

Richard J. Lee, Ph.D.

Title: CEO

Education:

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

Employment History:

- 1985-Present RJ Lee Group, Inc.,
- 1973-1985 U. S. Steel Technical Center, Head - Physics, Electron Microscopy and Surface Analysis Section
- 1971 Purdue University, Associate Professor
- 1970 Purdue University, Assistant Professor

Summary:

- » Pioneered the use of quantitative electron diffraction techniques for the identification of asbestos
- » Developed automated techniques for combined x-ray microanalysis and electron microscopy
- » Developed and manufactured first PC-based Scanning Electron Microscope
- » Developed and manufactured forensic product for GSR
- » Developed and manufactured forensic LIMS software

Honors, Awards, Fellowships & Memberships:

- » Microbeam Analysis Society
- » ASM International
- » ASTM Committee
- » American Concrete Institute
- » American Ceramic Society
- » National Stone, Sand and Gravel Association
- » International Standards Organization
- » Health Effects Institute - Asbestos Research Literature Review Panel
- » EPA Scientific Review Panel on Air Chemistry and Physics
- » EPA Select Panel for Development of Methodology for Asbestos Analysis by Transmission Electron Microscopy
- » 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
- » Entrepreneur of the Year – Mid-Atlantic States, 1991
- » Innovator of the Year – North Dakota, 1998
- » Honorary Doctor of Science – University of North Dakota, 1996

Patents

US 5,281,792 A - Richard J. Lee, James L. Beene, David P. Jeffrey, Thomas L. Jones, "Battery Warmer", RJ Lee Group, Inc., January 25, 1994.

US 5,376,799 A - Frederick H. Schamber, Fred C. Schwerer, Albert H. Beebe, Richard J. Lee, "Turbo-Pumped Scanning Electron Microscope", RJ Lee Group, Inc., December 23, 1994.

US 5,327,231 A - Michael J. Krummey, Richard J. Lee, James E. Nesbitt, William H. Powers, Jr., Alfred J. Schwoeble, "Method of Simultaneously Recording Dynamic Digital Data, an Analog Audio Signal and a Video Signal", RJ Lee Group, Inc., July 5, 1994.

US 5,216,500 A - Michael J. Krummey, Richard J. Lee, James E. Nesbitt, William H. Powers, Jr., Alfred J. Schwoeble, "Simultaneously Recording of Video Image and Microscope Stage Position Data", RJ Lee Group, Inc., June 1, 1993.

US 5,004,920 - Richard J. Lee, Barbara A. Smith, Robert G. Theys, Robert A. Theys, Judy A. Murphy, "Method of Preparing Membrane Filters for Transmission Electron Microscopy", RJ Lee Group, Inc., April 2, 1991.

US 4,831,236 - Henry P. Lentz, Larry R. Delaney, Charles J. Matone, Jr., Richard J. Lee, Dan H. Lang, "Apparatus for clearing a cellulose ester filter", RJ Lee Group, Inc., May 16, 1989.

Publications and Presentations

Lee, Richard J., "The Rising Phoenix," R&D Magazine, Vol. 53, No. 3, 2011, May/June.

Lee, R.J., K.A. Allison, K.L. Bunker, K.E. Harris, J.C. Huntington, M.S. Sanchez, B.R. Strohmeier, D.R. Van Orden, "The Challenges of Defining and Characterizing Asbestos," presented at the 45th Annual Meeting of the Northeastern Section, GSA, S3. Asbestos I: Past Present, and Future, March 14, 2010.

Lee, R. J., Van Orden, D. R., and Sanchez, M. "Common Errors Associated with the Analysis of Tremolitic Talc," presented at 2010 ME Beard Conference, San Antonio, TX, January 28, 2010.

Lee, R.J., D.R. Van Orden, K.A. Allison, K.L. Bunker, C. Huntington, "Characterization of Airborne Amphibole Particles in Libby, MT," Indoor and Built Environment, Vol. 18, No. 6, pp. 524-530, December 2009.

Jones, A.D., A. Apsley, S. Clark, J. Addison, D.R. Van Orden, **R.J. Lee**, "Laboratory Tests to Compare Airborne Respirable Mass and Fibre Concentrations from Soil Samples from Libby, Montana," Indoor and Built Environment, Vol 19, No. 2, pp 286-297, August 2009.

