

April 30, 2022

CURRICULUM VITAE

Robert Patrick Nolan, Ph.D.

Address:

Office: The Graduate School and University Center of The City University of New York
365 Fifth Avenue
New York, NY 10016-4309
Tel: (212) 817-8248
Websites: www.rpnolan.com, www.ierfinc.org, www.e-esi.com
E-mail: rpolan@gc.cuny.edu

Home: 928 Summit Avenue
Jersey City, NJ 07307
Tel & Fax: (201) 420-8313
E-mail: rpn@rpnolan.com

Date of Birth: January 28, 1955

Citizenship: USA

Current Area of Research: Effects of agents in the environment.

Education:

BA, Chemistry, Rutgers University, Newark, NJ, 1978.
Graduate Study in Chemistry, University of Georgia, Athens, GA, 1978-1979.
MPhil, Chemistry, City University of New York, NY, 1985.
PhD, Chemistry, City University of New York, NY, 1986.

Current Position:

1992 - Present Member, Doctoral Faculty in Chemistry, The Graduate School and University Center, The City University of New York, New York, NY.

1995 - Present Member, Doctoral Faculty in Earth and Environmental Sciences, The Graduate School and University Center, The City University of New York, NY.

2019-Present Research Professor, Master's Program in Nanoscience, The Graduate School and University Center, The City University of New York, NY.

2001 - Present President, Environmental Studies International LLC, New York, NY.

- 2000 - Present President, International Environmental Research Foundation, New York, NY.
 2019- 2022 Treasurer, Chemical Marketing & Economics (cme-stem.org), Branchburg, N.J.

Research/Professional Experience:

- 2003 - 2016 Deputy Director, Center for Applied Studies of the Environment, The Graduate School and University Center, The City University of New York, New York, NY.
- 1988 - 2003 Associate Director, Environmental Sciences Laboratory, Applied Sciences Institute, Brooklyn College of The City University of New York, Brooklyn, NY.
- 1994 -1997 Research Associate, Applied Sciences Institute, The Graduate School and University Center, The City University of New York, New York, NY.
- 1993 - 2016 Member, Center for Applied Studies of the Environment, The Graduate School and University Center, The City University of New York, New York, NY.
- 1988 - 1996 Assistant Professor, Department of Chemistry, Brooklyn College, Brooklyn, NY.
- 1986 - Present Visiting Scientist, American Museum of Natural History, New York, NY.
- 1987 - 1988 Instructor, Center for Polypeptide and Membrane Research, Mount Sinai School of Medicine, New York, NY.
- 1986 - 1988 Fellow, Stony Wold-Herbert Fund.
- Summers-1986, 7 Academic Tutor, State College of Optometry, State University of New York, NY.
- 1986 - 1987 Research Associate, Center for Polypeptide and Membrane Research, Mount Sinai School of Medicine, NY.
- 1984 - 1986 Research Associate, Environmental Sciences Laboratory, Mount Sinai School of Medicine, NY.
- Summer-1982 Recitation Instructor, PREP, Columbia College of Physicians and Surgeons, NY.
- Fall 1981 Research Assistant, Laboratory of John A. Hamilton, Memorial Sloan-Kettering Cancer Center, NY.
- 1980 - 1986 Graduate Student, PhD Program in Chemistry, The City University of New York, NY.
- 1979 - 1986 Graduate Student, Environmental Sciences Laboratory, Mount Sinai School of Medicine, NY.
- 1978 - 1979 Graduate Assistant, University of Georgia, Athens, GA.
- 1978 - 1979 Graduate Student, Department of Chemistry, University of Georgia, Athens, GA.
- Summers-1977- 9 Research Assistant, Environmental Sciences Laboratory, Mount Sinai School of Medicine, NY.

Honors:

- Student Award, Federation of Analytical Chemists and Spectroscopists, 1976.
 Student Award, Analytical Division, American Chemical Society, 1976.
 Scholarship Award, American Microchemical Society, 1977.
 Fellow, Stony Wold-Herbert Fund, 1986-8.
 Fellow, National Research Council, November, 1996.

Mentor's Award, Siemens & Westinghouse Science & Technology Competition, 1999
Fellow, Cyprus Fulbright Commission, 2001.
Fellow, International Union of Pure and Applied Chemistry, 2002.

Societies:

Chemists' Club of New York.
American Chemical Society.
The Harvey Society.

Graduate Thesis:

Interaction of Quartz with Biological Membranes. Submitted to the Graduate Faculty in Chemistry in partial fulfillment of the requirements for the degree of Doctor of Philosophy, The City University of New York, p. 216, 1986.

Committees, Consultations and Testimony:

1. Expert Testimony for the United States Consumer Product Safety Commission On Asbestos in Play Sand, Bethesda, Maryland, December 7, 1988.
2. National Toxicology Program, National Institute of Environmental Health Sciences. Committee to formulate study protocol comparing biological activities of asbestos and non-asbestos amphibole minerals. Research Triangle Park, N.C. October 11, 1989.
3. Occupational Safety and Health Administration, U.S. Department of Labor. Expert Testimony on Asbestos Standard Revisions, April, 1990.
4. Advisor to World Health Organization - International Program on Chemical Safety (IPCS), Environmental Health Criteria for Selected Synthetic Organic Fibres, Co-Chairman Environmental Group, London, United Kingdom, October, 1992.
5. Signer of the Heidelberg Appeal to Heads of States and Governments (among the 450 scientists' and intellectuals who approved the terms were 62 Nobel laureates), April 14, 1992
6. Supreme Court of the United States. *Amici Curie* brief in the case of William Daubert vs. Merrell Dow Pharmaceuticals, Inc. Co-Author. *Amici* have no interest in the outcome of this case, any other "Bendectin case", or any case in which injury is allegedly caused by pharmaceuticals. I appear solely as an individual, on my own behalf, to inform the Court of my view as to the appropriate criteria for acceptable scientific evidence, and to respond to certain misconceptions that pervade some of the amicus briefs filed in support of Petitioners and which could adversely affect the judgment of this Court if uncorrected. My interest transcends the issues in this case or the positions of any party. October Term, 1992. No. 92-102.
7. Editorial and Scientific Board, Carcinogenicity of Inorganic Substances. Risk from Occupational Exposure. The Royal Society of Chemistry, Cambridge, UK.

