary and Debating Society (Charlottesville, Virginia)

2008: Presentation on "Small Businesses, Credit Markets, and Funding in the U.S." to representatives of Japan's National Federation of Credit Guarantee Corporation (Washington, D.C.)

2007: Presentation on "Technology Commercialization and the Anglo-American Telegraph Company's 19<sup>th</sup> Century Transatlantic Cable Projects" for Smithsonian Institution's National Museum of American History staff (Washington, D.C.)

Presentation on "International Competitiveness in Biotech – A Canadian Perspective" at the 2007 Mid-Atlantic Bio Conference (Bethesda, Maryland)

Presentation on "U.S./Canadian Partnerships for Technology Development" at the Annual Meeting of the U.S. Federal Laboratories Consortium Mid-Atlantic Region (St. Michaels, Maryland)

Panelist for the George Mason University, School of Management, Bioscience Management Program Capstone Project Review (Fairfax, Virginia)

Presentation on "International Collaboration for Research and Technology Commercialization" at the Annual Meeting of the U.S. Federal Laboratories Consortium Midwest and Southeast Regions (Cincinnati, Ohio)

Presentation on "International Regulatory Initiatives Affecting Nanotechnology" at the conference on "The Legal Future of Nanotechnology: Small Science Calls for Big Changes" (Albany New York)

2006: Presentation on the topic, "Thomas Jefferson and the Evolution of a Populist Vision of Intellectual Property Rights and Democratic Values" at the conference, "Inventing America: The Interplay of Technology and Democracy in Shaping American Identity," hosted by the Smithsonian Institution, the University of Virginia, and the Thomas Jefferson Foundation (Charlottesville, Virginia)

Presentation on my book, *Nanotechnology Regulation and Policy Worldwide*, at the NanoTX06 Conference (Dallas, Texas)

Presentation on “Current Intellectual Property Law Issues Facing Academic Institutions” to Nanjing University faculty visiting St. Joseph’s University (Philadelphia, Pennsylvania)

Presentation on “Thomas Jefferson and a Populist Vision for Intellectual Property Rights” at the Robert H. Smith International Center for Jefferson Studies (Charlottesville, Virginia)

Presentation on “Digital Media Strategies” at the Communications Week Conference, Central State University (Wilberforce, Ohio)

Presentation on “Legal Issues Associated with Information Security” to leadership council of the Cincinnati chapter of the Information Security Association (Cincinnati, Ohio)

2005: Presentation on “Intellectual Property Rights in Support of Creative Industries Development” at the conference on “Intellectual Property Protection and Creative Industries Development.” (Shanghai, China)

Presentation to Shanghai Intellectual Property Administration staff and the public at Jiao Tong University on “Technology Commercialization” (Shanghai, China)

Presentations on technology commercialization for staff at Zhejiang University and Hangzhou Science Park (Hangzhou, China)

Presentation to Lebanese judges and lawyers (visiting the U.S. under the auspices of the U.S. Agency for International Development) on legal issues associated with electronic commerce and information privacy (Rosslyn, Virginia)

Presentation to staff from the Hong Kong Intellectual Property Department on current U.S. intellectual property law issues (Washington, D.C.)

Presentation to staff from Chinese Financial and Economic Committee on current U.S. antitrust and competition law issues affecting intellectual property (Washington, D.C.)

Presentation to staff from the Korean Intellectual Property Office on current U.S. intellectual property law issues (Washington, D.C.)

Presentation on “Opportunities and Challenges Affecting Nanotech Research and Commercialization” at the Applied Diamond Conference: Nanocarbon 2005 (Argonne National Laboratory, Illinois)

Presentation to graduate law students at University of Edinburgh on “Law and Emerging Technologies” (Edinburgh, Scotland)

Presentation on “Legal Initiatives Promoting or Restricting Genomic Research” at the Human Genome Meeting 2005 (Kyoto, Japan)

Presentation on “Legal Initiatives Promoting or Restricting Life Sciences Research” at the Innogen Conference on the Evolution of the Life Sciences Industry (Edinburgh, Scotland)

Discussions on international intellectual property law and technology commercialization at the Shanghai Intellectual Property Administration (Shanghai, China), Nanjing University (Nanjing, China), and Renmin University (Beijing, China)

Presentation on “Legal Initiatives Promoting or Restricting Genomic Research” at the CESAGen Conference (London, England)

Presentation on “The Impact of Regulation on Nanotechnology Research and Commercialization” at the American Association for the Advancement of Science Annual Meeting (Washington, D.C.)

