

James G. Wigmore

Forensic Alcohol Toxicologist

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Derome Award Recipient- 2005 *

STATEMENT OF QUALIFICATIONS

FULL NAME

James Gregory WIGMORE

EMPLOYMENT STATUS

1976 –2005

Senior Forensic Scientist, Ministry of the Solicitor General, Centre of Forensic Sciences Toxicology Section
Faculty member at the University of Indiana, Bloomington
of the Center for Studies of Law in Action, R.F. Borkenstein course on Alcohol and Highway Safety: Testing, Research and Litigation.

2004-2012

2005-

Private practice

TRAINING AND EXPERIENCE

Analyst - Section 254(1) C.C. for Ontario and New Brunswick

Senior course instructor - Breathalyzer and Intoxilyzer 5000C Technician Training Program including the Approved Screening Device (Alcotest 7410 GLC)

Presented a scientific workshop on the “Forensic Alcohol Toxicology of Drinking Drivers” at a Joint International Forensic Science Meeting, Orlando Florida, September 2004

Presented at a scientific Alcohol Workshop at the joint meeting of the Canadian Society of Forensic Science and Canadian Identification Society, University of Windsor, 2006.

* The Derome Award is the most prestigious of the Canadian Society of Forensic Science and is presented in recognition of outstanding contributions to the field of forensic science. It has only been awarded four times since 1996.

Presented at an Alcohol Workshop and Workshop on New Approved Instruments in Canada at CSFS meeting in Toronto, 2010.

Internal training in the Toxicology Section of the Centre of Forensic Sciences

Backup Centre Receiving Officer

Abstracted, reviewed, categorized and computerized approximately 10,200 references in forensic alcohol toxicology including blood and breath alcohol testing.

Analysed over 2,000 biological specimens for alcohol and other drugs in Coroner's investigations, impaired driving and related cases, sexual assault cases and homicide cases.

Lectured and/or demonstrated in various areas of forensic toxicology to: High Schools, Insurance Adjusters Association of Ontario, Medico-Legal Society, Canadian Bar Association, Criminal Lawyers Association, Law Society of Upper Canada, Metro Toronto Public Complaints Commission, Crown Attorneys Meetings and Educational Courses, Toronto Society for Clinical Chemistry, University of Toronto, Osgoode Hall Law School (York University), American Academy of Forensic Science, International Association for Chemical Testing, Provincial Judges (Family Division), Provincial Judges (Criminal Division) Association, and the Select Justice Committee of the Ontario Legislature.

Testified on breath alcohol analysis, impairment of driving ability by alcohol and alcohol pharmacokinetics in a Military Court Martial in Lahr, Germany.

Testified in various areas of forensic toxicology in Alcohol and Gaming Commission hearings, civil cases, Coroner's Inquests, two levels of criminal court in Ontario (Ontario Court of Justice and Superior Court of Justice) and in New Brunswick, Alberta and British Columbia.

Cited four times by the Supreme Court of Canada in their Judgment of R vs St-Onge Lamoreux (2012)

Presented at a Seminar "Blood is Thicker than Water" at the California DUI Lawyers Association at Orange County CA (October 2014)

Lectured at Workshop "Aspects of Forensic Alcohol Toxicology: Not Just Drinking and Driving" at the South Western Association of Forensic Scientists, South Padre Island, TX, (2014)

Conducted numerous public lectures at Toronto Public Library on Cannabis, Alcohol and Driving, 2017-

Presented at Oklahoma Specialty Court Conference, "The Forensic Toxicology of Drug Testing- Can You Beat the Test?" Oklahoma City, September 2017

Keynote Speaker, First Annual African Forensic Alcohol Toxicology Meeting, April 23rd and 24th, 2018, Johannesburg, South Africa.

