

Gyan S Rajhans & Associates Inc.

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**Appendix B
CURRICULUM VITAE (CV)**

July 2004

Gyan Rajhans
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PROFESSIONAL EXPERIENCES RELATED TO ASBESTOS**July, 1968- June, 2004****President, Gyan S Rajhans & Associates Inc. (May, 2002-June, 2004)**

Prepared *asbestos* dust control policy for a major Ontario corporation.

Served as an expert advisor on asbestos related claims.

Senior Scientific Advisor, REA Ltd., Toronto (Jan. 2000-May, 2002)

Reviewed and commented on air quality assessments for McMaster University *asbestos* removal and other air sampling results for worker exposures to asbestos.

Published a book (co-author), "Practical Guide to Respirator Usage in Industry", *Butterworth Publishers*. The book (pages 150-153) contains three case studies on lack of proper respirators for *asbestos* exposures in asbestos insulation removal jobs based on my personal investigations.

District Manager, Central Region, Ontario Ministry of Labour (July, 1991 – Jan. 2000)

Enforced the Ontario Industrial and Construction Health & Safety Act and Regulations related to *asbestos* and other designated substances in one of the largest districts of Ontario.

Gyan Rajhans

Principal Occupational Hygiene Advisor, Ontario Ministry of Labour (June, 1987 – July, 1991)

Developed and provided expert advice on *asbestos* regulations and their enforcements.
Coordinated special field projects related to occupational *asbestos* exposures.

Analysed, Evaluated and Reported on all issues related to air sampling and analysis for *asbestos* and respirator selection policy for asbestos.

Maintained liaison with international *asbestos* standard setting organisations.

Advised external and internal occupational hygiene consultants on the Ontario *Asbestos* and Respirator regulations.

Chaired WHMIS Technical and Policy advisory Committee (Ontario) addressing enforcement issues including *asbestos* related issues arising in the field and requiring technical and policy advice.

Drafted background documents on respirator decision logic and asbestos abatement programs.

Published 13 scientific and technical articles on air quality assessment and respirator selection in various journals (see List of Publications).

Chief, Occupational Health Hygiene Service & Occupational Health Engineering Services, Ontario Ministry of Labour (Jan.1977-Jan.1987)

Administered the Occupational Hygiene Program including *asbestos* abatement for the entire province of Ontario.

Liased with Workers compensation Board (now WSIB), other Ministry Branches and the public in order to explain health and safety legislation and recommend mitigating actions for various designated substances including *asbestos*.

Prepared several technical and administrative guidelines for field hygienists and technicians on identification, evaluation and control measures of occupational hazards including *asbestos* health hazards.

Trained industrial, construction and mining safety officers for preliminary *asbestos* hazard recognition.

Wrote draft regulations on the use of respirators for silica and *asbestos*.

Gyan Rajhans

Lectured on ventilation and *asbestos* dust control at University of Toronto, McMaster University & University of Western Ontario, London, Canada.

Appeared as expert witness before the Royal Commission on Matters of Health and safety Arising from the Use of *Asbestos* in Ontario. The Royal Commission report has referenced my publication (co-author) on *asbestos* exposures in Ontario and my book (principal author), “*Asbestos Sampling and Analysis*” published by Ann Arbor Science in 1981

Published three reference books on *asbestos* and respirators (see List of Publications).

Dust Control Specialist, Environmental Health Services Branch, Ontario Ministry of Health (July 1968-Jan. 1977)

Conducted industrial hygiene surveys including *asbestos* dust sampling and analysis in numerous industrial establishments and on construction sites throughout Ontario. Surveys were also conducted while fireproofing using *Monokote-3* containing *asbestos* was being done in Toronto Subway extension (Yonge-Sheppard-Line) and other similar constructions. During these surveys, *asbestos* samplings were also performed where joint compounds were mixed, applied and sanded.

Met with W.R. Grace in Toronto to persuade them to eliminate *asbestos* in their fireproofing material.

Acted as an expert advisor to industrial management, industrial chest disease services, industrial safety branch and mines branch by investigating and suggesting corrective measures as required for control of *asbestos* dust hazards in industrial, mining and construction establishments.

Extensively involved in research on *asbestos* dust sampling and analysis strategy for the province.

Lectured at Humber College, Seneca College and Ryerson Polytechnique on *asbestos* dust sampling, analysis and control.

Frequently invited by various provincial safety associations to lecture in their training courses on *asbestos* dust control measures and respirator selection policy.

Successfully implemented several *asbestos* dust control strategies and initiatives for the province.