Strohmeier, B.R., K.L. Bunker, C.L. Lopano, J.P. Marquis, Jr., J.D. Piasecki, K.E. Bennethum, R.G. White, T.S. Nunney, and **R.J. Lee**, "XPS and SEM/STEM Characterization of Silver Nanoparticles Formed from the X-ray-Induced and Thermal Reduction of Silver Behenate," Microscopy and Microanalysis 2009 Annual Meeting: Microscopy and Microanalysis of Nanostructured Materials, Richmond, VA, July 26-30, 2009.

Strohmeier, B.R., J.D. Piasecki, K.L. Bunker, J.L. Sturgeon, R.G. White, and **R.J. Lee**, "X-ray Photoelectron Spectroscopy (XPS): The Original Nano-Analytical Technique for Materials Surface Characterization," presented at the Electron Microscopy & Microanalysis Workshop: Problem Solving in the Nanotechnology World, sponsored by RJ Lee Group, Inc. and Hitachi High Technologies America, Inc., June 16-17, 2009.

Van Orden, D. R., **Lee, R. J.**, Allison, K. A., and Addison, J. (2009). "Width Distributions of Asbestos and Non-Asbestos Amphibole Minerals," *Indoor Built Environment*, 18, pp. 531–540.

Bunker, K.L., D. McAllister, K.A. Allison, K. Wagner, K. Rickabaugh, A.M. Levine, B.R. Strohmeier, **R.J. Lee**, "TEM and FESEM: The Right Combination for Enhanced Particle Characterization," presented at the Hitachi/ORNL Workshop on Advanced Electron Microscopy in Materials Science, Oak Ridge National Laboratory, Oak Ridge, TN, November 18-19, 2008.

Bunker, K.L., M. Sanchez, G. Casuccio, T. Lersch, B. R. Strohmeier, **R. J. Lee**, "Complementary STEM and SEM Imaging of Nanoparticles in an Ultra-high Resolution, Low kV SEM," presented at Microscopy & Microanalysis 2008 Meeting, Albuquerque, NM, August 2008.

Huntington, C., B. Clark, J. Ptasienski, K.L. Bunker, B.R. Strohmeier, **R.J. Lee**, "A New Method for Fracturing Mineral Particles for Cross-Sectional FESEM Analysis," presented at the Microscopy & Microanalysis 2008 Meeting, Albuquerque, NM, August 2008.

Bunker, K.L., T.L. Lersch, D. McAllister, K.A. Allison, K.E. Harris, K. Wagner, K. Rickabaugh, A.M. Levine, B.R. Strohmeier, **R.J. Lee**, "TEM and FESEM: The Right Combination for Enhanced Particle Characterization," presented at the Microscopy & Microanalysis 2008 Meeting, Albuquerque, NM, August 2008.

Sanchez, Matt S., **Richard J. Lee**, and D. R. Van Orden, "Extinction Characteristics of Six Tremolites with Differing Morphologies," *Microscope*, Vol. 56, No. 1, pp 13-27, 2008.

Lee, R.J., B.R. Strohmeier, K.L. Bunker, D.R. Van Orden, "The Challenge of Naturally Occurring Asbestos - Characterization of Amphibole Particles in Mixed Mineral Dust," 2008 ASTM Johnson Conference on Critical Issues in Monitoring Asbestos, Burlington, VT, July 2008.

Bunker, K.L., B. R. Strohmeier, K. E. Harris, R. Hoch, **R. J. Lee**, "Complementary TEM and FESEM Characterization of Amphibole Particles in Mixed Mineral Dust from Libby, Montana, U.S.A." presented at Inter/Micro 2008, Chicago, IL, July 2008.

Glenn, R.E., **R.J. Lee**, L.M. Jastrem, K.L. Bunker, D.R. Van Orden, B.R. Strohmeier, "Asbestos: By Any Other Name, Is It Still?" *Chemical Regulation Reporter*, Vol. 32, No. 21, pp. 22-33, 2008.

Huntington, J.C., J.J. Ptasienski, K.L. Bunker, B.R. Strohmeier, D.R. Van Orden, **R.J. Lee**, "A New Method for Fracturing Mineral Particles for Cross-Sectional FESEM Analysis," *Periodico di Mineralogia*, Vol. 77, No. 2, pp. 43-50, 2008.

Glenn, R.E., **R.J. Lee**, L.M. Jastrem, K.L. Bunker, D.R. Van Orden, B.R. Strohmeier, "Asbestos: By Any Other Name, Is It Still?" *Occupational Safety and Health Reporter*, Vol. 38, No. 22, pp. 428-433, 2008.