Presentation on “Proposition 71 and the Impact of State Legal Initiatives on Research” at the American Association for the Advancement of Science Annual Meeting (Washington, D.C.)

Presentation on “Key Legal Issues Associated with the Development, Use, and Management of Biological Databases” at the 3<sup>rd</sup> Asia Pacific Bioinformatics Conference (Singapore)

2004: Presentation on “The Impact of Law on the Commercialization of Biotechnology in Asia” at the Biology in Asia Conference (Singapore)

Presentation “An Overview of Intellectual Property Valuation Models” at the Center for International Legal Studies Program on “Intellectual Property: A Means of Worldwide Protection” (Sunshine Coast, Australia).

Presentation on World Trade Organization intellectual property rights (TRIPS) compliance requirements as part of WTO/U.S. Agency for International Development training session for Lebanese government, business, and legal professionals (Beirut, Lebanon).

Presentation on “Who is Responsible for Security in Cyberspace: The Challenge of Allocating Liability for Computer Security” (Northern Kentucky University).

Presentation on “Legal Dimensions of Genetic Database Development and Use” at the Genetics and Health Care Conference (Reykjavik, Iceland).

Presentation to the Computer Society of South Africa “Current Computer and Cyber Law Issues” (Cape Town, South Africa).

Presentations to Cape Technikon faculty: “Intellectual Property Rights and Academic Scholarship,” “Key Employment Issues in the Digital Age,” “Legal and Ethical Considerations in Academic Research,” “Challenges and Opportunities in Rapidly Evolving Disciplines” (Cape Town, South Africa).

Presentations to Cape Technikon students: “Legal and Ethical Issues in Academic Research,” “Cyberlaw,” “Cyberlaw: Electronic Communications and Transactions Act,” “Cyberlaw: ECTA and Internet Laws in Other Jurisdictions,” “Cyberlaw: A Look at the Future” (Cape Town, South Africa).

Presentation to Veterans Entrepreneurship Program on law and new ventures (Dayton, Ohio).

Chaired the Fifteenth Annual Computer and Cyberspace Law Seminar (Dayton, Ohio).

“E-Commerce Security: Legal Considerations,” presentation for the George Washington University Telecommunications and National Security Graduate Program (Arlington, Virginia).

“E-Commerce: A Consumer’s Perspective,” presentation at the Virginia State Bar’s 2004 Annual Meeting (Virginia Beach, Virginia).

“Key Legal Challenges Facing Computer Network Operations,” two presentations to administration, staff, faculty, and students at the Michigan Technological University (Houghton, Michigan).

“Public Perceptions of Science, as Reflected in the Conduct of Legal Institutions,” presentation at the 2004 Congress on Scientific Knowledge and Cultural Diversity (Barcelona, Spain).

“Legal Aspects of International Technology Transfer in Support of International Space Missions,” presentation at SpaceOps 2004 Conference (Montreal, Canada).

“Legal and Policy Challenges Facing Electronic Commercial Marketplaces,” presentation at the E-Business 2004 Conference (Skiathos, Greece).

“Using Law to Protect and Manage Inventions and Innovations,” presentation to the Ohio Manufacturing Small Business Development Center Roundtable (Dayton, Ohio).

“Digital Victim or Vigilante: Legal and Ethical Limits to Online Self-Defense,” presentation to the ETHICOMP 2004 Conference: Challenges for the Citizen of the Information Society (Syros, Greece).

Presentation on :”Law and Technological Change: Lessons from the Digital Media Industry,” International Association for Management of Technology 2004 Conference (Washington, D.C.).

“Overview of Intellectual Property Valuation Models,” CLE presentation to the Dayton Intellectual Property Law Association (Dayton, Ohio).

Presentation on “Using the Law to Protect and Manage Your Inventions and Innovations,” at the Ohio Manufacturing Small Business Development Center Seminar for Inventors (Dayton, Ohio).

Chaired the Sixth Annual Seminar on Intellectual Property Licensing (Dayton, Ohio).

