CURRICULUM VITAE

KATZ, Morris

PERSONAL DATA:

Born April 7, 1901, Kiev, Russia Arrived in Canada in 1905 Citizenship: Canadian - Married, 5 children

Early Education:

Mount Royal Public School, Montreal, Quebec, 1907-1913

Montreal, High School, 1913-1917

University:

McGill University, Montreal, B.Sc. 1926, Chemical Engineering Awarded British Association Medal and University Bursary for Graduate Study

McGill University, M.Sc., 1927, Chemistry

McGill University, Ph.D., 1929, Organic Chemistry and Biochemistry

McGill University, Demonstrator in Chemistry, 1926-1929

PROFESSIONAL CAREER:

Chemist	National Research Council of Canada, Associate Committee on Trail, B.C. Smelter Fumes	1929-1931
Assistant Research Chemist	National Research Council of Canada	1931-1936
Associate Research Chemist	National Research Council of Canada	1936-1947
Consultant	Directorate of Chemical Warfare of Canada	1940-1945
Research Scientist	Defence Research Board of Canada	1947-1951
Scientific Service Officer	Defence Research Board of Canada	1951-1955
Consultant and Director	Environmental Assessment Occupational Health Division Dept. of National Health and Welfare, Canada	1956-1965
Professor	Graduate School in Sanitary Science and Engineering, Syracuse University, Syracuse, N.Y.	1965-June, 1969
Professor	Dept. of Chemistry and Division of Natural Science, York University	July, 1969 - June, 1980
Professor Emeritus	York University	July, 1980 -

TEACHING ASSIGNMENTS AT YORK DURING PAST 5 YEARS:

Chemistry 600.63 M.Sc. Thesis

GRADUATE SUPERVISION:

Students currently under supervision (jointly with Associate Professor E. Lee-Ruff):

Ph.D. Henry Kruk

Ph.D. Kathy Isles, M.D.

Ph.D. C. Chan

Examining Committees at York during past 5 years:

Ph.D.	S. Maddukuri	April 1977
Ph.D.	M. Ibrahim	April 1978
Ph.D.	T. Sakuma	October, 1978
M.Sc.	V. Wei Liu	December, 1980
Ph.D.	Bernard Kunz	March, 1981
M.Sc.	John D. Collins	March, 1982
Ph.D.	Robert Miller	October 1983

Students completing degrees:

Ph.D. Thesis

Gale, S.B. - Kinetics of Photochemical Oxidation of Sulfur Dioxide in Dilute Gas-Air Mixtures, Syracuse University, Syracuse, N.Y., June, 1968.

Ph.D. Thesis

Bjorklund, J. - Photochemical Oxidation of Sulfur Dioxide in Presence of Nitrogen Dioxide and Unsaturated Hydrocarbons, Syracuse University, Syracuse, N.Y., September, 1969.

Ph.D. Thesis

Pierce, R.C. - Polynuclear Aromatic Hydrocarbon Content in Relation to Particle Size Distribution of Suspended Particulate Matter, York University, Toronto, Ontario, August, 1975.

Ph.D. Thesis

Lane, D.A. - Gas Chromatographic Analysis and Photodecomposition Studies of Atmospheric Polycyclic Aromatic Hydrocarbons, York University, Toronto, Ontario, August, 1975.

Ph.D. Thesis

Sakuma, Takeo - Application of Mass Spectrometry to the Analysis of Polycyclic Aromatic Hydrocarbons and Related Compounds in the Environment, York University, Toronto, September, 1978.

Master's Thesis

Tipping, H. - Measurement of Low Concentrations of Sulfur Dioxide in Air by Sodium Nitroprusside Impregnated Paper Reagent, Syracuse University, Syracuse, N.Y., May, 1968.

GRADUATE SUPERVISION (continued)

Master's Thesis

Bradstreet, J.W. - Development of New and Improved Methods of Measurement and Analysis of Atmospheric Sulfur Oxides, Syracuse University, Syracuse, N.Y., August, 1968.

Master's Thesis

Kerr, Jr., Robert Spender - Evaluation of Airborne Particulate Matter on Filter Paper by Optical Methods, Syracuse University, Syracuse, N.Y., January, 1970.

Master's Thesis

Kurtz, Joel, M. - Aerosols in the Respiratory Tract, York University, May, 1972.

Master's Thesis

Fast, D.A. - The Identification of Polycyclic Hydrocarbons in Water and Their Photochemistry in Solution, York University, October, 1973.

Master's Thesis

Ho, Andrew Ming-Fong - Distribution of Polycyclic Aromatic Hydrocarbons in Air of Ontario Cities as Influenced by Major Emission Sources, York University, October, 1977.

Master's Thesis

Tosine, Helle Mall - Capillary Gas Chromatographic Analysis of Aqueous Benzo(a)pyrene Photodecomposition, York University, May, 1978.

Master's Thesis

Chan, Cecilia Chi-Ling - Particle Size Distribution and Photodecompsotion of Polycyclic Aromatic Hydrocarbons, York University, May, 1979.

Garbe, Lawrence - The Effect of Acid Rain upon the Environment (review essay), York University, March, 1985.

POSTDOCTORAL FELLOWS, RESEARCH ASSOCIATES:

Postdoctoral: Dr. H.K. Moe 1971-1973 Dr. D.M. Brunette 1974-1975

Research Associates: Dr. M.F. Salamone 1976 - April, 1981 Dr. A.S. Raj May, 1981 - to date

Dr. R.K. Sharma May, 1981 - to date

UNIVERSITY SERVICE:

Council of Faculty of Science Council of Faculty of Graduate Studies Member of Examining Committees (see page 4)

NATIONAL AND INTERNATIONAL RESPONSIBILTIES:

- Editor, Intersociety Committee, comprising members from 13 U.S.

 National Scientific and Engineering Societies, concerned with
 development of a manual of Methods of Air Sampling and Analysis
 of Pollutants. lst Edition, 1972 (480 pages); 2nd Edition, 1977
 (984 pages), published by American Public Health Association,
 Washington, D.C.
- Chairman for Canada, Technical Advisory Board on Transboundary Air Pollution, International Joint Commission (U.S. and Canada) 1949-1965.
- Expert Advisory Panel on Air Pollution, World Health Organization, Geneva, Switzerland, 1964-1973.
- Air Pollution Committee, International Cooperation on Research, Organization for Economic Cooperation and Development, Paris, France, 1960-1962.
- Methods of Atmospheric Sampling and Analysis, Committee D-22, American Society for Testing and Materials, 1962-1981.
- Air Pollution Control, American Chemical Society.
- Air Pollution Control, American Society of Mechanical Engineers.
- National Research Council of Canada, Associate Committee on Scientific Criteria for Environmental Quality, 1970-1978.
- Ontario Department of Health, Committee on Environmental Quality, 1972-1975.
- Board of Environmental Affairs, Chemical Institute of Canada, 1973-1975.
- Senior Scientist Steering Group on Pollution Abatement, U.S. Department of Army, Munitions Plants, 1973-1975.