Lee, R.J., B.R. Strohmeier, K.L. Bunker, D.R. Van Orden, "The Challenge of Naturally Occurring Asbestos - Characterization of Amphibole Particles in Mixed Mineral Dust," 2008 ASTM Johnson Conference on Critical Issues in Monitoring Asbestos, Burlington, VT, July 2008.

R.J. Lee, B.R. Strohmeier, K.L. Bunker, M. Sanchez, D.R. Van Orden, "The Challenge of Naturally Occurring Asbestos - Characterization of Amphibole Particles in Mixed Mineral Dust," Keynote presentation at the 2008 Roy J. Shlemon Specialty Conference on the Geological Assessment of Naturally Occurring Hazardous Substances, AEG Foundation and Association of Environmental & Engineering Geologists, Folsom, CA, June 2008.

Lee, R. J., D. R. Van Orden, "Airborne Asbestos in Buildings," *Regulatory Toxicology and Pharmacology*, Vol. 50, Issue 2, pp. 218-225, 2008.

Lee, R. J., B. R. Strohmeier, K. L. Bunker, D. R. Van Orden, "Naturally Occurring Asbestos – A Recurring Public Policy Challenge," *Journal of Hazardous Materials*, Vol 1533, pp.1-21, 2008.

Ross, M., Langer, A.M., Nord, G.L., Nolan, R.P., **Lee, R.J.**, Orden, D.V., Addison, J., "The Mineral Nature of Asbestos," *Regulatory Toxicology and Pharmacology*, 2008 (in press).

Strohmeier, B. R., K. L. Bunker, K. E. Harris, R. Hoch, and **R. J. Lee**, "Complementary TEM and FESEM Characterization of Amphibole Particles in Mixed Mineral Dust from Libby," *Montana, U.S.A., The Microscope*, Vol. 55, No. 4, pp. 173-188, 2007.

Lee, R.J., B.R. Strohmeier, "Asbestos and Other Mineral Fibers: A Roadmap for Scientific Research," Presented at National Institute for Occupational Safety and Health (NIOSH) Public Meeting, Washington, DC, May 2007.

Strohmeier, B. R., K. L. Bunker, K. E. Harris, R. Hoch, and **R. J. Lee**, "The Database Solution to Particle-by-Particle Analysis of Mixed Mineral Dust," *Microscopy Today*, Vol. 15, No. 6, 44-47, November 2007.

Harris, K. E., K. L. Bunker, B. R. Strohmeier, R. Hoch, and **R. J. Lee**, "Discovering the True Morphology of Amphibole Minerals: Complementary TEM and FESEM Characterization of Particles in Mixed Mineral Dust," *Modern Research and Educational Topics in Microscopy*, A. Méndez-Vilas and J. Díaz, Eds., *Formatex Microscopy Book Series*, No. 3, Vol. 2, Formatex Research Center, Badajoz, Spain, pp. 643-650, 2007.

Van Orden, D.R., **R.J. Lee**, S.R. Badger, "Characterizing Asbestos Fiber Comminution Resulting from Preparation of Environmental Samples," *Powder Technology*, Vol 162, pp 183-189, 2006.

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Melnick, F., H. Bhattacharjee, **R.J. Lee**, "The Role of Sample Collection and Scanning Electron Microscopy (SEM) in Contaminant Analysis in Hospital Pharmacies," A Pictorial Presentation, *Microscopy and Microanalysis Conference*, Honolulu, HI, August 2005.

Melnick, F., H. Bhattacharjee, **R.J. Lee**, "Field Emission Scanning Electron Microscopy (FE-SEM): A Valuable Tool in Contamination Characterization," Poster presentation, Microscopy & Microanalysis Conference, August 2005.

Van Orden, D.R., **R.J. Lee**, K.A. Allison, "A Review of the Analysis of Amphibole Fibers," Presented at the 2005 SME Meeting, Salt Lake City, UT, February 2005.

Sahu, S., S.R. Badger, R.J. Lee, N. Thaulow, "Determination of Water-to-Cement Ratio of Hardened Concrete by Scanning Electron Microscopy," Cement and Concrete Composites, 2004.