Health Canada- Cannabis Expert on "Your Cannabis Questions, Answered, Get the Honest Facts", April 2018

ACADEMIC QUALIFICATIONS

B.Sc. - University of Toronto, Faculty of Arts and Science, 1980

OTHER COURSES

Biological Principles of Pharmacology and Toxicology, University of Toronto, 1981-1982

Interdisciplinary Toxicology, University of Toronto, 1982-1983

Pharmacokinetics and Drug Interpretation, RCMP, Ottawa, 1984

GC/Mass Spectrometry Course, Finnigan-MAT Institute, 1984

Regional Coroner's Course, Ontario Fire College, 1985

Supervision of Breath Tests for Intoxication Program, by Professor Borkenstein, University of Indiana, Bloomington, 1986

Pharmacology and Toxicology of Opioids, Modern Practice of Forensic Toxicology: Current Status and Future Trends. Workshops at American Academy of Forensic Science, Cincinnati, Ohio, February 1990

Intoxilyzer 5000 Breath Alcohol Analysis Instrument Operation, Maintenance and Calibration,
CMI Inc., Owensboro, Kentucky, September 1992

Intoxilyzer 5000 Breath Test Operator Training Course, Bureau of Criminal Apprehension
Laboratory, Minneapolis, Minnesota, December 1992

Alcotest 7410 PA3 Level II Training Course, Draeger Canada, Mississauga, February 1994

Educational Course for Coroners. Toronto, 1983, 1998, 1999

PUBLICATIONS

REPORTS

WIGMORE, J.G., and **HANADA, A.**, "An Evaluation of the ToxTrap and SM-8 Silica Gel Containers" A report submitted to the Alcohol Test Committee of the Canadian Society of Forensic Science, 1984

WIGMORE, J.G., "The Effect of Temperature on Breath Alcohol Concentration: A Review of the Literature and a Report to the Chairman of the Alcohol Test Committee of the Canadian Society of Forensic Science, 14pp, 1992

WIGMORE, J.G., "Short Evaluation of the Alcotest 7410 GLC", A report submitted to the Alcohol Test Committee of the Canadian Society of Forensic Science, 11pp, 1995

WIGMORE, J.G., "Evaluation of the Alco-Sensor IV RBT IV (Evidential Instrument)", A report submitted to the Alcohol Test Committee of the Canadian Society of Forensic Science, 11pp, 1995

WIGMORE, J.G., "Evaluation of the Alco-Sensor IV Screener (PWF and DigiWarn Models)", A report submitted to the Alcohol Test Committee of the Canadian Society of Forensic Science, 14pp, 1995

WIGMORE, J.G., "Aspects of Ethanol in Forensic Toxicology", Medical, Scientific and Legal Aspects of Ethanol in Forensic Casework, American Academy of Forensic Sciences, (Workshop) San Francisco, California, 25pp, 1998

WIGMORE, J.G., "Scientific and Historic Aspects of Evidential Breath Alcohol Testing and the Two Beer (R v. Carter) Defence." A Report Submitted to the British Columbia Ministry of the Attorney General, Criminal Justice Branch, 47pp, November 2009

WIGMORE, J.G., "Scientific and Historic Aspects of Evidential Breath Alcohol Testing and the Two Beer (R v. Carter) Defence." An Addendum to the Report Submitted to the British Columbia Ministry of the Attorney General, Criminal Justice Branch, 11pp, December 2010.

WIGMORE, J.G., "The Forensic Toxicology of Alcohol and Best Practices for Alcohol Testing in the Workplace", A Report Submitted to the Canadian Nuclear Safety Commission, 35pp December 2014

WIGMORE, J.G., "Forensic Toxicological Aspects of the Alco-Sensor FST and other Approved Screening Devices (ASDs) and Immediate Roadside Prohibitions in British Columbia" A Report to the BC Ministry of Justice, Legal Services Branch

ARTICLES

WIGMORE, J.G., "Salting-Out of Volatiles Analysed by Headspace Gas Chromatography", Toxi-Logic, 9(2), 1984

CHARLEBOIS, R.C., and **WIGMORE, J.G.**, "An Unusually High Postmortem Blood Alcohol Concentration", Toxi-Logic 9(3): 1-3, 1984

WIGMORE, J.G., and **MOFTAH, I.**, "A Case of Methanol Ingestion Detected by the Breathalyzer", Toxi-Logic 9(4): 10-12, 1984

