

BIOGRAPHICAL SKETCH:

Dr. Case is a pathologist and epidemiologist at McGill University in Montreal, Canada. Following his residency in pathology at McGill University he trained with Graham Gibbs and obtained the Diploma in Occupational Hygiene (Faculty of Graduate Studies, 1980) at McGill, and worked as a post-doctoral fellow and instructor at the Mount Sinai School of Medicine, New York, from 1980-83. For this work (1979 – 1982) he was supported by a Fellowship in Occupational Health Research, Conseil de la Recherche en Santé du Québec. While at Mount Sinai he performed some of the first studies on asbestos-mediated free radical release, with the help of the Young Investigator's Award of the American Lung Association. On his return to McGill he joined with Corbett and Alison McDonald and Patrick Sébastien in the Dust Disease Research Unit. The focus of this group was the epidemiological study of diseases related to mineral fibre exposure using lung-retained fibre in exposure assessment. In 1986 he received the National Health Scholarship of NHRDP (Canada) for his work in the field. In 1988 he moved to the University of Pittsburgh, where he succeeded the late Dr. Philip Enterline as Director of the United States Environmental Protection Agency Center for Environmental Epidemiology, through their co-operative agreement with the University of Pittsburgh School of Public Health, where he was also Associate Professor of Epidemiology. He returned to McGill in 1992 and continues research, teaching, and clinical work there in Pathology, Epidemiology, Occupational Health and the McGill School of Environment. In 1995 he spent a sabbatical year at INRS/ Institut Armand-Frappier (Laval QC) and most recently he performed an elective at the London School of Hygiene and Tropical Medicine assessing UK practice for mesothelioma pathology. He has participated in and given lectures to workshops, and provided peer reviews and advice for many national and international agencies and professional societies on the subject of the exposure assessment and health effects of mineral fibres, including NIOSH, the U.S. Environmental Protection Agency (EPA), the Centers for Disease Control (CDC, through ATSDR), the United States Consumer Product Safety Commission (CPSC), NIEHS (USA), the International Agency for Research on Cancer (IARC), the International Commission on Occupational Health (ICOH), the British Occupational Hygiene Society (BOHS), the American Thoracic Society (ATS), the Geological Society of America (GSA), the Collegium Ramazzini, and the Japanese Society of Occupational Medicine and Traumatology. He was a Director and Treasurer of the Canadian Association for Research on Work and Health (CARWH) from 2005-2009. Dr. Case reviews publications for a wide variety of journals in general medicine, environmental and occupational medicine, industrial hygiene, and risk analysis, including *The Lancet*, *The New England Journal of Medicine*, *Risk Analysis*, *Environmental Research*, *Gastroenterology*, the *Canadian Medical Association Journal*, *Regulatory Toxicology and Pharmacology*, *Critical Reviews in Toxicology*, the *Annals of Occupational Hygiene*, the *Journal Of Exposure Science And Environmental Epidemiology*, *Cancer Epidemiology, Biomarkers, and Prevention*; *Journal Of Exposure Science And Environmental Epidemiology*; *American Journal of Industrial Medicine*; and *Occupational and Environmental Medicine* (formerly the *British Journal of Industrial Medicine*). His peer-reviewed research on asbestos and other mineral fibre and particle exposures and related diseases has been funded by American and Canadian public agencies including the Quebec and American Lung Associations, Fonds de Recherche Santé Québec (FRSQ), Institut National de Santé Publique du Québec (INSPQ), American Thoracic Society (USA), the United States Environmental Protection Agency (EPA) (USA), Medical Research Council of Canada / Canadian Institutes of Health Research (MRC/ CIHR) (Canada), the National Cancer Institute (of Canada) and NHRDP/ Department of Health and

Welfare/Health Canada (Canada). He has published over 140 scientific papers, chapters and abstracts on the results. He is an occasional consultant to North American Regulatory and other Agencies (e.g., EPA, ATSDR/ CDC. NIEHS), Workman's Compensation boards in four Canadian provinces, to University investigators in other nations, to unions, to individual patients with asbestos-related disease(s), and to attorneys representing plaintiffs and/or defendants in asbestos litigation. Outside of professional associations, Dr. Case is a member of the ACLU, the Union of Concerned Scientists, MSF, Amnesty International, and the Sierra Club.

