REFEREED PUBLICATIONS

1. "Tangential Electrical Field Near a Driven Thin Cylindrical Antenna," (L.D. Scott, D.V. Giri, and S.A. Long), IEEE Trans. Antennas and Propagation, Vol. AP-21, pp. 213-216, March 1973.

2. "Experimental Study of the Impedance of Cavity-Backed Slot Antennas," IEEE Trans. Antennas and Propagation, Vol. AP-23, pp. 1-7, January 1975.

3. "A Combination of Linear and Slot Antennas for Quasi-Isotropic Coverage," IEEE Trans. Antennas and Propagation, Vol. AP-23, pp. 572-576, July 1975.
4. "The Resonant Frequency of a Circular Disc, Printed-Circuit Antenna," (L.C. Shen, S.A. Long, M.R. Allerding, and M.D. Walton), IEEE Trans. Antennas and Propagation, Vol. AP-25, pp. 595-596, July 1977.

5. "A Mathematical Model for the Impedance of the Cavity-Backed Slot Antenna," IEEE Trans Antennas and Propagation, Vol. AP-25, pp. 829-833, November 1977.

6. "Theory of the Circular-Disc Printed-Circuit Antenna," (S.A. Long, L.C. Shen and P.B. Morel), Proc. IEE, Vol. 125, pp. 925-928, October 1978.

7. "The Impedance of the Circular-Disc Printed-Circuit Antenna," (S.A. Long, L.C. Shen, M.D. Walton, and M.R. Allerding), Electronics Letters, Vol. 14, No. 21, pp. 684-687, October 12, 1978.

8. "A Dual Frequency, Stacked Circular Disc Antenna," (S.A. Long and M.D. Walton), IEEE Trans. Antennas and Propagation, Vol. AP-27, pp. 270-273, March 1979.

9. "Measurement of the Radiated Fields of a Buried Antenna at VHF," (F. Vaziri, S.C.F. Huang, S.A. Long and L.C. Shen), Radio Science, Vol. 15, pp. 743-744, July 1980.

10. "The Impedance of a Single-Turn Coil Near a Conducting Half Space," (A.J.M. Zaman, C.G. Gardner and S.A. Long), Journal of Nondestructive Evaluation, Vol. 1, No. 3, pp. 183-189, September 1980.

11. "An Experimental Study of the Circularly Polarized, Elliptical Printed-Circuit Antenna," (S.A. Long, L.C. Shen, D.H. Schaubert and F. Farrar), IEEE Trans. Antennas and Propagation, Vol. AP-29, pp. 95-99, January 1981.

12. "Impedance of a Loop Surrounding a Conducting Cylinder," (A.J.M. Zaman, C.G. Gardner and S.A. Long), IEEE Trans. Instrumentation and Measurement, Vol. IM-30, pp. 41-45, March 1981.

13. "The Change in Impedance of a Single-Turn Coil Due to a Flaw in a Conducting Half Space," (A.J.M. Zaman, C.G. Gardner and S.A. Long), Journal of Nondestructive Evaluation, Vol. 3, No. 1, pp. 39-45, March 1982.

14. "The Impedance of an Elliptical Printed-Circuit Antenna," (S.A. Long and M.W. McAllister), IEEE Trans. Antennas and Propagation, Vol. AP-30, pp. 1197-1200, November 1982.

15. " Nondestructive Measurement of a Dielectric Layer Using Surface Electomagnetic Waves," (Weiming Ou, C.G. Gardner and S.A. Long), IEEE Trans. Microwave Theory and Techniques, Vol. MTT-31, pp. 255-261, March 1983.

16. "Rectangular Dielectric Resonator Antenna," (M.W. McAllister, S.A. Long, and G.L. Conway), Electronics Letters, Vol. 19, No. 6, pp. 218-219, March 17, 1983.

17. "The Resonant Cylindrical Dielectric Cavity Antenna," (S.A. Long, M.W. McAllister and L.C. Shen),

IEEE Trans. Antennas and Propagation, Vol. AP-31, pp. 406-412, May 1983.

18. "Experimental Measurements of the Eddy Current Signal Due to a Flawed, Conducting Half Space," (S.A. Long, S. Toomsawasdi, and A.J.M. Zaman), Nondestructive Testing Communications, Vol 1, No. 3, pp. 105-110, 1983.