Pattanaik, S., G.P. Huffman, S. Sahu, **R.J. Lee**, "X-ray Absorption Fine Structure Spectroscopy and X-ray Diffraction Study of Cementitious Materials Derived from Coal Combustion By-products," Cement and Concrete Research, December 2003.

Bailey, K.F., J. Kelse, A.G. Wylie, **R.J. Lee**, "The Asbestiform and Nonasbestiform Mineral Growth Habit and Their Relationship to Cancer Studies," A Pictorial Presentation, 2003.

Marchand, J., E. Samson, Y. Maltais, **R.J. Lee**, "Predicting the Performance of Concrete Structures Exposed to Chemically Aggressive Environments - Field Validation," Canadian Society for Civil Engineering, June 2002.

Lee, R.J., H.P. Lentz, D.G. Kritikos, A.M. Toms, "One-Button Wear Debris Analysis," Microscopy Society of America, Microsc. Microanal. 8 (Suppl. 2), 2002.

Sahu, S., S.A. Brown, **R.J. Lee**, "Thaumasite Formation in Stabilized Coal Combustion By-Products," Cement & Concrete Composites 24, pp 385-391, 2002.

Lange, J.H., K.W. Thomulka, **R.J. Lee**, D.R. Van Orden, "Surface and Passive Monitoring for Asbestos in an Industrial Facility," Indoor Build Environment, pp 327-333, 2002.

Lee, R.J., H.P. Lentz, A.M. Toms, "An SEM approach to Wear Debris Analysis," Presented at the JOAP Conference, 2002.

Lee, R.J., D.R. Van Orden, W.H. Powers, K.A. Allison, "Implications of Analytical Techniques for Asbestos Identification," Presented at the National Stone, Sand & Gravel Association's Environment, Safety and Health Forum, September 2001.

Lee, R.J., G.S. Casuccio, S.F. Schlaegle, T.L. Lersch, "The Characterization and Speciation of Particulate Matter," Presented at the Air & Waste Management Association Annual Conference and Exhibition, Orlando, Florida, June 2001.

Badger, S.R., B.A. Clark, S. Sahu, N. Thaulow, **R.J. Lee**, "Determination of the Water to Cement Ratio of Hardened Concrete Utilizing Backscattered Electron Imaging," Presented at the Transportation Research Board Conference, Washington DC, January 2001.

Badger, S.R., B.A. Clark, S. Sahu, N. Thaulow, **R.J. Lee**, "Backscattered Electron Imaging to Determine Water-to-Cement Ratio of Hardened Concrete," Transportation Research Record No. 1775, Concrete, Materials and Construction, pp. 17-20, 2001.

Sahu, S., A.E. Snyder, S.R. Badger, **R.J. Lee**, "Depth Profiling and Phase Discrimination in Deteriorated Concrete Utilizing Scanning Electron Microscopy with Automated Point Count Analysis," Proceedings Twenty-Third International Conference on Cement Microscopy, pp 383-390, 2001.

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Thaulow, N., **R.J. Lee**, K.E. Wagner, S. Sahu, "Effect of Calcium Hydroxide Content on the Form, Extent and Significance of Carbonation," Presented at the Calcium Hydroxide Workshop, Anna Maria Island, Florida, November (2000), The American Ceramic Society. pp 191-202 (2001).

Casuccio, G.S., B.G. Osgood, S.R. Badger, **R.J. Lee**, "Investigation of Nuisance Dust Near A Cement Plant," Presented at the Air & Waste Management Association's 93rd Annual Conference & Exhibition, Salt Lake City, UT, June 2000.

Sahu, S., B.A. Clark, **R.J. Lee**, "Delayed Ettringite Formation and the Mode of Concrete Failure," Materials Science of Concrete - The Sidney Diamond Symposium, pp 379-394, 1998.

Badger, S.R., N. Ritchie, **R.J. Lee**, N. Barbi, "New Technology to Measure Steel Cleanliness Using Computer Controlled Scanning Electron Microscopy," Proceedings AISE Conference, 1998.

Badger, S.R., **R.J. Lee**, "Innovative Microscopic Investigations in Cement and Concrete," Engineering Foundation Conference, 1998.

Badger, S.R., **R.J. Lee**, L. Zhu, "Using Computer Controlled Scanning Electron Microscopy (CCSEM) to Measure Steel Cleanliness," Electric Arc Furnace Conference Proceedings, 1998.

Lee, R.J., D. Van Orden, I.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.

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

Kennedy, S.K., 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.

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