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES:

Engineering Institute of Canada
Fellow, Chemical Institute of Canada
American Chemical Society
American Society for Testing and Materials
American Industrial Hygiene Association
American Association for Advancement of Science
Air Pollution Control Association (United States)
Fellow, American Public Health Association
American Society of Chemical Engineers

CHAIRMAN OF COMMITTEES:

Review Committee on Publication of Reports on Scientific Criteria for Air Contaminants, National Research Council of Canada, 1972-1976.

Air Pollution Control, Canadian Standards Association, 1963-1965.

Purity of Compressed Air, Diving Equipment, Canadian Standards Association, 1964-1965.

Purity Standards for Breathable Compressed Air, Z-86, American Standard Association, 1964-1965.

Technical Programme Committee, 1965, Air Pollution Control Association (U.S.).

Symposium on Chemistry of Air Pollutants, 1962, American Chemical Society.

Measurement of Long Range Transport of Pollutants and Acid Precipitation, National Research Council of Canada, 1981 - 1982, Chairman of Conference, August 30-September 3, Ottawa, 1982. Proceedings, NRCC/CNRC No. 20642.

CONSULTING AND INDUSTRIAL EXPERIENCE:

Air and Water Pollution Control	Consultant to International Bank for Reconstruction and Development Washington, D.C. ("World Bank")	1971-1975
Air Polluton	Consulting Member, Council of Technical Advisors to New York State Air Pollution Control Board	1966-1969
Air Pollution Survey and Control Onondaga County, N.Y.	Consultant to Syracuse University Research Corporation	1966-1969
Investigations of air pollution problems, effects on vegetation and source control procedures for sulphur dioxide	Nickel-Copper Smelters in Sudbury District, Ontario and Ontario Department of Mines	1947-1965
Assessment of pollution problems involving air and water quality, forest growth and other factors from nickel smelting operations in Northern Manitoba	Consultant Arbitrator to International Nickel Company and Manitoba Government. Organization of joint studies and plan for arbitration of damage claims.	1958-1959
Air Pollution. Assessment of	Consultant to group of ten	1957-1958
sources, nature and quantities of emissions. Diffusion of pollutants and recommended control procedures.	Consultant to group of industries in Montreal East,	1958-1960
	Quebec.	

HONOURS AND AWARDS:

- 1937 Coronation Medal for scientific services, National Research Council of Canada.
- 1937 Letter of Appreciation from Prime Minister William Lyon Mackenzie King of Canada, for scientific services.
- 1938 Letter of Citation from General A.G.L. McNaughton, President, National Research Council of Canada.
- 1956 Plummer Medal, Engineering Institute of Canada.
- 1965 Frank A. Chambers Award, Air Pollution Control Association, United States, in recognition of scientific contributions.
- 1969 R.S. Jane Memorial Award and Lecturer, Canadian Society for Chemical Engineering.
- 1971 Doctor of Science Degree, honoris causa, awarded by McGill University.
- 1981 Doctor of Science Degree, honoris causa, awarded by York University.
- M.D. Thomas Gold Medal, awarded by American Society for Testing and Materials for analytical contributions to Committee D-22: Standard Methods of Atmospheric Sampling and Anaysis.

BIOGRAPHICAL REFERENCES:

American Men of Science, 10th Edition, Catell Press, Tempe, Arizona, 1960 Engineers of Distinction, Second Edition, Published by Engineers Joint Council, New York, 1973.

American Men and Women of Science, 14th Edition, Vol. IV, Published by R.R. Bowker Co., New York, 1979.

International Who's Who in Education, Second Edition, Published by International Biographical Centre, Cambridge, England.

Dictionary of International Biography, Volume 18, International Biographic Centre, Cambridge, England, 1984.

12 Katz, M.

GRANTS AND CONTRACTS SINCE 1977:

Biological Effects of Polycyclic Aromatic Hydrocarbons and Related Environmental Pollutants

					Amount	Year
Contract-NRC-Supply	&	Services	Canada	OSU-77-00192	\$29,994	1977
Contract-NRC-Supply					21,055	1978

Chemical Identification and Biological Assays of Airborne and Waterborne Mutagens (Carcinogens)

	Amount
Ontario Ministry of Environment (OME) Provincial	
Lottery Fund Grant, Project 78-010-33	
Fiscal Year 1978-79	\$ 88,709
Fiscal Year 1979-80	141,836
Fiscal Year 1980-81	134,670

Chemical Identification and Biological Assay Studies of Environmental Mutagens, Promoters and Inhibitors

	Amount
OME, Provincial Lottery Grant, Project 81-055-33 Year #1, Oct. 1, 1981 - Sept. 30, 1982	\$134,880
NRC, Supply and Services Contract, OSU 81-00108, similar project June 15, 1981 - Sept. 15, 1981	\$ 24,245
OME, Provincial Lottery Grant, Project 81-055-33 Year #2, Oct. 1, 1981 - Sept. 30, 1983 Year #3, Oct. 1, 1983 - Sept. 30, 1984	\$157,378 160,586

Chemical and Mutagenic Activity of Adsorbed Polycyclic Aromatic Hydrocarbons and Oxidation Products (with E. Lee-Ruff)

Amount

Strategic Grant, NSERC, No. G0915	
First instalment, Nov. 1, 1982 - Oct. 31, 1983	\$ 50,000
Second instalment, Nov. 1, 1983 - Oct. 31, 1984	53,000

Structural and Electronic Influences of Synthetic Polynuclear Aromatic Hydrocarbons and Derived Oxidation Products on Mutgenic Activity (with E. Lee-Ruff and J.A. Heddle)

Strategic Grant	t, NSERC, No. G1573	
	1, 1984 - October 31, 1985	\$ 56,800
	1, 1985 - October 31, 1986	57,000
November	1, 1986 - October 31, 1987	59,000

INVITED PRESENTATIONS AT OTHER UNIVERSITIES:

Queen's University, Kingston

McMaster University, Hamilton

University of Western Ontario, London

) (records of dates not available)

Appraisal of Prof. J.M. Beekman's qualifications and research publications for promotion - Faculty of Engineering Science, University of Western Ontario, November, 1975.

