Richard J. Lee

Affiliation: RJ Lee Group, Inc.
350 Hochberg Road
Monroeville, PA 15146

Education:

Ph.D., Theoretical Solid State Physics, 1970, Colorado State University
B.S., Physics, 1966, University of N. Dakota

Career/Employment:

- RJ Lee Group, Inc., President, 1986 - Present
- U. S. Steel Technical Center, Head - Physics, Electron Microscopy and Surface Analysis Section, 1973 - 1985
- Purdue University, Associate Professor,-1971
- Purdue University, Assistant Professor, 1970
- Lake Region Junior College, Instructor, 1966

Summary:

- Development and application of quantitative computer-controlled electron microscopy techniques;
- Pioneered the use of quantitative electron diffraction techniques for the identification of asbestos;
- Development of automated techniques for combined x-ray microanalysis and electron microscopy;
- Development of automated electron diffraction pattern analysis techniques and application to environmental problems, asbestos analysis, coal mineral characterization, and quantitative metallography.

Honors, Awards, Fellowships & Memberships:

- Microbeam Analysis Society (Board of Directors 1987 - 1990)
- Microscopy Society of America
- Air & Waste Management Association
- ASM International
- ASTM Committee D-22
- American Physical Society
- American Chemical Society
- American Concrete Institute
- Materials Research Society
- Society for Mining, Metallurgy, and Exploration, Inc.
- International Standards Organization
- Health Effects Institute - Asbestos Research Literature Review Panel
- EPA Scientific Review Panel on Air Chemistry and Physics (1989)
- EPA Select Panel for Development of Methodology for Asbestos Analysis by Transmission Electron Microscopy (1987-Present)
- Advisor on asbestos analysis to the Environmental Protection Agency
- External Advisory Committee for the College of Natural Sciences, Colorado State University
- National Defense Education Act Fellowship - 4 years
- Small Business Administration's 1991 Entrepreneurial Success Award
- 1991 Western Pennsylvania/Tri State Entrepreneur of the Year Award

Publications:

- Number of papers in refereed journals - 17
- Number of communications to scientific meetings - 76
- Books/Chapters - 3
- Invited Technical Papers - 16

Patents: 3

6/98

EXHIBIT
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Papers and Publications
Richard J. Lee

Richard J. Lee, Drew R. Van Orden, Ian M. Stewart, "Dust and Airborne Concentrations - Is there a Correlation?", "Advances in Environmental Measurement Methods for Asbestos, ASTM STP 1342. M.E. Beard. H.L. Rook, Eds., American Society for Testing Materials, 1998. - Presented at the 1997 Boulder Conference

R.J.Lee, T.V. Dagenhart, G.R. Dunmyre, I.M. Stewart, and D.R. VanOrden, "Response to Comment on "Effect of Indirect Sample Preparation Procedures on the Apparent Concentration of Asbestos in Settled Dusts"", Environmental Science & Technology, Vol. 30, No. 4, 1996.

Lee, R.J., D.R. Van Orden, G.R. Dunmyre, "Interlaboratory Evaluation of the Breakup of Asbestos-Containing Dust Particles by Ultrasonic Agitation", Environmental Science & Technology, accepted for publication, 1996.

Lee, Richard J., A.J. Schwoeble, H.P. Lentz, "Application of SEM in Forensic Science", Presented at the Scanning Microscopy International Meeting, May 12, 1993. To be published in Scanning Microscopy Journal. Presented to Southern Association of Forensic Scientists, April, 1996, Auburn, AL.

S.K. Kennedy, G.S. Casuccio, R.J. Lee, G.A. Slifka, M.V. Ruby, "Microbeam Analysis of Heavy Element Phases in Polished Sections of Particulate Material - An Improved Insight into Origin and Bioavailability". Sampling Environmental Media, ASTM STP 1282, James Howard Morgan, Ed., American Society for Testing and Materials, 1996.

Lee, R.J., T.V. Dagenhart, G.R. Dunmyre, I.M. Stewart, and D.R. VanOrden, "Effect of Indirect Sample Preparation Procedures on the Apparent Concentration of Asbestos in Settled Dusts", American Chemical Society, Environmental Science & Technology, Vol., 29, 1995.

Lee, R.J., R.G. Florida, Stewart, Ian M., "Asbestos Contamination in Paraffin Tissue Blocks". Published in the Archives of Pathology & Laboratory Medicine, Vol. 119, June 1995.

