

(A) Articles in Refereed Publications

- [A-1] A. Naderian, E.A. Cherney, S. Jayaram and L.C. Simon, "Performance Characteristics of RTV Silicone Rubber Insulator Coatings", IEEE Transactions on Dielectrics and Electrical Insulation, Accepted for publication in 2007.
- [A-2] A.H. El-Hag, S. Jayaram and E.A. Cherney, "Effect of Insulator Profile on Aging Performance of Silicone Rubber Insulators", IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 14, No. 2, pp. 352-359, 2007.
- [A-3] Saeed Ul-Haq, Shesha H. Jayaram and E.A. Cherney, "Performance of Nanofillers in Medium Voltage Magnet Wire Insulation under High Frequency Applications", IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 14, No. 2, pp 417-426, 2007.
- [A-4] Saeed Ul-Haq, Shesha H. Jayaram and E.A. Cherney, "Evaluation of Medium Voltage Enameled Wire Exposed to Fast Repetitive Voltage Pulses", IEEE Transactions on Dielectrics and Electrical Insulation, Vol.14, No. 1, pp.194-203, 2007.
- [A-5] Saeed Ul-Haq, Shesha H. Jayaram and E.A. Cherney, "Space Charge Accumulation in Induction Motor Magnet Wire: A New Measurement Approach", IEEE Transactions on Energy Conversion, Vol. 22, No. 2, 2007.
- [A-6] F. P. Espino-Cortes, S.H. Jayaram and E.A. Cherney, "Impact of Inverter Drives Employing Fast-Switching Devices on Form-Wound AC Machine Stator Coil Stress Grading", IEEE Electrical Insulation Magazine, Vol. 23, No. 1, pp 16-28, 2007.
- [A-7] F. P. Espino-Cortes, S.H. Jayaram and E.A. Cherney, "Stress Grading Materials for Cable Terminations under Fast Rise Time Pulses", IEEE Transactions on Dielectrics and Electrical Insulation, Vol.13, No. 2, pp 430-435, 2006.
- [A-8] A.H. El-Hag, L. C. Simon, S. Jayaram and E.A. Cherney, "Erosion Resistance of Nano filled Silicone Rubber", IEEE Trans. on Dielectrics and Electrical Insulation, Vol. 13, No.1, pp 122-128, 2006.
- [A-9] A. Naderian, Ayman H. Al-Hag, S. H. Jayaram and E. A. Cherney, "A neural network based method for leakage current prediction of polymeric insulators", IEEE Transactions on Power Delivery, Vol. 21, No. 1, pp. 506-507, 2006.
- [A-10] E.A. Cherney, "Silicone Rubber Dielectrics Modified by Inorganic Fillers for Outdoor High Voltage Insulation Applications", IEEE Transactions on Dielectrics and Electrical Insulation, Vol 12, No. 6, pp 1108-1115, 2005.
- [A-11] L. Meyer, S. Jayaram and E. A. Cherney, "A novel technique to evaluate the surface resistance of silicone rubber composites for high voltage outdoor insulation using infrared laser, IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 12, 2005, pp. 424-432.
- [A-12] F. P. Espino-Cortes, S. H. Jayaram and E. A. Cherney, "Effectiveness of Stress Grading Coatings on Form Wound Stator Coil Groundwall Insulation under Fast Rise Time Pulse Voltages", IEEE Transactions on Energy Conversion, Vol. 20, pp. 844- 851, 2005.
- [A-13] H. Wei, S. Jayaram and E. A. Cherney, "A Study of Electric Stress Grading of Composite Bushings by means of a Resistive Silicone Rubber Coating", Journal of Electrostatics, Vol. 63, Issues 3-4, pp. 177-184, 2005.

- [A-14] L. H. Meyer, S.H. Jayaram and E.A. Cherney, "The role of inorganic fillers in silicone rubber for outdoor insulation-alumina tri-hydrate or silica" IEEE Electrical Insulation Magazine, Vol. 20, No. 4, pp. 13-21, 2004.
- [A-15] L. H. Meyer, S.H. Jayaram and E.A. Cherney, "Correlation of damage, dry band arcing energy, and temperature in inclined plane testing of silicone rubber for outdoor insulation" IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 11, No. 3, pp. 224-232, 2004.
- [A-16] L.H. Meyer, S.H. Jayaram and E.A. Cherney; "Thermal Conductivity of Filled Silicone Rubber and its Relationship to Erosion Resistance in the Inclined Plane Test", IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 11, No. 4, pp. 620-630, 2004.
- [A-17] A.H. El-Hag, S. Jayaram and E.A. Cherney "Fundamental and Low Frequency Harmonic Components of Leakage Current as a Diagnostic Tool to Study Aging of RTV and HTV Silicone Rubber in Salt-Fog" IEEE Transaction on Dielectrics and Electrical Insulation, Vol. 10, No. 1, pp. 128-136, 2003.
- [A-18] A.H. El-Hag, S. Jayaram and E.A. Cherney "Influence of Shed Parameters on the Aging Performance of Silicone Rubber Insulators in Salt-Fog" IEEE Transaction on Dielectrics and Electrical Insulation, Vol. 10, No. 4, pp. 655-664, 2003.
- [A-19] I. Lopes, S. Jayaram and E. A. Cherney, "A Method for Detecting the Transition from Corona from Water Droplets to Dry-band-Arcing on Silicone Rubber Insulators", IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 8, No. 6, pp. 964-971, 2002.
- [A-20] I. Lopes, S. Jayaram and E.A.Cherney, " A Study of Partial Discharge form Water Droplets on a Silicone Rubber Insulating Surface", IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 8, No. 2, pp. 262-268, 2001.
- [A-21] E.A. Cherney, B. Biglar and S. Jayaram, "Salt Fog Testing of Polymer Housed Surge Arresters", IEEE Transactions on Power Delivery, Vol. 16, No.2, pp. 252-259, 2001.