Evaluation of Doctorate Program in Engineering Science, University of Western Ontario, at request of Appraisals Committee of Ontario Council of Graduate Studies - July to November, 1976. (Visits and interviews with all staff members in Engineering Science.)

Evaluation of Prof. T.C. Hutchinson's research publications and qualifications - University of Toronto, for E.W.R. Steacie Prize at request of National Research Council, November, 1977.

PRESENTATIONS AT CONFERENCES AND SYMPOSIA: (since 1976 only)

- Katz, M., Heddle, J.A. and Salamone, M.F. Chemical identification and mutagenic activity of polycyclic aromatic hydrocarbons in atmospheric particulate matter. Presented at VIth World Congress on Air Quality, Paris, France, May 16-20, 1983. (To be published in Proceedings)
- Salamone, M.F., Beltz, P. and Katz, M. (1982). The effect of 5,6-benzoflavone on the mutagenicity of polycyclic aromatic hydrocarbons. In: Polynuclear Aromatic Hydrocarbons: Physical and Biological Chemistry. Editors, M. Cooke, A.J. Dennis and G.L. Fisher, Sixth International Symposium, Battelle Press, Columbus, Ohio, pp.687-694.
- Salamone, M.F., Heddle, J.A., Gingerich, J. and Katz, M. (1982). On the complexities of risk estimates, metabolic activation and chemical mixtures. In: Progress in Mutation Research, Vol. 3, K.C. Bora et al., Elsevier, Holland, pp.179-185.
- Katz, M., Heddle, J.A. and Salamone, M. (1981). Mutagenic activity of polycyclic aromatic hydrocarbons and other environmental pollutants. In: Polynuclear Aromatic Hydrocarbons: Chemical Analysis and Biological Fate. Editors, M. Cooke and A.J. Dennis, Battelle Press, Columbus, Ohio, pp.519-528.
- Salamone, M.F., Heddle, J.A. and Katz, M. (1980). Mutagenic activity of 41 compounds on the in vivo micronucleus assay. In: Short-term Tests for Carcinogens: Report of the International Collaborative Program. Editors, F. de Serres and J. Ashby, Chap. 66, Elsevier, Holland, pp.686-697.
- Katz, M., Sakuma, T. and Tosine, H. (1980). The analysis of polynuclear aromatic hydrocarbons in the air and water environments. In: Hydrocarbons and Halogenated Hydrocarbons in the Aquatic Environment. Editors, B.K. Afghan and D. Mackay, Plenum Press, New York, pp.121-130.
- Katz, M., Chan, C., Tosine, H. and Sakuma, T. (1979). Relative rates of photochemical and biological oxidation (in vitro) of polynuclear aromatic hydrocarbons. In: Polynuclear Aromatic Hydrocarbons. Editors, P.W. Jones and P. Leber, Ann Arbor Science, Ann Arbor, Michigan, pp.171-190.
- Lane, D.A. and Katz, M. (1977). The photodecomposition of benzo(a)pyrene, benzo (b)fluoranthene and benzo(k)fluoranthene under simulated atmospheric conditions. In: Advances in Environmental Science and Technology, Vol. 8, Part 2. Editor, I.H. Suffet, Wiley Interscience, New York, pp.137-154.
- Katz, M. and Pierce, R.C. (1976). Quantitative distribution of polynuclear aromatic hydrocarbons in relation to particle size or urban particulates. In: Carcinogenesis, Vol. 1, Polynuclear Aromatic Hydrocarbons - Chemistry, Metabolism and Carcinogenesis. Editors, R. Freudenthal and P.W. Jones, Raven Press, New York, pp.413-429.

Katz, M.

BOOKS, CHAPTERS IN BOOKS:

Katz, M. et al. Effect of Sulphur Dioxide on Vegetation. National Research Council of Canada, Publication No. 815, Ottawa, Canada, 1939 (447 pages).

15

- Advances in Catalysis, Vol. V: "The Heterogeneous Oxidation of Carbon Monoxide", Academic Press, New York, 1953.
- Air Pollution Handbook, "City Planning, Industrial Plant Location and Air Pollution", Section 2, pp.1-53, McGraw Hill Book Co., New York, 1956.
- Air Pollution, Monograph Series No. 46, "The Physical and Chemical Nature of Air Pollution", pp.97-158, World Health Organization, Geneva and New York, 1961.
- Air Pollution, 2nd Edition, Vol.II, (A.C. Stern, editor), "Analysis of Inorganic Gaseous Pollutants", pp.53-113, Academic Press Inc., New York, 1968.
- Contribution to series "Science Through Discovery, K-6", Sections on Air Pollution for Pupils' and Teachers' Manuals, L.W. Singer, Co. Inc., New York, 1968.
- Measurement of Air Pollutants, Guide to the Selection of Methods (pp.123), World Health Organization, Geneva, 1969.
- Air Pollution Manual, 2nd Edition, Part I, Chap.3, "Sources of Air Pollution", pp.65-94, American Ind. Hygiene Assoc., Detroit, Michigan, 1972.
- Katz, M., Editor, Methods of Air Sampling and Analysis, U.S. Intersociety Committee, 1st Edition, published by American Public Health Association, Washington, D.C., 1972 (pp.480).
- Collection of Airborne Particles for Analysis of Polycyclic Organic Matter, In: "Particulate Polycyclic Inorganic Matter", pp.253-260, U.S. National Academy of Sciences, Washington, D.C., 1972.
- Katz, M., Nitrogen Compounds and Oxidants. In. Air Pollution, Third Edition, Vol.III, Measuring, Monitoring and Surveillance of Air Pollutions, Editor, A.C. Stern, pp.259-305, Academic Press, New York, 1976.
- Katz, M., The Canadian Sulphur Problem. In: Chap. 1, Sulphur and its Inorganic derivatives, Associate Committee on Scientific Criteria for Environmental Quality, NRCC No. 15015, Ottawa, 1977.
- Katz, M., Hydrogen Sulfide Sampling and Analysis. In: Monograph, "Hydrogen Sulfide", pp.117-139, U.S. National Research Council, University Park Press, Baltimore, Md., 1977.
- Katz, M., Editor, Methods of Air Sampling and Analysis, Second Edition, Intersociety Committee (U.S.), p.984, published by American Public Health Assoc., Washington, D.C., 1977.

