The Genesis of Unlicensed Wireless Policy: How Spread Spectrum Devices Won Access to License-Exempt Bandwidth

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Information Economy Project at GMUSL

Speaker Biographies

Dr. Charles L. Jackson is an electrical engineer and consultant who has worked extensively in telecommunications and wireless. He is an adjunct professor at George Washington University. Dr. Jackson has consulted on spectrum and telecommunications policy issues for numerous commercial clients and several governments, including New Zealand, Panama, Jamaica, United Kingdom, Germany, Latvia, and the United States. Dr. Jackson received his Ph.D. from MIT.

Michael Marcus retired from the Federal Communications Commission after almost 25 years of service. He is an independent consultant in wireless technology and policy. While at the FCC, he proposed and directed the rulemakings that made Wi-Fi, Bluetooth, and Wireless HD possible. He has a Ph.D. in electrical engineering from MIT and is an Fellow of the Institute of Electrical and Electronics Engineers (IEEE).

Kenneth R. Carter is a Senior Consultant at wik-Consult GmbH, based in Germany, where he is a member of the firm's NGN and Internet Economics Department. He is an attorney, a technologist, and a communications business analyst. Mr. Carter was previously Senior Counsel for Business and Economics in the Office of Planning and Policy Analysis at the Federal Communications Commission. Mr. Carter holds an Executive MBA from Columbia Business School, a J.D. from the Benjamin N. Cardozo School of Law, and a B.A. from Colgate University.

Dr. Stephen J. Lukasik served as the first Chief Scientist of the Federal Communications Commission, from 1979 through 1982. Prior to that, Dr. Lukasik was the Director of the Department of Defense Advanced Research Projects Agency, Chief Scientist of the RAND Corporation, and Manager of the Systems Development Division at Xerox.

Mark S. Fowler served as Chairman of the Federal Communications Commission from 1981 to 1987.

Henry Goldberg is the founding partner of Goldberg, Godles, Wiener & Wright, a telecommunications law firm in Washington, D.C. He is a graduate of the Columbia University Law School and served as General Counsel of the Office of Telecommunications Policy in the Executive Office of the President. He has represented a large number of companies in developing use of unlicensed radio frequencies for a variety of technologies.

Anthony Townsend was one of the original founders of NYCwireless, a pioneer in the municipal wireless movement that promotes the use of public-access Wi-Fi in the development of local communities. At the Institute for the Future, a Silicon Valley think tank, Dr. Townsend's work focuses on mobility and urbanization, demographics, pervasive computing, and the media industry. He directed research sponsored by the National Science Foundation and the Department of Homeland Security at New York University, and received a Fulbright scholarship in 2004 to study the social impacts of broadband in South Korea. Dr. Townsend holds a Ph.D. in urban and regional planning from MIT, a master's in urban planning from NYU, and a B.A. from Rutgers University.

Kevin Negus received the Ph.D. in Engineering from the University of Waterloo in 1988. For the past 20 years he has developed wireless products and standards at both the chipset and system level primarily at Hewlett-Packard and Proxim. Dr. Negus is currently a Venture Capital partner in Los Altos, Calif., and a consultant on patent litigation. He lives in Hyattville, Wyoming.

Al Petrick is a Wireless Consultant for Jones-Petrick and Associates, in Orlando, Florida. With more than 25 years experience in wireless communications, Mr. Petrick has held senior management positions in business development and systems engineering for leading semiconductor companies in the Wi-Fi market. For the past eight years, he served as Vice-Chairman of the Institute of Electrical and Electronics Engineers's 802.11 standards group — or Wi-Fi — and is co-author of a leading wireless textbook: The IEEE 802.11 Handbook: A Designers Companion. Mr. Petrick received an M.B.A. from Rollins College Winter Park Florida in 1997 and a BSEE from Rochester Institute of Technology in 1980.

Ing. Vic Hayes is a Senior Research Fellow the Delft University of Technology, and is writing a book on the genesis of Wi-Fi. He holds a BSEE and joined NCR in the Netherlands in 1974. He co-established and chaired the IEEE 802.11, Standards Working Group for Wireless Local Area Networks and became known as the "Father of Wi-Fi." After chairing the WG, he successfully mobilized the computer industry to support the agenda item for 455 MHz of spectrum at co-primary allocation on the agenda of the World Radio Conference 2003. In October 2003, he retired from Agere Systems. For his pioneering work on Wi-Fi, Vic is the recipient of the Innovation Award 2004 of "The Economist," the Dutch Vosko Trophy, 2 Wi-Fi Alliance Leadership Awards, the IEEE Standards Medallion, the IEEE Leadership Award, the IEEE Hans Karlsson Award and the IEEE Steinmetz Award.

Dr. Ir. WolterLemstra is Senior Research Fellow at the Economics Section of Infrastructures at the Faculty Technology, Policy and Management of the Delft University of Technology, the Netherlands. In 2006 he concluded his PhD research project exploring the impact of the Internet/telecom bubble on the evelopment path of the telecommunication industry, thereby leveraging 25 years in the telecom industry with Philips, AT&T and Lucent Technologies, most recently as VP Business Development and Marketing. Wolter is also a Senior Lecturer at the Strategy Academy, Rotterdam, the Netherlands, and a Faculty Member of the Executive Masters program in e-Governance at the EcolePolytechniqueFédéral de Lausanne in Switzerland.

Tim Pozar is a telecommunications consultant specializing in microwave engineering for government and commercial applications. He was an early entrepreneur and developer in the Internet startup area, co-founding companies including TLGnet, San Francisco's first ISP, Brightmail, an early anti-spam company, and others. Pozar is active in community wireless networking, and is a co-founder of the Bay Area Wireless User Group. He is also leading the Bay Area Research Wireless Network's (BARWN) effort to study the scalability and sustainability of deploying wireless high speed Internet access for urban and rural settings to address the digital divide. BARWN is working with the City of San Francisco to deploy backbone and last mile to the City's housing developments. Pozar has also published a number of papers covering the regulatory issues in the United States and engineering of high speed wireless networks.

Dewayne Hendricks is CEO of Tetherless Access, Inc. (TAI), a Fremont, Calif.-based company which does research, product development and deployment of broadband wired and wireless data devices and services. TAI is the new incarnation of Tetherless Access Ltd. (TAL), where he was its CEO and co-founder. TAL, founded in 1990, was one of the first companies to develop and deploy Part 15 unlicensed wireless metropolitan area data networks which used the TCP/IP protocols. TAL eventually went public in 1996. He is also a member of the Federal Communications Commission Technological Advisory Council.

Thomas W. Hazlett is Professor of Law & Economics and serves as Director of the Information Economy Project at George Mason University School of Law. He is also a Columnist for the New Technology Policy Forum hosted by the Financial Times. Prof. Hazlett previously held faculty appointments at the University of California at Davis, Columbia University, and the Wharton School, and in 1991-92 served as Chief Economist of the Federal Communications Commission. Dr. Hazlett received his Ph.D. in Economics from U.C.L.A.