

IN PARTNERSHIP WITH TESTFORCE AND SPIRENT

EFFECTIVE GPS/GNSS TEST & SIMULATION FOR CUBE/NANO SATELLITES

DATE: OCTOBER 8, 2019



LOCATION: UNB - FREDERICTON, NB

IN THIS SHORT SEMINAR, SPIRENT & TESTFORCE WILL DISCUSS CHANGES IN TEST AND SIMULATION FOR POSITIONING, NAVIGATION AND TIMING AS IT RELATES TO CUBE/NANO SATELLITES.

Topics covered will include:

- Quick intro of Spirent
- Overview of trends for nano/cube Satellites
- Positioning, Navigation & Timing & Brief GNSS/GPS Technology Updates
- Sensor fusion & leveraging multiple technologies for navigation & positioning
- GPS/GNSS interference potential
- Common mistakes and lessons learned
- The need for and benefits of simulation
- Multi-RF simulation for attitude determination using GNSS (most space applications have either 2 receivers or 2 antennas)
- External Satellite motion data can be fed into simulator (Hardware in the Loop)
- Simulation & Testing does not have to be expensive

Spirent has been developing and integrating test systems for all aspects of satellite & aerospace systems for close to 40 years. Over that time we've built up a wealth of knowledge on the industry - from research and development, through to production testing.

Speaker: Robert Burke/Americas Director - Positioning, Navigation & Timing