Published seven peer-reviewed papers on *asbestos* exposures, *asbestos* sampling techniques (MF), *asbestos* dust control measures and selection of proper respirators for *asbestos* exposures. (See the list of publications).

Gyan Rajhans

OTHER PROFESSIONAL EXPERIENCES (1968-2004)

Audited the Occupational Health & Safety curriculum of Lambton College, Sarnia on behalf of the Ontario Ministry of Education & Training (June 30-Sep. 30, 2002).
Ventilation Assessment & Design modification for Goodyear Canada (In Progress)

Prepared Basic Guidelines for Industrial Ventilation for CCOHS, Canada (six booklets in progress).

Expert Witness for Heintzman, Warren, Wise & Fornella, p.c., Pittsburgh, PA, USA on Respirator related claims (in progress).

Prepared contract proposals for dry cleaning establishments, Ontario Ministry of Labour air quality assessments, IAQ investigations, WSIB, CIDA (Jan. 2000-May, 2002).

Responsible for administering occupational Health & Safety Act, Employment Standards Act, Wage Protection Act; Supervising Health and Safety Officers and Employment standards Practice Officers; managing the Ministry Health & Safety Program. (July 1991-Jan. 2000)

Responsible for planning, developing, evaluating and implementing occupational health standards in Ontario. (June, 1987-July, 1991)

Provided expert advice on complex occupational hygiene issues in order to develop strategic policy in the field of occupational health and safety. (June, 1987-July, 1991)

Chaired Inter-Ministerial Committee on Indoor Air Quality (1986-1988).

Advised external and internal occupational hygiene consultants on IAQ, ventilation and respirator regulations. (1987-1991)

Participated as a member of the Bill 194 Implementation Committee to draw up the protocol of second hand smoke exposure investigations (1988-1989). **Participated** as a member, Joint Technical Committee, Municipal-Industrial Strategy for Abatement Program (MISA). (1990-1991)

Participated on several organising Committees for international conferences on occupational hygiene, indoor air quality, personal protective equipment and ventilation. (1987-1991)

Responsible for directly supervising 7 senior engineers/hygienists and indirectly 25 field hygienists and 25 field technicians located in six major regional offices.(1987/1991)

Gyan Rajhans

Administered the Occupational Hygiene Program for the entire province of Ontario. (1987-1991)

Responsible for fiscal resource management for 20-65 field staff. (1987-1991)

Chaired IAPA/OHAO education committee (1988-1989).

Co-founded the Canadian Registration Board of Occupational Hygienists (CRBOH) and assumed the responsibility of Secretary-Treasurer. (1986)

Co-founded the International Occupational Hygiene Association (IOHA) in Montreal, and was appointed chairman, Ethics Committee. (May 1987)

Responsible for directly supervising 2 engineers and one technician. (1968-1977)

Appointed Scientific Officer, Canada Department of Energy, Mines and Resources, Elliot Lake, Ontario, Canada. (Sep. 1966-June 1968)

Responsible for extensive investigation and research in mines dust sampling and analysis. (1966-1968).

Developed a new dust-sampling instrument for uranium mines (1967)

Wrote & published several reports on comparison of various dust sampling instruments and their characteristics in regards to coal, silica and other mine dusts. (1966-1968).

INTERNATIONAL POSITION (CONTRACT)

Dec.1987-Dec.1988

Consultant, United Nations Development program.

Responsible for developing occupational health & safety programs for selected institutions in India.

ACADEMIC APPOINTMENTS

1987-1995

Assistant Professor, Department of Medicine and Biostatistics, University of Toronto
Adjunct Professor (full), Department of Chemical Engineering, University of Toronto

1981-1982

Gyan Rajhans

Part-time Lecturer, Department of Environmental Engineering, University of Western London, Ontario.

EDUCATION

University

Degree

Year

Queen's University, Kingston, Ontario
Canada. M.Sc.(Engineering) 1966

Thesis: Critical Velocities of Mineral Dusts.
Faculty: Mining Engineering
Award: George C. Bateman Fellowship.

Ranchi University, India B.Sc. (Engineering) 1963

Major: Dust Control in Coal Mines
Minor: Mine Engineering
Award: Vice Chancellor's Scholarship.

PROFESSIONAL CERTIFICATES

Registered Professional Engineer Ontario (**P.Eng.**) since 1966.
Certified Industrial Hygienist (**CIH**) since 1982.
Registered Occupational Hygienist (**ROH**) since 1988.

