

## Analyzing Ground-Based Electronically Steerable Arrays (ESA) Used for Communications with Non-Geo Stationary (NGSO) Satellites

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**Speaker Biography:** David Novotny received the B.S. and M.S. degrees in electrical engineering from the University of Colorado, Boulder, in 1990 and 1996. From 1990 to 2020, he was a researcher at the National Institute of Standards and Technology in Boulder, CO. His work in electromagnetics included antenna design, EM field generation, antenna and probe calibrations, and EM propagation. He was awarded the Department of Commerce Gold Medal for security and performance analysis of the ePassport, the Silver Medal for using coordinated robotics for antenna characterization, and Bronze Medals for RF shielding of the Space Shuttle, Wireless propagation in industrial environments, and RF security of electronic documents. Since 2020 he has been with the EMI Group at SpaceX, where he has enjoyed working on EM tasks for Falcon, Dragon, Starship, and Starlink. David is the happy husband of Michelle Novotny, proud father of three daughters: Hillary, Whitney, and Katie, and ecstatic grandfather of Gabriel Killian, Monica, and Caulder.



**Speaker Biography:** Leszek M. Langiewicz graduated from Electronic Science Institute, Wroclaw, Poland, in Computer Systems; he received a B.S. degree in electrical engineering from Concordia College and University. His career started at Absopulse Electronics and continued at Nortel/Nortel Networks, Phogenix, Encad/Kodak, and HP where he was a Regulatory Compliance Manager for a broad spectrum of products for consumer, commercial, and telecom applications. Leszek is an associate member of Technical Committee (TC) TC SES ETSI Satellite Earth Stations and Systems, IEC/TC108, UL/CSA THC and is an IEEE Senior Member. Since 2020, he has been with SpaceX managing the Starlink Product Compliance team.