

Douglas M Lucas DSc(Hon)
Biographical Data

**Retired Director
The Centre of Forensic Sciences
Ministry of the Solicitor General
Province of Ontario**

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Born: May 5th, 1929, Windsor, Ontario

Family: Married to Marie M Lucas (nee Macdonald); 5 children; 12 grandchildren

Education/Degrees:

- Primary and Secondary School - Windsor, Ontario
- BSc (Pharmacy) - University of Toronto 1953
- MSc(Pharmaceutical Chemistry) - University of Toronto 1957
- DSc (Honorary) - John Jay College of Criminal Justice, City University of New York 2001
- DSc (Honorary) - The University of Toronto 2004

Employment:

- University of Toronto Faculty of Pharmacy - Instructor 1953 - 1957
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- Attorney General's Laboratory (now The Centre of Forensic Sciences)
 - Chemist 1957 - 1960
 - Section Head - Organic Chemistry 1960 - 1967
 - Director 1967 - 1994
- Ministry of the Solicitor General, Province of Ontario
- Acting Assistant Deputy Minister - Public Safety Division 1992 - 1994
- Forensic science management and quality consultant 1994 -

Appointments:

- Adjunct Professor of Forensic Science, University of Toronto

Professional Affiliations:

· Canadian Society of Forensic Science (CSFS)

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|---|-------------|
| · Member | 1958 - 1995 |
| · Emeritus Member | 1995 - |
| · President | 1968 - 1969 |
| · Alcohol Test Committee - Member | 1967 - 2000 |
| · - Chairman | 1980 - 1984 |
| · Bylaws Committee - Chairman | 1980 - 1983 |
| · Douglas M Lucas Award for Professional Excellence - Established | 1995 |
| · Derôme Medal - Awarded | 1996 |

· American Academy of Forensic Sciences (AAFS)

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|---|-------------|
| · Member/Fellow | 1960 - 1990 |
| · Distinguished Fellow | 1990 - 1994 |
| · Retired Fellow | 1994 - |
| · President | 1972 - 1973 |
| · Criminalistics Section - Secretary | 1961 - 1962 |
| · - Chairman | 1962 - 1963 |
| · - Section Award - Awarded | 1981 |
| · - Outstanding Service Award - Awarded | 1996 |
| · Ad Hoc Committee on Code of Ethics and Bylaws - Co-chair | 1976 |
| · Ethics Committee - Member | 1977 - 1994 |
| · - Chairman | 1982 - 1994 |
| · Last Word Society - Chairman | 1980 - 1983 |
| · History Committee - Member | 1990 - 1998 |
| · Strategic Planning Committee - Member | 1989 - 1998 |
| · Long Term Planning Committee - Member | 1998 - |
| · Oversight Task Force - Member | 1995 - 1997 |
| · Golden Anniversary Planning Committee - Chairman | 1995 - 1998 |
| · The Forensic Sciences Foundation Inc. - Chairman | 1986 - 1991 |
| · Gradwohl Medal - Awarded | 1995 |
| · Douglas M Lucas Medal for Outstanding International Contributions to Forensic Science - Established | 1999 |

· American Society of Crime Laboratory Directors (ASCLD)

- Member 1974 - 1994
- Emeritus Member 1994 -
- President 1977 - 1978
- Membership Committee - Chairman 1982 - 1985
- Proficiency Advisory Committee - Member 1978 - 2000
- Chairman 1981 - 1991

- Briggs J White Award for Leadership Excellence - Awarded 1999

- **Laboratory Accreditation Board (ASCLD/LAB)**
 - Inspector 1981 - 2003
 - First Recipient of the ASCLD/LAB Douglas M Lucas Distinguished Service Award 1993

- **The Forensic Science Society (UK)**
 - Member 1971 - 1994
 - Retired Member 1994 -

- **International Association of Forensic Sciences (IAFS)**
 - President 1968 - 1969
 - Member of Council 1969 -
 - First Recipient of the Adelaide Medal 1990