BOOKS, CHAPTERS IN BOOKS (continued):

Katz, M., Analysis of polycyclic aromatic hydrocarbons in atmospheric suspended particulate matter, Method 6. pp.69-74; 101-125; 193-213. In: Manual on Methods of Analysis of Polycyclic Aromatic Hydrocarbons, International Agency for Research on Cancer, Lyon, France, 1979.

LIST OF PRINCIPAL PUBLICATIONS:

Numerous industrial and government research and technical reports representing confidential and other classified information are not listed below.

1. "The Milling and Testing of Flour". Can. Chem & Met. 11:87 (1927)

Studies of Polymers and Polymerization (with G.S. Whitby, formerly Director, Division of Chemistry, National Research Council of Canada).

- 2. "Polymerization of Indene, Cinnamal Fluorene and Some Derivatives of Indene", J. Am. Chem. Soc. 50:1160, (1928).
- 3. "The Prolysis of Polyindenes and the Polymerizatin of Diindene", Can. J. Res. 4:344, (1931).
- 4. "The Polymerization of Engenol, Safrole and the Corresponding Iso-compounds", Can J. Res. 4:487, (1931).
- 5. "The Vulcanization of Methyl Rubber", Can. J. Res. 6:398, (1932).
- 6. "Synthetic Rubber". (with G.S. Whitby), Ind. and Eng. Chem. 25:1204 and 1338, (1933).
- 7. "The Composition of Blown Alberta Bitumen". Can. J. Res. 10:435-451, (1934).

Studies of Atmospheric Pollution and Experimental Investigations of Effect of Sulphur Dioxide on Plants in Connection with International Smelter Smoke Problem in Area of Trail, B.C. and Stevens County, Washington State. Trail Smelter Question Documents.

- 8. Documents Series B (Dominion of Canada, Kings Printer, Ottawa, 1936).
 "Sulphur Dioxide Content of the Atmosphere, 1930-1935". Appendix B-1, pp.1-36.
- 9. "Sulphur Content of Vegetation in Northern Stevens County, Washington", Appendix B-2, pp.1-27.
- 10. Documents Series C. (Dominion of Canada, Kings Printer, Ottawa, 1936). "Effect of Sulphur Dioxide on Yellow Pine and Douglas Fir" (with A.W. McCallum). Appendix C-4, pp.1-107.
- 11. Documents Series D. (Dominion of Canada, Kings Printer, Ottawa, 1936).
 "Agriculture Conditions in the Northport Area, Stevens County Growing Season 1934", (wiith G.A. Ledingham), Appendix D-1, pp.1-31.
- 12. "Effect of Sulphur Dioxide on Barley", Appendix D-3, pp.1-133.
- 13. "Effect of Sulphur Dioxide on Alfalfa", Appendix D-4, pp.1-16.

- 14. Documents Series BB. (Dominion of Canada, Kings Printer, Ottawa, 1937).
 "Soil and Water Investigations of the Northport Area, Stevens County,
 Washington", (with F.A. Wyatt), Appendix BB-1, pp.1-82.
- 15. "Report on Sulphur Dioxide Content of the Atmosphere, 1936", Appendix BB-2, pp.1-23.
- 16. "Sulphur Content of Douglas Fir and Yellow Pine in Northern Stevens County, Washington, 1935", (with A.W. McCallum), Appendix BB-5, pp.1-8.
- 17. Documents Series CC (Dominion of Canada, Kings Printer, Ottawa, 1937).
 "Effect of Sulphur Dioxide on Height Increment in Yellow Pine an dDouglas
 Fir", Appendix CC-2, pp.1-7 (with A.W. McCallum)
- 18. "Effect of Sulphur Dioxide on Conifers" (with A.W. McCallum) . Appendix CC-3, pp.1-35.
- 19. Documents Series DD (Dominion of Canada, Kings Printer, Ottawa, 1937). "Effect of Dilute Sulphur Dioxide on Alfalfa", 1935. Part I (with G.A. Ledingham). Appendix DD-1, pp.1-265.
- 20. Part II. "Effect of Dilute Sulphur Dioxide on Alfalfa, 1936". Appendix DD-3, pp.1-112.
- 21. "Effect of Sulphur Dioxide on Stomatal Behaviour of Alfalfa". (with G.A. Ledingham). Part II. Appendix DD-3A, pp.1-23.
- 22. Trail Smelter Question. "Sulphur Dioxide Content of the Atmosphere 1937 to 1940" Supplement to Canadian Documents Series B and BB (with F.H. Chapman). King's Printer, Ottawa, 1940.
- 23. Morris Katz and Sophie Halpern, "Oxidation of Carbon Monoxide in Air by Silver Permanganate and Various Metallic Oxides, Ind. Eng. Chem., 42:345-352 (1950).
- 24. Morris Katz, G.A. Grant and R. Riberdy, "Kinetic Studies with Silver Permanganate and Zinc Oxide", Can. J. Research 8, 28:299-314, (1950).
- 25. G.A. Grant, Morris Katz and R. Riberdy, "Effect of Method of Preparation on Activity of Solid Silver Permanganate Reagents", Can. J. Technology 29, No. 12:511-519 (1951).
- 26. Morris Katz, L.G. Wilson and R. Riberdy, "Chemical Composition in Relation to Activity of Solid Silver Permanganate Reagents", Can. J. Chem., December (1951).
- 27. Morris Katz, R. Riberdy ad G.A. Grant, "Determination of Low Concentrations of Carbon Monoxide by Use of Thermisters in a Thermal Cell", Can. J. Technology, 30:303-310 (1952).