WIGMORE, J.G., "Elevated Acetone Concentrations and Trauma, Some Case Reports", *Toxi-Logic* 10(3): 18-22, 1985

WIGMORE, J.G., "Preliminary Testing of the AT-5 AlcoholTest", *Toxi-Logic*, 10(3): 26-28, 1985

WIGMORE, J.G., "The Variability of the Urine-Blood Alcohol Ratio", *Toxi-Logic* 10(4): 15-17, 1985

WIGMORE, J.G. and **WARD, M.J.**, "The Incidence of Ethanol and Acetone in the Blood and Urine of Victims of Sexual Assault", *Canadian Society of Forensic Science Journal*, 19(1): 49-58, 1986

WARD, M.J., and **WIGMORE, J.G.**, "Elevated Acetone Concentrations in Hypothermia Deaths", *Toxi-Logic*, 11(2): 4-7, 1986

WIGMORE, J.G., and **BELL, A.A.H.**, "Analysis of Potassium Dichromate Breath Test Solution After Sixteen Years Storage", *Toxi-Logic* 11(2): 13-14, 1986

WIGMORE, J.G., "The Effect of Ventolin and Isuprel on the Breathalyzer Result", *Toxi-Logic* 11(3): 13-14, 1986

WIGMORE, J.G., and **WARD, M.J.**, "Some Toxicologic Findings on Suspected Hypothermia Victims", [Abstract], *Canadian Society of Forensic Science Journal*, 19(4): 284, 1986

MAYER, J.M., **WIGMORE, J.G.**, **WARD, M.J.** and **HALLETT, R.A.**, "An Analysis of the Apparent Blood: Breath Alcohol Ratios for Ethanol in Human Subjects", [Abstract], *Canadian Society of Forensic Science Journal*, 19(4): 283-284, 1986

MCAULEY, F. and **WIGMORE, J.G.**, "Case Report: An Unusual Case of Carbon Monoxide Poisoning", *Canadian Society of Forensic Science Journal*, 20(2): 83-86, 1987

WARD, M.J., **WIGMORE, J.G.**, and **McMenamin, P.J.** "A Headspace Gas Chromatographic Method for the Determination of Total Ketone Body Concentrations in Blood: Analysis of Samples Collected From Victims of Sexual Assault. *Canadian Society of Forensic Science Journal*, 20: 107-117, 1986.

WIGMORE, J.G., **WARD, M.J.** and **MCAULEY, F.**, "Two Suspected Cases of Carbon Monoxide Poisoning", *Toxi-Logic* 12(3): 68-70, 1987

WIGMORE, J.G., "An Unusually High Blood Acetone Concentration in a Solvent Abuser", *Toxi-Logic* 13(1): 19-20, 1988

WIGMORE, J.G., **MCAULEY, F.**, and **WARD, M.J.**, "Carboxyhemoglobin and Ethanol Concentrations in the Blood of Victims of Fire and Carbon-Monoxide Related Non Fire Deaths", [Abstract], *Canadian Society of Forensic Science Journal*. 21(4): 195, 1988

WIGMORE, J.G., **WARD, M.J.**, and **WELLS, J.**, "Assessing Breath Test Estimation of Blood Alcohol Concentration", [Letter], *Journal of Analytical Toxicology*, 13(4): 244-245, 1989

LUCAS, D.M., and **WIGMORE, J.G.**, "The Broken Telephone Effect", *Canadian Society of Forensic Science Journal*, 22(2): 225-226, 1989

WIGMORE, J.G., "Current Scientific Issues in Drinking and Driving", in *Breathalyzer Returns*, Toronto Department of Education, The Law Society of Upper Canada, J1-J5, 1989
Published in *Journal of Motor Vehicle Law*, 2(2): 195-222, 1990

WIGMORE, J.G., "A Bibliography of Blood Alcohol Concentration as Measured by Breath Alcohol Testing Instruments and Impairment of Skills Related to Driving", *Toxi-Logic* 14(2, 3): 30-36, 1989

WIGMORE, J.G., and **LUCAS, D.M.**, "The Scientific Validity of the Decision in R v Phillips", *Journal of Motor Vehicle Law*, 2(1): 43-57, 1990