Lange, J.H., K.W. Thomulka, R.J. Lee, G.R. Dunmyre, and F.C. Schwerer, "Surface and Deposition Sampling in a Mechanical Room that Contains Pipe and Boiler Asbestos Insulation", Toxicological and Environmental Chemistry, Vol. 50, pp. 51-56.

J.H. Lange, K.W. Thomulka, R.J. Lee, G.R. Dunmyre "Evaulation of Lift and Passive Sampling Methods During Asbestos Abatement Activities", Bull. Environ. Contam.Toxicol. (1995) 55: 325-331.

Oehlert, Gary W., Richard J. Lee and Drew VanOrden, "Statistical Analysis of Asbestos Fibre Counts". Environmentrics, Vol. 6, pp. 115-126 (1995).

Lee, R. J., Mark L. Demyanek, F. C. Schwerer, K. A. Allison, G. R. Dunmyre, "Air, Surface, and Passive Measurements in a Building During Spray- Buffing of Vinyl-Asbestos Floor Tile", Applied Occupational Environmental Hygiene, 9(11):869-875; 1994.

Van Orden, D.R., R.J. Lee, K.M. Bishop, D. Kahane, and R. Morse, "Evaluation of Ambient Asbestos Concentrations in Buildings Following the Loma Prieta Earthquake", Regulatory Toxicology and Pharmacology, Vol. 21, June, 1994, pp. 117-121.

Lee, R.J., D. A. Warner, H.P. Lentz. "Use of the Personal SEM for Evaluation of Cementitious Products." Presented to the ICMA, 15th International Cement Microscopy Association, Dallas, TX, March 1993.

Demyanek, Mark L., G. R. Dunmyre, R. J. Lee, Ph.D., C.F. Richardson, X. Li, "Adhesive Lift and Passive Particulate Sampling Technology", Presented at the Industrial Hygiene Monitoring Symposium, March 31, 1993.

Lange, J. H., R. J. Lee and G. R. Dunmyre, "Monitoring Asbestos in an Industrial Facility Using Surface Dust and Passive Air Samplers, Emerging Technologies for Hazardous Waste Management:, 1992 Book of Abstracts for the Special Symposium, Atlanta, GA, Sept. 21-23, 1992. To be published in the Applied Occupational and Environmental Hygiene Journal.

Wagner, K.E., R.J. Lee. "Microscopic Crack Pattern Evaluations on Hardened Concrete — Comparison Between Sound and Deteriorated Members." Presented to the American Ceramic Society 95th Annual Meeting and Exposition, Cincinnati, OH, April 1993.

Lange, J.H., J.W. Grad, P.A. Lange, K.W. Thomulka, G.R. Dunmyre, R.J. Lee, C.F. Richardson, and R.V.H. Blumershine, "Asbestos Abatement of Ceiling Panels and Mold Growth in a Public School Building After Water Damage: A Case Study of Contaminant Levels", 1993, Fresenius Envir. Bull. 2, pp. 13-18.

Clark, B.A., R.J. Lee. "Energy Dispersive X-Ray Analysis of Cement Paste Features Resulting From Heat Treatment." Presented at the American Ceramic Society 95th Annual Meeting & Exposition, Cincinnati, OH, April 1993.

Kennedy, S. K., G. A. Cooke, R. J. Lee, J. P. Skalny, "Mathematical Unmixing of Aggregate Types in Concrete Products Using Q-Mode Factor Analysis - Method and Case Study." Proceedings of the 14th International Conference on Cement Microscopy, Intl. Cement Microscopy Assoc., Costa Mesa, CA, April 1992, pp. 359-378.

Stewart, I. M., R. J. Lee. "Considerations in the Regulation of Actinolite, Tremolite and Anthophyllite." Presented to the SME 121st Annual Meeting, Phoenix, AZ, February 1992.

Lee, R. J., G. R. Dunmyre, G. J. Kotyk, K. E. Scott. "The Effects of Ultrasonic Resuspension During Dust Sample Preparation for Transmission Electron Microscopy Analysis on Asbestos Fiber Concentrations." Presented to the Environmental Management '92, 9th Annual Conference and Exposition of NAC, Pittsburgh, April 1992.