AWARDS

Amethyst award for outstanding achievement by
Ontario Civil Servant in Occupational Health & Safety. 1995

Hugh M. Nelson Award of Excellence in Occupational Hygiene 1997
by the Occupational Hygiene Association of Ontario.

Life Achievement Award by OH&S Magazine, Canada. 1999

Award of Excellence for Professional Achievements by Industrial
Accident Prevention Association (IAPA) sponsored by 3M Canada. 2000

SPECIAL RECOGNITION AT LIFE ACHIEVEMENT AWARD (1999)

“Gyan Rajhans is most celebrated for his 1976 work which demonstrated the link between carbon dioxide levels in indoor air, an indicator of inadequate fresh air supply, and the set of symptoms that characterize sick building syndrome. He was also instrumental in the development of the first detailed protocol of IAQ investigations, published by the Ministry of Labour as part of its 1988 Interministerial Committee Report on IAQ.”

Gyan Rajhans**PROFESSIONAL SOCIETIES (Elected Offices)**

Vice-Chair-elect, Vice-Chair, Chair, Past Chair, <i>ACGIH</i>	1995-1998
Director, <i>ABIH</i>	1988-1995
Secretary-Treasurer, <i>CRBOH</i>	1988-1992
Chair, Ethics Committee, <i>IOHA</i>	1987-1990
Director, <i>OHAO</i>	1976-1978

PROFESSIONAL SOCIETIES AND COMMITTEE (Appointments)

Chair, <i>ACGIH Industrial Ventilation(IV) Committee</i>	2002-present
Editorial Board, <i>AIHA Journal</i>	1983-2003
CO-Chair, <i>AIHCE</i> , Toronto, Canada	1999
Vice-Chair, <i>ACGIH IV Committee</i>	1993-1995
Member, <i>ACGIH IV Committee</i>	1974-1995
Founding Member, <i>International Society Of Indoor Air and climate</i>	1991
Member , Organising Committee, the 5th International Conference on <i>Indoor Air Quality and Climate</i> ,	1990
Chairman, Scientific Program, <i>3rd International Conference on Ventilation and Contaminants</i>	1991
Member, Program Committee, <i>AIHC&E, Orlando</i>	1990
Member, <i>ACGIH Air Sampling Instruments Committee</i>	1974-1988
CO-Chair, <i>AIHC&E</i> , Montreal	1987
Chair, Technical committee, <i>1st International Conference on Ventilation and Contaminants</i>	1985
Chair, <i>Education Committee, OHAO</i>	1980-1985
Member, <i>AIHA Trade Practices Committee</i>	1974-1978

PROFESSIONAL SOCIETY MEMBERSHIPS

American Industrial Hygiene Association(<i>AIHA</i>)	1970-present
American Conference of Governmental Industrial Hygienists (<i>ACGIH</i>)	1967-present
American Academy of Industrial Hygienists.	1988-present
Occupational Hygiene Association of Ontario	1969-present
Association of Professional Engineers, Ontario	1967-present
International Society of Indoor Air Quality	1991-1998

Gyan Rajhans

PUBLICATIONS

Technical Reference Books (Principal Co-author)

1. “**Engineering Aspects of Asbestos Dust Control**”, published by *Ann Arbor Science Publishers*, 278 Collingwood, P.O. Box 1145, Ann Arbor, Michigan 48106, U.S.A. March, 1978.
2. “**Asbestos Sampling and Analysis**”, published by *Ann Arbor Science Publishers*, The Butterworth Group, 230 Collingwood, P.O. Box 1425, Ann Arbor, Michigan, 48106, U.S.A. June, 1981
3. “**Practical Guide to Respirator Usage**”, published by *Butterworth Publishers*, 80 Montvale Avenue, Stoneham, Mass., 02180, U.S.A. January 1985.
4. “**2nd Edition of Practical Guide to Respirator Usage**” published by *Butterworth/Heinmann, Elsevier Science*, 225 Wildwood Avenue, Woburn, MA 01801-2041. USA, June 2002.

