



International Symposium on Advanced Radio Technologies (ISART)

Tuning for Precision: Best Practices for Measurements and Models

July 26, 2018

Panel Format



- Introductions
- Discussion
- Audience Q&A

Lorne Liechty
EDX Wireless, Inc.
Moderator



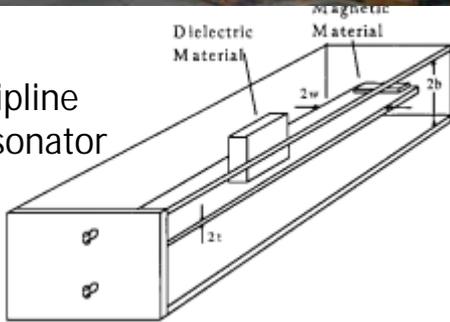
Chriss Hammerschmidt

- Federal Government Employee for 28 years
 - NIST – 20 years
 - ITS – 8 years
- Research Areas
 - NIST
 - Electromagnetic Properties of Materials
 - Noise Measurements
 - Time-Domain Measurements
 - ITS
 - Spectrum Monitoring
 - Propagation Measurements

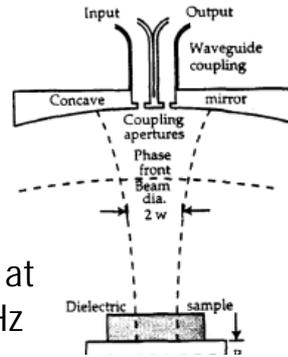
Shielding of Orbiter



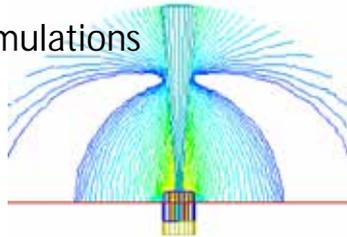
Stripline Resonator



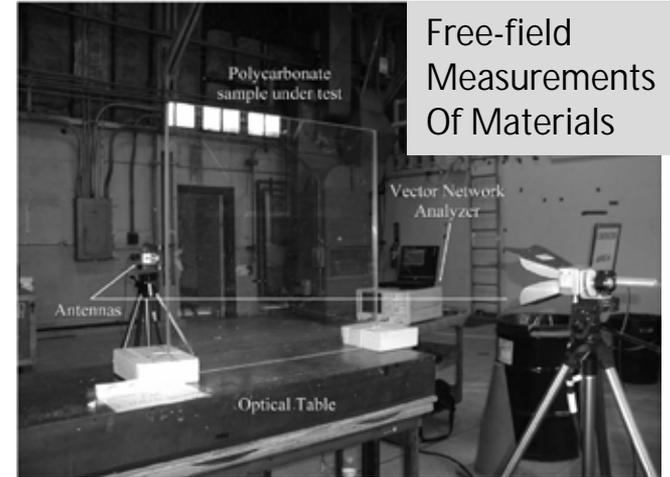
Fabry Perot at 60 GHz



Simulations



Free-field Measurements Of Materials



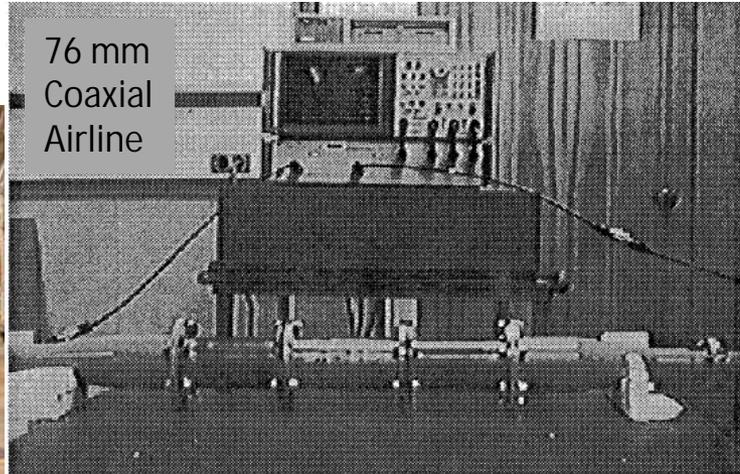
Shielding of Aircraft



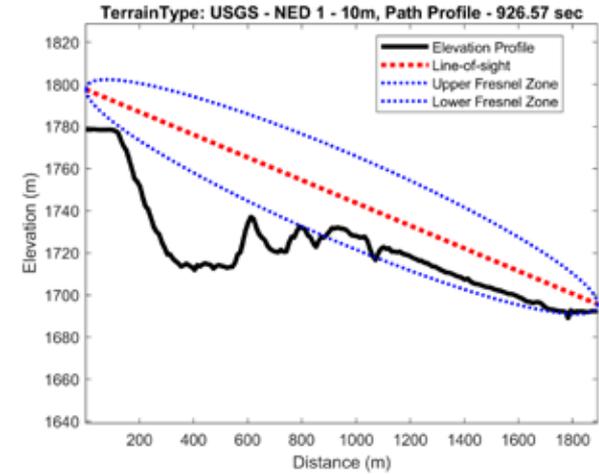
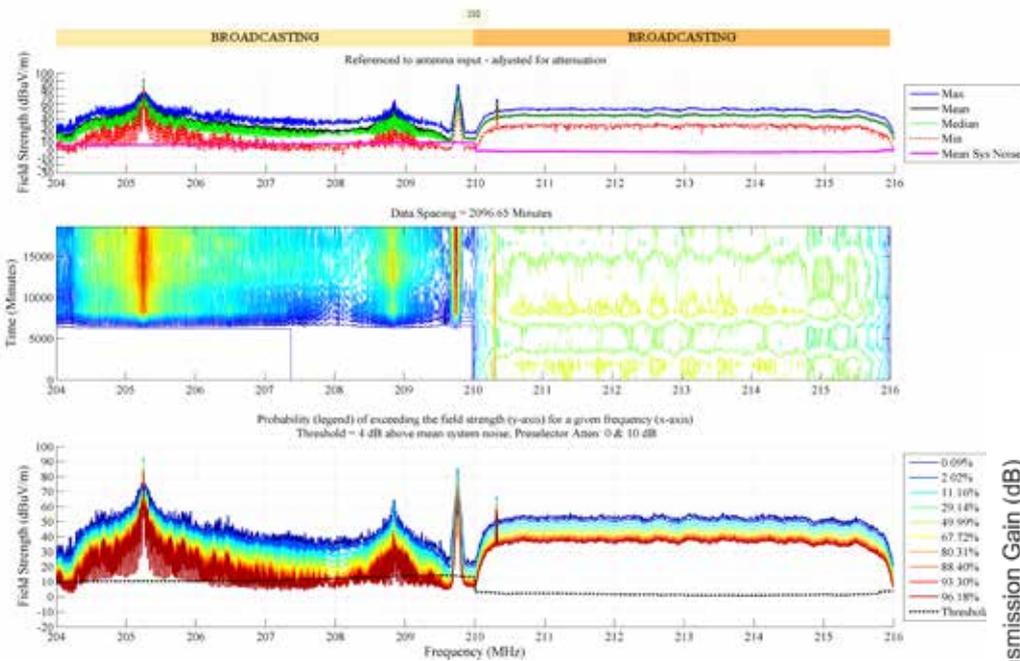
Building Propagation



