

ROBERT C. MOORE

6627 Tortoise Lane Wilmington, NC (910) 794-4174 rmoore@ec.rr.com

SUMMARY: PhD in Chemical Engineering with 23 years' experience in materials and process development. Expert in coating application and adhesion. Experienced with a broad variety of plastics including epoxies, silicones, acrylates, urethane acrylates, polyesters, and liquid crystal polymers. Extensive background in optical fiber drawing technology, polymer and dispersion rheology, surface science, analytical and numerical process modeling, materials development and characterization, structure-property relations, accelerated aging and environmental testing, statistical process control, design of experiments and statistical analysis, silica sol-gel technology, UV-curable materials, and high-purity piping and process installations.

EXPERIENCE:

Nov 2005 – current	Corning Wilmington, NC	Senior Manuf. Eng. Specialist
Nov 2001 – July 2005	OFS (formerly Lucent optical fiber division) Norcross, GA	Consulting MTS
June 2001- Nov 2001 May 1995- June 2001	Bell Labs, Lucent Bell Labs, AT&T/Lucent Norcross, GA	Consulting MTS Distinguished MTS
May, 1990-May, 1995	Bell Labs, AT&T Norcross, GA	Member of Technical Staff
June, 1986-May, 1990	AT&T Engineering Research Center Princeton, NJ	Member of Technical Staff
March, 1978-August, 1981	Chevron Research Co. Richmond, CA	Research Engineer

EDUCATION:

June, 1986	Ph.D./Chemical Engineering , University of California, Berkeley. GPA: 3.8/4.0 Thesis: "The Kinetics of Structure Development in Liquid Crystal Polymers" Used X-ray diffraction to measure 3-D orientation changes of LCPs exposed to shear and magnetic fields and developed a transient rheological model of the orientation kinetics.
March, 1978	M.S./Chemical Engineering , University of Washington (Seattle). GPA: 3.8/4.0 Thesis: "A Numerical Model of Aerosol Deposition in the Human Lung"
9/75 - 6/76	Postgraduate study in Chem. Eng. at University of California, Berkeley. GPA: 3.8/4.0
March, 1975	A.B./Physical Sciences , University of California, Berkeley. GPA: 3.5/4.0

April 3, 2009

ISSUED PATENTS

Y. Ali, D. Brownlow, A.L. Harris, N. Levinos, R.C. Moore, and L. Shepherd, "High-Speed Coating Method for Coating and Curing Optical Fiber" U.S. Patent #5,756,165 (Issued May 26, 1998)

R.C. Moore, J.R. Petisce, C.R. Taylor, "System For Continuously Monitoring Curing Energy Levels Within A Curing Unit" U.S. Patent #5,418,369 (Issued May 23, 1995)

S. Jin, R.C. Moore, J. J. Mottine, R. C. Sherwood, and T. H. Tiefel, "Composite Electrical Interconnection Medium Comprising a Conductive Network, and Article, Assembly, and Method," U.S. Patent #4,923,739 (Issued May 8, 1990).

W.J. Baron, R.C. Moore, J.R. Petisce, and C.R. Taylor, "Method of Curing Dual-coated Optical Fiber," EP646552 B1 (Issued December 12, 1997)

N. Kenkare, R.C. Moore, J. Shiroishi, and M. Tabaddor, "Multiple Feed Applicator Assembly for Coating Optical Fibers," U.S. Patent # 6,991,679 (Issued January 31, 2006)

F. Calabrese, K. Chakrabarty, A. Hale, and R.C. Moore, "Material for attenuating light signals with low reflectance in a fiber optic network" U.S. Patent # 7,031,589 (Issued April 18, 2006)

N. Kenkare, R.C. Moore, J.M. Turnipseed, and S. Xiong, "Coated Optical Fiber and Manufacturing Method Therefore," JP # 2004264848 (Issued September 24, 2004)

PATENT APPLICATIONS

R.C. Moore, J.M Turnipseed, C.R. Taylor, "Two-stage Curing for Optical Fiber," EP854022 A1 (Issued July 22, 1998).

M. C. Bertz, R.C. Moore, J. Turnipseed, and S. Xiong, "Apparatus and method for manufacturing colour-coated optical fibre," EP1640347 (Issued May 31, 2006)

EXTERNAL PUBLICATIONS

"Novel Plastics for Optical Device Applications: Low-Reflectance Attenuators," J. Bandy, K. K. Chakrabarty, F. Calabrese, A. Hale, S.L. Jones, R.C. Moore, and D.N. Ridgway, Proc of the National Fiber Optic Engineers' Conference, Orlando, FL (2003).