Presentation on “Expecting the Public Backlash: Public Relations Lessons for Nanotechnology from the Biotechnology Experience,” at the NSTI Nanotech 2004 Conference (Boston, Massachusetts).

2003: Commentator from 1998 to 2003 on law and science/technology issues for the weekly National Public Radio program, THE LAW SHOW (produced by WAMC/Northeast Public Radio).

Presentation on “Electronic Marketplaces and Trading Exchanges: The Legal and Policy Challenge of Preserving the Integrity of Digital Markets” at the 2003 International Business Information Management Conference (Cairo, Egypt).

Presentation on “Handling Public Relations: Lessons for Nanotech from the Biotech Wars,” at the World Nano-Economic Congress (London, England)

Presentations on “The Impact of Legal Liability on the Allocation of Computer Security Costs” and on “Key Legal Issues Affecting Information Management and Their Impact on Transformation of Business Performance” at the Conference on Information Science and Technology Management (Cape Town, South Africa)

Chaired the University of Dayton School of Law Symposium on Patents & Innovations: Lessons from the Wright Brothers (Dayton, Ohio).

Presentation on the “Impact of National Infrastructure and Cyberspace Security Strategies on Legal Rights and Liabilities” at the Telecommunications Policy Research Conference (Arlington, Virginia)

Presentation on “Legal Issues for Security Professionals” at the InfraGard Member Meeting (Dayton, Ohio).

Presentations on “Legal Issues in the Music Industry” and “Music Performance and Publishing Rights” at the Music Industry Summit (Columbus, Ohio)

Presentation on “Continuing Evolution of the Internet & Security: A Legal Perspective,” at George Washington University (Washington, D.C.).

Presentation to the Dayton Intellectual Property Law Association on “Legal Issues in E-Commerce” (Dayton, Ohio)

Chaired the Fourteenth Annual Advanced Computer and Cyberspace Law Seminar at the University of Dayton School of Law (Dayton, Ohio)

Panelist on “Law and the Music Industry” at the 2003 Songwriters’ Summit (Columbus, Ohio)

Chaired the Fifth Annual Seminar on Licensing Intellectual Property at the University of Dayton School of Law (Dayton, Ohio), and delivered the presentation, “The Open Source Software Revolution”

Presentation, “Cybercrime Survey” at the Dayton Bar Association conference on “Enforcement and Defense of Cybercrimes” (Dayton, Ohio)

2002: Presentation for the Cincinnati Intellectual Property Law Association on legal aspects of data privacy (Cincinnati, Ohio).

Chaired the Symposium on the Constitutionality of Protecting Factual Compilations at the University of Dayton School of Law (Dayton, Ohio)

Delivered guest lecture on “Internet & E-Commerce Security: Legal Challenges” at George Washington University, graduate program in telecommunications policy. (Arlington, Virginia).

Featured interview on the U.S. Supreme Court case, *Eldred v. Ashcroft*, and on copyright law in the digital age on the WYSO radio program, *WYSO Weekend*

Presentation on “Legal Issues in E-Commerce” to the Dayton E-Commerce Forum” (Dayton, Ohio)

Panelist on the subject of legal liability associated with computer system security at the November 2002 Meeting of the Dayton Chapter of InfraGard (Dayton, Ohio)

2001: Chaired a panel on Telecommunications Policy and spoke on the topic of “Network Information & Security: Legal Rights & Liabilities” at the 3<sup>rd</sup> International Conference on Advanced Communications Technology (ICACT 2001) at Muju, South Korea

Lectured to the Arlington County Bar Association on “Technology Law Challenges: UCITA, Napster, and Beyond.” (Arlington, Virginia)

Lecture at George Washington University (Arlington, Virginia) on “Law & Competition in the Digital Age”

Lecture at American University (Washington, D.C.), “Key Internet Issues: P2P, Open Source, and Globalization”

2000: Briefings on Lebanese telecommunications and information technology law and policy for the U.S. Ambassador and the Deputy Chief of Mission at the U.S. Embassy, Beirut, Lebanon

Public lectures on “The Role of the Internet and Telecommunications in Economic Development” and on “Regulatory and Public Policy Issues for Internet Service Providers” at the international TERMIUM/GITEX Information Technology Exposition in Beirut, Lebanon

