

November 15, 2016, 6:00 PM – 8:00 PM
Wegmans East Avenue, Timber Room
1750 East Avenue, Rochester, NY 14610

**Rochester Section Joint Microwave Theory and Techniques &
Antennas and Propagation Society presents:**

Phase Noise: From Theory to Measurement

Presented by:

Gregory Bonaguide

Senior Product Line Manager:

Spectrum Analyzers and Vector Network Analyzers

Rohde & Schwarz USA Inc.

Abstract:

An ideal oscillator would produce energy at a single frequency. However, any real source will have energy not only at the oscillator's resonant frequency but also frequencies close to the desired signal. This additional undesired energy is called phase noise. In this talk, we will consider the origin of phase noise in microwave oscillators, and we shall discuss how phase noise can lead to reciprocal mixing and desensitization issues in receivers. Furthermore, we will consider how it is measured using techniques such as the delay line method as well as cross correlation methods. Finally, we will demonstrate the measurement of phase noise using Rohde & Schwarz analyzers.

Dinner:

A buffet dinner with options including chicken french, cheese lasagna, and pulled pork sliders will be provided by the MTT / AP Society. The dinner will be held in the Timber Room at Wegmans East Avenue. There is no fee for the dinner, but registration is required.

Agenda:

- 6:00 PM – 6:30 PM: Arrive, mingle, eat
- 6:30 PM – 7:30 PM: Presentation
- 7:30 PM – 8:00 PM: Q&A, Continued discussions, etc.

Registration:

Space is limited in the Timber Room, so register early.

<https://meetings.vtools.ieee.org/m/41684>

