Dr. Brian M. Kent, a member of the scientific and professional cadre of senior executives, is Senior Scientist for Low Observables and Electromagnetics, Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio. He performs and directs research and development activities at the Multi-Spectral Measurement Facility, a national Center of Excellence within the Sensors Directorate. His primary responsibilities include the development and transition of advanced low observable electromagnetic analysis and measurement techniques to the Department of Defense and their aerospace industrial partners. Dr. Kent's fundamental research interests encompass extremely broadband electromagnetic test and evaluation techniques, with special emphasis on the acquisition of measured performance data from basic 6.1/6.2 technology components through fully fielded and sustained weapon systems. In addition to his electromagnetic measurement activities, he collaborates on numerous interdisciplinary research problems that encompass multiple AFRL directorates, customers from other DoD components, as well as the manned space program managed by the National Aeronautics and Space Administration.

Dr. Kent joined the Air Force Avionics Laboratory in 1976 as Cooperative Engineering student through Michigan State University. He began his career performing research in avionics, digital flight displays, and radar signature measurements. Through a career broadening engineering assignment with the Directorate of Engineering, Aeronautical Systems Division, he modeled a number of foreign threat missile systems and performed offensive/defensive electronic combat systems assessments. He received a prestigious National Science Foundation Fellowship in 1979, wherein Dr. Kent split his time between the Air Force Wright Aeronautical Laboratories (AFWAL) and the Ohio State University Electroscience Laboratory. Upon completing the Ph.D., Dr Kent spent two years in the Passive Observables Branch of the Avionics Laboratory, before transferring to the AFWAL Signature Technology Office. From 1985-1992, Dr. Kent was involved with classified research efforts, which were managed through the Air Force Wright Laboratory, now the Air Force Research Laboratory (AFRL). During his tenure with AFRL and its predecessor organizations, Dr. Kent held the positions of in-house researcher, task team leader, program manager, division chief, research fellow, consultant, mentor and technical leader for advanced electromagnetic measurements. He has made pioneering and lasting contributions to the areas of signature measurement technology, and successfully established international standards for performing radar signature testing.

Dr. Kent has authored/co-authored more than 75 archival articles and technical reports and has written key sections of classified textbooks and design manuals. He has delivered over 200 lectures, and developed a special DoD Low Observables Short Course that has been taught to over 2,000 DoD Scientists and Engineers since its inception in 1989. Dr. Kent has provided technical advice and counsel to a wide range of Federal Agencies, including the Department of Transportation, the Department of Justice, and the Space Shuttle Program within the National Aeronautics and Space Administration. He is also an international technical adviser for the Department of Defense, and has been an invited guest lecturer to the United Kingdom's Cranwell Air War College. He has provided basic research guidance to leading academic institution, and specifically serves as a Lecturer for Georgia Tech Research Institute as well as an unpaid Adjunct Professor to the Department of Electrical and Computer Engineering at Michigan State University. In addition, he has served as thesis adviser at the Air Force Institute of Technology. He has served as Technical Coordinator, Vice President, and President of the Antenna Measurement Technique Association, and is currently an active editor for the IEEE Antenna and Wireless Propagation Letters. He also writes a technical column for the IEEE Antennas and Propagation Magazine under the byline "AMTA corner".

EDUCATION

1980 - Bachelor of Science degree in Electrical Engineering, Highest Honors, Michigan State University, East Lansing, Michigan
1981 - Master of Science degree in Electrical Engineering, The Ohio State University, Columbus, Ohio. (Studied under a National Science Foundation Fellowship)
1984 - Doctor of Philosophy degree, Electrical Engineering, The Ohio State University, Columbus, Ohio (Studied under a National Science Foundation Fellowship)

CAREER CHRONOLOGY

1. 1976 - 1977, Electrical Engineering Aid, Avionics Laboratory, Wright-Patterson Air Force Base, Ohio
2. 1977 - 1978, Electrical Engineering Aid, Passive Observables Branch, Electronic Warfare Division, Avionics Laboratory, Wright-Patterson Air Force Base, Ohio
3. 1978 - 1980, Senior Electrical Engineering Aid, Directorate of Engineering, Aeronautical Systems Division. Wright-Patterson Air Force Base, Ohio
4. 1980 - 1985, Research Engineer, Passive Observables Branch, Electronic Warfare Division, Avionics Laboratory, Air Force Wright Aeronautical Laboratories, Wright-Patterson Air Force Base, Ohio
5. 1985-1989, Low Observable Research Engineer, Signature Technology Office, Air Force Wright Aeronautical Laboratories, Wright-Patterson Air Force Base, Ohio
6. 1989-6. 1990, Senior Low Observable Research Engineer and Program Manager, Signature Technology Office, Wright Research and Development Center, Wright-Patterson Air Force Base, Ohio.
7. 1990-1991, Senior Low Observable Research Engineer and Program Manager, Signature Technology Office, Air Force Wright Laboratory, Wright-Patterson AFB, Ohio
8. 1991-1994, Principle Research Fellow and Program Manager, Signature Technology Office, Air Force Air Force Wright Laboratory, Wright Patterson Air Force Base, Ohio
9. 1994-1999, Principle Research Fellow and Program Manager, Signature Technology Office, Sensors Directorate, Air Force Research Laboratory, Wright Patterson Air Force Base, Ohio
10. 1999-2000, Division Chief, Measurements and Prediction Division, Signature Technology Office, Sensors Directorate, Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio
11. 2000-2003, Principle Research Fellow and Program Manager, Signature Technology Office, Sensors Directorate, Air Force Research Laboratory, Wright Patterson Air Force Base, Ohio
12. 2003, Temporary Detail to the Columbia Accident Investigation Board, Lead Signature Consultant, Air Force Material Command and AFRL Defense Columbia Investigation Support Office (DCIST), Air Force Research Laboratory, Wright Patterson Air Force Base, Ohio
13. 2004-2005: Principle Research Fellow, Signature Technology Office, Air Force Research Laboratory, Wright Patterson Air Force Base, Ohio
14. 2005-Present, Senior Scientist for Low Observable and Electromagnetics, Sensors Directorate, Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio

AWARDS AND HONORS

Fellow, Air Force Research Laboratory
Avionics Laboratory Samuel Burka Award (two-time winner)
Best Paper Award, National Conference of Standards Laboratory (NCSL)
AFRL Signature Technology Management Excellence Award
AFRL Signature Technology Director's Award
AFRL William F. Bahret Signature Technology Technical Achievement Award
AFRL Sensors Directorate "Directors" Award
Letter of Commendation, B-2 Systems Program Office, Aeronautical Systems Division
Columbia Accident Investigation Board Staff Recognition Award
Letter of Commendation, National Aeronautics and Space Administration
AFRL Sensors Directorate External Customer Support Award
John D. Ryder Distinguished Alumni Award, Michigan State University

PROFESSIONAL MEMBERSHIPS AND ASSOCIATIONS

Fellow, IEEE
AMTA Distinguished Technical Achievement Award
Technical Coordinator, Antenna Measurement Techniques Association
President, Antenna Measurement Techniques Association
Past President, Antenna Measurement Techniques Association
Associate Editor, Editorial board, IEEE Antenna and Wireless Propagation Letters
Associate Editor, "AMTA Corner", IEEE Antenna and Propagation Magazine
Subject Matter Expert Lead, Radar Technology, NASA Johnson Space Center
Past President, Range Commanders Council Signature Measurements and Standards Group
Member, Eta Kappa Nu, Tau Beta Pi, Phi Kappa Phi Honorary Societies