- 28. Morris Katz, R. Riberdy and G.A. Grant, "Reaction Kinetics and Adsorption of Water Vapour by Solid Silver Permaganate Reagents", DRCL Report No. 96, Defense Research Board of Canada.
- 29. G.A. Grant and Morris Katz, "Thermal Decomposition of Silver Permanaganate", Can. Chemistry, 32:1068-1077 (1954).
- 30. Morris Katz and John Katzman, "The Rapid Determination of Low Concentrations of Carbon Monoxide in Air", Can. J. Research, F, 26:318-330 (1948).
- 31. G.A. Grant, Morris Katz and R.L. Haines, "A Modifided Iodine Pentoxide Method for the Determination of Carbon Monoxide", Can. J. Technology 29:43-51 (January, 1951).
- 32. Morris Katz, "The Detection and Oxidation of Carbon Monoxide", Chemistry in Canada, 3, No. 10:181-184 (1951).
- 33. Morris Katz, "The Heterogeneous Oxidation of Carbon Monoxide", Advances in Catalysis, Vol. V (Editors, W.G. Frankenburg, V.I. Kimarewsky and E.K. Rideal), Academic Press Inc., New York, N.Y., (1953).
- 34. Morris Katz, "Atmospheric Pollution and its Control", Modern Sanitation, Part I, June 1950, Part II, July 1950.
- 35. Morris Katz, "Photoelectric Determination of Atmospheric Sulphur Dioxide", Anal. Chem. 22:1040-1047 (August, 1950).
- 36. Morris Katz and R.J. Cole, "Recovery of Sulphur Compounds from Atmospheric Contaminants", Ind. Eng. Chem., 42:2248-2269, (November, 1950).
- 37. Morris Katz, "Application of Diffusion Theory to Disperson of Stack Gas in the Atmosphere", DRCL Report No. 110, September, 1952, Defense Research Board of Canada.
- 38. Morris Katz, "Sulphur Dioxide in the Atmosphere and its Relation to Plant Life", Ind. Eng. Chem. 41:2450-2465 (November, 1949).
- 39. Morris Katz, "The Atmospheric Pollution Problem in Canada", Chemistry in Canada, (August, 1952).
- 40. Morris Katz, "Sulphur from Industrial Wastes", Chemistry in Canada, (September, 1952).
- 41. Morris Katz, "Some Fundamental Air Pollution Problems", Industrial Health Review, 4: No. 1 (October, 1952, Ottawa).
- 42. Morris Katz, "Sources of Pollution", Proceedings of the Second National Air Pollution Symposium, Stanford Research Institute, (May, 1952).

- 43. Morris Katz, "The Greater Detroit-Windsor Air Pollution Study", American Ind. Hygiene Assoc. Quarterly 13:4 (December, 1952).
- 44. Morris Katz and A.W. McCallum, "The Effect of Sulphur Dioxide on Conifers", Chapter 8, 84-96, "Air Pollution", Proceedingss of U.S. Technical Conferences on Air Pollution, McGraw-Hill Book Co., New York, N.Y.
- 45. Morris Katz and G.D. Clayton, "Instrumentation and Analytical Techniques for the Continuous Determination of Air Contaminants", Proceedings of the American Society for Testing Materials, 53:1136-1158, (1953).
- 46. Morris Katz, "Recent Developments in Atmospheric Pollution", Chemical Engineering and Manufactured Gas Production Conference, May, 1954), Pittsburgh, American Gas Association CEP-54-23.
- 47. Violet C. Shore and Morris Katz, "Measurement and Identification of Aerosol Contaminants by Microsocopic and X-Ray Diffraction Techniques", American Ind. Hygiene Assoc. Quarterly 15:297-303 (1954).
- 48. Morris Katz, "Atmospheric Pollution: A Growing Problem in Public Health", American Journal Public Health, 45:298-305 (March, 1955).
- 49. Morris Katz, "City Planning, Industrial Plant Location and Air Pollution", Chapter 2 in "Air Pollution Handbook" Editors, Stanrod Research Institute, McGraw-Hill Book Co., New York (1956).
- 50. Morris Katz, "Analytical Methods and Instrumentation in Air Pollution", Anal. Chem.27:692-694 (May, 1955).
- 51. Morris Katz, "Nature, Distribution and Dispersion of Contaminants in the Urban Environment", Eng. Journal (Eng. Inst. of Canada) 38:No. 4, (April, 1955).
- 52. Morris Katz and V.C. Shore, "Air Pollution Damage to Vegetation", Journal Air Pollution Control Assoc. 5: No. 3 (November, 1955).
- 53. V.C. Shore and Morris Katz, "Identification of Some Polynuclear Aromatic Hydrocarbons in the Atmosphere", Analytical Chem. 28:1399 (September, 1956).
- 54. Morris Katz, "Atmospheric Pollution and Public Heatlh", Canadian Journal of Public Health, 47:395-400, (September, 1956).
- 55. G.E. Moore, A.F.W. Cole and Morris Katz, "The Concurrent Determination of Sulphur Dioxide and Nitrogen Dioxide in the Atmosphere", Journal Air Pollution Control Assoc., Vol. 7, No. 1 (May, 1957).
- 56. Morris Katz, "A National Atmospheric Pollution Programme", Occup. Heatlh Review, 9: No. 1 (1957).

Katz, M.

- 57. Morris Katz, H.P. Sanderson and M.B. Ferguson, "Evaluation of Air-borne Particulates in Atmospheric Pollution Studies", Anal. Chem., 30:1172 (1958).
- 58. Morris Katz, and H.P. Sanderson, "Filtration Methods for Evluation of Aerosol Contaminants", Special Technical Publication No. 250, American Society of Testing Materials, (1958).
- 59. Morris Katz, "The Control of Air Pollution in Canada", In: Proc. International Clean Air Conference, London (1959).
- 60. Morris Katz, "The Standardization of Methods of Sampling and Analysis", In: Proc. International Clean Air Conference, London, (1959).
- 61. Morris Katz, "Report on the Pollution of the Atmosphere in the Detroit River Area". Prepared for the Technical Advisory Board and the International Joint Commission with assistance of A.F.W. Cole, G.E. Moore, H.P. Sanderson and G.G. Nidecker of Dept. of National Health and Welfare of Canada in cooperation with Mr. Arthur C. Stern and staff of the Taft Sanitary Engineering Center, U.S. Public Health Service, Washington, D.C. and Ottawa, Canada, 1969 (a printed report of 241 pages).
- 62. Morris Katz, "Federal Activities in Atmospheric Pollution", Occup. Health Review, 11: No. 1 (1959).
- 63. R.E. Munn and Morris Katz, "Daily and Seasonal Pollution Cycles in the Detroit-Windsor Area", Int. J. Air Poll., 2:51 (1959).
- 64. Morris Katz, R.P. Rennie and Z. Jegier, "Air Pollution Hazards from Diesel Locomotive Traffic in a Railway Tunnel", A.M.A. Archives of Industrial Health, 20:493 (1959).
- 65. R.P. Rennie, Z. Jegier and Morris Katz, "Effect of Diesel Locomotive Operation on Atmospheric Conditions in a Railway Tunnel", Can. J. Chem. Engr., 123 (August, 1960).
- 66. R.E. Munn and Morris Katz, "Air Pollution Levels Associated with a 49-Hours Inversion at Detroit-Windsor", Bull. of American Met. Soc., 41: No. 5, 245 (1960).
- 67. Morris Katz, "The Problem of Air Pollution", Can. J. Pub. Hlth., 51: (1960).
- 68. Morris Katz, "Some Toxic Effects of Air Pollution on Public Health", Med. Services J., XVI, No. 6, 504 (1960).
- 69. G.E. Moore and Morris Katz, "Polynuclear Aromatic Hydrocarbons in the Particulates of Diesel Exhausts in Railway Tunnels and in the Particulates of Urban Atmosphere", Int. J. Air Poll., 2:221 (1960).

