

Dale N. Hatfield

INTRODUCTION AND SUMMARY

Dale N. Hatfield is currently an independent consultant and an adjunct professor in the Interdisciplinary Telecommunications Program at the University of Colorado at Boulder. He currently teaches courses in telecommunications policy and regulation

Mr. Hatfield has had forty years of experience in the telecommunications field both in the public and private sectors. His government roles have included senior policymaking roles at the Office of Telecommunications Policy in the Executive Office of the President, the Federal Communications Commission, and the National Telecommunications and Information Administration in the U.S. Department of Commerce. In the private sector, he established a successful multidisciplinary telecommunications consulting firm and served as a director on the boards of several publicly traded and privately held companies in the telecommunications field. In addition, he was the founding director of a graduate level telecommunications program at the University of Denver and, for many years, taught a graduate level telecommunications policy and regulation course at the University of Colorado at Boulder. During his most recent three-year stay in Washington, DC he taught a graduate course in telecommunications technology at Georgetown University. He is currently the Monitor Trustee for the Federal Trade Commission in the AOL Time Warner merger.

In the international sphere, he has taught and consulted on interconnection, universal service, spectrum management, new technologies and other topics in many countries including those in Central and Eastern Europe, Africa, the Caribbean, Central and South America, and Asia. Among numerous other international assignments in 2002, he participated in the M.E.N.A Regional Telecommunications Workshop in Rabat, Morocco. In 2003, he worked extensively in Southern Africa for the NetTel@Africa project and on other consulting assignments in Laos, El Salvador, Namibia, and Romania. In 2004, he participated in the Professional Development Workshop for the members of the Arab Telecommunications Regulatory Association, the Jordanian Telecommunications Regulatory Agency, and the Arab Regional Information Technology Association, consulted in Tunisia and Egypt, and continued his consulting in Laos as well as his support of the NetTel@Africa project. He also participated in a workshop for regulators from Central Asian countries that was sponsored by USAID and the ITU. The workshop was held in Almaty, Kazakhstan.

Toward the end of 2004, he participated in the Forum on Telecommunications Regulation in Kampala, Uganda. The invitation to participate in the event stemmed from Hatfield's recent work for the Telecommunications Development Bureau (BDT) of the International Telecommunications Union (ITU) in Geneva. The forum was attended by regulators from many African countries. The theme of the Forum was "Licensing in an Era of Convergence." Hatfield is also the co-author of two chapters of BDT's publication "Trends in Telecommunications Reform 2004/2005." He subsequently made a related presentation on spectrum licensing issues at the Global Symposium for Regulators (GSR) that was held from 8-10 December 2004 in Geneva. In early 2005, Mr. Hatfield participated as a presenter at an Arab Regulators Network (ARNET) Professional Development Workshop in Sharm El Sheik, Egypt. His participation was

sponsored by the U.S. Agency for International Development (USAID). Mr. Hatfield is also a frequent speaker and lecturer on domestic telecommunications technology and policy issues. For example, during 2005, Mr Hatfield made invited presentations on telecommunications technology/policy for the Federal Communications Bar Association, the Tenth Circuit Judicial Conference, the Santa Fe Conference, The Institute for Regulatory Law & Economics, the Federal Communications Commission, Silicon Flatirons Telecommunications Program, New Mexico Public Utility Commission, and the North Dakota Conference on Wireless Communications (sponsored by the North Dakota Public Service Commission), among others.

EXPERIENCE

Chair, Department of Interdisciplinary Telecommunications University of Colorado at Boulder, 2001 - 2002

Until early 2002, Mr. Hatfield was the Chair of the Department of Interdisciplinary Telecommunications (now the Interdisciplinary Telecommunications Program) at the University of Colorado at Boulder. The ITP is the oldest interdisciplinary telecommunications program in the United States. The program had over 400 students of which approximately 40 percent were international students. Mr. Hatfield is a frequent speaker and guest lecturer on telecommunications policy matters and telecommunications technology.