WIGMORE, J.G., "The Effect of Ventolin® on the Breathalyzer® Result of an Asthmatic Subject", *Toxi-Logic* 15(1): 5-7, 1990

WIGMORE, J.G., and **ROBINSON, D.W.**, "Incorrect Reanalysis of Breath/Blood Alcohol Data" [Letter], *Journal of Analytical Toxicology*, 14(6): 391-392, 1990

WIGMORE, J.G., and **PLETIKOS, J.**, "A Three Year Study of Forensic Cases in Which the Blood Alcohol Concentration Exceeded 400mg/dL.", [Abstract], *Canadian Society of Forensic Science Journal*, 23(4): 144, 1990

WIGMORE, J.G., and **LINTLOP, S.P.**, "Is There a Doctor in the Court?" [Letter], *Canadian Medical Association Journal*, 144(5): 544, 1991

WIGMORE, J.G., Alcohol bibliography of 357 references regarding the "Effect of Alcohol on Driving Related Skills", *Toxi-Logic*, 16(1): 13-43, 1991

WIGMORE, J.G., and McAULEY, F., "Case Report: Two Deaths Due to Asphyxiation in a Manhole and Analysis of the Manhole Gases", *Canadian Society of Forensic Science Society Journal*, 24(1): 1-4, 1991

LUCAS, D.M., and **WIGMORE, J.G.**, "Breath Tests for Alcohol" *Forensic Breath Testing for Alcohol, an Expert's Course*, June 2-6, 1991, University of Ottawa

WIGMORE, J.G., "Alcohol-Related Fatal Motor Vehicle Accidents in 1904", *Journal of Motor Vehicle Law*, 3(2): 198-199, 1991

WIGMORE, J.G., and MAMMOLITI, D.N., "Medico-Legal Application of Breath Alcohol Testing in 1927", *J. Motor Vehicle Law*, 3(3): 335-337, 1991

WIGMORE, J.G., and ROOS, J., "The Effect of Lung Disease on the Accuracy of the Breath Alcohol Test", *Journal of Motor Vehicle Law*, 4(1): 1-9, 1992

WIGMORE, J.G., "The Stability of Aqueous Ethanol Solutions after 13 Years Storage", [Letter], *Journal of Forensic Science*, 37(3): 685, 1992

WIGMORE, J.G. "It's the Same Old Thing", *International Association of Chemical Testers Newsletter*, 3(2): 9, 1992

WIGMORE, J.G. "BLUTALKOHOLKONZENTRATION" A series of synopses of translated German papers, *Society of Forensic Toxicologists Newsletter ToxTalk*, 1991-1991

WIGMORE, J.G., and MAMMOLITI, D.N., Comments on "Medico-legal Alcohol Determination: Implications and Consequences of Irregularities in Blood Alcohol Concentration vs. Time Curves" [Letter]. *Journal of Analytical Toxicology*, 17: 317, 1993

WIGMORE, J.G. "The Distribution of Ethanol in Postmortem Blood Samples" [Letter] *Journal of Forensic Science*, 38(5): 1019-1020, 1993

WIGMORE, J.G., and LUCAS, D.M., "The Intoxilyzer 5000C - A Computerized Infrared Evidentiary Breath Alcohol Instrument", *Journal of Motor Vehicle Law*, 5(2): 119-140, 1993

WIGMORE, J.G., "ATEMALKOHOLKONZENTRATION"

A series of synopses of translated German paper, *International Association of Chemical Testers Newsletter*, 1994-1997.