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ABSTRACTS

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- (26) Case BW. Asbestos: an autopsy series, and epidemiology. (1993) *Can Congress Lab Medicine* 44(1): 87.
- (27) Dufresne, André, Krier, Gaby, Muller, Jean-François, Case, B.W., and Perrault, Guy. Measurement by TEM and LAMMA of Particles extracted from lung tissue of subjects having different types of cancer. 24th International Congress on Occupational Health. Nice, 1993.
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Meeting Geological Society of America; Denver, CO; GSA Abstracts Vol. 34, No. 6, September 2002.

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Interest Group. Amsterdam, September, 2008. Page 117.

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(65) Case BW. "Mineral fibre deposits in work environments and workers: where and why they differ". Abstract at <https://gsa.confex.com/gsa/2014AM/webprogram/Paper247598.html> (accessed February 4, 2015).

(66) Case BW. Can Tumor Morphology and Molecular Pathology Assist in Identifying And Quantifying Risk Parameters In Lung Cancer When There Is More Than One "Exposure"? Society for Risk Analysis. Abstract at <http://birenheide.com/sra/2014AM/program/singlesession.php3?sessid=W4-I> (accessed February 4, 2015).

International invited talks:

1990 Invited Speaker, Nat. Inst. of Occupational Health and Safety, Morgantown, WV.

1991 Invited speaker (twice). British Occupational Hygiene Association. Seventh International Symposium on Inhaled Particles. Edinburgh, United Kingdom.

1991 Invited Speaker, INSERM, French Ministry of the Environment, and International Commission on Occupational Health, June, Paris.

1991 Invited Speaker, Nat. Inst. of Occupational Health and Safety, Morgantown, WV.

1991 Invited Speaker, International Commission on Occupational Health, November, Kitakyushu City, Japan.

1992 Invited Speaker, "Asbestos bodies are absent from sputum of school custodial workers". American Thoracic Society, Miami Beach, 1992

1992 Invited Speaker, "Lung fibre content in children". IARC Workshop on the biopersistence of synthetic fibres and minerals. International Agency for Research on Cancer, September, Lyon, France, 1992.

1993 Invited Speaker, "Asbestos: An autopsy series, and epidemiology". Canadian Association of Pathologists, Banff, Alberta, Canada, June 28, 1993

1993 Invited Speaker, "Chrysotile and Disease" Asbestos Association Coordination Conference, Montreal, September 21, 1993.

1993 Invited Speaker, "Pneumoconioses and related diseases in Québec". Quebec Association of Pathologists, Magog, Quebec, October 10, 1993.

Nov. 14, 1993 Invited Speaker, International Commission on Occupational Health, "Biological Indicators of chrysotile exposure"; Gibbs GW, Browne K eds., Workshop on the Health Risks Associated with Chrysotile Asbestos. Island of Jersey, United Kingdom,

1994 Invited Speaker, "Lung internal dose correlates of occupational exposure to silica"; Corn M. ed., International Conference on Crystalline Silica Health Effects: Current-State-of-the-Art; Baltimore, MD., USA, April 18, 1994. (Sponsors: Johns Hopkins University/ NIOSH/ NIEHS/ MSHA/ OSHA/ AIHA/ ACGIH/ CMA).

1994 Invited Speaker, "*Occupational and environmental disease among Québec chrysotile miners, millers and neighbourhood residents: complementarity of epidemiology, pathology and lung retained dose studies*". Tenth International Symposium *Epidemiology in Occupational Health* (ISEOH); September 21, 1994; Como, Italy. (Sponsors: International Commission on Occupational Health; Scientific Committee on Occupational Epidemiology; Epidemiology Research Center for Occupational, Environmental and Clinical Epidemiology (EPOCA); and Institute of Occupational Health, University of Milan. Paper 64, session "Epidemiology of Occupational Disease".