(B) Articles in Refereed Conference Proceedings

- [B-1] S. Ul Haq, Shesha H. Jayaram and E. A. Cherney, "Experimental Study of Space Charge Influenced Field in Motor Enamelled Wires", Electrostatics Society of America, Annual Meeting, June, 2007.
- [B-2] S. Ul Haq, Shesha H. Jayaram and E.A. Cherney "Insulation Problems in Medium Voltage Stator Coils under Fast Repetitive Voltage Pulses", 53rd IEEE Pulp and Paper Industry Technology Conference, June, 2007.
- [B-3] S. Ul Haq, Shesha H. Jayaram and E.A. Cherney, "Evaluation of Medium Voltage Stator Bar Groundwall Insulation under Inverter-Fed Pulses", IEEE CEIDP, pp. 465-468, Oct. 2006.

- [B-4] P. Espino-Cortes, Y. Montasser, S. H. Jayaram and E. A. Cherney, "Composite Materials for Double Layer Stress Grading Systems Working Under Fast Rise Time Pulses", IEEE-ISEI, Toronto, Ontario, June 2006.
- [B-5] H. Wei, S. H. Jayaram and E. A. Cherney, "A Study of Electric Stress Grading of Composite Bushings by means of a Resistive Silicon Rubber Coating", Electrostatics Society of America, Rochester, NY, June 2004.
- [B-6] A. H. El-Hag, S.H. Jayaram and E.A. Cherney, "Comparison between micro and nano filled silicone rubber composites using inclined plane tracking and erosion test", IEEE Conf. on Electr. Insul. and Dielect. Phenomena, Colorado, USA, Oct. 2004.
- [B-7] A. H. El-Hag, L. C. Simon, S.H. Jayaram and E.A. Cherney, "Physicochemical properties of silicone rubber nanocomposites for outdoor applications" " IEEE Conf. on Electr. Insul. and Dielect. Phenomena, Colorado, USA, Oct. 2004.
- [B-8] Y. Shen, E. A. Cherney and S. H. Jayaram, "Electric stress grading of composite bushings using high dielectric constant silicone compositions" IEEE International Symposium on Electrical Insulation, pp. 320-323, Sept. 2004.
- [B-9] H. J. Wei, E. A. Cherney and S. H. Jayaram, "Improvements to the performance of silicone rubber housed composite bushings by means of a resistive coating" IEEE International Symposium on Electrical Insulation, pp. 324-327, Sept. 2004.
- [B-10] W. Sima, F. P. Espino-Cortes, E.A. Cherney and S.H. Jayaram, "Optimization of corona ring design for long-rod insulators using FEM based computational analysis" IEEE International Symposium on Electrical Insulation, pp. 480-483, Sept. 2004.
- [B-11] F. P. Espino-Cortes, S.H. Jayaram and E.A. Cherney, "Characterization of conductive field dependent composite materials" Proceedings of ESA Annual Meeting, pp. 150-159, June 2004.
- [B-12] A.H. El-Hag, S. Jayaram and E.A. Cherney, "Calculation of the current density along insulator surface using field and circuit theory approaches ", IEEE CEIDP 2003, Albuquerque, USA.
- [B-13] L.H. Meyer, S.H. Jayaram and E.A. Cherney; "Thermal characteristics of RTV and hot pressed silicone rubber filled with ATH under laser heating", Conference on Electrical Insulation and Dielectric Phenomena, Albuquerque, 19-22 Oct. 2003.
- [B-14] L.H. Meyer, S.H. Jayaram and E.A. Cherney; "Thermal conductivity of silicone rubber filled with ATH or silica - Effect of size, concentration, surface treatment and applied pressure", Record of the 2002 IEEE IAS/ESA Joint Conference on Electrostatics and Industrial Applications", 24-27 June 2003.
- [B-15] L.H. Meyer, R. Omranipour, S.H. Jayaram and E.A. Cherney; "The effect of ATH and silica on tracking and erosion resistance of silicone rubber compounds for outdoor insulation", Conference Record of the 2002 IEEE International Symposium on Electrical Insulation, 7-10 April 2002, pp. 271-274.
- [B-16] R. Omranipour, L.H. Meyer, S.H. Jayaram and E.A. Cherney; "Tracking and erosion resistance of RTV silicone rubber: effect of filler particle size and loading ", Annual Report Conference on Electrical Insulation and Dielectric Phenomena, 20-24 Oct. 2002, pp.371-374.

- [B-17] L.H. Meyer, V. Grishko; S.H. Jayaram E.A. Cherney and W.W. Duley; "Thermal characteristics of silicone rubber filled with ATH and silica under laser heating", Annual Report Conference on Electrical Insulation and Dielectric Phenomena, 20-24 Oct. 2002, pp 848-852.
- [B-18] L.H. Meyer, R. Omranipour, S.H. Jayaram and E.A. Cherney, "Inclined plane tracking and erosion evaluation of filled and unfilled silicone rubber", Annual Report Conference on Electrical Insulation and Dielectric Phenomena, 14-17 Oct 2001, pp 632-635.