19. "Experimental and Theoretical Investigation of the Inductance Associated with a Microstrip Antenna Feed," (W.F. Richards, J.R. Zinecker, R.D. Clark, and S.A. Long), Electromagnetics, Vol. 4, No. 3-4, pp. 327-346, September 1983.

20. "The Change in Impedance of a Single-Turn Coil Due to a Flaw in a Coaxial Conducting Cylinder," (A.J.M. Zaman, S.A. Long, C.G. Gardner and W.F. Richards), IEEE Trans. Instrumentation and Measurements, Vol. IM-33, No. 1, pp. 5-10, March 1984.

21. "A Theoretical and Experimental Investigation of Annular, Annular Sector, and Circular Sector Microstrip Antennas," (W.F. Richards, J.D. Ou, and S.A. Long), IEEE Trans. Antennas and Propagation, Vol. AP-32, pp. 864-867, August 1984.

22. "Resonant Hemispherical Dielectric Antenna," (M.W. McAllister and S.A. Long), Electronics Letters, Vol. 20, No. 16, pp. 657-659, August 2, 1984.

23. "Dual Band, Reactively Loaded Microstrip Antenna," (W.F. Richards, S.E. Davidson, and S.A. Long), IEEE Trans. Antennas and Propagation, Vol. AP-33, pp. 556-561, May 1985.

24. "Determining Intraocular Lens Power Within the Eye," (J.T. Holladay, S.A. Long, J.W. Lewis, T.C. Prager, C.E. Koester, K.A. Bourgeois, and T.L. Winn), American Intraocular Implant Society Journal, Vol. 11, pp. 353-363, July 1985.

25. "Dual-Band Microstrip Antennas with Monolithic Reactive Loading," (S.E. Davidson, S.A. Long, W.F. Richards), Electronics Letters, Vol. 21, No. 20, pp. 936-937, September 26, 1985.

26. "An Experimental Investigation of Electrically Thick Rectangular Microstrip Antennas," (E. Chang, S.A. Long, and W.F. Richards), IEEE Trans. Antennas and Propagation, Vol. AP-34, pp. 767-772, June 1986.

27. "The Input Impedance of the Dielectric Resonator Antenna," (S.A. Long and M.W. McAllister), International Journal of Infrared and Millimeter Waves, Vol. 7, No. 4, pp. 555-570, 1986.

28. "Reactively Loaded Microstrip Antennas," (W.F. Richards and S.A. Long), IEEE Antennas and Propagation Society Newsletter, Vol. 28, No. 5, pp. 11-17, October 1986.

29. "The Input Impedance of a Monopole Antenna Mounted on Cubical Conducting Box," (S. Bhattacharya, S.A. Long, and D.R. Wilton), IEEE Trans. Antennas and Propagation, Vol. AP-35, pp. 756-762, July 1987.

30. "Resonant Frequency of Electrically Thick Rectangular Microstrip Antennas," (R. Garg and S.A. Long), Electronics Letters, Vol. 23, No. 21, pp. 1149-1151, October 8, 1987.

31. "An Improved Formula for the Resonant Frequencies of the Triangular Microstrip Patch Antenna," (R. Garg and S.A. Long), IEEE Trans. Antennas and Propagation, Vol. AP-36, No. 4, p. 570, April 1988.

32. "Microstrip Transmission Line Excitation of Dielectric Resonator Antennas," (R. Kranenburg and S.A. Long), Electronics Letters, Vol. 24, No. 18, pp. 1156-1157, September 1, 1988.

33. "Impedance Control of Microstrip Antennas Using Reactive Loading," (A. Ali-Khan, W.F. Richards, and S.A. Long), IEEE Trans. Antennas and Propagation, Vol. 37, No. 2, pp. 247-251, February 1989.

34. "Subtraction of Edge Diffracted Fields in Antenna Radiation Patterns for the Simulation of an Infinite Ground Plane," (H.J. Delgado, J.T. Williams, and S.A. Long), Electronics Letters, Vol. 25, No. 11, pp. 694-695, May 25, 1989.

35. "A Moment Method Design Procedure for an Array of EMC Dipoles," (D.R. Jackson, A.E. Dinbergs, and S.A. Long), IEEE Trans. Antennas Propagation, Vol. AP-38, No. 5, pp. 766-770, May 1990.

36. "Microstrip Characterization of High Temperature Superconducting Thin Films Using a Stripline Resonator," (A.D. MacDonald, S.A. Long, J.T. Williams, D.R. Jackson, C.L. Lichtenberg, M.L. Davis, J.L. Wosik, and J.C. Wolfe), Microwave and Optical Technology Letters, Vol. 3, No. 6, pp. 221-224, June 1990.