Committees, Consultations and Testimony (cont):

8. Member of the Scientific Organizing Committee and Scientific and Organizing Secretariat for an International Workshop on the Health Effects of Chrysotile Asbestos: Contribution of Science to Risk Management Decisions, Montréal, Québec, Canada, September 14-16, 1997.
9. Scientific and Organizing Secretariat for an International Workshop on Simian Virus 40 (SV-40), Asbestos and Mesothelioma, New York, NY, November 9-10, 1997.
10. Member of the Scientific Organizing Committee for an International Conference on Water Problems in the Mediterranean Countries, Nicosia-North, Cyprus, November 17-21, 1997.
11. Titular Member, Commission on Toxicology (VII.4), International Union for Pure and Applied Chemistry, August, 1997 – 2002.
12. Member, Graduate Council. The Graduate School and University Center, The City University of New York. 1998-1999, 2006-08, 2010-2012, 2014-2020.
13. Executive Committee, Graduate Council, The Graduate School and University Center, The City University of New York, 2018-2021.
14. Report and Testimony on Mineralogy and Experimental Animal Studies on Tremolitic Talc, Meeting of the National Toxicology Program Board of Scientific Counselors, Report on Carcinogens Subcommittee, Talc Asbestiform and Non-Asbestiform, Washington, DC, December 13-14, 2000.
15. Scientific and Organizing Secretariat, International Symposium on the Health Hazard Evaluation of Fibrous Particles Associated with Taconite Ore, St. Paul, MN, March 30 - April 1, 2003.
16. Chair, Analytical Topical Discussion Group and Member, Board of Directors, American Chemical Society's, New York Section, 2002-present.
17. United States Court of Appeals for the Ninth Circuit. *Amici* Curie brief in the case of Lawrence O'Conner and Mary Christine Crilley vs. Boeing North America and Rockwell International, Co-Author. *Amici* are scientists, including physicians, chemists, epidemiologists, and environmental scientists, experts in risk analysis and risk assessment and physicists, who have studied the issue of the role that scientific issues play in public affairs. *Amici* are concerned that the holding of the three-judge panel with respect to the quantum of "knowledge" required of a plaintiff to begin the running of the statute of limitations indicates that the panel was confused as to the concepts of "possibility," "probability," and established scientific fact, and that the panel's wording also confuses the degree of knowledge or certainty needed to begin the running of the period of limitation with the degree of proof required to establish a claim on the merits, January 2003.
18. Faculty Senate, City University of New York, New York, NY. 2004- 2010, 2014-2023.
19. Peer Consultant to Eastern Research Group under contract to the US Environmental Protection Agency to provide scientific input to the EPA on Issues Relating to Response Activities to the Attack on World Trade Center, specifically the decision to select asbestos as the surrogate to determine the risk from exposure to Contaminants, 2004.

Committees, Consultations and Testimony (cont):

20. Chair, Analytical Subdiscipline, Chemistry, Graduate School and University Center, The City University Of New York, New York, NY 2006-2022.
20. Liaison of Earth and Environmental Studies Panel, University Committee on Research Awards, The City University of New York, New York, NY 2006-2008.
21. Executive Committee, University Committee on Research Awards, The City University of New York, New York, NY 2006- 2008.
22. Facility Advisory Committee, University Faculty Senate, 2006, Co-Chair, Facility Advisory Committee, University Faculty Senate, 2007, Chair, Facility Advisory Committee, University Faculty Senate, 2008.
23. Testimony before United States Congress, Committee on Energy and Commerce, Legislative Hearing on S. 742 and Draft Legislation to Ban Asbestos in Products Subcommittee on Environment and Hazardous Materials, February 28, 2008.
24. Director, Eastern Analytical Symposium, 2011-present.
25. Student/Faculty Disciplinary Committee, Graduate School and University Center, The City University of New York, 2011-21.
26. Chair, Fellow Nominating Committee, New York Section, American Chemical Society, 2010-present.
27. Brief Amicus Curiae of Richard Wilson, Patricia Buffler, John H Duffus, Kenneth R Foster, Ronald E Gots, Thomas A Kubic, Steven H Lamm, A Alan Moghissi, Robert Nolan, Malcolm Ross, Emanuel Rubin, James D Watson. Supreme Court of Pennsylvania, Western District, No 38 WAP 2010, Betz v Allied Signal, Inc and Ford Motor Company, April 25, 2011.
28. Brief Amicus Curiae of Richard Wilson, Patricia Buffler, John H Duffus, Kenneth R Foster, Ronald E Gots, Steven H Lamm, Arthur M Langer, A Alan Moghissi, Robert Nolan, Emanuel Rubin, James D Watson in Support of Defendant and Respondents in the Court of Appeal of the State of California, Second Appellate District, Division Three, Ruben v Honeywell International, Inc, Case No BC 396559, June 12, 2011.
29. Brief Amicus Curiae of Richard Wilson, Patricia Buffler, John H Duffus, Ronald E Gots, Dudley Herschbach, Steven H Lamm, Arthur M Langer, A Alan Moghissi, Robert Nolan, Gordon L Nord, Emanuel Rubin, James D Watson, Ann G Wylie in Support of Appellee/Cross-Appellant Ford Motor Company in the Court of Special Appeals of Maryland, September 2011 Term.
29. Treasurer, New York Section, American Chemical Society, 2012-15.
30. Presentation on “The Safe Use of Chrysotile in Malaysia and Elsewhere” to Department of Occupational Safety and Health (DOSH), Malaysia Ministry of Human Resources, Putrajaya, Malaysia, May 14, 2015.

Committees, Consultations and Testimony (cont):

31. Member, Doctoral Faculty Policy Committee, The Graduate School and University Center of The City University of New York, September 2016 through August 2017.
32. Amended Brief Amicus Curiae of John Henderson Duffus, Ronald E Gots, A Alan Moghissi, Robert Nolan, Gordon L Nord, Emmanuel Rubin in Support of Respondents, Supreme Court of Florida, Case No SC16-2182, L.T. No 4D13-4351, 4D14-146. Richard DELISLE, Petitioner v. CRANE CO., et al. Respondents, November 3, 2017.
33. Brief Amicus Curiae of Dr. John Henderson Duffus, Ronald E Gots MD, Professor Arthur M Langer, Professor Robert Nolan, Dr. Gordon L Nord, Alan John Rogers and Professor Emanuel Rubin in Support of Ford Motor Company. Court of Appeals State of New York, In Re: New York City Asbestos Litigation Juni v AO Smith, August 30, 2018.
34. Board of Directors, CME – Chemical, Marketing & Economics, Organizer Monthly Webinars, 2019-2022.
35. Organizer, the Fourth CME NASA Symposium, Atlanta, Georgia, August 23-24, 2021.

Publications in Peer Reviewed Journals:

1. Nolan RP, Langer AM, Harington JS, Oster G, Selikoff IJ: Quartz hemolysis related to its surface functionalities. *Environ Res* 26:503-520, 1981.
2. Yaeger H, Russo D, Yanez M, Garardi D, Nolan RP, Kagan E, Langer AM: Cytotoxicity of short fiber chrysotile asbestos for human alveolar macrophages: Preliminary observations. *Environ Res* 30:224-232, 1983.
3. Langer AM and Nolan RP: Asbestos in potable water supplies and attributable risk of gastrointestinal cancer. *Northeast Environ Sci* 5:41-53, 1986.
4. Langer AM, Nolan RP, Constantopoulos SH, Moutsopoulos HM: The agent for Metsovo lung: Asbestiform tremolite from whitewash. *Lancet* 1:965-967, 1987.
5. Constantopoulos SH, Langer AM, Saratzis N, Nolan RP: Metsovo lung: A regional environmental disease phenomenon. *Lancet* 2:452-453, 1987.
6. RP, Langer AM, Weisman I, Herson GB: Surface character and membranolytic activity of rutile and anatase--two titanium dioxide polymorphs. *Brit J Industr Med* 44:687-698, 1987.
7. Nolan RP, Langer AM, Eskenazi RA, Herson GB, Foster KW: Membranolytic activities of quartz standards. *Toxicol In Vitro* 1:239-245, 1987.
8. Nolan RP, Langer AM, Herson GB: Characterization of palygorskite specimens from different geological locales for health hazard evaluation. *Brit J Industr. Med*, 48: 463-475, 1991
9. Nolan RP, Langer AM, Addison J: Lung content analysis of cases occupationally exposed to chrysotile asbestos. *Environmental Health Perspectives*; Volume 102, Supplement 5, pp. 245-250, October, 1994.