Lee, R. J., G. R. Dunmyre. "Surface and Passive Air Samplers." Presented to the ASTM 1992 Johnson Conference, Johnson, VT, July 1992.

Lee, R. J., G. R. Dunmyre. "Direct Preparation: Innovative Sampling Technology, Applications for Other Indoor Air Contaminants." Presented to Settled Dust Sampling: Asbestos and Other Particulates, Georgia Tech Research Institute, Atlanta, GA, April 1992.

Lee, R. J., D. R. Van Orden, M. Corn, K. S. Crump. "Exposure to Airborne Asbestos in Buildings." Regulatory Toxicology and Pharmacology, Vol. 16, March 1992, pp. 93-107.

Lee, R. J., A. J. Schwoeble, Y. Jie. "Use of Backscattered Electron Image Intensity Signals to Calculate the Water/Cement Ratio of Concrete." Presented to the EMSA 50th Anniversary Meeting, Boston, MA, August 1992.

Jie, Y., A. J. Schwoeble, R. J. Lee. "Influence of Ashing in Concrete Samples for Carbon Coating Removal." Electron Microscopy I, 5th Asia-Pacific Electron Microscopy Conference, Beijing, China, World Scientific, K. H. Kuo and Z. H. Zhai, Editors, August 1992, pp. 450-451.

Wylie, A.G., K. F. Bailey, J. W. Kelse, R. J. Lee. "The Importance of Width in Asbestos Fiber Carcinogenicity and its Implications for Public Policy." American Industrial Hygiene Association Journal, Vol. 54, Number 5, May 1993. pp. 239-252.

Skalny, J. P., B. A. Clark, R. J. Lee. "Alkali-Silica Reaction Revisited." Proceedings of the 14th International Conference on Cement Microscopy, Intl. Cement Microscopy Assoc., Costa Mesa, CA. April 1992, pp. 309-324.

Clark, B. A., E. A. Draper, R. J. Lee, J. Skalny, M. Ben-Bassat, A. Bentur. "Electron-Optical Evaluation of Concrete Cured at Elevated Temperatures." Proceedings of the American Concrete Institute Symposium on How to Produce Durable Concrete in Hot Climates, San Juan, Puerto Rico, October 1992, submitted for publication.

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Lee, R. J., E. A. Draper, J. P. Skalny. "Advanced Methods of Concrete Characterization." Proceedings of the Materials Research Society, Fall Meeting, Boston, MA, Vol. 245, 1991, pp. 349-358.

Lee, R. J., B. A. Smith, I. M. Stewart. "Discriminating Between Asbestos and Nonasbestos AT&A." Presented to the Society for Mining, Metallurgy, and Exploration, Inc. Conference, Denver, CO. February 1991.

Lee, R. J., A. J. Schwoeble, K. E. Wagner, Y. Jie. "Integration of Multiple Advanced Analytical Techniques to Study Alkali Silica Reactivity in Concrete Railroad Ties." Presented to Engineering Foundation Conferences, Advances in the Production & Utilization of Cement-Based Materials, Potosi, MO, July 28 - August 2, 1991.

Corn, M., K. Crump, D. B. Farrar, R. J. Lee, D. R. McFee. "Airborne Concentrations of Asbestos in 71 School Buildings." Regulatory Toxicology and Pharmacology, Vol. 13, March 1991, pp. 99-114.

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Dagenhart, T. V., J. Fisher, K. Bishop, G. R. Dunmyre, R. J. Lee. "Fibrous Pyroxenes: Common Rock-Forming Minerals Which May Be Confused with the Amphiboles." presented to the National Asbestos Council Seventh Annual Asbestos Abatement Conference and Exposition, San Antonio, TX, February 19-21, 1990.

Dagenhart, T., J. Fisher, K. Bishop, G. Dunmyre, R. J. Lee. "The Pyroxenes: Common Rock-Forming Minerals Which May be Confused with the Amphiboles." Presented to the National Asbestos Council, Inc., San Antonio, TX, February 1990.

Lee, R., J. Schlaegle, G. Cooke, T. Powers. "Determination of Low-Level Asbestos in Bulk Samples Using Scanning Electron Microscopy." Presented to National Asbestos Council, Inc., Phoenix, AZ, September 1990.