Katz, M.

- 70. Morris Katz, "Air Pollution Research in Canada", Occup. Health Review 12: No. 1,2 (1960).
- 71. Morris Katz, "Some Aspects of the Physical and Chemical Nature of Air Pollution", In: "Air Pollution", WHO Monograph Series No. 46, pp.97-158, Geneva (1961).
- 72. G.E. Moore, J.L. Monkman and Morris Katz, "Some Problems Concerning Analysis of Polycyclic Hydrocarbons in Particulate Pollution Samples", Symposium, Analysis of Carcinogenic Air Pollutants. U.S. National Cancer Institute Monograph No. 9, pp.153-170 (August, 1962).
- 73. Morris Katz and J.L. Monkman, "The Organic Fraction of Particulate Pollution, Including Polycyclic Hydrocarbons", In: Proceedings of Clean Air Conference, University of New South Wales, Australia, (February, 1962).
- 74. Morris Katz, "Carcinogenic Hazards of Aromatic Polycyclic Hydrocarbons in the Polluted Atmosphere", Occupational Health Review, 14: No. 1 (1962), Can. Pub. Health Assoc. J., March, 1962.
- 75. Morris Katz, "Air Pollution as a Canadian Regional Problem", In: Proceedings of "Resources for Tommorow" Conference, Montreal, October, 1961.
- 76. Morris Katz, "The Use of Incinerators in Urban Areas", Occupational Health Bulletin, Vol.16, No.9 (1961).
- 77. W.L. Ball, G.E. Moore, J.L. Monkman and Morris Katz, "An Evaluation of Micro-Vacuum Sublimation Separation of Atmospheric Polycyclics", Amer. Int. Hyg. Assoc. J., 23:222-227 (June, 1962).
- 78. J.L. Monkman, G.E. Moore and Morris Katz, "Analysis of Polycyclic Hydrocarbons in Particulate Pollutants", Am. Ind. Hyg. Assoc. J., 23:487-495 (Nov.-Dec., 1962).
- 79. Morris Katz, "Air Pollution in Canada Current Status Report" Am. J. Public Health, 53: No. 2 (February, 1963).
- 80. Morris Katz and W.L. Ball, "Occupational Health and Air Pollution Research in Canada's Changing Economy", Am. Ind. Hyg. Assoc., J., 24:517-528 (Sept-Oct, 1963).
- 81. H.P. Sanderson and Morris Katz, "The Optical Evaluation of Smoke or Particulate Matter Collected on Filter Paper", Presented at 56th Annual Meeting Air Poll. Control Assoc., (June, 1963).
- 82. H.P. Sanderson, P. Bradt and Morris Katz, "A Study of Dustfall on the Basis of Replicated Latin Square Arrangements of Various Types of Collectors", Presented as Paper No. 63-64, J. Air Poll. Control Assoc. (1963).
- 83. C.M. Jephcott, A.R. Riddell, Morris Katz and R.B. Sutherland, "A Study of Silicotic Lung Ashes", Indust. Med. and Surgery, 33:220-221 (April, 1964).

- 84. Morris Katz, "The Standardization of Methods of Measurement of Air Quality in Member Countries", Proceedings of Inter-Regional Symposium on Criteria for Air Quality and Methods of Measurement (August, 1965). World Health Organization, Geneva, Switzerland.
- 85. Morris Katz, "Air Pollution and Lung Cancer", Medical Services J. Canada, Vol. XX, No. 8:665-676 (September, 1964).
- 86. H.P. Sanderson, P.E. Penner and Morris Katz, "Method for Determining the Time Constant of a Thomas Autometer and Significance of Peak and Mean Sulphur Dioxide Concentrations", Analytical Chemistry (American Chem. Soc.) 36:2296-2301 (November, 1964).
- 87. Morris Katz, "Qualty Standards for Air and Water", Proceedings, Occupational Health and Safety Conference, Canadian Congress of Labour, (November, 1964), Occupational Health Review, 17: No.1,3 (1965).
- 88. Morris Katz and W.B. Drowley, "Canadian Activities in Ambient Air Quality Criteria and Develoment of Standards", J. Air Pollution Control Assoc. 16:131-134, (March, 1966).
- 89. H.P. Sanderson, R. Thomas and Morris Katz, "Limitations of the Lead Acetate Impregnated Paper Tape Method for Hydrogen Sulfide", J. Air Pollution Control Assoc. 16:328-330 (June, 1966).
- 90. A.F.W. Cole and Morris Katz, "Summer Ozone Concentrations in Southern Ontario in Relation to Photochemical Aspects and Vegetation Damage", J. Air Pollution Control Assoc. 16:202-206, (April, 1966).
- 91. C.E. Moore, W.B. Drowley and Morris Katz, "Polynuclear Aromatic Hydrocarbons in Urban Atmospheres in Ontario", J. Air Poll. Control Assoc., 16:492-497 (September, 1966).
- 92. Morris Katz, "Nature and Sources of Air Pollution", Paper A2-2 In:
 Proceedings, National Conference on Pollution and our Environment, Montreal,
 Canada, Oct. 31 to Nov. 4, 1966, Canadian Council of Resource Ministers.
- 93. Morris Katz, "Effects of Contaminants (Other than Sulphur Dioxide) on Vegetation and Animals", Paper A4-2-2 In: Proceedings, National Conference on Pollution and Our Environment, Montreal, Canada, Oct. 31 to Nov. 4, 1966, Canadian Council of Resource Ministers.
- 94. Morris Katz, "Regional Air Pollution Control", Paper B17-2-2 In:
 Proceedings, National Conference on Pollution and Our Enviornment, Montreal,
 Canada, Oct. 31 to Nov. 4, 1966, Canadian Council of Resource Ministers.
- 95. Morris Katz, "New Technologies Air", Paper D-23-2 In: Proceedings, National Conference on Pollution and Our Environment, Montreal, Canada, Oct. 31 to Nov. 4, 1966, Canadian Council of Resource Ministers.