Publications in Peer Reviewed Journals (cont):

10. Langer AM, Nolan RP: Chrysotile biopersistence in the lungs of persons in the general population and exposed workers. *Environmental Health Perspectives*; Volume 102, Supplement 5, pp. 235-239, October, 1994.
11. Wilson R, Langer AM, Nolan RP, Gee JBL, Ross M: Asbestos in New York City public school buildings – public policy: Is there a scientific basis? *Regulatory Toxicology and Pharmacology* 20, pp. 161-169, 1994.
12. Nolan RP, Langer AM, Wilson R: A Risk Assessment for Exposure to Grunerite (Amosite) Asbestos in an Iron Ore Mine. *PNAS USA* 96(7): 3412-3410, 1999.
13. Wilson R, Langer AM, Nolan RP: A Risk Assessment for Exposure to Glass Wool. *Regulatory Toxicology and Pharmacology* 30: 96-109, 1999.
14. Manfredi JJ, Dong J, Liu WJ, Resnick-Silverman L, Qiao R, Chahinian P, Saric M, Gibbs AR, Phillips JI, Murray J, Axten CW, Nolan RP, Aaronson SA (2005) Evidence Against a Role for SV40 in Human Mesothelioma. *Cancer Research* 65: 2602-2609.
15. Nolan RP, Ross M, Nord GL, Axten CW, Osleeb JP, Domin SG, Price B, Wilson R (2005) Risk Assessment for Asbestos-Related Cancer from the 9/11 Attack on the World Trade Center, *J Occup Environ Med* 47: 817-825.
16. Nolan RP, Ross M, Nord GL, Raskina M, Phillips JI, Murray J, Gibbs GW (2006) Asbestos Fiber-Types and Mesothelioma Risk in the Republic of South Africa. *Clay Science*.12:223-227.
17. Nolan RP, Langer AM, Ross M, Addison J, Gee JBL (2007) Non-Occupational Exposure to Commercial Amphibole Asbestos and Asbestos-Related Disease: Is there a Role for Grunerite Asbestos (Amosite)? *Proceedings of the Geologists' Association* 118: 117-12.
18. Taunton AE, Gunter ME, Nolan RP, Phillips JI (2010) Characterization of pleural plaques from lung tissue of non-human primates. *Periodico di Mineralogia* 80 (1 Spec Issue):167-179.
19. Wilson R, Kelse J, Nord GL, Nolan RP, Langer AM (2016) Asbestos Exposures Associated with Motorcycle Riding and Hiking on Asbestos-Containing Soils: Risk of Asbestos-Related Cancer. *Technology and Innovation* 17(3): 93-112.
20. Nolan RP, Wilson R (in preparation) Pleural Mesothelioma Deaths from Asbestos: Comparison of Exposure by Type to the General Population.

Publications in Symposia Proceedings (Peer Reviewed):

1. Nolan RP, Langer AM, Herson GB: Membranolytic activity of palygorskite and sepiolite. In: *NATO Advance Research Workshop on Effects of Mineral Dusts on Cells*. Mossman BT, Begin RO. Springer-Verlag; Berlin, pp. 37-48, 1989.

Publications in Symposia Proceedings (Peer Reviewed) (cont):

2. Langer AM, Nolan RP: Fiber type and mesothelioma risk. In: Symposium on Health Aspects of Exposure to Asbestos in Buildings. Spengler JD, Ozkaynak H, McCarthy JF, Lee H. Energy and Environmental Policy Center, Harvard University, Cambridge, pp. 91-140, 1989.
3. Langer AM, Nolan RP: Fiber type and burden found in parenchymal tissues of workers occupationally exposed to asbestos in the United States: Implications for assessment of risk in general population. In: Mineral Fibers in the Non-Occupational Environment. Bignon J, Peto J, Saracci R (eds), Int'l Agency Res Cancer; Lyon, France, No. 90, pp. 330-335, 1989.
4. Nolan RP, Langer AM, Oechsle GW, Addison J, Colflesh DE: Association of tremolite habit with biological potential. In: NATO Advanced Research Workshop on Mechanisms in Fibre Carcinogenesis. R.C. Brown, J. Hoskins, N. Johnson, (eds), Albuquerque, New Mexico, October 22-25, 1990. pp. 231-251, 1991.
5. Langer AM, Nolan RP, Addison J: Distinguishing between amphibole asbestos fibers and elongate cleavage fragments of their non-asbestos analogues. In: NATO Advanced Research Workshop on Mechanisms in Fibre Carcinogenesis. R.C. Brown, J. Hoskins, N. Johnson, (eds), Albuquerque, New Mexico, October 22-25, 1990, pp. 253-267, 1991.
6. Langer AM, Nolan RP: Chrysotile: Its occurrence and properties as variables controlling biological effects. In: Workshop on Health Risks Associated with Chrysotile Asbestos. G.W. Gibbs, (ed). Jersey Channel Islands. November 14-17, 1993. *Annals of Occup. Hyg.* 38: 427-451, 1994.
7. Nolan RP, Langer AM: Physico-chemical properties of inorganic particles controlling biological activity. In: Carcinogenicity of Inorganic Substances Risks from Occupational Exposure. J.H. Duffus (ed) Royal Society of Chemistry, Cambridge, pp. 39-57, 1997.
8. Langer A, Nolan R: Physical-chemical properties of fibers other than asbestos in global use. *J Occup Health Safety - Australia NZ* 12: 263-278, 1997.
9. Nolan RP, Langer AM: The risk Assessment of the influence of chrysotile asbestos on human's health. In: Reports for International Scientific-Practical Conference on the topic "The Safe Usage of Chrysotile Asbestos" pp. 42-49, 1998. Ivano-Frankovsk, Ukraine, June 1-4, 1998 (in Russian).
10. Nolan RP, Langer AM: Concentration and Type of Asbestos Fibers in Air Inside Buildings. In: The Health Effects of Chrysotile-Asbestos: Contribution of Science to Risk-Management Decisions, Canadian Mineralogist, Special Publication 5, pp. 39-51, 2001.
11. Shcherbakov SV, Kashansky SV, Domnin SG, Nolan RP: Health effects associated with mining and milling chrysotile asbestos in the Urals Region of the Russian Federation. In: The Health Effects of Chrysotile-Asbestos: Contribution of Science to Risk Management Decisions, Canadian Mineralogist, Special Publication 5, pp. 187-198, 2001.
12. Domnin SG, Plotko E, Shtol A, Nolan RP: Morbidity in a cohort of children living in an asbestos production area. In: The Health Effects of Chrysotile-Asbestos: Contribution of Science to Risk-Management Decisions, Canadian Mineralogist, Special Publication 5, pp. 199-206, 2001.