List of Technical and Scientific Papers (Published & Presented)

1. “Critical Velocities of Mineral Dusts”- Canadian Mining Journal, pp. 85-88, October 1967
2. “Development and Application of Air Permeability Technique for Measurement of Surface Areas of Dust” Fuels and Mining Practice Division Report MP. 67/43, Canada Department of Energy, Mines & Resources, Ottawa “, July, 1967.
3. “Evaluation of Electronic Scanner”, Fuels and Mining Practice Division, Report MR. 67/42,- Canada Department of Energy, Mines & Resources, Mines Branch, Ottawa. October 1967.
4. “Electronic Counting of Konimeter Slides” Fuels and Mining Practice Division, Report MR. 67/42,- Canada Department of Energy, Mines & Resources, Mines Branch, Ottawa. July 1967.
5. “Sampling of Airborne Dust with Membrane Filters”- Canadian Mining Journal, pp. 79-81, October 1968.
6. “Application of a Laser Beam in Establishing a true vertical Line Useful for Shaft Plumbing Purposes”- Canadian Mining Journal, pp. 45-47, November 1968.

Gyan Rajhans

7. “Fibrous Dust – Its Measurement and Control”- The Canadian Mining and Metallurgical Bulletin, pp.900-910, August 1970.
8. “Considerations in Duct Design”- Canadian Mining Journal, pp. 100-102, October 1970.
9. “Dust Conditions in Brick Plants of Ontario”- AIHA Journal, pp. 259-268. (Abstracted in all the Industrial Hygiene Journals of the world) April 1972.
10. “Talc Dust and Its Toxicity”- The Canadian Mining and Metallurgical Bulletin, pp. 117-118, April 1974.
11. “An Industrial Hygiene Study of Dust Exposure in Brick Plants of Ontario”, Journal of the Canadian Ceramic Society, Vol. 43, pp. 74-82, April 1974
12. “A Statistical Analysis of Asbestos Fiber Counting in the Laboratory and Industrial Environment”- American Industrial Hygiene Association Journal, pp. 909-915. December 1975.
13. “Review of Respiratory Protection – OSHA and the Small Business”, American Industrial Hygiene Journal, pp. 21-22 March 1977.
14. “Control Strategies – Prevention”- Hazards at Work Proceedings, pp. 39-41 November 16-17, 1977.
15. “The Uses and Abuses of Respiratory Protection in Industry”, (Co-author) Occupational Health in Ontario, Vol. 30, No. 1, Fall-Winter, 1977.
16. “Here is an Update on Asbestos”- International Journal of Occupational Health and Safety. Pp. 38-43, December 1977.
17. “Personal Monitoring of Particulate Matters”, Presented at AIHA Seminar, Bristol Place Hotel, Toronto, March 30, 1978.
18. “Silica Flour Exposures in Ontario” (Co-author) – American Industrial Hygiene Association Journal, pp. 261-269, April 1978
19. “Employee Education, Management, Support can Halt Respirator Abuse” International Journal of Occupational Health and Safety, pp.30-34, July-August 1978.

Gyan Rajhans

20. “Inertial, Gravitational and Diffusional Collectors”- Air Sampling Instruments, 5th Edition, A.C.G.I.H., May 1978.
21. “A Review of Asbestos Exposures in Ontario” (Principal Author) – American Industrial Hygiene Journal, pp. 767-771, September 1978.
22. “Occupational Health Hazards and Their Control in the Manufacture and Handling of Pesticides in Ontario”, (Co-author)- Proceedings of 6th International Symposium on the Prevention of Occupational risks in the Chemical Industry, Frankfurt, Germany, May 18-19, 1979. .
23. Review of “NIOSH Special Occupational Hazards Review with Control Recommendations” – AIHA Journal, p. A-48, December 1979
24. Review of “Technical Report – Development of a Prototype Service-Life Indicator for Organic Vapor Respirators”- AIHA Journal, p. A-26, July 1979.
25. Review of “An Evaluation of Cotton Dust Control System”- AIHA Journal, p. A-34, July 1979.
26. Review of “NIOSH Criteria for Recommended Standard-Occupational Exposures in Coal Gasification Plants”- AIHA Journal, p. A-36, July 1979.
27. Review of “NIOSH Supplement and Index to Grain Dust Fire and Explosion Bibliography”- AIHA Journal, September 1979.
28. Review of “Long-Term Performance of Charcoal Absorber Removing Radioiodine in Ventilation Exhaust Air”- AIHA Journal, p. A-46, September 1979.
29. Review of “NIOSH Criteria for a Recommended Standard...Occupational Exposures in Diisocyanates”- AIHA Journal, p. A-38, November 1979.
30. “Occupational Health Hazards and Their Control in the Manufacture and Handling of Pesticides in Ontario”, (co-author)- Proceedings of 6th International Symposium on Prevention of Occupational Risks in the Chemical Industry, Frankfurt, Germany, pp. 441-455, June, 1979.
31. “Assessment of Airborne Free Silica in Gold Mines”, (Co-author), Presented at the American Industrial Hygiene Conference, Portland, Oregon, U.S.A., May 22-28, 1981.