37. "High Temperature Superconductors and Their Application in Passive Antenna Systems," (J.T. Williams and S.A. Long), IEEE Antenna and Propagation Society Magazine, Vol. 32, No. 4, pp. 7-18, August 1990.

38. "Antenna Pattern Measurement Technique for Eliminating the Fields Scattered from the Edges of a Finite Ground Plane," (H.J. Delgado, J.T. Williams, and S.A. Long), IEEE Trans. Antennas and Propagation, Vol. AP-38, No. 11, pp. 1815-1822, November 1990.

39. "The Radiation Pattern of a Monopole Antenna Attached to a Conducting Box," (A.W. Chu, S.A. Long, and D.R. Wilton), IEEE Trans. Antennas and Propagation, Vol. AP-38, No. 12, pp. 1907-1912, December 1990.

40. "Coplanar Waveguide Excitation of Dielectric Resonator Antennas," (R.A. Kranenburg, S.A. Long, and J.T. Williams), IEEE Trans. Antennas and Propagation, Vol. AP-39, No. 1, pp. 119-122, January 1991.

41. "Comments on an Improved Formula for the Resonant Frequency of a Triangular Microstrip Antenna," (R. Garg and S.A. Long), IEEE Trans. Antennas and Propagation, Vol. AP-39, No. 9, pp. 1444-1445, September 1991.

42. "High Temperature Superconductors," (S.A. Long and J.T. Williams), IEEE Potentials, Vol. 10, No. 4, pp. 37-40, December 1991.

43. "Dipoles and Monopoles," (C.T. Tai and S.A. Long), Antenna Engineering Handbook, McGraw Hill, 1992.

44. "Microstrip Patch Designs Which Do Not Excite Surface Waves," (D.R. Jackson, J.T. Williams, A.K. Bhattacharyya, R.L. Smith, S.J. Buchheit, and S.A. Long), IEEE Trans. Antennas Propagation, Vol. 41, No. 8, pp. 1026-1037, August 1993.

45. "Nonlinear Behavior in the Power-Dependent Surface Resistance of High-Tc Superconducting Thin Films: Heating Effects," (J.Wosik, L.M. Xie, D. Li, J.H. Miller, Jr., and S.A. Long), Czechoslovak Journal of Physics, Vol. 46, p. 1133, 1996.

46. "Computer-Aided Design of Rectangular Microstrip Antennas", (D.R. Jackson, S.A. Long, J.T. Williams, and V.B. Davis), Advances in Microstrip and Printed Antennas, pp. 223-271, 1997.

47. "Superconducting Microstrip Antennas", (J.T. Williams, J.D. Morrow, D.R. Jackson, and S.A. Long), Advances in Microstrip and Printed Antennas, pp. 325-370, 1997

48. "Open Resonator Mode Patterns for Characterization of Anisotropic Dielectric Substrates for HTS Thin Films", (T. Harrington, J. Wosik, and S.A. Long), IEEE Transactions on Applied Superconductivity. Vol. 7, No. 2, pp 1861-1864, 1997.

49. "Thermally-Induced Nonlinearities in the Surface Impedance of Superconducting YBCO Thin Films", (J. Wosik, D. Li, L.M. Xie, J.H. Miller, Jr.,and S.A. Long), IEEE Transactions on Applied Superconductivity, Vol. 7, No. 2, pp. 1470-1473, 1997.

50. "Power Handling Capabilities of Superconducting YBCO Films: Thermally Induced Nonlinearity Effects", (J. Wosik, L.M. Xie, K. Nesteruk, D. Li, J.H. Miller, Jr., and S.A. Long), Jounal of Superconductivity, Vol. 10, pp. 97-108, 1997.

51. "Microwave Power Handling Capability of HTS Superconducting Thin Films: Weak Links and Thermal Effects Induced Limitation", (J. Wosik, L.M. Xie, R. Grabovickic. T. Hogan, and S.A. Long), IEEE Transactions on Applied Superconductivity, Vol. 9, pp. 2456-2459, June 1999.

52. "Circularly Polarized 20 GHz High Temperature Superconducting Microstrip Antenna Array," (J.D. Morrow, J.T. Williams, M.F. Davis, D. Licon, D.H.R. Rampersad, D.R. Jazdyk, S.A. Long, and J.C. Wolfe), IEEE Trans. Applied Superconductivity, Vol. 9, pp.4725-4732, Dec. 1999.