- 96. Morris Katz, "The Diffusion of Pollutants from Roof-Mounted Chimneys", A Report of 89 pages printed and distributed by the Oil Heating Association of Canada, 2 St. Clair Avenue West, Toronto, Canada, (July, 1966).
- 97. Morris Katz, "Guides to Ambient Air Quality Criteria and Standards", Proceedings First Mid-Atlantic Industrial Waster Conference, University of Delaware (November 13-15, 1967).
- 98. Morris Katz, "Recent Developments in Ambient Air Quality Guides in Relation to Control of Atmospheric Effluents", Pulp & Paper Mfg., Canada (Gardenvale) 69:(4) 60-66 (February 16, 1968).
- 99. Morris Katz, "Application of Atmospheric Diffusion Theory to Stack Design", A treatise of 107 pages printed and distributed by the Pulp and Paper Research Institute of Canada, Pointe Claire, Quebec, Canada (April, 1968).
- 100. Morris Katz, "Analysis of Inorganic Gaseous Pollutants", In: Air Pollution, Vol. II (A.C. Stern, editor), Chapter 17, pp.54-111, Academic Pres Inc., (1968).
- 101. Morris Katz, "Measurement of Air Pollutants", World Health Organization, Geneva, Book, 123 pages (1969).
- 102. Morris Katz, "Photochemical Reactions of Atmospheric Pollutants" (R.S. Jane Memorial Lecture), Can. J. Chem. Eng., 48:3-11 (February, 1970).
- 103. Morris Katz, "Sources of Air Pollution", In: Air Pollution Manual, pp.65-94, American Industrial Hygiene Assoc., Detroit, Michigan (1972).
- 104. Morris Katz and S.B. Gale, "Mechanism of Photooxidation of Sulphur Dioxide in Atmosphere", Proceedings, 2nd International Clean Air Congress, Washington, D.C., pp.336-343, Academic Press, New York, N.Y., (1971).
- 105. Morris Katz, "Problems in Analysis of Air Contaminants", Proceedings, International Symposium on Identification and Measurement of Environmental Pollutants, June 14-17, 1971, Ottawa, Canada, pp.124-129, National Research Council of Canada.
- 106. Morris Katz, editor, "Methods of Air Sampling and Analysis", Intersociety Committee, p.480, American Public Health Assoc., Washington, D.C. (1972).
- 107. D.A. Lane, H. Moe and Morris Katz, "The Analysis of Polynuclear Aromtic Hydrocarbons. Some Heterocyclics, and Aliphatics with a Single Gas Chromatograph Column", Anal. Chem. 45:1776-1778 (1973).
- 108. Morris Katz, "Collection of Airborne Particles for Analysis of Polycyclic Organic Matter", Particulate Polycyclic Organic Matter, pp.253-260, National Academy of Sciences, Washington, D.C. 1972.

- 109. D.A. Lane and Morris Katz, "The Modification of Benzo(a)Pyrene under Simulated Atmospheric Conditions", Proceedings, 67th Annual Meeting, Air Pollution Control Assoc., Denver, Colorado, June 9-13, 1974, Paper No. 45-273.
- 110. D.M. Brunette and Morris Katz, "The Interactions of Benzo(a)Pyrene with Cell Membranes: Uptake into Chinese Hamster Ovary Cells and Fluorescence Studies with Isolated Membranes", Chemico-biological Interactions (London), 11:1-14 (1975).
- 111. R.C. Pierce and Morris Katz, "Dependency of Polynuclear Aromatic Hydrocarbon Content Ion Size Distribution of Atmospheric Aerosols", Environmental Science & Technology (American Chemical Society), 9:347-353 (1975).
- 112. R.C. Pierce and Morris Katz, "Determination of Atmospheric Isomeric Polycyclic Arenes by Thin-Layer Chromatography and Fluorescence Spectrophotometry", Anal. Chem. 47:1743-1748 (1975).
- 113. R.C. Pierce and Morris Katz, "Chromatographic Isolation and Spectral Analysis of Polycyclic Quinones: Application to Air Pollution Analysis", Environmental Science and Technology (American Chemical Society) 10:45-51, (1976).
- 114. Morris Katz and R.C. Pierce, "Quantitative Distribution of Polynuclear Aromatic Hydrocarbons in Relation to Particle Size of Urban Particulates", Carcinogenesis, Vol. 1, pp.413-429 (editors, R.I. Freudenthal and P.W. Jones), Rave Press, New York, N.Y., 1976.
- 115. D.A. Lane and Morris Katz, "The Photomodification of Benzo(a)Pyrene,
 Benzo(b)Fluoranthene and Benzo(k)Fluoranthene Under Simulated Atmospheric
 Conditions", In: Fate of Pollutants in the Air and Water Environments,
 Vol. 9, Advances in Environmental Science and Technology, pp.137-154, (I.H.
 Suffet, Editors) Wiley-Interscience, New York, N.Y., 1977.
- 116. Morris Katz, "The Canadian Sulphur Problem", Chapter I In: Monograph "Sulphur and its Inorganic Derivatives in the Canadian Environment", Associate Committee on Scientific Criteria for Environmental Quality, National Research Council of Canada, NRCC No. 15015, Ottawa, 1977.
- 117. Morris Katz, "Hydrogen Sulfide Sampling and Analysis", Appendix I to Monograph "Hydrogen Sulfide", U.S. National Research Council, National Academy of Sciences, Washington, D.C., 1977.
- 118. Morris Katz, Editor, "Methods of Air Sampling and Analysis", Intersociety Committee, Second Edition, American Public Health Assoc., Washington, D.C. (Book, 984 pages) 1977.
- 119. Morris Katz, T. Sakuma and Andrew Ho, "Chromatographic and Spectral Analysis of Polynuclear Aromatic Hydrocarbons Quantitative Distribution in Air of Ontario Cities", Environ. Science & Tech., 12:909-915 (1978).