Publications in Symposia Proceedings (Peer Reviewed) (cont):

13. Ross M, Nolan RP. History of asbestos discovery and use and asbestos-related disease in context with the occurrence of asbestos within ophiolite complexes. In: Ophiolite concept and the evolution of geological thought. Geological Society of America, Special Publication 373 pp 447-470, 2003.
14. Nolan RP, Ross M, Nord GL, Raskina M, Phillips JI, Murray J, Gibbs GW: Asbestos Fiber-Types and Mesothelioma Risk in the Republic of South Africa. *Clay Science* 12:223-227. 2006.
15. Ross M, Langer AM, Nord GL, Nolan RP, Lee RJ, Van Orden D, Addison J. The Mineral Nature of Asbestos. *Regulatory Toxicology and Pharmacology* 52(1): S26-S30, 2008.
16. Ross M, Nolan RP, Nord GL: The search for fibrous minerals within the Peter Mitchell Taconite Mine, Babbitt, Minnesota. *Regulatory Toxicology and Pharmacology* 52(1): S43-S50, 2008.
17. Wilson R, McConnell EE, Ross M, Axten CW, Nolan RP: Risk Assessment due to Environmental Exposures to Fibrous Particulates Associated with Taconite Ore. *Regulatory Toxicology and Pharmacology* 52(1): S245-S242, 2008.
18. Nolan RP, Langer AM: Rapporteur's Report: Risk Assessment of Asbestos and Fibrous Mineral Particulates. *Regulatory Toxicology and Pharmacology* 52(1): S246-S248, 2008.
19. Barlow CA, Nolan RP, Rogers A: Rapporteur's Report, Session 1: Defining Elongated Mineral Particles (EMP). *Toxicology and Applied Pharmacology* 361:47-49, 2018.
20. Langer AM, Nolan RP Chrysotile and Chrysophosphate: Chemical Modification of the Chrysotile Surface and Its Effect on Biological Behavior. *Toxicology and Applied Pharmacology* 361: 118-126, 2018.
21. Langer AM, Nolan RP The Role of Fiber Type and Cumulative Exposure in Controlling Mesothelioma Risk. *Toxicology and Applied Pharmacology* (In Press).

Books and Chapters in Books:

1. Langer AM, Nolan RP, Addison JA. Physico-chemical Properties of Asbestos as Determinants of Biological Health. In: Mineral Fibers and Health. Liddell FDK, Miller K (eds). CRC Monograph, pp. 211-228, 1991.
2. Nolan RP, Langer AM. Limitations of the Stanton Hypothesis. In: Health Effects of Mineral Dusts. Guthrie G, Mossman BT (eds). Mineralogical Society of America, Washington, D.C., pp. 309-326, 1993.
3. Ross M, Nolan RP, Langer AM, Cooper WC. Health Effects of Mineral Dusts Other than Asbestos. In: Health Effects of Mineral Dusts. Guthrie G, Mossman BT (eds). Mineralogical Society of America, Washington, D.C., pp. 361-407, 1993.
4. Nolan RP, Langer AM. Mineralogy. In: Occupational and Environmental Respiratory Disease. Harber P, Schenker M, Balmes J. (eds) Mosby; St. Louis, pp. 173-186, 1996.

Books and Chapters in Books:

5. Ross M, Nolan RP. Asbestos. In: McGraw-Hill Encyclopedia of Science and Technology, 9th Edition, 2000.
6. Nolan RP, Langer AM, Ross M, Wicks FJ, Martin RF (eds): Health Effects of Chrysotile-Asbestos: Contribution of Science to Risk Management Decisions. Canadian Mineralogist, Special Publication 5, pp. 1-304, 2001.

Publications in Symposia Proceedings:

1. Nolan RP, Langer AM: Quartz hemolysis: Physico-chemical factors controlling membrane activity. In: Health Issues Related to Mining and Minerals. Wagner W, Merchant J, Rom W (eds), Chapt. 4, Ann Arbor Press; Michigan, 1983.
2. Langer AM, Nolan RP: Minerals, rocks and ore bodies: Sources of agents in human diseases. In: Proc Second Int'l Congr Applied Mineralogy. Park WC, Hausen DM, Hagni RD (eds), The Metallurgical Soc of AIME, Los Angeles, pp. 1159-1177, 1984.
3. Langer AM, Nolan RP: Physicochemical properties of quartz controlling biological activity. In: Silica, Silicosis and Cancer: Controversy in Occupational Medicine. Goldsmith DF, Winn DM, Shy CM (eds), Praeger Publishers; New York, pp. 125-135, 1985.
4. Langer AM, Nolan RP: Physicochemical properties of minerals relevant to biological activities: State of the art. In: Third Int'l Workshop on In Vitro Effects of Mineral Dusts. Beck EG and Bignon J (eds), Springer-Verlag; Berlin, pp. 9-24, 1985.
5. Nolan RP, Langer AM, Foster KW: Particle size and chemically-induced variability in the membrolytic activity of quartz: Preliminary observations. In: Third Int'l Workshop on In Vitro Effects of Mineral Dusts. Beck EG and Bignon J (eds), Springer-Verlag; Berlin, pp. 39-50, 1985.
6. Langer AM, Nolan RP: The properties of chrysotile asbestos as determinants of biological activity. Variations in cohort experience and disease spectra as related to mineral properties. In: The Biological Effects of Chrysotile. Wagner JC (ed), General Motors Cancer Research Series, Accompl Oncol 1:30-51, 1986.
7. Nolan RP, Langer AM: Qualitative aspects of fiber morphology. In: Proceedings of Fibres in Friction Materials Symposium. The Asbestos Institute, Montreal, pp. 75-97, 1987.
8. Langer AM, Nolan RP, Bowes DR, Shirey SB: Inorganic particles in cigarettes and cigarette smoke. In: Symp Biol Interaction of Inhaled Mineral Fibers and Cigarette Smoke. Wehner AP, Felton DL (eds), Battelle Press; Seattle, WA, pp. 421-439, 1988.

Publications in Symposia Proceedings (cont):

9. Nolan RP, Langer AM, Herson GB: Physico-chemical properties of the titanium dioxide polymorphs and biological activity. In: Symp Biol Interaction of Inhaled Mineral Fibers and Cigarette Smoke. Wehner AP, Felton DL (eds), Battelle Press; Seattle, WA, pp. 391-419, 1988.
10. Langer AM, Pooley FD, Nolan RP: In: NATO Advanced Research Workshop on Health Related Effects of Phyllosilicates. Bignon J (ed). Springer-Verlag; Berlin. pp. 59-74, 1990.
11. Langer AM, Nolan RP: Zeolite catalysts. Is there a health risk? The erionite experience and its application to other zeolites. In: Proceedings of Chemicals and the Environment Symposium. Spring Innovations Limited; Stockport, England, pp. 91-95, 1993.
12. Langer AM, Nolan RP: Factors controlling the biological potential of inorganic dusts: Surface chemistry and character. In: Toxic and carcinogen effects of solid particles in the respiratory tract. Mohr U, Dungworth DL, Mauderly JL, Oberdörster (eds). International Life Sciences Institute Press, Washington, D.C., pp. 147-157, 1994.
13. Nolan RP, Langer AM, Murray R: Correlation between exposure levels and dose-response to chrysotile asbestos. First All-Russian Practical –Scientific Conference “Asbestos and Health” pp. 31-33, 1996.
14. Langer AM, Nolan RP: Asbestos in the lungs of persons exposed in the USA. In: Monaldi Archive for Chest Disease 53: 2, 168-180, 1998.
15. Nolan RP, Ross M, Nord GL, Axten CW, Osleeb JP, Wilson R: Assessment of risk of asbestos-related cancer based on an analysis of air and settled dust samples from the 9/11 attack on the World Trade Center complex. Presented at an International Conference on “Safety and Health in the Production and Use of Asbestos and Other Fibrous Materials.” Ekaterinburg, Sverdolvsck Region, Russian Federation, June 3-7, 2002.
16. Nolan, RP, Axten CW: Report on the Site Visit to Four asbestos Cement Plants in Mexico. 4th All Russian Symposium with International Participation, International Research and Practice Conference “Safe Work as Part of Decent Work” Ekaterinburg City, Russian Federation, April 23, 2013.