June 8, 1995 McGill University Annual Retreat of the Department of Occupational Health, Faculty of Medicine.

Mont. Ste.-Hilaire, Québec. Case BW. Mesothelioma among Québec women 1970-1990: Pathologic Diagnostic Trends.

09/15, 1995 Third International Symposium on Mesothelioma; Paris (Mesothelioma Interest Group). Pathologic trends in mesothelioma: 1970-1990. Paper accepted for presentation and abstract published in Lung Cancer: I was unable to attend.

Sept. 17/95 Canadian Association of Pathologists' Annual Meeting/ Royal College of Physicians of Canada Annual Meeting, Montreal, Canada. Case BW, Camus M, Siemiatycki J. Trends in pathologic diagnosis of malignant mesothelioma among Quebec women 1970-1990. published abstract in: Clinical and Investigative Medicine, 18(4):B117.

Aug. 30, 1995 Case BW, Camus M, Richardson L, Siemiatycki J. Ascertainment of mesothelioma among Québec women from 1970 to 1990. IRSST Symposium on Mesothelioma. Montreal.

January 7-9, 1996 Invited participant, IARC Workshop on Mechanisms of Fibre Carcinogenesis, World Health Organization/International Agency for Research on Cancer, Lyon, France, Jan. 9-11. **Chair: Section on Fibre Characterization and Genotoxicity.**

April 25-26, 1996 Invited participant, Health Canada workshop on genetics and epidemiology. Subject: **Availability and strategies for tissue samples for epidemiologic studies in Canada.**

August 26-30, 1996. Invited Speaker, British Occupational Hygiene Society, International Symposium on Inhaled Particles, Cambridge University, Cambridge, UK: **Lung fibre content in mesothelioma cases in the 1891-1920 birth cohort of chrysotile miners: a descriptive study.** (Case BW, Dufresne A, Churg A, McDonald AD and McDonald JC).

September 1997. Invited speaker, VIth International Conference on Toxicology of Inhaled Particles. Lake Placid, New York: **"Asbestos, asbestosis and lung cancer: Observations in Québec chrysotile workers"**. Published in: Environ Health Perspect 105:1113-1119.

May 13-15, 1997. Invited Speaker, Fourth International Mesothelioma Conference, International Mesothelioma Interest Group, University of Pennsylvania, Philadelphia PA, May 13-15, 1997; see abstracts:

(a) *Risk assessment for women living in chrysotile mining towns. I: Environmental exposure assessment (Camus M, Case BW, Siemiatycki J)*

(b) *Risk assessment for women living in chrysotile mining towns. II: Mesothelioma: observed vs. predicted. Case BW, Camus M, Siemiatycki J.*

May 16-21, 1997. Invited Speaker, American Thoracic Society, San Francisco, California: **Mesothelioma mortality and diagnosis are increased among women in Québec chrysotile/tremolite mining areas.**

(Case BW, Camus M, Siemiatycki J; see abstracts)

December 4-5, 1997. Invited Speaker, International Agency for Research on Cancer, Paris, France: Conference on predictions for future mesothelioma in European community.

April 27, 1999: American Thoracic Society International Conference, San Diego, CA. Invited Professor for Seminar given to audience largely of pulmonologists: Use and Abuse of Lung-Retained Fibre Analysis.

October 15, 1999: VIth International Conference on Toxicology of Inhaled Particles. Maastricht, Netherlands. Invited Speaker: "Asbestos Fibre Type And Length In Lungs Of Chrysotile Textile And Production Workers. A Preliminary Report."

October 8, 1999. Case BW. 5th International Mesothelioma Interest Group meeting: Stoke Rochford, UK. Invited speaker: "PATHOLOGY VALIDATION AND ASBESTOS EXPOSURE FOR FEMALE PLEURAL AND PERITONEAL MALIGNANCY IN QUÉBEC, CANADA"

April 2000: Invited Speaker: American Thoracic Society International Conference, Toronto, Canada:

Nayebzadeh A., Case BW, Massé J., Dufresne AD. "Mineralogical And Exposure Determinants Of Pulmonary Fibrosis Among Québec Chrysotile Miners And Millers."