Gyan Rajhans

32. “An Assessment of Acrylonitrile Control Technology”, (Co-author), Presented at the American Industrial Hygiene Conference, Portland, Oregon, U.S.A., May 22-28, 1981.
33. “A Review of Health Risks in Acrylonitrile Industry”, (Co-author), Presented at the 20th International Congress on Occupational Health, Cairo, Egypt September 25-October 1, 1981.
34. “Basic Principles of Industrial Hygiene”- Proceedings of Seminar on Occupational Health, Toronto, Ontario, Canada, June 22-23, 1981.
35. “10mm Nylon Cyclone Dust Sampler: A Critique”, (Co-author)- Occupational Health in Ontario, Vol. 3, No. 2, April 1982.
36. “Asbestos Identification and Sampling”- Occupational Health in Ontario, Vol. 3, No. 3, July 1982.
37. “Inertial and Gravitational Collectors”- Air Sampling Instruments, 6th Edition, ACGIH, 6500 Glenway Avenue, Building D-5. Cincinnati, Ohio, 45211, U.S.A., pp. Q.1-Q.40, 1983.
38. “Indoor Air Quality and CO₂ levels” – Occupational Health in Ontario, Vol. 4, No. 4, October 1983.
39. “Assessment of Health Hazards”- Proceedings of the Seminar on Health Hazards in the Workplace, Assessment and Control, pp. E1-E13, June 14-15, 1983.
40. “Ventilation Design and Measurement (Local Exhaust)” – Proceedings of the Seminar on Health Hazards in the Workplace, Assessment and Control, Pp. N1-N43, June 14-15, 1983.
41. “Use of Respirators for Asbestos Exposures in Ontario” –First Conference on International Society of Respiratory Protection, St. Paul, Minnesota. August 22-26, 1983.
42. “Application and Assessment of Designated Substances”, Occupational Health Hazards, Assessment and Control Conference, June 19-20, 1984.
43. “Rationale for CO₂ levels in the Office Environment”, Environmental Concerns in Offices and Homes, London, Ontario, September 24-25, 1984.

Gyan Rajhans

44. “Automotive Body Repair Shop Hazards”- Occupational Health in Ontario, Vol. 5, No. 4, October 1984.
45. “Designated Substance – Do You Know How to Establish a Control Program?” – Workshop on Assessment and Control of Hazardous Substances, IAPA, June 11-12, 1985.
46. “An Overview of Internationally Regulatory Requirements for Respiratory Equipment”, presented at the Second International Society of Respiratory Equipment Conference, York, England, September 2-5, 1985.
47. “Rationale for Carbon Dioxide Guidelines as an Indicator of Insufficient Fresh Air”- Proceedings of the Fourth Canadian Building Congress, National Research Council of Canada, Ottawa, Ontario K1A 0R6, pp. 251-256, November 1985.
48. “International Workshop and Conference on Training and Education in Occupational Hygiene”- Occupational Health in Ontario, Volume 8, No. 1, Winter, 1987.
49. “Occupational Exposure to Cobalt in Ontario”, American Industrial Hygiene Conference, Montreal, May 31 – June 5, 1987.
50. “Regulation Respecting Control of Exposure to Biological or Chemical Agents”, O.H.A.O. – I.A.P.A. Conference, “Hazardous Materials and The Right-to-Know”, Toronto, September 30, 1987.
51. “Occupational Hygiene and Medical Inspection Survey of 51 Sewage Treatment Plants in Ontario”, Ontario Chapter of Air Pollution Control Association, Conference, Kingston, April 18, 1988.
52. “Respirator Fit and Facial hair-Regulator’s Dilemma”(co-author)- Applied Industrial Hygiene, Pp. F 24-27, November 1988.
53. “Inter-Ministerial Committee on Indoor Air Quality, a progress report”, Construct Canada ’88 Conference, Toronto, June 2, 1988,
54. “Hygiene Aspects of Occupational Exposure to Waste Anaesthetic Gases in Ontario Hospitals.”- Ann. Occup. Hyg. Vol. 33, No. 1, pp. 27-45, 1989.
55. “Occupational Health Hazard Survey of 51 Ontario Sewage Treatment Plants.” Occupational Health in Ontario, Vol. 10, No. 1, Winter 1989.
56. “Findings of the Inter-Ministerial Committee on Indoor Air Quality (Ontario)”. Proceedings of the ASHRAE/SOEH Conference IAQ ‘ 89 San Diego, CA Pp. 195-223, April 17-20, 1989.