Letters to the Editor and Editorials:

1. Langer AM, Nolan RP: Letter to the Editor. Asbestos in play sand. N Engl J Med 316: 882, 1987.
2. Langer AM, Nolan RP, Constantopoulos SH: Letter to the Editor. Endemic pleural calcification and mesothelioma. JAMA 260:339-340, 1988.
3. Langer AM, Nolan RP, Ross M: Letter to the Editor. Asbestos policy. Science 249: 1485, September 28, 1990.
4. Langer AM, Nolan RP, Addison J: Letter to the Editor concerning Editorial "On talc, tremolite, and tergiversation," Reger R, Morgan WKC. Brit J Indust Med 48:359-360, 1991.
5. Langer AM, Nolan RP: Letter to the Editor. Respiratory Medicine 84:509, 1990.\\\

Letters to the Editor and Editorials (cont):

6. Langer AM, Nolan RP: Letter to the Editor. The amphibole hypothesis: Neither gone nor forgotten. *Amer J Public Hlth* 87, 688-689 (April), 1997.
7. Wilson R, Langer AM, Nolan RP: Letter to the Editor. Reply to Musselman RP Letter to the Editor concerning Wilson R, Langer AM, Nolan RP, 1999. A risk assessment for exposure to glass wool. *Regul Toxicol Pharmacol* 30: 96-109. *Letter Reg Toxicol Phar* 33: 102-3, 2001.
8. Wilson R, Nolan RP, Domnin SG: Letter to the Editor. The debate on banning asbestos. *CMAJ* 165: 1190-1, 2001.
9. Nolan RP, Gee JBL: Editorial: The Etiological of Mesothelioma: Is there a Role for Simian Virus 40 (SV40). *International Pleural Mesothelioma Newsletter* 4: 3-4, 2006.
10. Nolan, RP, Gamble JF, GW Gibbs: Letter to the Editor on: *Commentary: Malignant Mesothelioma Incidence among Talc Miners and Millers in New York State* by MM Finkelstein. *American Journal of Industrial Medicine* 56: 1116-8, 2013.
11. Nolan RP, Langer AM: Letter-to-the-Editor of *Toxicology and Applied Pharmacology* About: Chatfield (2018) Measurement of Elongate Mineral Particles: What we should measure and how do we do it? *Toxicology and Applied Pharmacology* 361, 36-46.

Industry Project Reports:

1. Chrysotile and chrysophosphate. A comparative study of their physicochemical properties and membrane activities. A report to SNA-Chrysophosphate, Canada. Langer AM, Nolan RP, p. 87, June 1, 1987.
2. Wollastonite in the pulmonary tissues on animals. A report to Northrop Services Industries, National Toxicology Program. Langer AM, Nolan RP, p. 101, June 15, 1989.
3. Preparation, examination and characterization of mineral standards by analytical electron microscopy. A report to Battelle Columbus Laboratories, Langer AM, Nolan RP, Pooley FD, Gieseke JA, Fisher G, 61 p., December 12, 1989.
4. Comparison and evaluation of the analytical capabilities of three U.S. laboratories for submicroscopic particulate analysis. A report to Battelle Columbus Laboratories, Langer AM, Nolan RP, Gieseke JA, Fisher G. February, 1991.
5. Release of rockwool fibers from compressed gasket material. A report to Lapinus Fibres, B.V., The Netherlands, Nolan RP and Langer AM, 38 p., January 31, 1994.
6. Analysis of quarry sample #01, #08 and #18 for asbestos content. Nolan RP, Langer AM, A report to Australian Occupational Health Management Pty Limited, Australia, 39 p., March 9, 1994.
7. Examination of Australian Quarry Dust and Mineral Specimens. A report to Australian Occupational Health Management Pty Limited, Australia. Nolan RP, Langer AM, Pooley FD, p. 11, October 28, 1994.

Industry Project Reports (cont):

8. Health Hazard Evaluation of the CD #1 Pit, Empire Mine, Palmer, Michigan. Nolan RP, Langer AM, Wilson R, A report to Cleveland-Cliffs, Cleveland, Ohio, p. 74, February 17, 1995.
9. A Risk Assessment for Installers of Blown Glass Wool Insulation. Wilson R, Langer AM, Nolan RP. A report to the Insulation Contractors Association of America, Alexandria, Virginia, p. 110. December 9, 1996.
10. Mineralogy and Experimental Animal Studies of Tremolitic Talc. Nord GL, Axten CW, Nolan RP. A submission to the National Toxicology Program as produced by the Gouverneur Talc Company at its mines in New York State and Factors to Consider in Evaluating Causation, December 1, 2000.
11. An Evaluation of the Epidemiological Evidence Concerning "Talc" and Respiratory Cancer in Humans with Specific Attention to "Talc". Nord GL, Axten CW, Nolan RP. A submission to the National Toxicology Program as produced by the Gouverneur Talc Company at its mines in New York State and Factors to Consider in Evaluating Causation, December 1, 2000.
12. BHP Billiton Method for the TEM Identification of Fibrous Minerals in Pilbara Iron Ore. Nord GL, Nolan RP, May 7, 2002.
13. The Fate of Asphalt Shingles containing <1% Chrysotile Asbestos in Cement Kiln, Nolan RP, Langer AM, Miller FM, Pooley FD, August 10, 2007.

Government and Foundation Project Reports:

1. Report to the U.S. Consumer Product Safety Commission: Mineralogical Analysis of Two "Play Sands" For Their Asbestos Contents, Langer AM, Nolan RP. November 26, 1986. p. 9, 4 Tables, 18 plates.
2. Report to the U.S. Consumer Product Safety Commission: Mineral Analysis of a Carbonate Play Sand, Langer AM, Nolan RP, July, 1987. p. 19, 3 Tables, 8 plates.
3. Office for Central Europe and Eurasia, National Research Council, Report on the Mineral Exposure and Human Disease in the Urals Region of the Russian Federation, Nolan RP, November, 1996.
4. A Final Report to the Quebec Ministry of Natural Resources, Department of Natural Resources Canada and The Asbestos Institute entitled Recent Assessments of the Hazards and Risks Posed by Asbestos and Substitute Fibres, and Recent Regulation of Fibres Worldwide. Gibbs GW, Davis JMG, Dunnigan J, Nolan RP, September, 1997.
5. Report to Cyprus Fulbright Commission on Bi-Communal Program for a Mission to Evaluate the Possible Health Effects from Chrysotile Asbestos in the Chrysotile Mining Area of Cyprus, Nolan RP, Ross M, April, 2001.
6. Report on: Assessment of Risk of Asbestos-Related Cancer Based on an Analysis of Air Settled Dust Samples from 9/11 Attack on the World Trade Center Complex, Nolan RP, Ross M, Nord GL, Axten CW, Osleeb JP, Wilson R, International Environmental Research Foundation, New York, NY, October 17, 2002.