Case BW and Dufresne AD. "Long (>18 µm) Lung-Retained Fibers In Asbestos-Exposed Men With And Without Lung Cancer."

November 2000: Invited Speaker: University of Campinas, Brazil. "Proper use of lung-retained fibre analysis in assessment of exposure of asbestos-exposed cohorts"

November 2000: site visitor for Brazilian Research Programme on Asbestos (consultant from McGill University together with Dr. M. Becklake, Department of Epidemiology). Campinas and Sao Paulo, Brazil

May 24/25 2001:

**1. United States Environmental Protection Agency:
2001 Asbestos Health Effects Conference**

(a) Mineralogy and Exposure Assessment (*Chair, Bruce Case, McGill University, Canada*);
Introduction: May 24, 9 am.

(b) Bruce Case, McGill University, Canada – "Lung-retained fiber as a marker of environmental dose: Strategies, advantages, pitfalls, and coordination with epidemiological methods" May 24, 11 am.

(c) Risk assessment panel

(*Chair, Gene McConnell, Toxicology and Pathology Services Inc., USA*)

This panel discussion is intended to examine the implications of recent scientific developments on asbestos risk assessment methodologies. The issues to be addressed by the panel will include: (i) Which types and dimensions of fibers should be

enumerated for purposes of risk assessment? (ii) Should different fiber types be treated differently in assessing potential public health risks, and how should the potential risks of exposure to fiber mixtures be addressed? (iii) Are existing exposure assessment methods and exposure-response models adequate for evaluating potential health risks from exposures (including episodic exposures) to different asbestos fiber types in environmental media, consumer products, and other nonoccupational settings. These and other issues will be addressed by the panel, with an opportunity for input from the audience. Panelists include:

- i. **Bruce Case, McGill University, Canada**
- ii. Julian Peto, Institute of Cancer Research, England
- iii. Kevin Driscoll, Proctor and Gamble Pharmaceuticals, USA
- iv. Mort Lippmann, New York University, USA
- v. Kenny Crump, ICF Kaiser Engineers, USA
- vi. Leslie Stayner, National Institute for Occupational Safety and Health, USA

September 2-6, 2001: [INHALED PARTICLES IX: Cambridge University, United Kingdom](#) (NOTE: ADOBE ACROBAT READER required for this index and all papers listed below; accessed July 13 2012)

- i. [Case-Control Study Of Pleural Mesothelioma Among Women In Quebec Chrysotile Mining Regions.](#) BW Case, M Camus, M Désy, M-É Parent, L Richardson and J Siemiatycki (Dr. B. Case, presenter).
- ii. [Risk Of Mesothelioma In Female Residents Of Chrysotile Asbestos Mining Areas Overestimated By The U.S. E.P.A. Exposure-Risk Model.](#) M Camus, J Siemiatycki, BW Case, M Désy, M-É Parent and L Richardson; M. Camus presenter.
- iii. [Lung-Retained Fibre Content In Brazilian Chrysotile Workers.](#) BW Case, A Dufresne, E Bagatin, and VL Capelozzi. (BW Case, presenter).
- iv. [Mesothelioma Among Workers and in the Vicinity of Asbestiform Fiber-Bearing Talc Mines in New York State.](#) JL Abraham, M Hull, and BW Case (JL Abraham, presenter)

Papers corresponding to these presentations have been published in the [Annals of Occupational Hygiene, 2002](#) (see "PUBLICATIONS")

2002

February 2002: [Invited Participant, Workshop on Registry of Asbestos-related Disease in Libby, Montana.](#) U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)/ Agency for Toxic Substances and Disease Registry (ATSDR), Atlanta, Georgia.

June 24-25 2002: [Invited Participant: New Directions and Needs In Asbestos Research.](#) The University

of Montana Missoula, MT. (reported on the W.R. Grace cohort mortality update).