Briefing for the American Chamber of Commerce in Beirut, Lebanon on telecommunications and information technology law and policy issues, sponsored by the U.S. Embassy in Lebanon

Briefing, sponsored by the U.S. Embassy, on telecommunications and information industry regulation and policy for the National Information Technology Committee of the Lebanese government (Beirut, Lebanon)

Taped lecture on “The Role of Government in Attaining E-Government” for delivery at Lebanon E-Government Seminar (Beirut, Lebanon)

Briefing for the Director of the Investment Development Authority of Lebanon on creation of development zones for information technology companies (Beirut, Lebanon)

Public lecture on “Internet Law” at La Sagesse University, Beirut, Lebanon

Briefing on telecommunications deregulation and privatization strategy for Lebanese Ministry of Post and telecommunications staff (Beirut, Lebanon)

Interviewed by the following Lebanese media on telecommunications, information technology, Internet, and e-commerce topics: Future TV program, “Alam Al-Sabah” (“Morning World”), An-Nahar (newspaper), National Broadcasting News (television), Murr Television, and the Radio Voice of Lebanon (Beirut, Lebanon)

Public lectures, “Current Telecommunications Law in Palestine” and “Developing the Internet in Palestine” sponsored by the U.S. Consulate General and held in Ramallah, Israel

Briefings on “Telecommunications and Information Technology Law and Regulation” for the Palestine Information Technology Association board of directors, senior management of the Palestinian Telecommunications Company, and the Ministers of Telecommunications, Trade, and Planning and International Cooperation (Ramallah, Israel)

Lecture entitled, “But is it Really Art? Public Policy Implications of Treating Open Source Computer Programming as Art” at the New Extensions for Technology 1.0 Conference on new media and digital art (Karlstad, Sweden)

Lecture on the topic: “Open Source: A Potential Model for Knowledge Management” at the Second Annual Intellectual Asset Management Symposium of the National Knowledge & Intellectual Property Management Taskforce (Washington, D.C.)

Presentation, “Internet Governance: In Search of the Internet’s Once and Future King,” at the Internet Society’s INET 2000 Internet Global Summit (Yokohama, Japan)

Presentation for Sony Corporation legal staff on “U.S. Internet Policy: Key Issues” (Tokyo, Japan)

Lecture on “Implications of a Maturing Internet” at the George Washington University Columbian School of Arts and Sciences (Arlington, Virginia)

Lecture for the Arlington County Bar Association, “Legal Compliance Issues for Online Activities of Law Offices” (Arlington, Virginia)

Guest lecture at the American University on the subject of “E-Commerce: Current Global Trends” (Washington, D.C.)

1999: Spoke on the topic, “Be Wary of the Mirage of Partial Regulation” at ISPCON ’99, the national conference of the Internet service provider industry (San Jose, California)

Addressed U.S. Patent & Trademark Office staff on “Internet Copyright Challenges: A review of Key Current Issues” (Arlington, Virginia)

Lectured at the Arlington County Bar Association seminar, “MOM & POP.COM: Emerging E-Commerce and Technology Issues in the Law”, on the subject of “Legislative/Regulatory Initiatives Influencing E-Commerce” (Arlington, Virginia)

Lectured on “Knowledge Management in a Networked Environment” at the Knowledge Management Expo '99 (Dallas, Texas)

Co-Chair of the Business Applications Session of the International Association of Science and Technology for Development’s Artificial Intelligence and Soft Computing International Conference (1999). Presented paper entitled “Removing Legal Roadblocks to Commercial Acceptance of AI Systems” (Honolulu, Hawaii)

Presentation to the 1999 Beijing International Symposium on Electronic Commerce on the topic of “An Overview of the Law and Electronic Commerce” (Beijing, China)

Lectured to the Arlington County Bar Association Continuing Legal Education Seminar on Current Topics in Intellectual Property Law on the subject of “Internet Intellectual Property” (Arlington, Virginia)

Interviewed on the WRC radio program, “Great Ideas” (June 5 and July 6 1999 programs) on the subject of legal issues facing emerging Internet businesses (Washington, D.C.)

Guest lecture on “Public Policy for the Internet” at the George Washington University Graduate School (Washington, D.C.)