- **National Safety Council (USA)**
 - Committee on Alcohol and Other Drugs - Member 1960 - 1994
 - Emeritus Member 1994 -
 - Chairman 1977 - 1979
 - Robert F Borkenstein Award - Awarded 1997

- **International Committee on Alcohol, Drugs and Traffic Safety**
 - Vice-President 1983 - 1986

- **Canadian Association of Fire Investigators**
 - Honorary Member 1994 -

· **International Association of Arson Investigators**

- Member 1970 - 1995

Editorial Boards

- Journal of the Canadian Society of Forensic Science 1975 - 1995
- Journal of Forensic Sciences 1972 - 1995
- Forensic Science International 1972 - 1999
- Journal of the Forensic Science Society 1983 - 1990
- Forensic Science Review 1986 -

Other Honours

- Canada Centennial Medal 1967
- Queen Elizabeth Silver Anniversary Medal 1977
- Department of Justice (USA), Office of the Inspector General Award 1997
- Department of Justice (Canada) Special Award for Service 1999

Consultation Practice

Post-retirement consultation has been restricted primarily to assisting forensic laboratories with solutions to management and/or quality assurance matters, including preparation for accreditation. This has involved laboratories in Australia, Canada, Hong Kong and the USA. It has also involved serving on a five member international “Blue Ribbon Scientific Panel” in support of an eighteen month investigation by the Office of the Inspector General in the US Department of Justice of allegations of misconduct and improper practices by staff of the FBI Laboratory in Washington, DC. From December 1998 to December 2003, a major activity has involved serving as a member of a three person international “Peer Review Panel” advising the Judicial Tribunal for the “Bloody Sunday Inquiry” into the tragic events of January 30, 1972 in Londonderry, Northern Ireland in which thirteen civilians were killed and fourteen seriously wounded by gunshots during a confrontation with the British army. Currently (2005) a similar activity is associated with another major investigation in Northern Ireland.

Publications

1. Smith, HW and **DM Lucas**, “Breath Tests for Alcohol”; Criminal Law Quarterly, 1, 1

(1958)

2. Salem, H, GWH Lucas and **DM Lucas**, "Saran Plastic Bags As Containers for Breath Samples"; Can. Med. Assoc. J., 82 , 682 (1960)
3. **Lucas, DM**, "The Identification of Petroleum Products in Forensic Science by Gas Chromatography"; J. Forens. Sci., 5, 336 (1960)
4. **Lucas, DM** and G. Eijgelaar, "An Evaluation of a Technique for the Examination of Lipstick Stains"; J. Forens. Sci., 6, 354 (1961)
5. **Lucas, DM** and WJ Hayman, "The Determination of Telephone Numbers From the Dial Sounds On a Tape Recording"; Proc. Can. Soc. Forens. Sci., (1962)

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6. Smith, HW and **DM Lucas**, "The Development of a Large Scale Breath Testing Program in Ontario"; Proc. 3rd Intl. Conf. On Alcohol and Road Traffic, (1962)
7. Yip, HL and **DM Lucas**, "A Gas Chromatographic Method for the Comparison of Candle Waxes in Arson Cases"; Proc. Can. Soc. Forens. Sci., (1965)
8. **Lucas, DM**, (Some New Equipment for the Handling and Transportation of Explosive Devices"; J. Forens. Sci. Soc., 7, 204 (1967)
8. Howes, JR, RA Hallett and **DM Lucas**, "A Study of the Accuracy of the Breathalyzer as Operated By Police Personnel"; J. Forens. Sci., 12, 444 (1967)
10. **Lucas, DM**, "Optics and Instrumentation of Forensic Science"; Applied Optics 8, 15 (1969)
11. **Lucas, DM** and NC Sharpe, "The Development of Forensic Science in Ontario", J. Can. Soc. Forens. Sci., 2, 30 (1969)
12. **Lucas, DM**, "What's New in Forensic Chemistry - 1972"; Amer. Acad. Forens. Sci. Newsletter, 2, (1973)
13. Cimbura, G, RA Warren, RC Bennett, **DM Lucas** and HM Simpson, "Drugs Detected in Fatally Injured Drivers and Pedestrians in the Province of Ontario"; TIRF Report, March (1980)
14. Cimbura, G, **DM Lucas**, RC Bennett, RA Warren and HM Simpson, "Incidence and Toxicological Aspects of Drugs Detected in 484 Fatally Injured Drivers and Pedestrians in Ontario"; J. Forens. Sci., 27, 855 (1982)
15. Basu, PK, M Avaria, R. Jankie, BM Kapur and **DM Lucas**, "Effect of Prolonged Immersion on the Ethanol Concentration of Vitreous Humor"; J. Can. Soc. Forens. Sci., 16, 2 (1983)
16. **Lucas, DM**, CG Leete and KS Field, "An American Proficiency Testing Program"; Forens. Sci. Intl., 27, 71 (1985)
17. **Lucas, DM**, "Drugs and Driving"; Crowns' Newsletter, 2, (1985)
18. **Lucas, DM**, "Nitroglycerine and Its Neutralization"; Can. Forces Explosive Ordnance Info. Bull., September (1985)
19. **Lucas, DM**, "The Breathalyzer - How It Works"; Chapter 24 in "Breathalyzer Law in