October 2002: Invited Participant Sponsored by NIEHS (USA): at: The Geological Society of America, Denver, CO, October 28 2002.

SESSION: Human Health Sciences and Geosciences: Bridging the Gap.

Title: *Interaction between epidemiological and animal studies and geological exposure assessment: implications for public policy and public health.* ([published in GSA Abstracts with Programs Vol. 34, No. 6, September 2002](#)). Accessed July 12, 2012

[FR Doc. 02-25986 Filed 10-10-02; 8:45 am] DEPARTMENT OF HEALTH AND HUMAN SERVICES: Agency for Toxic Substances and Disease Registry (ATSDR) Panel Discussion—**Health Effects of Asbestos and Synthetic Vitreous Fibers: The Influence of Fiber Length.** **AGENCY:** Agency for Toxic Substances and Disease Registry (ATSDR), Department of Health and Human Services.

One of eight invited panelists. Jacob Javits Federal Building, Lower Manhattan; Chair Dr. Morton Lippman. Announcement published in the **Federal Register** / Vol. 67, No. 198 / Friday, October 11, 2002 / Notices 63431. (ATSDR).

From the Federal Register Document: “SUMMARY: ATSDR is holding a panel discussion to review and discuss the current state-of-the-art understanding of health effects related to asbestos and synthetic vitreous fibers (SVFs), especially those of less than 5 microns in length. ATSDR has invited a cross-section of scientists with expertise in the fields of toxicology, epidemiology, pulmonology / pathology, and medicine to participate in 1 1/2 days of discussions on a variety of topics, including depositional patterns of fibers in the lung and mechanisms of toxic action, the relationship of fiber size to toxicity, irritant effects of fibers, relationships between measured fiber levels and observed adverse health outcomes, and data gaps/research needs. ATSDR will use the scientific input received from the International and recent invited talks discussions of each of the individuals to aid in developing scientifically defensible public health evaluations for human exposures to smaller-than-5-micron fibers and in the formulation of future research proposals.”

December 2, 2002: Perth, Australia. International Mesothelioma Interest Group. Invited Symposium Speaker. **Topic: EPIDEMIOLOGY OF MESOTHELIOMA IN QUEBEC, CANADA: 1982-1997.** Authors: Case BW*, De Guire L, Camus M, Langlois A, Laplante O, Lebel G, Levesque B, Rioux M, and Siemiatycki J. (Inst. Natl. de santé publique du Québec; CSST Québec; Health Canada; University of Montreal; McGill University).

2003

February 24-27, 2003. **Expert Peer Reviewer and Consultant.**
United States Environmental Protection Agency (San Francisco)

ENVIRONMENTAL PROTECTION AGENCY [FRL-7445-7]

Peer Consultation Workshop on a Proposed Asbestos Cancer Risk Assessment

Reference: **5873 Federal Register** / Vol. 68, No. 24 / Wednesday, February 5, 2003 / Notices:

“...EPA’s current assessment of asbestos toxicity is based primarily on an asbestos assessment completed in 1986, and EPA’s assessment has not changed substantially since that time. The 1986 assessment considers all mineral forms of asbestos and all asbestos fiber sizes (i.e., all fibers longer than 5 micrometers) to be of equal carcinogenic potency. However, since 1986, there have been substantial improvements in asbestos measurement techniques and in the understanding of how asbestos exposure contributes to disease. To incorporate the knowledge gained over the last 17 years into the agency’s toxicity assessment for asbestos, EPA oversaw the development of a revised methodology for conducting risk assessments of asbestos. The proposed risk assessment methodology distinguishes between fiber sizes and fiber types in estimating potential health risks related to asbestos exposure. EPA is convening this peer consultation workshop to seek input from a panel of experts on the scientific merit of the proposed methodology. The experts will include scientists with extensive expertise in relevant fields, such as biostatistics, fiber identification, inhalation toxicology, and carcinogenic mechanisms. The panelists will be asked to respond to several charge questions that address key issues in the proposed methodology, including interpretations of epidemiology and toxicology literature, the proposed exposure index, and general topics. The product of the peer consultation workshop will be a report that summarizes the panelists’ and observers’ comments, conclusions, and recommendations on the proposed methodology.

