



**David K. Mesecher** (M'95–SM'01) holds a bachelor degree in electrical engineering from Rensselaer Polytechnic Institute, Troy, NY, an master's degree in electrical engineering from Polytechnic NYU, Brooklyn, NY, and a master's degree in business administration from Adelphi University, Garden City, NY.

As an Associate Technology Fellow at Northrop Grumman Aerospace Systems in Bethpage, NY, he is involved in investigating and developing wireless communications, antenna processing, target tracking and ID, precision geolocation, and sensor fusion concepts in support of Network-Centric Intelligence, Surveillance, and Recognizance (ISR). He holds 26 US patents and several foreign patents for signal processing techniques in the areas of wireless communications, adaptive antenna arrays, and real-time location systems, and has authored several papers in the areas of adaptive signal processing, target location, and communications. He previously worked at Hazeltine Corp. (now BAE) where he developed space-time adaptive processing (STAP) techniques for military spread-spectrum communications. After Hazeltine he worked at AIL Systems (now ITT) where he developed super-resolution and sensor fusion processes for signal-intelligence (SIGINT) receivers, including electronic intelligence (ELINT) and communications intelligence (COMINT) receivers. At IDC he created adaptive algorithms for wireless channel estimation, smart antennas, and cell-phone location, and at LayerOne he directed commercial wireless technology strategies.

Mr. Mesecher is a Senior Member of both the IEEE and the AIAA. He is the Chairman of the Long Island Chapter of the IEEE Communications Society, and the current General Chair and past Technical Program Committee Chair of the IEEE Long Island Systems, Applications, and Technology (LISAT) Conference. He was awarded the IEEE Regional Activities Board 2003 Large Section Award in recognition of his work as Long Island Section 2003 Chair, the IEEE Region 1 Award in 2006 in recognition of his work on the LISAT technical program committee, and the IEEE Long Island Section Charles Hirsch Award for outstanding technical contribution that has benefited Long Island, with the citation: "For innovative signal processing techniques applied to adaptive filtering, smart antennas and emitter location." Mr. Mesecher is member of the Tau Beta Pi, Eta Kappa Nu, and Delta Mu Delta honor societies.

Dave lives in Melville with his wife Margaret and their two boys Mitch and Keith.