Gyan Rajhans

57. “A Respiratory Protection Program: The Essential Components”(co-author)
Applied Industrial hygiene, F22-27, November 1989.
58. “WHMIS ENFORCEMENT ISSUES/RESOLUTION”- Occupational Health in Ontario Vol. 11, No. 3 pp. 136-144, summer, 1990.
59. “Field Validation of Indoor Air Quality Questionnaire”(co-author)- Proceedings of the 5th International Conference on Indoor Air Quality and Climate Toronto, Ont., pp. 593-598. 29 July - 3 Aug. 1990.
60. “Integrating a Questionnaire into the IAQ Investigation: A Case Study Using the Questionnaire Designed by the Inter Ministerial Committee” (co-author)
Proceedings of the 5th International Conference on IAQ, Toronto, Ont., pp.623-628 29 July - 3 Aug. 1990.
61. “Review of Problem Buildings: Building Associated Illness and the Sick Building Syndrome, Occupational Medicine; State of the Art Reviews.” OH &S, Canada, July-. P. 104, August 1990.
62. “A Simplified IAQ Questionnaire to Obtain Useful Data for Investigating Sick Building Complaints”(co-author)- American Industrial hygiene Association Journal 52(8): A434-437, 1991
63. “A Preliminary Comparison of United States, Ontario and European Regulations on Occupational Health” (co-author), Presented at A.I.H. Conference, Salt Lake City, Jun 1991.
64. “Proceedings of Ventilation’ 91” Co-editor, published by ACGIH, Cincinnati, OH, USA, 1993.
65. “Revisiting the TLV Process” Fifth Symposium on Health hazards in Work-Environment Polish Association of Occupational Hygienists, Ludz, Poland, Nov. 3, 1997.
66. “Global Advancements in Occupational Health and Safety” National Safety Congress, Los Angeles, October 25-30, 1998.
67. “Health and Safety in a Global Marketplace” A.I.H.C & E., Toronto, June 5-11, 1999.

Invited Presentations and Publications

- Annual Meeting of Ontario Association of School Business Officials. “Indoor Air Quality in Schools.” Kitchener, Ontario November 11, 1988.
- “Criteria for Indoor Air Quality” American Industrial Hygiene Conference, San Francisco, May 16, 1988.
- Air Pollution Control Association Ontario Section “Socio Economic Perspectives on IAQ” March 16, 1989.

Gyan Rajhans

- Spring Symposium and Annual General Meeting of Occupational Hygiene Association on Ontario, “Interministerial Indoor Air Quality Report” March 31, 1989.
- IAQ ‘89 organized by ASHRAE, Santiago, U.S.A. “Procedure and Protocol for IAQ Investigations” April 20, 1989.
- Annual Meeting of ASHRAE London, Canada Chapter, “Are Present ASHRAE standards significant?” April 25, 1989.
- American Industrial Hygiene Conference, St. Louis, U.S.A. “Significance of Questionnaire in IAQ investigations” May 24, 1989.
- Comparison of EPA Guidelines and Ontario Guidelines for IAQ “Presented at NATO/EPA Conference, Washington, D.C., October 25-27, 1989.
- “Exposure Limits-Government Perspectives”. Presented at Fall Symposium of Occupational Hygiene Association of Ontario, Nov. 7, 1989
- “Industrial Ventilation Design” Seminar for Technical University of Nova Scotia at Ramada Inn, Toronto, Nov. 20-22, 1989.
- “Protocol and Procedure of Office Air Quality Investigations” IAPA Seminar, April 11, 1990.
- “Current Guidelines for School and Residential IAQ Investigations” Canadian Institute of Public Health Inspectors, Perth, Ontario, May 2, 1990.
- “Local Exhaust-Hood Design” Industrial ventilation Systems Seminar, University of Toronto, December 13-14, 1995.
- “Indoor Air Quality, Past and present” Annual Meeting of Brazilian Occupational Hygiene Association, August 20, 1997.
- “Evolution of ACGIH-TLV Process” Occupational Hygiene Conference’98, B.C. Institute of Technology, Burnaby, B.B., Canada, June 9, 1998.
- “Introduction to Indoor Air Quality” Health & safety Conference’98, IAPA, Toronto, Canada, April 28, 1998.
- ‘Comprehensive Review of IAQ and Protocol of IAQ Investigation’ PDC, IAPA, Toronto, Canada, April 30, 1998.