Government and Foundation Project Reports (cont):

7. Summary Report on Mineral Fibers, Asbestos and Risk Assessment For the Residential Areas of Silver Bay, Minnesota, Center for Applied Studies of the Environment, Nolan RP, Ross M, Wilson R, The Graduate School and University Center of The City University of New York, New York, NY, July 31, 2004.
8. Response to questions from the Honorable John Shadegg by Dr. Robert. P. Nolan, Congressional Record for Testimony before United States Congress, Committee on Energy and Commerce, Legislative Hearing on S. 742 and Draft Legislation to Ban Asbestos in Products Subcommittee on Environment and Hazardous Materials, Nolan, RP, February 28, 2008.
- 9 Preliminary Analysis of the Asbestos Exposures Associated with Motorcycle Riding and Hiking in The Clear Creek Management Area (CCMA) San Benito County, California, Wilson R, Kelse J, Nord GL, Nolan RP, Langer AM, International Environmental Research Foundation, New York, NY, March 8, 2011, for the Off-Highway Motor Vehicle Recreation Division, California State Parks.
10. Asbestos Exposures Associated Recreational Activity in the Clear Creek Management Area (Clear Creek) San Benito County, California: The Risk of Asbestos-Related Cancer, Wilson R, Kelse J, Nord GL, Nolan RP, Langer AM, International Environmental Research Foundation, New York, NY, June 30, 2017, for the Off-Highway Motor Vehicle Recreation Division, California State Parks.

Abstracts:

1. Nolan RP, Langer AM: Surface functionalities of quartz and hemolytic activity. Second Int'l Workshop on In Vitro Effects of Minerals, April 26-28, 1982.
2. Nolan RP, Langer AM, Foster KW: Physicochemical factors effecting membroytic properties of quartz. VIth Int'l Pneumoconiosis Conf, Bochum, West Germany, September 20-23, 1983.
3. Nolan RP, Langer AM, Foster KW: Recognition of quartz by erythrocyte membranes. VIth Int'l Pneumoconiosis conf, Bochum, West Germany, September 20-23, 1983.
4. Langer AM, Nolan RP: Northeast Regional Environmental Public Health Center, University of Massachusetts. Symposium: Asbestos in Play Sand. "Tremolite, Analysis, Morphology and Health Significance." February 11, 1987.
5. Langer AM, Nolan RP: Fiber type and parenchymal burden found in workers occupationally exposed to asbestos fiber in the United States. Mineral Fibers in the Non-Occupational Environment, Int'l Agency Res Cancer, Lyon, France, September 8-10, 1987.
6. Nolan RP, Langer AM: Quantitative aspects of fiber morphology. First Fibers in Friction Materials Symp, The Asbestos Institute, Atlantic City, New Jersey, October 7-8, 1987.
7. Langer AM, Nolan RP: Mineralogical and biological comparison of asbestiform and non-asbestiform tremolite. AIME Meeting, Phoenix, AZ, January 25-26, 1988.

Abstracts (cont):

8. Langer AM, Nolan RP, Bowes DR, Shirey SB: Inorganic particles in cigarettes and cigarette smoke. Symp Biol Interaction of Inhaled Mineral Fibers and Cigarette Smoke, Battelle Northwest, Seattle WA, April 11-14, 1988.
9. Nolan RP, Langer AM, Herson GB: Physico-chemical properties of the titanium dioxide polymorphs and biological activity. Symp Biol Interaction of Inhaled Mineral Fibers and Cigarette Smoke, Battelle Northwest, Seattle WA, April 11-14, 1988.
10. Langer AM, Nolan RP: Analysis of mineral fiber in pulmonary tissue: Distinguishing between asbestiform and cleavage fragments. Elect Microscopy Soc America, Milwaukee, WI, August 7-12, 1988.
11. Nolan RP, Langer AM: Physico-chemical characteristics of quartz dust which controls its biological activity. VIIth Int'l Pneumoconiosis Conf, Pittsburgh, PA, August 23-26, 1988.
12. Langer AM, Nolan RP: Distinguishing asbestiform tremolite from non-asbestiform tremolite. VIIth Int'l Pneumoconiosis Conf, Pittsburgh, PA, August 23-26, 1988.
13. Nolan RP, Langer AM: An abrasive soap pneumoconiosis: Mineralogical analysis. VIIth Int'l Pneumoconiosis Conf, Pittsburgh, PA, August 23-26, 1988.
14. Langer AM, Nolan RP: Mineral fibers in lung tissues of person exposed to asbestos in the United States. VIIth Int'l Pneumoconiosis Conf, Pittsburgh, PA, August 23-26, 1988.
15. Langer AM, Nolan RP, Herson GB: Membranolytic activity of physicochemical characterization of phosphorylated Canadian chrysotile. IVth Int'l Workshop on Effects of Mineral Dusts on Cells, Orford, Canada, September 25-29, 1988.
16. Nolan RP, Langer AM, Herson GB: Membranolytic activity of palygorskite and sepiolite. IVth Int'l Workshop on Effects of Mineral Dusts on Cells, Orford, Canada, September 25-29, 1988.
17. Langer AM, Nolan RP: Fiber type and mesothelioma risk to building occupants. Health Aspects of Exposure to Asbestos in Buildings, Energy and Environmental Policy Center, John F. Kennedy School of Government, Harvard University, Cambridge, MA, December 14-16, 1988.
18. Nolan RP, Langer AM, Herson GB: Membranolytic activity of palygorskite and sepiolite. IVth Int'l Workshop on Effects of Mineral Dusts on Cells, Orford, Canada, September 25-29, 1988.
19. Nolan RP, Langer AM, Herson, GB: Characterization of palygorskite specimens from different geological locales for health hazard evaluation. Health Related Effects of Phyllosilicates, NATO Workshop, Paris, France, March 16-18, 1989.
20. Nolan RP, Langer AM, Oechsle GW, Addison J, Colflesh DE: Association of Tremolite Habit with Biological Potential. NATO Advanced Research Workshop on Mechanisms in Fibre Carcinogenesis. Albuquerque, New Mexico, October 22-25, 199

Abstracts (cont):