Spoke on the topic of “Legal Issues Facing Start-Up Internet Ventures” at a seminar for new businesses sponsored by the Litman Law Offices (Arlington, Virginia)

Presentation to the National Task Force on Knowledge and Intellectual Property Management on the subject of “IP Management in an Open Source Environment” (Washington, D.C.)

Lectured on “The Internet as a Global Medium” at the American University (Washington, D.C.)

Lectured on “Patents for Online Business Systems” at the IBM Institute for Advanced Commerce (Hawthorne, New York)

Lectured on “An Internet Overview: Trends in Technology, Commerce, and Policy” for British Telecom North America regulatory staff (New Orleans, Louisiana)

1998: Lectured at the George Washington University Cyberspace Policy Institute (“Taxation in Cyberspace: The Business Perspective”) (Washington, D.C.)

Presented a public lecture on “Internet Legal Issues” as part of the Arlington (Virginia) County Public Library speaker series (Arlington, Virginia)

Delivered lecture to Northern Virginia Community College faculty, “Rules of the Road for the Information Superhighway” (an overview of legal issues associated with the use of the Internet and other information technologies) (Fairfax, Virginia)

Delivered presentation, “The Case Against Internet Law,” at The Internet Society’s global conference (INET 98)(Geneva, Switzerland)

Delivered guest lecture on “The Law and Economics of the Internet” at George Washington University’s graduate program in telecommunications policy (Washington, D.C.)

Delivered guest lecture at Marymount University graduate program in business and information technology management on the topic: “Legal Implications of Doing Business on the Internet” (Arlington, Virginia)

Delivered lecture to American Chemical Society management on current strategies and trends in electronic commerce (“An Overview of Electronic Commerce: Challenges and Opportunities”)(Washington, D.C.)

1997: Delivered guest lecture on the impact of Internet technology on domestic and international telecommunications policy at The George Washington University graduate program in telecommunications policy (Washington, D.C.)

Delivered guest lecture at The American University (School of International Service) on the World Intellectual Property Organization, the World Trade Organization and their roles in international intellectual property management and the development of the Internet (Washington, D.C.)

1996: Delivered guest lecture at The American University (School of International Service) on international intellectual property law issues (Washington, D.C.)

1995: Delivered presentation on the subject of commercialization of biomedical research conducted in conjunction with the U.S. space program at the Life Sciences Conference, sponsored by the American Institute of Aeronautics and Astronautics and by the National Aeronautics and Space Administration (Houston, Texas)

1994: Participated, by invitation, in an international conference on, “The Ethical, Legal, and Technological Aspects of Use and Abuse of Computers and Computer Networks” sponsored by the National Conference of Lawyers and Scientists (a joint committee of the American Association for the Advancement of Science and the American Bar Association) (Wye, Maryland)

1993: Presentation to the University of Baltimore Law School faculty discussing the relationship between law and science and technology (Baltimore, Maryland)

Presentation to the University of Maryland, Baltimore County, Technology Enterprise Center discussing the use of joint ventures to facilitate development of commercial applications for scientific research (Baltimore, Maryland)

1992: Presentation to the University of North Carolina (Charlotte) Engineering Research and Industrial Development staff on the subject of commercialization of innovative scientific research (Charlotte, N.C.)

Presentation to the Greater Baltimore Technology Center staff on the subject of technology commercialization (Baltimore, Maryland)

1991: Presentation to the California Western School of Law faculty discussing international telecommunications policy (San Diego, California)

#### **EXPERT TESTIMONY**

1998-1999: Expert witness on the subject of commercial use of the Internet (in Civil Case No. 98 C 0274 S, U.S. District Court Western District of Wisconsin).

## **SELECTED MEDIA APPEARANCES**

Quoted in major U.S. and international media, including: The Economist, the BBC, the Wall Street Journal, CNBC, A.P., U.P.I., the New York Times, the Chicago Tribune, CNN, CBS News, MSNBC, the Boston Globe, the Voice of America, the New Zealand Herald, the Otago Daily Times, Computerworld New Zealand, and the Toronto Globe and Mail.

## **SELECTED GRANTS AND FELLOWSHIPS:**

2011: Served as J. William Fulbright U.S. Senior Scholar. Conducted research at the University of Otago in Dunedin, New Zealand on the interaction between law and emerging technologies.