- 120. Morris Katz, "Nitrogen Compounds and Oxidants", In: Air Pollution, Vol.III, pp.259-305, (Editor, A.C. Stern), Academic Press Inc., New York, N.Y., 1976.
- 121. M.F. Salamone, J.A. Heddle and Morris Katz, "The Mutagenic Activity of Thirty Polycyclic Aromatic Hydrocarbons and Oxides in Urban Airborne Particulates", Environment International (London), Vol. 2, No. 1, pp.37-42, (1979).
- 122. M.F. Salamone, J.A. Heddle and M. Katz, "The Use of Salmonella/Microsomal Assay to Determine Mutagenicity in Paired Chemical Mixtures", Can. J. Genet. Cytol., 21:101-107 (1979).
- 123. M. Katz, C. Chan, H. Tosine and T. Sakuma, "Relative Rates of Photochemical and Biological Oxidation (in vitro) of Polynuclear Aromatic Hydrocarbons", (1979). In: Polynuclear Aromatic Hydrocarbons, (Editors, P.W. Jones and P. Leber) pp.171-190, Ann Arbor Science, Ann Arbor, Michigan.
- 124. M. Katz, "Collection of Airborne Particulate Matter for Analysis of Polycyclic Aromatic Hydrocarbons", Int. Agency for Res. on Cancer, 29:69-74, 101-125 (1979).
- 125. M. Katz, "Analysis of Polycyclic Aromatic Hydrocarbons in Atmospheric Suspended Particulate Matter, Int. Agency for Res. on Cancer, 29:193-213.
- 126. M. Katz, T. Sakuma and H. Tosine, "The Analysis of Polynuclear Aromatic Hydrocarbons in the Air and Water Environments", In: Hydrocarbons and Halogenated Hydrocarbons in the Aquatic Environment, (Editors, B.K. Afghan, D. Mackay) pp.121-130, Plenum Press, New York, N.Y., (1980).
- 127. M. Katz, and C. Chan, "Comparative Distribution of Eight Polycyclic Aromatic Hydrocarbons in Airborne Particulates Collected by Conventional High-volume Sampling and by Size Fractionation", Environ. Sci. Technol. 14:838-843 (1980).
- 128. M. Katz, "Advances in the Analysis of Air Contaminants A Critical Review", J. Air Pollut. Control Assoc., 30:528-557 (1980).
- 129. M. Katz, "Advances in the Analysis of Air Contaminants A Critical Review. Reply to Comments, J. Air Pollut. Control Assoc., 30:996-997 (1980).
- 130. M.F. Salamone, J.A. Heddle, E. Stuart and M. Katz, "Towards an Improved Micronucleus Test Studies on Three Model Agents, Mitomycin C, Cyclophosphamide and Dimethylbenzanthracene", Mutat. Res. 74:347-356 (1980).
- 131. M.F. Salamone, J.A. Heddle and M. Katz, "Mutagenic Activity of 41 Compounds on the in vivo Micronucleus Assay", In: Evaluation of Short-Term Tests for Carcinogens: Report of the International Collaboration Program (Editors, F. de Serres and J. Asby) Elsevier/North Holland, Amsterdam, pp.686-697 (1980).

- 132. M. Katz, J. A. Heddle and M. Salamone, "Mutagenic Activity of Polycyclic Aromatic Hydrocarbons and Other Environmental Pollutants", In: Polynuclear Aromatic Hydrocarbons: Chemical Analysis and Biological Fate, (Editors, M. Cook and A.J. Dennis) pp.519-528, Battelle Press, Columbus, Ohio, 1981.
- 133. M.F. Salamone and M. Katz, "The Mutagenicity of Tris (2,3-dibromopropyl phosphate) in Mammalian Gonadal and Bone Marrow Tissue", J. Nat. Cancer Inst., 66:691-695 (1981).
- 134. E. Lee-Ruff, A.C. Hopkinson, H. Kazarians-Moghaddam, P. Duperrouzel, B. Gupta and M. Katz, "A Novel acid-catalyzed rearrangement of cyclobutanols", Tetrahedron Letters, 22:4917-4920 (1981).
- 135. M.F. Salamone, J.A. Heddle, J. Gingerich and M. Katz, "On the complexities of Risk Estimates, Metabolic Activation and Chemical Mixtures", In:
 "Progress in Mutation Research, Vol. 3, pp.179-185 (Editor, K.C. Bora),
 Elsevier/Holland (1982).
- 136. E. Lee-Ruff, A.C. Hopkinson, H. Kazarians-Moghaddam, B. Gupta and M. Katz, "Acid-catalyzed rearrangement of cyclobutanols. Synthesis of chrysenes cyclopentenophenanthrenes and diarylmethanes, Can. J. Chem., 60:1554-159, (1982).
- 137. M.F. Salamone, P. Beltz, and M. Katz, "The effect of 5,6-benzoflavone on the mutagenicity of polycyclic aromatic hydrocarbons, In: Polynuclear Aromatic Hydrocarbons, Physical and Biological Chemistry, Sixth International Symposium (Editors, M. Cooke, A.J. Dennis, G.L. Fisher) pp.687-694, Battelle Press, Columbus, Ohio (1982).
- 138. M. Katz, J. Heddle, and M.F. Salamone, "Chemical Identification and Mutagenic Activity of Polycyclic Aromatic Hydrocarbons in Atmospheric Particulate Matter", Proceedings VIth World Congress on Air Quality, Vol. 2, 149-156, International Union of Air Pollution Prevention Associations, Paris, France, 1983.
- 139. A.S. Raj and M. Katz, "Inhibitory Effect of 7,8-Benzoflavone on DMBA- and BaP-Induced Bone Marrow Micronuclei in Mouse", Mutation Research, 110:337-343, Leiden, Holland, (1983).
- 140. A.S. Raj, J.A. Heddle, H.L. Newmark and M. Katz, "Caffeic Acid as an Inhibitor of DMBA-Induced Chromosomal Breakage in Mice Assessed by Bone Marrow Micronucleus Test", Mutation Research, 124: 247-253, Leiden, Holland, (1983).

- 141. A.S. Raj and M. Katz, "Inhibitory Effects of $\alpha-$ and $\beta-$ naphthoflavones on DMBA-induced Anomalies in Germ Cells Assessed by Sperm Abnormality Assay", Mutation Research, 136: 81-84 (1984).
- 142. A.S. Raj and M. Katz, "Corn Oil and Its Minor Constituents as Inhibitors of DMBA-induced Chromosomal Breaks In Vivo", Mutation Research, 136: 247-253 (1984).
- 143. E. Lee-Ruff, H. Kruk and M. Katz, "A Short Synthesis of 4,5-Methanochrysene and 6-oxo-7-oxobenzo(a)pyrene, Two Benzo(a)pyrene Analogues", J. Org. Chem. 49: 553-555 (1984).
- 144. M. Katz and A.S. Raj, "Inhibitors of Chromosomal Breakage in Mouse Induced by Polynuclear Aromatic Hydrocarbons and Other Genotoxic Agents", In: Polynuclear Aromatic Hydrocarbons, Eighth International Symposium, Battelle Press, Columbus, Ohio (1984), pp.697-711.