



Overview

Bob Johnk, Project Leader, Propagation Model Validation

ISART Workshop on Best Measurement Practices
July 26, 2018

Institute for Telecommunication Sciences (NTIA/ITS)

325 Broadway St

Boulder, Colorado USA 80305

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Workshop Overview

Purpose: To showcase propagation measurements research that has been done at the Boulder Commerce Laboratories

- Making better measurements-best practices
- How to verify and make sure we are performing good measurements

and...

- What can go wrong with our data if we are not careful how we perform measurements

Part I: The Talks

1. Propagation Measurement Systems

Bob Johnk (NTIA/ITS), Jeanne Quimby (NIST-CTL), and Erik Hill (NTIA/ITS)

2. Mobile Channel Best Measurement Practices

Chriss Hammerschmidt and Anna Paulson (NTIA/ITS)

3. Precision Channel Sounder Verification

Jeanne Quimby (NIST-CTL)

4. Mobile Channel Screening Measurements

Mark McFarland (NTIA/ITS)

5. Propagation Measurement Pathologies

Bob Johnk (NTIA/ITS)

Part II: The Demos

- 1. Short-range indoor CW propagation measurement**
Bob Johnk, Chriss Hammerschmidt, Erik Hill
(NTIA/ITS)
- 2. How nonlinearities in an amplifier can cause anger, frustration, insecurity, sleepless nights, ruined marriages, and hateful children**
Bob Johnk, Chriss Hammerschmidt, Erik Hill
(NTIA/ITS)
- 3. A Channel Sounder Verification Box**
Jeanne Quimby (NIST-CTL)