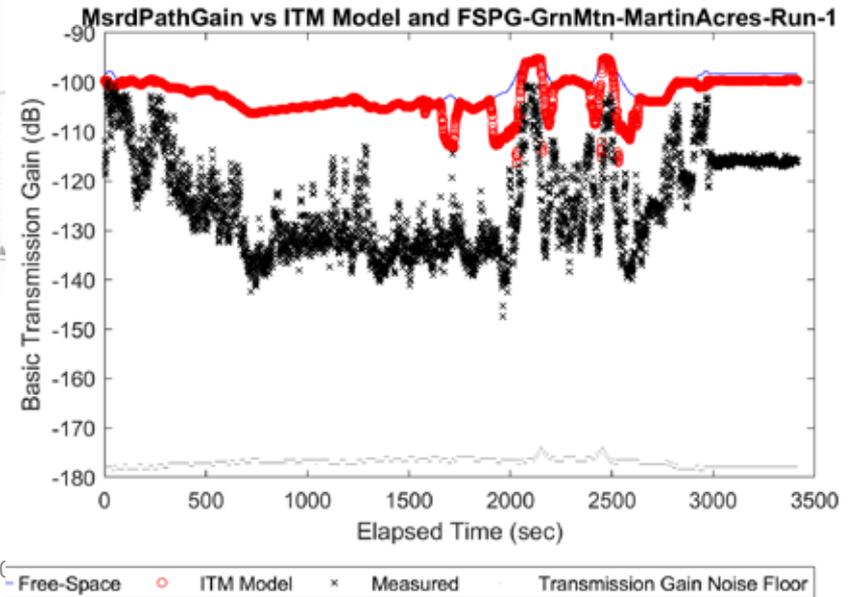
76 mm Coaxial Airline



Spectrum Survey



Propagation Measurements



CableLabs®

RF Propagation Models and Measurements for Small Cells

CableLabs

July, 2018

Mark Poletti

Director, Wireless

m.poletti@cablelabs.com

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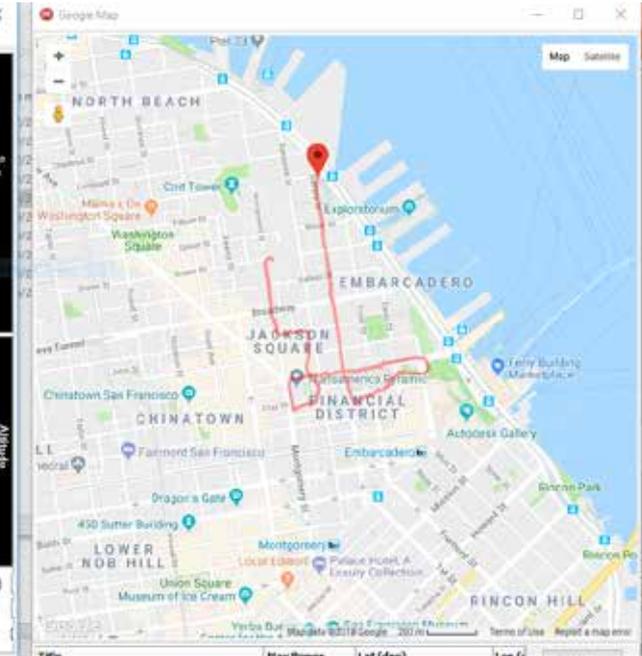
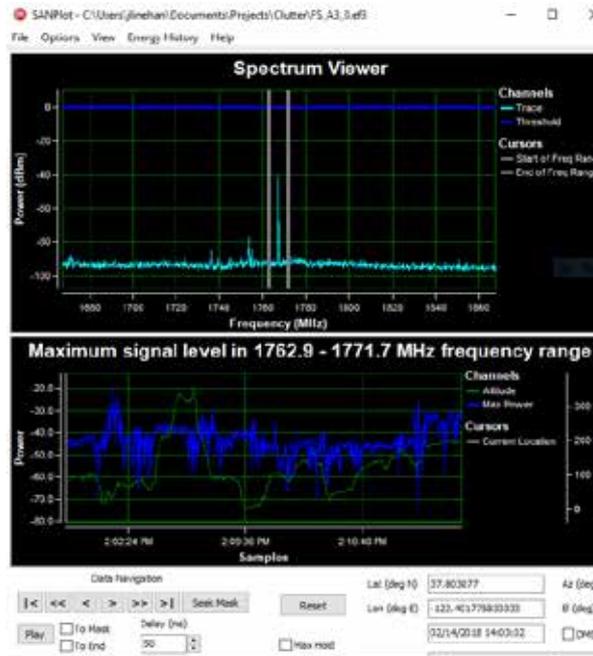
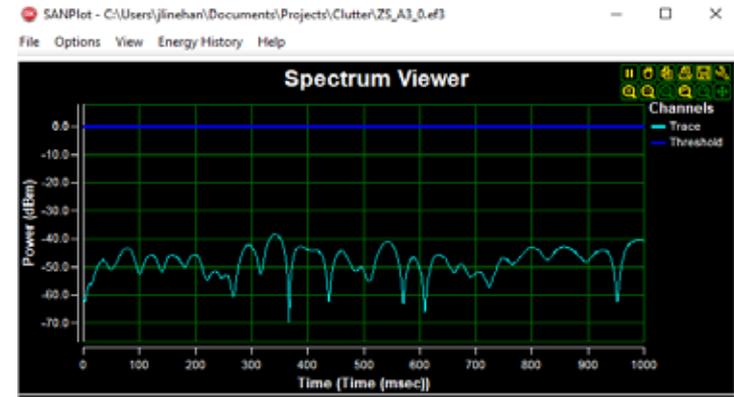
Jim Linehan

- Electrical engineer (BSEE/MSEE)
- RF and EMC measurement background, emphasis practical versus theoretical
- Supported DoD, Federal Agencies, Commercial Projects for 42 years
- Experience
 - RF/EMC measurements (frequency response, gain compression, intermodulation, coupling, etc.)
 - Antenna Characteristics (gain, pattern, off-axis response, etc.)
 - RF surveys (occupancy, unregistered emitters, RFI)
 - Spectrum monitoring system development and deployment
 - Electromagnetic compatibility measurements
 - Measurement automation and data processing
- Current projects
 - Spectrum monitoring system development
 - Ground-to-Ground Clutter Measurements for DSO (consulting)

ALION



SATCOM
RFI Mitigation



RF Surveys

Propagation Measurements

Jeanne Quimby