Chief, Office of Engineering Technology Federal Communications Commission, 1997 - 2000

Mr. Hatfield rejoined the Federal Communications in December 1997 as Chief Technologist in the Office of Plans and Policy at the agency. In July 1998, he was appointed to the position of Chief of the Office on Engineering and Technology. His responsibilities in that position included:

1. Developing overall policies, objectives, and priorities for the Office of Engineering and Technology programs and activities; performing management functions; and supervising the execution of these policies.
2. Advising and representing the Commission on frequency allocation and spectrum usage matters, including those covered by international agreements.
3. Planning and directing broad programs for the development of information relative to communication techniques and equipment, radio wave propagation, and new uses for communications, and advising the Commission and staff offices in such matters.
4. Representing the Commission at various national and international conferences and meetings devoted to the progress of communications and the development of information and standards.
5. Conducting engineering and technical studies in advanced phases of terrestrial and space communications, and special projects to obtain theoretical and experimental data on new or improved techniques, including cooperative studies with other staff units and consultant and contract efforts as appropriate.
6. Advising the Commission and other bureaus and offices concerning spectrum management, emerging technologies, technical standards, international considerations, and national

security matters involved in making or implementing policy or in resolving specific situations involving these matters.

**Chief Executive Officer and Past President
Hatfield Associates, Inc., 1982-1997**

Mr. Hatfield founded Dale N. Hatfield Associates in 1982 as a sole proprietorship. He served as president when it was incorporated as Hatfield Associates, Inc. (HAI) in 1986 and as Chief Executive Officer and a Senior Consultant from 1994 to 1997. HAI's clients ranged from small start-up firms to some of the country's largest firms and included various government agencies as well. Service provided included engineering studies, cost and pricing studies, market research, expert testimony, strategic analyses, evaluation and preparation of business plans and regulatory applications or pleadings.

In addition to providing advice to a wide range of private firms on business related issues, Mr. Hatfield continued his twenty-five years of involvement in telecommunications policy issues. He served as chairman of a working party of the FCC's Advisory Committee on advanced Television Service, testified before Congress on numerous occasions, and participated in a host of FCC regulatory proceedings. He testified before the U.S. House of Representatives and the U.S. Senate on radio spectrum-related matters and before the Canadian Radio-television and Telecommunications Commission (CTRC) on issues relating to telecommunications regulation. He has also testified in federal and state court proceedings and before state regulatory agencies in Colorado, California, Idaho, New Mexico, Missouri, Arizona, Ohio, Connecticut, and Nevada.

Besides his work in Canada, Mr. Hatfield had extensive international experience. While serving on the Advisory Group on Telecommunications Policy of the Secretary General of the International Telecommunications Union (ITU), Mr. Hatfield contributed to the preparation of a report entitled "The Changing Telecommunications Policy Environment: Policy Considerations for the Members of the ITU" (February 1989). With the assistance of The Annenberg Washington Program and in conjunction with the American Council on Education/Business-Higher Education Forum, Mr. Hatfield managed a project involving the teaching of seminars in telecommunications in countries in Central and Eastern Europe.

Mr. Hatfield was closely involved in the development of advanced education programs in telecommunications fields in conjunction with universities across the country. He was the founding director of the Telecommunications Division at the University College at the University of Denver. He also taught telecommunications policy and regulation courses on an adjunct basis at the University of Colorado at Boulder and at Pace University in White Plains, N.Y. He was a Senior Fellow of Northwestern University's Annenberg Washington Program in Telecommunications Policy Studies in Washington, D.C. through 1995.

**Deputy Assistant Secretary of Commerce for Communications and Information
U.S. Department of Commerce, 1981-1982**

Mr. Hatfield's broad-based telecommunications work in Washington, D.C. included serving as Acting Assistant Secretary of Commerce and the Deputy Assistant Secretary of Commerce for Communications and Information. In these positions, Mr. Hatfield formulated, developed, and

implemented Executive Branch policies in telecommunications. By delegation, the Assistant Secretary served as the President's principal advisor and spokesperson on telecommunications policy. In this position, Mr. Hatfield was responsible for the day-to-day operation and management of the National Telecommunications and Information Administration (NTIA). He supervised Associate Administrators; developed Agency goals and objectives; and developed and executed the Agency's budget. He oversaw the Agency's applied scientific and engineering research and its radio spectrum management activities. NTIA had a total budget of approximately \$30M and employed more than 300 people.