David Lopez,

Director, Region 3/8 Support Center, OERR.

[FR Doc. 03-2767 Filed 2-4-03; 8:45 am]”

Product:

Peer Consultation Workshop On a Proposed Asbestos Cancer Risk Assessment

2005

April 20, 2005: Manchester (UK). Emerging trends in asbestos-related mesothelioma. Presented by invitation of the British Occupational Hygiene Society at Occupational Hygiene 2005 Conference.

May 3, 2005: Montreal. Second Environmental Research Symposium. Buried in the Ground: How a Toxic Legacy of Scrap Materials Distributed as “Charity” Are Combining with “Naturally Occurring Asbestos” to Threaten New Mesothelioma Epidemics.

May 4, 2005. Montreal. University of Montreal. Mesothelioma risk factors in the 21st century - Toxic legacy and natural occurrence.

May 24, 2005. San Diego, California. American Thoracic Society International Conference. (with J.L. Abraham, M.D.). Lung-Retained Fiber in Pets Confirms Environmental Exposure to Naturally-Occurring Asbestos in Western El Dorado County, California.

June 2005. Board Meeting. Canadian Association of Researchers in Work and Health. University of British Columbia, Vancouver BC, Canada.

2006

February: Invited Peer Review: "ATSDR position paper - The role of cleavage fragments in asbestiform fiber analysis."

May 19-23, 2006. San Diego, California. American Thoracic Society International Conference.

- (A) Finalization of ATS Official Statement on Tremolite (M. Schenker, chair).
- (B) Chair: "Current Topics in Occupational and Environmental Lung Diseases"; Sunday, May 21, 2006 Room 29, C/D San Diego Convention Center.
- (C) Program Committee, Environmental and Occupational Health Assembly 2006-7.

June 8 2006. Board Meeting. Canadian Association of Researchers in Work and Health. St.-John's, Newfoundland, Canada.

September 3, 2006: Oral Presentation: International Society for Environmental Epidemiology/ International Society for Exposure Assessment International Conference. Paris, France. "Lung-Retained Asbestos Fibre Analysis: Trends Over 25 Years In One Institution And Their Implications".

October 2006: Oral presentation: VIIIth International Conference on Mesothelioma; International Mesothelioma Interest Group, Chicago IL (see abstracts).

November 7, 2006: Yokohama, Japan: Kitasato Medical Society. Asbestos exposure and disease.

November 9, 2006: Featured Guest Speaker. 54th Japanese Society of Traumatology and Occupational Medicine Shin-Yokohama, Japan; Prince Hotel. Asbestos and Disease (see Publications).

November 7-9, 2006: Yokohama and Tokyo, Japan: Informal meetings with Japanese investigators of asbestos exposure and disease.

2007

June 21, 2007. Las Vegas California. Invited guest speaker, American Conference Institute. "New Developments in Scientific Understanding of Fiber Pathogenicity vs. Fiber Nomenclature".

August 1-2, 2007. Atlanta, Georgia. Panel Review, "Environmental and Public Health Interventions around Naturally Occurring Asbestos: A Community Case Study". Georgia State University and by invitation, GSU/ CDC/ ATSDR.

September 2007: First planning meetings for Conference of Canadian Association of Researchers in Work and Health (**CARWH**); Montreal, Canada; Member of Scientific Planning Committee.

October 2007. Banff Alberta. The 19th International Conference on Epidemiology in Occupational Health: Frontiers of Occupational Epidemiology (**EPICOH**). Member of the Organizing Committee; Member of the Scientific Committee.

October 10, 2007, Banff Alberta. 14:40-16:00. The 19th International Conference on Epidemiology in Occupational Health: Frontiers of Occupational Epidemiology (**EPICOH**).
Chair: Oral Presentation
Session; **ASBESTOS**. (Speakers: Dana Loomis, John Corbett McDonald, John Dement, Anne-Helen Harding).