2010: Awarded research grant from the Hagley Museum and Library's Center for the History of Business Technology and Society for the research project: "An Internet Pioneer: the Story of Satellite Business Systems."

2007: Fellow at the Smithsonian Institution, Lemelson Center for Invention and Innovation, where I conducted research on technology commercialization aspects of the efforts of the Anglo-American Telegraph Company to construct the first trans-Atlantic telecommunications cable system in the 1800s.

2006: First Union Fellow at the Thomas Jefferson Foundation's Robert H. Smith Center for International Jefferson Studies at Monticello where I conducted research on "Jefferson and a Populist Vision for Intellectual Property Rights"

2005: Visiting Fellow at the University of Edinburgh, AHRB Research Centre for Studies in Intellectual Property and Technology Law for Summer 2005.

Fellow at the American Film Institute's Catalyst Science Screenwriting Workshop (Los Angeles, California)

2001: Selected as an approved member of the J. William Fulbright Scholarship Program Senior Specialists Roster.

1999: Received a research grant from the National Task Force on Knowledge and Intellectual Property Management to study the potential use of the "open source" software development system as a potential model for commercial development of other forms of intellectual property.

1998: Received Northern Virginia Community College Adjunct Faculty Grant to develop a handbook and briefings for administration, faculty, and students on legal issues associated with the use of the Internet.

1992: White House Fellowship, Regional Finalist

## **ADVISORY PANELS AND BOARDS:**

**UNIVERSITY OF OTAGO INTERNET RESEARCH GROUP** 2011 to Present

International Affiliate for the Internet Research Group of Otago (IRGO), the University of Otago's multidisciplinary group focusing on issues associated with the Internet and its diverse applications.

**AMERICAN FILM INSTITUTE SCIENCE ADVISORS PANEL** 2010 to Present

Serve as a science and technology advisor to American Film Institute (AFI) directing and screenwriting fellows. Assist the AFI fellows to improve the accuracy, timeliness, and effectiveness of their portrayals of science and technology in their films and other video productions.

**COMMUNICATIONS SCIENTIFIC, INC.** 2008 to 2009

Member of the advisory board for this company that provides computing and telecommunications technology and services.

**DYNAFLOW, INC.** 2007 to Present

Member of the advisory board for this company specializing in contract research and product development associated with resolution of fluid dynamics issues.

**PACITEX GROUP, INC.** 2007 to 2009

Co-founder and director of this company providing consulting and transaction support services to assist scientific research and technology commercialization activities involving Asian and U.S. enterprises, universities, and research institutions.

**COTEFECO ENERGY GROUP, INC.** 2007 to Present

Corporate Secretary and General Counsel for this company that develops and distributes technology and products that enhance the effectiveness, efficiency, and environmental quality of combustion engines.

**CENTER FOR ADVANCED TECHNOLOGY STRATEGY** 2007 to Present

Co-founder of this non-profit (pending) organization directed toward application of technology management expertise and high performance collaboration in research and technology development to resolve international and domestic challenges to public welfare associated with health, environment/natural resources management, and security.

**GLOBAL TECHNOLOGY TRANSACTIONS FOUNDATION** 2007 to 2009

Member of the board of directors for this non-profit organization which has as its mission the development and dissemination of, on an open access basis, best practices, standards, and model documentation to enable more efficient and more extensive international distribution of intellectual property and technology.

**INTERNATIONAL ACADEMY OF THE CIO USA** 2007 to Present

Co-founder of this non-profit (pending) organization involved with research, training, and best practices development for government and private sector chief information officers.

**STUDIES IN ETHICS, LAW AND TECHNOLOGY JOURNAL** 2007 to 2009

Associate editor for information technology topics for this international online journal which examines current legal, ethical, and public policy topics associated with development and use of technology.

**JDJ ASSOCIATES** 2006 to 2008

Co-founder and principal in the firm, JDJ Associates, which provides consulting, training, and business development services for small and mid-sized businesses.

**CAPITOL COLLEGE ADVISORY BOARD** 2005 to 2007

Appointed member of board offering strategic counsel to Capitol College (Laurel, Maryland) M.B.A. program.

**GEORGE MASON UNIVERSITY** 2004 to 2007

Strategic advisor to the Director of the graduate program in Technology Management, George Mason University School of Management.