21. Langer AM, Nolan RP: The Importance of Mineral Subpopulations in Biological Assays. NATO Advanced Research Workshop on Mechanisms in Fibre Carcinogenesis. Albuquerque, New Mexico, October 22-25, 1990.
22. Nolan RP, Langer AM, Oechsle GW, Johnson NF: Physico-chemical characterization of selected zeolite minerals for health hazard evaluation. Fourth International Conference on Environmental Lung Disease - At Home at Work: Mechanisms, Manifestations and Management Environmental Lung Disease, American College of Chest Physicians Montreal, Quebec, Canada, September 25-28, 1991.
23. Nolan RP, Langer AM, Addison J: Health hazard evaluation of the lung tremolite fiber content among Canadian chrysotile workers. In: Biopersistence of respirable synthetic fibres and minerals. Int'l Agency Res Cancer, Lyon, France, September 7-9, 1992.
24. Langer AM, Nolan RP: Comparison of lung tissue mineral fibre retention of exposed workers and the general population. In: Biopersistence of respirable synthetic fibres and minerals. Int'l Agency Res Cancer, Lyon, France, September 7-9, 1992.
25. Langer AM, Nolan RP: Factors controlling the biological potential of inorganic dusts: surface chemistry and character. Toxic and Carcinogenic Effects of Solid Particles in the Respiratory Tract, Fourth International Inhalation Symposium, Hannover Medical School, Hannover, Germany, February 28-March 5, 1993.
26. Langer AM, Nolan RP, Herson GB: Chemically modified chrysotile asbestos: Physical-chemical characterization and membranolytic activity of phosphorylated Canadian chrysotile. V.M. Goldschmidt Conference, An International Conference for the Advancement of Geochemistry, The Pennsylvania State University, University Park, PA, May 24-26, 1995.
27. Nolan RP, Langer AM, Wilson R: Evaluation of the health hazard of asbestos in a mine. V.M. Goldschmidt Conference, An International Conference for the Advancement of Geochemistry, The Pennsylvania State University, University Park, PA, May 24-26, 1995.
28. Langer AM, Nolan RP: Physical chemical properties of fibers other than asbestos used in global commerce. Symposium on the Health Effects of Fibrous Materials used in Industry Excluding Asbestos. Sydney, Australia, October 30-31, 1995.
29. Nolan RP, Langer AM, Murray R: The Exposure Response Relationships of Chrysotile Asbestos. Conference on Asbestos and Health, Asbest City, Russian Federation, June 4-7, 1996.
30. Nolan RP, Langer AM, Murray R, LM Grinberg, Kogan FM, Tregubor ES, Kuschner M: Pulmonary Fibrosis and Lung Content Analysis of Russian Chrysotile Workers: Preliminary Results. 6th International Inhalation Symposium, Relationship between Respiratory Disease and Exposure to Air Pollution ~~28-31~~ ²⁸⁻³¹ver, February 24
31. Nolan RP, Ross M, Nord GL, Axten CW, Wilson R: Risk Assessment Based on an Analysis of Air and Settled Dust Samples from the Collapse of the Twin Towers of the World Trade Center, International Conference on Safety and Health in the Production and Use of Asbestos and Other Fibrous Materials, Ekaterinburg, Sverdlovsk Region, Russian Federation, June 3-7, 2002.

32. Nord GL, Axten CW, Ross M, Nolan RP: Mineralogy and Experimental Animal Studies of Tremolitic Talc, ASTM Johnson Conference, A Review of Asbestos Monitoring Methods and Results for the New York World Trade Center, Libby Vermiculite and Fibrous Talc, July 14-18, 2002.
33. Nolan RP, Ross M, Nord GL, Raskina M, Phillips JI, Murray J, Gibbs GW: Mineral Fibers and Asbestos-Related Disease, 13th International Clay Conference, Claysphere: Past, Present, Future-Tokyo, Japan, August 21-27, 2005

Invited Seminars, Lectures, and Conferences:

1. Northeast Regional Environmental Public Health Center, University of Massachusetts. Symposium: Asbestos in Play Sand. Tremolite Analysis, Morphology, and Health Significance. Amherst, Massachusetts, February 11, 1987.
2. Symposium: Fibers in Friction Materials. Society of Automotive Engineers and The Asbestos Institute. Fibers and Health Issues. Physico-chemical Properties of Fibers and Biological Potential. Atlantic City, NJ, October, 1987.
3. VIIth International Pneumoconiosis Conference. Rapporteur Workshop on Health Hazard Recognition of Mineral Dusts. Physico-chemical characteristics of quartz dust which control its biological activity. Pittsburgh, PA, August, 1988.
4. First International Conference on Health Related Effects of Phyllosilicates. Characterization of palygorskite specimens from different geological locales for health hazard evaluation. NATO Advanced Research Workshop, Paris, France, March, 1989.
5. NATO Advanced Research Workshop on Mechanisms in Fibre Carcinogenesis. Association of Tremolite Habit with Biological Potential. Albuquerque, NM, October, 1990.
6. Fourth International Conference - Environmental Lung Disease. Physico-chemical Characterization of Selected Zeolite Minerals for Health Hazard Evaluation. Montreal, Quebec, Canada, September, 1991.
7. Characteristics of Mineral Fibers - Critical Research Needs. Workshop on Chemical and Biological Interactions of Glass. Bethesda, Maryland, March 5-6, 1992.
8. The Clay Minerals Society 29th Annual Meeting, Surface Properties of Minerals as Determinants of Biological Activity. Minneapolis, Minnesota. November, 1992.
9. American Legislative Exchange Council, Environmental Mesothelioma and Mineral Fibers Task Force on Energy, Environment and Natural Resources. Traverse City, Michigan, August 12, 1993.
10. Inorganic Particulates in the Air and their Environmental Impact on Human Health. The American-Ukraine Conference on Environmental Study and Control. Kiev, Ukraine, September 21-26, 1993.
11. Limitations of the Stanton Hypothesis. Health Effects of Mineral Dusts. Workshop sponsored by the Mineralogical Society of America, Nantucket Island, Massachusetts, October 22-24, 1993.
12. Health Effects of Mineral Dusts other than Asbestos. Health Effects of Mineral Dusts. Workshop sponsored by the Mineralogical Society of America, Nantucket Island, Massachusetts, October 22-24, 1993.

Invited Seminars, Lectures, and Conferences (cont):

