Innovative Spectrum Sharing Technology Day

Co-hosted by

U.S. Commerce Department's
National Telecommunications and Information Administration (NTIA) and
the National Institute of Standards and Technology (NIST)

Tuesday, November 5, 2013 10:00 am to 3:00 pm EST

U.S. Department of Commerce, Herbert C. Hoover Building Auditorium and Lobby 1401 Constitution Avenue, N.W., Washington, D.C. (Entrance on 14th Street between Pennsylvania and Constitution Avenues, NW)

Agenda

Morning Session (10:00 am to 12:15 pm) – Auditorium

Welcome/Introductory Remarks (10:00 am to 10:40 am)

The Honorable Patrick D. Gallagher (bio)

Acting Deputy Secretary of Commerce, Under Secretary of Commerce for Standards and Technology, and Director of NIST

The Honorable Lawrence E. Strickling (bio)

Assistant Secretary of Commerce for Communications and Information and Administrator of NTIA

Dr. Jason Furman (bio)

Chairman, Council of Economic Advisers, Executive Office of the President

Panel Discussion: Spectrum Sharing Policy and Research Initiatives (10:40 am to 11:50 am)

Panelists:

Byron Barker, Co-Chair, Wireless Spectrum Research and Development Senior Steering Group (<u>WSRD SSG</u>), and Chief, Strategic Planning Division, Office of Spectrum Management, NTIA (<u>bio</u>)

Dr. Jason Boehm, Director, Program Coordination Office, Office of the Director, NIST (bio)

Dr. John Chapin, Program Director, Defense Advanced Research Projects Agency (DARPA) (bio)

Dr. Andrew Clegg, Co-Chair, WSRD SSG, Program Director, National Science Foundation (NSF) (bio)

Julius Knapp, Chief, Office of Engineering and Technology, Federal Communications Commission (FCC) (bio)

Karl Nebbia, Associate Administrator, Office of Spectrum Management (<u>OSM</u>), NTIA (bio)

Thomas Power, Deputy Chief Technology Officer, Telecommunications, Office of the Chief Technology Officer, Office of Science and Technology Policy (OSTP) (bio)

John Quinlan, Analyst/Program Examiner, Office of Management and Budget (bio)

Moderator: Peter Tenhula, Senior Advisor, Office of the Assistant Secretary, NTIA (bio)

Overview of Exhibits and Demonstrations (11:50 am to 12:15 pm)

Afternoon Exhibits and Demonstrations (12:30 pm to 3:00 pm)

Participants: Demonstration/Exhibit

- Cantor Fitzgerald & Co: radio frequency exchange for purposes of creating a market for spectrum use rights.
- Dynamic Spectrum LLC/Stevens Institute of Technology: dynamic spectrum sharing and management capabilities over Wi-Fi and 4G networks for public safety communications.
- Google Inc.: Spectrum Access System with ability to ensure non-interference between a mix of primary, secondary, and tertiary users; TV band device spectrum sharing database.
- · *Idaho National Laboratory*: spectrum agile RF cognitive radio platform based on Filter Bank Multi-Carrier Spread Spectrum technology.
- Illinois Institute of Technology Wireless Communications and Networks Research Center: low-cost spectrum sensors performing spectrum occupancy audits and supporting spectrum sharing and dynamic spectrum access.
- *InterDigital Communications Inc.*: live video/FTP streaming over 4-channel aggregated TV white space link with timely detection of TV signals and interface to database.
- Qualcomm Inc./Nokia Solutions and Networks: Authorized Shared Access technology for U.S. 3.5 GHz and Europe 2.3 GHz bands.
- Shared Spectrum Company/Corning Inc.: spectrum sensing to improve spectrum efficiency in current bands while enabling new capacity in bands such as TVWS.
- *Silicon Image:* A robust system of 6 WirelessHD video links with full high definition 1080P60 video and less than 6 ms of latency.

• *xG Technology Inc.*: xMax cognitive radio networking operating in shared spectrum bands.

Contacts:

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Additional Information:

<u>Presidential Memorandum</u>: "Expanding America's Leadership in Wireless Innovation" (June 14, 2013) (Fact Sheet) (NTIA/OSTP Blog Post)

<u>Presidential Memorandum</u>: "Unleashing the Wireless Broadband Revolution" (June 20, 2010)

Press Release, "NTIA and NIST to Host Innovative Spectrum Sharing Technology Day Event" (Oct. 21, 2013) and Federal Register Notice (Oct. 28, 2013).

Innovative Spectrum Sharing Technology Day Event Page on NIST Web Site.

NITRD, Wireless Spectrum Research and Development Senior Steering Group (WSRD SSG), Testing Facility Portal at NTRD.gov and Data.gov.

Press Release, "NIST and NTIA Announce Plans to Establish New Center for Advanced Communications" (June 14, 2013).

DARPA, Advanced RF Mapping (<u>RadioMap</u>) program and Shared Spectrum Access for Radar and Communications (<u>SSPARC</u>) program.

NSF, Enhancing Access to the Radio Spectrum (EARS) program.