**OHIO SMALL BUSINESS DEVELOPMENT CENTERS REGIONAL ADVISORY BOARD**  
2004 to 2005

Appointed member of the board that provides guidance to the state-funded small business development centers that provide business assistance to enterprises in Ohio.

**WESSEX INSTITUTE OF TECHNOLOGY INTERNATIONAL SCIENTIFIC ADVISORY COMMITTEE**  
2004 to 2005

Invited member of the Wessex Institute of Technology International Scientific Advisory Committee of the 2<sup>nd</sup> International Conference on “The Internet Society: Advances in Education, Commerce & Governance: Technology’s Impact on Individuals, Culture, and Society 2006.” Providing support on content development and implementation of this international conference addressing information technology issues, to be held in England in June 2006.

**WRIGHT STATE UNIVERSITY HUMAN SUBJECT INSTITUTIONAL REVIEW BOARD**  
2003 to 2005

Appointed member of the board that reviews all research and experimental protocols involving human test subjects for Wright State University.

**ADVISORY COMMITTEE FOR VIRGINIA GENERAL ASSEMBLY** 1998 to 2002

Appointed member of special advisory committees for the Virginia General Assembly’s Joint Commission on Technology and Science. Providing counsel on legislative initiatives associated with the development of electronic commerce. Topics of particular emphasis include: Internet governance, electronic transactions, digital signatures/certification, transaction security, and technology and government (including e-government initiatives).

**BIO JUDICIARY PROJECT** 2002

Appointed advisor for this initiative led by the Foundation for Genetic Medicine and the Biotechnology Industry Organization with the objective of creating and maintaining an information source for the judiciary on the subjects of biotechnology and genetic science. Provided input for the Project with regard to content quality and structure for the information provided to the judiciary.

**NORTHERN VIRGINIA TECHNOLOGY COUNCIL COMMITTEE ON HIGHER EDUCATION** 1999 to 2002

Appointed member of the committee established by Northern Virginia technology-based businesses to provide advice to colleges and universities in the region regarding curriculum and research initiatives relevant to the technology industry

**NATIONAL KNOWLEDGE AND INTELLECTUAL  
PROPERTY MANAGEMENT TASKFORCE**

1999 to 2001

Appointed advisor to the National Knowledge and Intellectual Property Management Taskforce, an organization comprised of representatives from industry, government, and academia designed to develop policies, practices, and systems to manage intellectual property and knowledge more effectively in support of economic development.

**WAKE FOREST UNIVERSITY SCHOOL OF LAW  
INTELLECTUAL PROPERTY LAW JOURNAL  
ADVISORY BOARD**

2000 to 2002

Appointed member of the advisory board for the Journal of Intellectual Property Law published by the Wake Forest University School of Law.

**TECH ENTREPRENEUR COMMUNITY CENTER**

2001 to 2002

A founding member of the advisory board for the Tech Entrepreneur Community Center, an organization that provides services and support for technology-based start-up enterprises in the Northern Virginia region.

**MIT ENTERPRISE FORUM ADVISORY BOARD**

1999 to 2000

Appointed member of the board that manages the operations of the Washington, D.C. area chapter of the MIT Enterprise Forum. The Forum provides an arena in which start-up companies can obtain business advice and explore funding opportunities.

**GEORGE MASON UNIVERSITY TASK FORCE ON  
INFORMATION SECURITY AND PRIVACY**

2000

Appointed advisor to the task force created to improve system security and data privacy for the computer systems of George Mason University.

**COMMUNITY ACTIVITIES:**

**CULTURAL ALLIANCE OF GREATER WASHINGTON**

1991 to 1998

Provided business and legal counsel, on a volunteer basis, to arts organizations in the Washington, D.C. area. Assisted arts organizations to manage daily operations and to develop strategic financial, community outreach, and marketing plans/objectives.

**ARLINGTON COMMUNITY ACCESS TELEVISION CORPORATION** 1989 to 1992

Served as member of the Board of Directors and Treasurer of this not-for-profit organization which manages community access to the public access channel in the Arlington, Virginia cable television system. Was responsible for strategic financial planning/oversight and fundraising for the corporation. Managed the corporation's annual budget of several hundred thousand dollars. Provided legal counsel regarding television production operations and non-profit activities. Created and led special initiatives to attract corporate sponsors and to develop interactive media capability for the channel.