

# IEEE Southeastern Michigan Joint Event w/ University of Michigan-Dearborn

Presents: David P. Grybos, PhD

## Satellite Constellations or Why So Many Satellites?



In this talk David P Grybos, PhD, an alumnus of UM-Dearborn, will present a general overview and discussion on some of the key LEO Satellite Communications System Design drivers. The focus will be mainly on Illustration, discussion, not necessarily derivation. He will also talk about Starlink capabilities using his assumptions based on the design of other systems.

After the main talk, we will have presentations from campus student engineering organizations and a talk from Sharan Kalwani of the IEEE Southeastern Michigan Section – one of the largest in the Midwest. Of course, we will have plenty of pizza, desserts, soda pop and other refreshments + useful door prizes, techy give away tools for all those who attend in person!

### Speaker Bio:

David Grybos, is a UofM Dearborn BSE (EE) 1976, MSE, PhD in Electrical Engineering Purdue 1977, 1980 in the field of Communications, Satellite, Spread Spectrum. He retired from Space Systems Loral - SSL (originally Ford Aerospace, now Maxar Space Solutions) as Chief Architect US Government Systems. His first project was the first full-processing demodulation-remodulation satellite payload. His last commercial project was a Satellite Digital Payload (A multi-channel DSP transponder). Over the years he has helped build many other payloads and satellites, USG, Teledesic, even SmallSats. After retirement, he now builds things in his Home Shop.

### \*Pre-Registration Required!

<https://events.vtools.ieee.org/m/413790>



### Quick Summary

#### • When:

Date: April 4<sup>th</sup>, 2024

Time: 05:00 – 8:00 PM  
(EST/EDT)

#### • Where:

Room IAVS-1011  
4901 Evergreen Road,  
Dearborn, MI 48128

**Audience: OPEN to ALL**

*Door Prizes &  
Refreshments will be served\**

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&  
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