2008

Board meetings. Canadian association of researchers in work and health.

September 2008: oral presentation: British Occupational Hygiene Society “Conference on Inhaled Particles X”. Sheffield, U.K. Paper 1 of 2: Case BW and Abraham J. “Heterogeneity of exposure and attribution of mesothelioma: trends and strategies in two American counties. (abstract and paper published; see publications).

September 2008: oral presentation: British Occupational Hygiene Society “Conference on Inhaled Particles X”. Sheffield, U.K. Paper 2 of 2: Case B, Dufresne A and Sebastien P. “A 25 year experience of lung-retained fibre analysis in one institution: time trends and methodological findings”. (abstract published; see publications).

September 2008: invited oral presentation, epidemiology session: IXth International Conference on Mesothelioma; International Mesothelioma Interest Group, Amsterdam, NL. (see abstracts).

September 2008: Session co-chair, Surgical treatment of mesothelioma. **IXth International Conference on Mesothelioma; International Mesothelioma Interest Group, Amsterdam, NL.**

2009 onwards:

March 25/26 2009: McGill representative to “Comprehensive cancer and chronic disease prevention national consultation workshop” - “CLASP - environmental prevention workshop” - Airport Hilton Montreal.

May 5/6 2009: McGill representative to the Canadian Centre for Environmental Health “Canada’s chemical footprint: examining the evidence, identifying the gaps, assessing the causal links and determining the policy responses” (convened by the Conference Board of Canada).

May 16-20 2009: American Thoracic Society, San Diego California.

June 13-20 2009: International Clay Conference: Invited Speaker; Nova Yardinia Complex, Castellenata Marina, PUGLIA, Italy: Oral Programme / Asbestos Monitoring & Analytical Methods / Biological asbestos exposure assessment: new parameters for an old model.

December 16/17 2009: Chapel Hill, NC: US NIEHS “*Asbestos: A Science-Based Examination of the Mode of Action of Asbestos and Related Mineral Fibers*”: sponsored by NIEHS, U.S. Environmental Protection Agency (EPA), Agency for Toxic Substances and Disease Registry (ATSDR), and NIEHS Superfund Research Program (SRP); member of writing team. See also publications 2011.

March 4, 2010: Toronto, Ontario. **Asbestos Surveillance & Disease Compensation Think Tank.** Canadian Partnership Against Cancer.

March 23, 2011: Toronto, Ontario. **OCRC Research Day: Assessing the Human and Economic Burden of Occupational Cancer.**

April 6, 2011: Stratford-on-Avon, UK: British Occupational Hygiene Society. Invited Speaker. “*Exposure to brake dust and malignant mesothelioma: Lung-retained fibre analysis using transmission electron microscopy confirm previous findings at lower magnification by scanning electron microscopy.*”

July 28, 2011: University of Vermont, Burlington Vermont, ASTM (“Johnson”) Conference. Invited Speaker: “*Exposure to Brake Dust and Malignant Mesothelioma: Lung-Retained Fibre Analyses Using Transmission Electron Microscopy Confirm Role for Unsuspected Commercial Amphibole Exposures*”.

January, 2012. American Conference Institute: Philadelphia PA. Invited guest speaker on asbestos-related diseases.

September 2012. Invited plenary speaker: **XIth International Conference on Mesothelioma.** International Mesothelioma Interest Group, Boston, MA. *Update on mesothelioma in North America.*
(a) UPDATE ON EPIDEMIOLOGY IN NORTH AMERICA (see Abstracts)
(b) Misrepresentation of historical fiber research: An interview-based study for retrospective knowledge translation of epidemiological inquiry. (See Abstracts)

September 2012. Invited participant: Canadian Partnership against Cancer *Coalitions Linking Action and Science for Prevention (CLASP2):* CLASP 2 environmental workshop, Marriott Chateau Champlain, Montreal, Canada.