Associate Administrator for Policy Analysis and Development
National Telecommunications and Information Administration, 1979-1981

While serving as Associate Administrator for Policy Analysis and Development for the National Telecommunications and Information Administration, Mr. Hatfield was responsible for developing NTIA and Executive Branch positions on common carrier communications, broadcast, cable television, mobile radio and related telecommunications and information policy issues. One of his major responsibilities was analyzing, developing, and advocating positions on domestic common carrier legislation and on the federal Communications Commission's Computer Inquiry II. He testified before both Houses of Congress and spoke before numerous industry and user groups. Mr. Hatfield reported to the Assistant Secretary of Commerce for Communications and Information and supervised a multidisciplinary staff of approximately 60 people. Between 1977 and 1979 he also held two engineering/policy support positions with NTIA.

Chief, Office of Plans and Policy
Federal Communications Commission, 1975-1977

While serving as Chief, Office of Plans and Policy for the Federal Communications Commission, Mr. Hatfield served as principal advisor to the Chairman of the Commission on long-term telecommunications policy planning. He reviewed Commission actions and outside technical, economic, and social developments to identify significant long-range policy issues; carried out interdisciplinary studies; provided recommendations on major Commission actions and managed the Commission's research program.

Deputy Chief, Office of Studies and Analysis
Office of Telecommunications Policy, Executive Office of the President, 1974-1975

Prior to his work with the Office of Plans and Policy, Mr. Hatfield served as Deputy Chief, Office of Studies and Analysis, Office of Telecommunications Policy, Executive Office of the President. In this White House agency, he developed policy and managed research on domestic telecommunications policy issues. His particular emphasis was on the common carrier and mobile communications area. From 1971 through 1974 he held various communications policy analyst positions within the Office of Telecommunications in the Department of Commerce.

Electronic Engineer
Institute for Telecommunication Sciences, U.S. Department of Commerce, 1963-1971

Mr. Hatfield conducted large scale communications systems engineering studies and supervised spectrum engineering studies.

Production Engineer

Steward Warner Electronics, 1961-1963

Mr. Hatfield was responsible for production, testing, inspection, and troubleshooting of communications equipment.

EDUCATION

B.S. (1960) Electrical Engineering, Case Institute of Technology.

M.S. (1961) Industrial Management, Purdue University.

In addition, Mr. Hatfield has pursued further graduate study in business, communications, engineering, mathematics, and operations research at Case-Western Reserve University, Illinois Institute of Technology, and the University of Colorado.

OTHER ACTIVITIES AND AWARDS

Mr. Hatfield received a Department of Commerce Silver Medal for contributions to domestic communications satellite policy (1973). In 1999, he received the Attorney General's Distinguished Service Award and, later, he received the PCIA Foundation's Eugene C. Bowler award for exceptional professionalism and dedication in government service and the Federal Communications Commission's Gold Medal Award for distinguished service. More recently, he received the Distinguished Engineer award from the University of Colorado at Boulder. In 2003, he was elected to the Wireless Hall of Fame in the United States. He currently is a Fellow of the Radio Club of America. Mr. Hatfield currently serves on the board of directors of Crown Castle International and, until recently, served on the board of directors of KBDI TV-12 Public Television in Denver.

COUNTRY EXPERIENCE

Mr. Hatfield has worked/consulted in the following countries: Romania, Poland, Hungary, Bulgaria, Czech Republic, Slovakia, Slovenia, Guatemala, Barbados, Anguilla, Indonesia, Australia, Ghana, Nigeria, El Salvador, Namibia, Laos, Canada, South Africa, Tunisia, Egypt and Jordan, among others.

PERSONAL

Born February 9, 1938, at Dayton, Ohio; married; amateur radio operator (W0IFO).

CONTACT INFORMATION

Dale N. Hatfield

Adjunct Professor, Interdisciplinary Telecommunications Program

University of Colorado at Boulder
Engineering Center, ECOT-311
Campus Box 530
Boulder, CO 80309-0530
Main Tel: +1 303 492 8916
Direct Dial: +1 303 492 6648
Fax: +1 303 492 1112
Cellphone: +1 303 589 4546
Email: hatfield@spot.colorado.edu
Web Site: <http://itp.colorado.edu>

Home/Business Address:

2110 Mesa Drive
Boulder, CO 80304
Tel: +1 303 449 1706
Fax: +1 303 440 8664
Cellphone: +1 303 589 4546
Email: dale.hatfield@ieee.org