53. "Mutual Coupling Between Reduced Surface-Wave Microstrip Antennas", M. A. Khayat, J. T. Williams, D. R. Jackson and S. A. Long, IEEE Trans. Antennas Propagation, Vol. 48, pp. 1581-1593, Oct. 2000.

54. "The Dependence of the Input Impedance on Feed Position of Probe and Microstrip Line Fed Patch Antennas", L. I. Basilio, M. A. Khayat, J. T. Williams, and S. A. Long, IEEE Trans. Antennas Propagation, Vol. 49, pp. 45-47, Jan. 2001.

55. "Use of Parasitic Strip to Produce Circular Polarisation and Increased Bandwidth for Cylindrical Dielectric Resonator Antenna", R.T. Long, R.J. Dorris, S.A. Long, M.A. Khayat, and J.T. Williams, Electronics Letters, Vol. 37, No. 7, pp. 406-408, Mar. 2001.

56. "Mutual Coupling between Cylindrical, Probe-Fed, Dielectric Resonator Antennas", R.J. Dorris, R.T. Long, S.A. Long, M.A. Khayat, and J.T. Williams, IEEE Antennas and Wireless Propagation Letters, Vol. 1, No. 1, pp. 8-9, Jan 2002.

57. "Characterization of Ferromagnetic Perovskites for Magnetically Tunable Microwave Superconducting Resonators",
J. Wosik, L.-M. Xie, M. Strikovski, P. Przyslupski, M. Kamel, V. V. Srinivasu, and S. A. Long, ,Journal of Applied Physics, Vol.91, No. 8, pp. 5384-5390, April 2002.

58. "Investigation of Low Profile, Conformable, Dielectric Resonator Antennas", Benjamin J. Fasenfest, Andrew G. Walsh, Christopher S. De Young, Timothy F. Kennedy, Stuart A. Long, and Jeffery T. Williams, Electronics Letters, Vol. 39, No. 1, pp. 12-13, Jan. 9, 2003.

59. "Investigation of Impedance and Radiation Properties of Dual-Frequency Choke-Loaded Monopole Antennas", (T.F. Kennedy, S.A. Long, and J.T. Williams), Electronics Letters, Vol. 39, No. 6, pp. 490-491, Mar. 20, 2003.

60. "Overview of the Dielectric Resonator Antenna", K.W. Leung and S.A. Long, Dielectric Resonator Antennas, Research Studies Press, pp. 1-54, 2003.

61. "Modification and Control of Currents on Monopole Antennas Using Magnetic Bead Loading",

Timothy F. Kennedy, Stuart A. Long, and Jeffery T. Williams, IEEE Antennas and Wireless Propagation Letters, Vol.2, pp.208-211, Nov. 2003.

62. "Modification of Properties of Long Monopole Antennas Using Dielectric and Magnetic Beads", Timothy F. Kennedy, Stuart A. Long, and Jeffery T. Williams, IEEE Antennas and Wireless Propagation Letters, Vol.3, pp.165-168, May. 2004

63. "Scan Impedance of RSW Microstrip Antennas in a Finite Array", (R.L. Chen, D.R. Jackson, J.T. Williams, and S.A. Long), IEEE Trans. Antennas and Propagation, Vol. AP-53, No. 3, pp. 1098-1104, March 2005.

64. "The 67-Year Career at Harvard University of Professor Ronold W.P. King: Recollections of an Ex-Student", Stuart A. Long, IEEE Antennas and Propagation Magazine, Vol. 48, No. 2, pp. 84-89, Apr. 2006.

65. "An Investigation of Stacked and Embedded Cylindrical Dielectric Resonator Antennas", (A.G. Walsh, C. S. De Young, and S.A. Long), IEEE Antennas and Wireless Propagation Letters, Vol 5, pp. 130-133, 2006.

66. "Wideband Cylindrical and Rectangular Dielectric Resonator Antennas", C. S. De Young and S. A. Long, IEEE Antennas and Wireless Propagation Letters, Vol. 5, pp.426-429, 2006.

67. "Modification and Control of Currents on Electrically Large Wire Structures Using Composite Dielectric Bead Elements", Timothy F. Kennedy, Kathleen A. Fasenfest, Stuart A. Long, and Jeffery T. Williams, IEEE Trans. Antennas and Propagation, Vol. AP-54, No. 12, pp. 3608 – 3613, Dec. 2006.