June 2013. Perrin Conference, Chicago. *THE NEWEST TRENDS IN LUNG CANCER & MESOTHELIOMA CASES:* Invited Speaker.

September 2013. Invited Speaker: British Occupational Hygiene Society, Nottingham, United Kingdom. *Mesothelioma incidence from occupational asbestos exposure in fully developed economies: differences in recent rates and trends and possible explanations.*
<http://www.inhaledparticles.org.uk/files/2013/08/0058-B-Case.pdf> (accessed November 5, 2013).

October 7, 2013. American Conference Institute. New York, NY. 15th National Advanced Forum on Asbestos Claims & Litigation. Invited Speaker: “Examining the impact of the Evolution of asbestos Medicine”.

June 5, 2014. 12:30 – 16:30 Invited Speaker: American Industrial Hygiene Conference (AIHce), San Antonio Texas. Invited Speaker; Technical Session “Roundtable” RT 243 – Asbestos and the Society: Perception of an Acceptable Risk Level.

July 25, 2014 (Invited Speaker): ASTM Johnson Conference on Asbestos, Almost Asbestos, and Asbestos Progeny: New Challenges. Topic: Pathology and demographic analysis for mesothelioma in the United Kingdom.

September 3, 2014 (Invited plenary Speaker): International Mineralogical Association, Johannesburg, South Africa. Topic: **Asbestos deposits, work environments, and "deposits" in the lungs of workers: where and why they differ.**

October 19, 2014: Invited Symposium Speaker: The Geological Society of America: Symposium: Asbestos, Fibrous Zeolites, and Other Elongate Mineral Particles (EMP) of Environmental Concern: Where Mineralogy and Geology Meet Epidemiology, Industrial Hygiene, and Public Policy. Topic: "MINERAL FIBRE DEPOSITS IN WORK ENVIRONMENTS AND WORKERS: WHERE AND WHY THEY DIFFER". Abstract at <https://gsa.confex.com/gsa/2014AM/webprogram/Paper247598.html> (accessed August 27, 2014).

December 2014: Society for Risk Analysis. Denver, Colorado. Invited Symposium Speaker: Symposium: Development and Application of Advanced Risk Assessment for Lung Cancer with Asbestos. Topic: Can Tumor Morphology and Molecular Pathology Assist in Identifying And Quantifying Risk Parameters In Lung Cancer When There Is More Than One "Exposure"? Abstract at <http://birenheide.com/sra/2014AM/program/single-session.php3?sessid=W4-I> (accessed August 27, 2014).

April 30-May 1 2015: [ASTM Conference on Naturally Occurring Asbestos, Anaheim California.](#) Invited Speaker: "Individual prospective exposure assessment is necessary for true ascertainment of risk: the example of El Dorado county, CA".

June 2, 2015: Invited Panelist, AIHCE (American Industrial Hygiene Association), Salt Lake City, Utah, Roundtable "[Cancer and Non-Cancer Endpoints in Asbestos Risk Assessment](#)". Topic: **Fifty Years Later: Do We Really Know More about Asbestos-Related Cancers than We Did Then?**

April 25, 2016: Invited Speaker: Professional Development Course **Asbestos and Other Fibrous Materials: Exposure and Risk Assessment.** "Pathology of Asbestos-Related Diseases". Glasgow Hilton, Glasgow, United Kingdom.

May 1-4, 2016: Invited Speaker: International Mesothelioma Interest Group. Birmingham, United Kingdom.

May 21, 2016: Invited Speaker: Professional Development Course **Asbestos and Other Fibrous Materials: Risk Assessment, Characterization, Communication.** "Pathology of Asbestos-Related Diseases". Baltimore, MD.

May 26, 2016: Invited Speaker: Asbestos Roundtable (8am to 12 noon): "Does Talc Cause Cancer?"

2017: **June 19-23, Modena Italy. Invited Speaker/ Instructor, international European Mineralogical Union School on Mineral Fibres.**

- Topics: 1. Asbestos related diseases.
2. Epidemiological studies of asbestos related diseases (1 h)