Lee, R. J., G. S. Casuccio. "Characterization of Toxic Particulate Matter Using CCSEM and Microimaging Techniques." Presented to 1990 SME Annual Meeting." Salt Lake City, UT, March 1990.

Lee, R. J., Testimony to the Occupational Safety and Health Administration on Notice of Proposed Rulemaking - Occupational Exposure to Asbestos: Tremolite, Anthophyllite and Actinolite, 29 CFR parts 1910 and 1926. Washington, DC, May 1990.

Lee, R. J. "The Impact of Computers on Modern Microscopy." Presented to Metro Microbeam Group, Paramus, NJ, November 1990.

Lee, R. J. "Automated Techniques for Quantitative Measurement of Particulates and Fibers." Presented to Eighth Annual Symposium on Advances in Microscopy, Duke University, North Carolina, September 1989

Schlaegle, J., G. Casuccio, R. Lee, G. Dunmyre. "Evaluation of Asbestos Content in Settled Dust Samples Using CCSEM and Microimaging Techniques." Presented to National Asbestos Council, Inc., Indianapolis, IN, September 1989.

Kim, D. S., P. K. Hopke, G. S. Casuccio, R. J. Lee, S. E. Miller, G. M. Sverdrup, R. W. Garber. "Comparison of Particles Taken from the ESP and Plume of a Coal-Fired Power Plant." Atmospheric Environment, Vol. 23, No. 1, 1989, pp. 81-84.

Casuccio, G. S., A. J. Schwoeble, B. C. Henderson, R. J. Lee, P. K. Hopke, G. M. Sverdrup. "The Use of CCSEM and Microimaging to Study Source/Receptor Relationships." Presented to the ACPA/EPA Specialty Conference on Receptor Models in Air Resources Management, San Francisco, CA, February 1988; published in Receptor Models in Air Resources Management, Air Pollution Control Association, Pittsburgh, PA, 1989.

Van Orden, D. R., I. M. Stewart, R. J. Lee. "AHERA Quality Assurance Requirements for the Electron Microscopy Laboratory." Presented to the National Asbestos Council, Inc., Sixth Annual Asbestos Abatement Conference and Exposition, Session 42, Anaheim, CA, March 1989.

Xu Li, J. Xingxing, Wu Zi-qin, R. J. Lee, G. R. Dunmyre, K. L. Anderson. "Thin Film Standardless Analysis Used in TEM Asbestos EDS Analysis." Proceedings of the 46th Annual Meeting of the Electron Microscopy Society of America, San Francisco Press, 1988.

Xu Li, Jin Guang-xiang, Wu Zi-qin, R. J. Lee. "A Directly Calculated Quadrilateral Model for F (rz)." Presented to the Microbeam Analysis Society, Milwaukee, WI, August 1988.

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Lee, R. J., K. L. Anderson, Xu Li. "Common Errors in the Identification of Asbestos by the Visual Interpretation of Electron Diffraction Patterns." Presented to the National Asbestos Council, Session 43, Atlanta, GA, February 1988; and InterMicro Group Meeting, Chicago, IL, June 1988.

Lee, R. J., I. M. Stewart, G. R. Dunmyre. "Evaluation of Asbestos Contamination in PC and MCE Filters." Presented to the National Asbestos Council, Boston, MA, September 1988.

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Lee, R. J., D. R. Van Orden, G. R. Dunmyre (contributing authors). "Assessing Asbestos Exposure in Public Buildings." EPA 560/5-88-002, Washington, D.C., May 1988.

Cheng, Wanrong, R. J. Lee. "Step Shape F (rz) Model and Non-Standard Ultra Light Element Analysis Program." Presented to the Microbeam Analysis Society, Milwaukee, WI, August 1988.

Lee, R. J. "Clearance Monitoring Under AHERA Regulations." Presented to the ASTM Johnson Conference, Johnson County, VT, July 1988.

Lee, R. J. "Applications of Imaging Techniques in Metallurgy." Presented to Alcoa Laboratories Centennial Technical Symposium on Sensor Technology, Uniontown, PA, June 1988.

Lee, R. J. "Overview of Asbestos Analysis Techniques." presented to Bay Area Chapter Microbeam Analysis Society, Berkeley, CA , January 1988.

Chopra, K. S., R. J. Lee. "Electron Microscopy of Asbestos." Presented to the 1988 Scanning Microscopy Meeting, St. Louis, MO, May 4, 1988.