- Canada”, RM. McLeod, JD. Takach and MD Segal, Eds.; Carswell Co. Ltd., Toronto (1986)
20. **Lucas, DM**, “Approved Screening Devices - How They Work”; Chapter 25 in “Breathalyzer Law in Canada”, RM. McLeod, JD. Takach and MD Segal, Eds.; Carswell Co. Ltd., Toronto (1986)
 21. **Lucas, DM**, PJ Newall and DG Sidenberg, “DNA Profiling - A Primer for Crown Attorneys”; Crowns’ Newsletter, 4 (1988)
 22. **Lucas, DM**, “Gas Chromatography: Principles and Forensic Applications”; Chapter 5 in “Advances in Forensic Science”, Vol. 2; HC Lee and RE Gaensslen, Eds.; Year Book Medical Publishers Inc, Chicago (1989)
 23. **Lucas, DM**, “The Ethical Responsibilities of the Forensic Scientist: Exploring the Limits”; J. Forens. Sci., 34, 719 (1989)
 24. **Lucas, DM**, “Production of Breathalyzer Material”; J. Motor Veh. Law, 1, 103 (1989)
 25. **Lucas, DM**, “Assessing Breath Test Estimation of Blood Alcohol Concentration”; J. Anal. Tox., 13, 241 (1989)
 26. **Lucas, DM** and JG Wigmore, “The Broken Telephone Effect”; J. Can. Soc. Forens. Sci., 22, 225 (1989)
 27. Wigmore, JG and **DM Lucas**, “The Scientific Validity of the Decision in Regina v. Phillips”; J. Motor Veh. Law., 2, 43 (1990)
 28. Cimbura, G, **DM Lucas**, RC Bennett and AC Donelson, “Incidence and Toxicological Aspects of Cannabis and Ethanol Detected in 1394 Fatally Injured Drivers and Pedestrians in Ontario (1982 - 1984)
 29. Wigmore, JG and **DM Lucas**, “The Intoxilyzer 5000C - A Computerized Infrared Evidentiary Breath Alcohol Instrument”; J. Motor Veh. Law, 5, 119 (1993)
 30. **Lucas, DM**, “North of 49 - The Development of Forensic Science in Canada”; Science and Justice, 37(1), 47 (1997)
 31. Field, KS and **DM Lucas**, “Coming of Age: The American Academy of Forensic Sciences and the Forensic Science Profession - 1948 to 1998”; Forens. Sci. Rev., 11, 121 (1999)
 32. **Lucas, DM**, “Professor Robert F. Borkenstein - An Appreciation of His Life and Work”; Forens. Sci. Rev., 12, 1 (2000)
 33. Jones, AW, RH Liu and **DM Lucas**, “Obituary - Professor RF Borkenstein (1912-2002)”; Accident Analysis and Prevention, 35, 1 (2003)
 34. **Lucas, DM**, “In Memoriam - Robert F. Borkenstein”; Forens. Sci. Rev., 15(1), 2003.

January, 2005