13. Cyprus-American Scholarship Program for Short-Term Training sponsored by the U.S. Geological Survey, August 1994.
14. Minerals and the Environment. V.M. Goldschmidt Conference. The Pennsylvania State University, University Park, Pennsylvania, May 24-26, 1995.
15. Physico-Chemical Properties of Inorganic Particles Controlling Biological Activity. International Seminar on Assessment of Carcinogenic Risk from Occupational Exposure to Inorganic Substances. Luxembourg, October 17-20, 1995.
16. The Exposure Response Relationships of Chrysotile Asbestos. Conference on Asbestos and Health, Asbest City, Russian Federation, June 4-7, 1996.
17. Etiology of Human Mesothelioma: Lung Content Analysis for Asbestos and Potential Interaction between SV40 and Asbestos. Workshop on Recent Advances on Pleural Mesothelioma. Università di Torino, Ospedale S. Luigi, Italy, June 7, 1996.
18. Lecturer, Minerals and Health: a short course at the Institute of Mineralogy and Petrography, University of Fribourg, Switzerland, October 7-11, 1996.
19. Fellow, National Research Council, Collaborative Research in Sectoral Policy, Medical Research Center for the Prevention and Health Protection of Industrial Workers, Ecaterinburg, Russian Federation, November, 1996.
20. Simian Virus 40 (SV40) A Possible Human Polyomavirus, Bethesda, Maryland, January 27-28, 1997.
21. Asbestos Exposure and Mesothelioma 1st Italy – USA. Conference on Malignant Mesothelioma and Other Asbestos-Related Neoplasms, Belgirate (Novara, Italy), May 29-30, 1997.
22. Asbestos Air Concentrations and Fiber Type Inside Buildings. International Workshop on the Health Effects of Chrysotile Asbestos: Contribution of Science to Risk Management Decisions, Montréal, Québec, Canada, September 14-16, 1997.
23. Health Effects Associated with Mining and Milling Chrysotile Asbestos in the Urals Region of the Russian Federation. International Workshop on the Health Effects of Chrysotile Asbestos: Contribution of Science to Risk Management Decisions, Montréal, Québec, Canada, September 14-16, 1997.
24. Morbidity of a Cohort of Children from Living in a Chrysotile Asbestos Mining Community in the Urals Region of the Russian Federation. International Workshop on the Health Effects of Chrysotile Asbestos: Contribution of Science to Risk Management Decisions, Montréal, Québec, Canada, September 14-16, 1997.
25. The Role of Lung Content Analysis in Mesothelioma Etiology. International Workshop on Simian Virus 40 (SV-40), Asbestos and Mesothelioma. New York, NY, November 9-10, 1997.

Invited Seminars, Lectures, and Conferences (cont):

26. Present Regulatory Status and Uses of Asbestos in the USA International Seminar on Safety in the Use of Chrysotile Asbestos: Basis for Scientifically-Based Regulatory Action, Beirut, Lebanon, May 21, 1998.
27. Correlation between Exposure Levels and Dose-Response to Chrysotile Asbestos. International Scientific-Practical Conference on the topic "The Safe Usage of Chrysotile Asbestos. Ivano-Frankovsk, Ukraine, June 1-4, 1998.
28. A Risk Assessment for Exposure to Grunerite Asbestos (amosite) in an Iron Ore mine. National Academy of Sciences Colloquium on Geology, Mineralogy and Human Welfare, Beckman Center, Irvine, California, November 8-9, 1998.
29. Risk Assessment of Particulates, Commission on Toxicology, Program VII.4, 40th IUPAC General Assembly, Berlin, Germany, August 7-14, 1999.
30. Tremolite Fibers in Chrysotile Sample from Different Geological Locales. Conference dedicated to the 75th Anniversary of the Ekaterinburg Medical Research Center for Prophylaxis and Health Protection of Industrial Workers, Ekaterinburg, Russian Federation, October 27-29, 1999.
31. Risk Assessment of Particulates, Commission on Toxicology, Szeged, Hungary, September 28, 2000.
32. Communal Program for a Mission to Evaluate the Possible Health Effects from Chrysotile Asbestos in the Chrysotile Mining Areas of Cyprus, Cyprus Fulbright Commission, Cyprus, November 12-21, 2000.
33. International Conference Safety and Health in the Production and Use of Asbestos and Other Fibrous Materials, Ekaterinburg, Sverdlovsk Region, Russian Federation, June 3-7, 2002.
34. Abstract submitted to 2002 ASTM Johnson Conference – A Review of Asbestos Monitoring Methods and Results for the New York World Trade Center, Libby Vermiculite and Fibrous Talc, Mineralogy and Experimental Animal Studies of Tremolitic Talc, July 14-18, 2002.
35. International Symposium, Chrysotile Asbestos Safe Use, Cancún, Mexico, February 2-5, 2003.
36. The Mineralogy of Silica, Silica Medicine Seminar, DRI, Atlanta, Georgia, June 10-11, 2004
37. Course Workshop on Lung Pathology Due to Fibers, Leon, Guanajuato, Mexico, September 15, 2004.
38. Mineral Fibers and Asbestos-Related Disease, 13th International Clay Conference, -Claysphere: Past, Present, Future- Tokyo, Japan, August 21-27, 2005.
39. Chrysotile: Value of Up-to-Date Information, Chrysotile Safe Use Today, Mexico City, December 13, 2007.
40. Changing Trends in US Mesothelioma Mortality, Jakarta, Indonesia, April 13, 2010.

Invited Seminars, Lectures, and Conferences (cont):

41. Presentation of “Preliminary Analysis of the Asbestos Exposures Associated with Motorcycle Riding and Hiking in the Clear Creek Management Area (CCMA) San Benito County, California” with Richard Wilson to Off-Highway Motor Vehicle Recreation Commission, April 5, 2011, Hollister California.
42. “Sparkle” ACS Local Section Public Relations Workshop, American Chemical Society, Washington, DC, April 29 – May 1, 2011.
43. Chrysotile Asbestos: Assessment and Risk Management, Institute for Occupational Health of NAMA of Ukraine, Kiev, Ukraine, November 21-22. 2012.
44. 4th All Russian Symposium with International Participation, International Research and Practice Conference “Safe Work as Part of Decent Work”. Supported by the Sverdlovsk Regional Government, Subregional of the International Labour Organization for Eastern Europe and Central Asia, Ural State Economic University, Ekaterinburg Scientific-Research Institute on Labour Protection of the Federation of Independent Trade Unions of Russia, Ekaterinburg Medical Research Center for Prophylaxis and Health Protection of Industrial Workers and Rospottrebdzor. Ekaterinburg, Russian Federation, April 23-24, 2013.
45. International Safe Use Guidelines and Lessons Learned: Case Study Presentation from United States Latest Scientific Researches on Chrysotile: An Examination of Heath Impact and Relevant Safe Use Guidelines. Manila, Philippines, October 25, 2013.
46. Pleural Mesothelioma Deaths: Comparison of Asbestos Exposure by Type to the General Population, International Conference on Chrysotile, New Delia, India, December 2-3, 2013.
47. Chrysotile Fibres and Real Impact on Health and the Environment, International Workshop on the Assessment of Effect on Human Health – Appropriate Management Measures, Hanoi, Vietnam, December 10, 2014.
48. Scientific Update on Safe Use of Asbestos, Workshop on Control and Management of Asbestos, Putrajaya, Malaysia, February 25, 2015.
49. Part 1: Differentiation of Asbestos. What is asbestos in its various types? How is Chrysotile Relevant to the Kingdom of Cambodia? Part 2: Asbestos Regulations Around the World: United States, Canada, Russian Federation, Brazil, India, Thailand, the Philippines & Vietnam. Second Symposium on Asbestos (Chrysotile) Siem Reap, Cambodia, May 31, 2016.
50. Health Effect of Asbestos: What Issues are Current? MARM (2016) College of Mount Saint Vincent, Riverdale, NY, June 11, 2016.
51. Minerals and Disease. The Monticello Meeting, Charlottesville, Virginia. October 16-20, 2017, Proceedings to be Published in Toxicology and Applied Pharmacology.

52. Asbestos in Talc. Joint Institute for Food Safety and Applied Nutrition (JFSAN) University of Maryland, College Park, November 28, 2018.
53. Fourth CME NASA Symposium, Chemistry for Resilient Human Space Exploration, Co-Organizer & Presider, Atlanta, Georgia, August 24-24, 2021.