Lentz, H. P., W. J. Mershon, D. W. Weihe, R. J. Lee. "Offline Microscopy: Bringing the Electron Microscope to the Engineer." Presented to Electronic Imaging East '88, Boston, MA, October 3-6, 1988.

Hopke, P. K., Y. D. Adewuyi, G. S. Casuccio, W. J. Mershon, R. J. Lee. "The Use of Fractal Dimension to Characterize Individual Airborne Particles." Presented to the 1988 EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Raleigh, NC, May 1988; published in Measurement of Toxic and Related Air Pollutants, Air Pollution Control Association, Pittsburgh, PA, 1988, pp. 548-555.

Casuccio, G. S., A. J. Schwoeble, B. C. Henderson, R. J. Lee, P. K. Hopke, G. M. Sverdrup. "The Use of Computer-Controlled SEM and Microimaging to Assist in Airborne Particulate Characterization." Presented to the Fine Particle Society, Santa Clara, CA, July 1988.

Hopke, P. K., D. S. Kim, R. J. Lee, G. S. Casuccio. "Use of a Rule-Building Expert System for Classifying Single Particles Based on SEM Analysis." Presented to EPA/APCA Symposium on Measurement of Toxic and Related Air Pollutants, Raleigh, NC, May 1987; and APCA Specialty Conference, NC, June, 1987; published in Measurement of Toxic and Related Air Pollutants, Air Pollution Control Association, Pittsburgh, PA, 1987, pp. 496-501.

Kim, D. S., P. K. Hopke, G. S. Casuccio, R. J. Lee. "Source Composition Profiles from CCSEM." Presented to the 80th Annual Meeting of the Air Pollution Control Association, New York, NY, June 21-26, 1987.

Kim, D. S., P. K. Hopke, D. L. Massart, L. Kaufman, G. S. Casuccio, R.J. Lee. "Multivariate Analysis of CCSEM Auto Emission Data." Presented to the Second International Symposium on Highway Pollution, London, July 1986; published in The Science of the Total Environment, Vol. 59, Elsevier Science Publishers B.V., Amsterdam, 1987.

Lentzen, D. E., R. J. Lee, G. S. Casuccio, G. R. Dunmyre. "Field Methods for Fixing Particulate Samples to Their Filter Substrates." Presented to the American Industrial Hygene Association Convention, Montreal, Canada, May 31-June 6, 1987.

Lee, R. J., G. S. Casuccio. "Rapid Turnaround for TEM Asbestos Measurements." Presented to 1986 Johnson Conference, Johnson, VT, July 14-18, 1986.

Lee, R. J., J. S. Walker, J. J. McCarthy. "Evolution of Automated Electron Microscopy." Presented to Electron Microscopy Society of America, Microbeam Analysis Society, Albuquerque, NM, August 10-15, 1986.

Lee, R. J. "Blank Data Comparisons and Lab Procedures." Presented to EPA's Peer Review Committee on Asbestos Analytical Procedures, Cincinnati, OH, April 1986.

Lee, R. J. "Application of Computer Controlled Electron Microscopy in Materials Science." Presented to the ASM Meeting, Louisville, CO, March 1986.

Lee, R. J., J. S. Walker. "Application of Computer-Controlled Microscopy in Applied Mineralogy." Presented to the General Meeting of the International Mineralogical Association, Stanford, CA, July 13-18, 1986.

Dunmyre, G. R., R. J. Lee, G. S. Casuccio, B. A. Smith. "Rapid Electron Microscopy Techniques for Clearance Testing." Presented to the Air Pollution Control Association International Specialty Conference. Atlantic City, NJ, November 4-7, 1986.

Lentzen, D. E., R. J. Lee, G. S. Casuccio, G. R. Dunmyre. "Airborne Asbestos Sampling Procedures." Presented to the Air Pollution Control Association International Specialty Conference, Atlantic City, NJ. November 4-7, 1986.

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Kelly, J. F., R. J. Lee. "SEM/X-Ray Signal Processing Applied to Quantitative Metallography." Presented to 112th AIME Annual Meeting, Atlanta, GA, March 6, 1983.

Mould, R. P., J. S. Lally, R. J. Lee. "Assessment of Sheet Steel Cleanliness." Presented to the American Society for Metals, Plymouth, MI, April 12, 1983.

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