"Optical Fiber Coating Delamination Using Model Coating Materials," C. J. Aloisio A. Hale, K. Konstadinidis, R.C. Moore, M. Tabaddor, J. M. Turnipseed. Proc. of the 51st International Wire and Cable Symposium, (2002)

"An Evaluation of Protective Polymer Coatings for Optical Fiber Applications," P.L. Tabaddor, C.J. Aloisio, H.C. Chandan, R.C. Moore, N.W. Sollenberger, C.R. Taylor, J.M. Turnipseed. Proc. of the 45th IWCS, Reno, NV, p. 302 (1996)

"A Viscoelastic Analysis of Thermally Induced Residual Stresses in Dual Coated Optical Fibers," C. J. Aloisio, W. W. King and R. C. Moore, Proceedings 44th International Wire and Cable Symposium, 1995, pp. 139-145.

J. A. Fulton, R. C. Moore, and W. R. Lambert, "Applications and Reliability of the AT&T Elastomeric Conductive Polymer Interconnection System," presented to the International Electronics Packaging Society (Boston, November, 1990) and published in the conference proceedings.

R. C. Moore, J. A. Fulton, and W. R. Lambert, "Reliability of Anisotropically Conductive Elastomer Interconnections," presented to Expo SMT (San Jose, July, 1990) and published in the conference proceedings.

J. A. Fulton, A. E. Kontos, R. C. Moore, and J. R. Nis, "High Density Interconnection Using Anisotropically Conducting Polymer Films," presented at the Spring meeting of the IPC Hybrid Marketing Research Council (Chicago, June, 1990) and published in the conference proceedings.

R. C. Moore, E. J. Leddy, W. R. Lambert, and T. H. Tiefel, "Testing Bare Boards with an Anisotropically Conductive Elastomer," presented at NEPCON West (February, 1990) and published in the conference proceedings.

J. A. Fulton, R. C. Moore, W. R. Lambert, and J. C. Sekutowski, "The Use of Anisotropically Conductive Polymer Composites for High-Density Interconnection Applications," presented at NEPCON West (February, 1990) and published in the conference proceedings.

J. A. Fulton, W. R. Lambert, R. C. Moore, and J. C. Sekutowski, "Electrical and Mechanical Properties of an Anisotropic Metal-Filled Polymer Composite for Interconnection Applications," presented to the International Institute of Connector and Interconnection Technology (IICIT, October, 1989) and published in the symposium proceedings.

M. G. Kuzyk, R. C. Moore, J. E. Sohn, L. A. King, and C. W. Dirk, "Quadratic Electrooptic Modulation of Dye-Doped Polymers: Measurement of Third Order Electronic Nonlinear Optical Susceptibilities," Proceedings of 33rd Annual Symposium of the SPIE International Society for Optical Engineering, August, 1989.

J. A. Fulton, R. C. Moore, and W. R. Lambert, "Electrical and Mechanical Properties of a Metal-Filled Polymer Composite for Interconnection and Testing Applications," presented at Electrical Components Conference and published in proceedings (May, 1989).

J. A. Fulton, W. R. Lambert, R. C. Moore, and J. C. Sekutowski, "Use of Anisotropically Conductive Polymers in Electronic Applications," presented to Society for the Advancement of Material and Process Engineering (SAMPE) and published in proceedings (Dallas, June, 1989).

M. G. Kuzyk, R. C. Moore, and L. A. King, "Second Harmonic Generation Measurements of the Elastic Constant of a Molecule in a Polymer Matrix," accepted for publication by *J. Opt. Soc. B* and presented to the Society of Rheology (February, 1989).

E. J. Leddy, R. C. Moore, J. M. Short, and T. H. Tiefel, "An Off-Grid Bare-Board Test Technique," *Printed Circuit Fabrication* **11**, 11 (1988) and presented to the International Electronics Packaging Society (November, 1988).

R. C. Moore and M. M. Denn, "Magnetic Orientation of Thermotropic Liquid Crystalline Polymers," Chapter in *High Modulus Polymers*, A.E. Zachariades and R. S. Porter, eds., pp. 169-193. Marcel Dekker (1988).

R. C. Moore, M. M. Denn, and G. Marrucci, "Effect of a Magnetic Field on Thermotropic Liquid Crystal Polymers," *Polymer* **85** Preprints, paper #89 (p. 220). Polymer Division, Royal Australian Chemical Institute (1985).

R. C. Moore, M. M. Denn, and G. Marrucci, "Time-Dependent Structure of Thermotropic Liquid Crystal Polymers," presented to the Society of Rheology, Blacksburg, VA (1985).