LUCAS, D.M., and **WIGMORE, J.G.**, "Approved Screening Devices in Ontario", *Journal of Motor Vehicle Law*, 6(2): 189-195, 1994

WIGMORE, J.G., PATRICK, J., and LIBMAN, R., "Evidentiary IR Breath Testing/Intoxilyzer 5000C", *Journal of Motor Vehicle Law*, 6(2): 189-195, 1994

CHARLEBOIS, R.C., CORBETT, M.R., and **WIGMORE, J.G.**, "Comparison of Ethanol Concentrations in Blood, Serum, and Blood Cells, for Forensic Application", *Journal of Analytical Toxicology*, 20: 171-178, 1996

RILEY, D., **WIGMORE, J.G.**, and YEN, B., "Dilution of Blood Collected for Medico-legal Alcohol Analysis by Intravenous Fluids", *Journal of Analytical Toxicology*, 20: 330-331, 1996

WIGMORE, J.G., "An In Vitro Simulator Study of the Effect of Ethylene Glycol on the Breathalyzer Model 900A, the Intoxilyzer 500C and Alcotest 7410 GLC", *Toxi-Logic* 21(1): 13, 1996

WIGMORE, J.G., and LINTLOP, S., "The Effect of Diethyl Ether on the Intoxilyzer 5000C", *International Association of Chemical Testing Newsletter*, 7(3): 17-18, 1996

WIGMORE, J.G., and MOFTAH, I., "The Effect of Dimethylsulfoxide and Isopropyl Alcohol on Breathalyzer and Intoxilyzer Results", *International Association of Chemical Testing Newsletter*, 8(2): 8, 1997

WIGMORE, J.G., CORBETT, M., and LINTLOP, S., "Spirometric Testing and the Breathalyzer" [Letter], *Canadian Medical Association Journal*, 157(5): 510, 1997

WIGMORE, J.G., "Kritische Anmerkungen zum Artikel von Kohler, Banaschak, und Brinkmann, *Blutalkohol* 34: 36-44, 1997" [Letter], *Blutalkohol*, 34: 443-445, 1997

WIGMORE, J.G., and CORBETT, M.R., "Profiles in Forensic Toxicology, Erik Matteo Prochet Widmark (1889-1945)", *News and Views*, 43: 6-7, 1998

WIGMORE, J.G., "The Mouth Alcohol Effect, 5, 10, 15, 20 Minutes or More? A Historical and Critical Literature Review and Original Data. (Presented at the 13th Annual IACT Meeting at Halifax, 2000), International Association of Chemical Testing Newsletter, 11(2): 15-17, 2000

WIGMORE, J.G., and **CHOW, B.L.C.**, "Case Report: Detection of Neo-Formation of Ethanol in a Postmortem Blood Sample Using N-Propanol and a Urine Sample", Canadian Society of Forensic Science, 33(3): 145-149, 2000

LANGILLE, R.M., and **WIGMORE, J.G.**, "The Mouth Alcohol Effect after a Mouthful of Beer under Social Conditions", Canadian Society of Forensic Science Journal, 33(4): 193-198, 2000

WIGMORE, J.G., and **LESLIE, G.M.**, "The Effect of Swallowing or Rinsing Alcohol Solution on the Mouth Alcohol Effect and the Slope Detection of the Intoxilyzer 5000", Journal of Analytical Toxicology, 25: 112-114, 2001

WIGMORE, J.G., and **WILKIE, M.P.**, "A Simulation of the Effect of Blood in the Mouth on Breath Alcohol Concentrations of Drinking Subjects", Canadian Society of Forensic Science Journal, 35(1): 9-16, 2002

LALONDE, B.R., **WILKIE, M.P.**, and **WIGMORE, J.G.** Determination of the Mouth Alcohol Effect in Drinking Subjects. ToxiLogic, 27(1): 4-6, 2002

WIGMORE, J.G., "Blood Alcohol Limit: The CMA is Right On" [Letter], Canadian Medical Association Journal, 167(7): 740. 2002

BUCZEK, Y., and **WIGMORE, J.G.**, "The Significance of Breath Sampling Frequency on the Mouth Alcohol Effect", Can. Soc. Forensic Sci. J., 35(4): 185- 193, 2002

WIGMORE, J.G., "First Breath" [Letter], The Beaver, 2, April/May 2003

WILKIE, M.P., **WIGMORE, J.G.**, and **PATRICK, J.W.**, "The Performance of the Approved Screening Device, The Alcotest 7410 GLC in the Field: Low Incidence of False Positive Results in the Identification of Drinking Drivers, Canadian Society of Forensic Science Journal, 36(3): 165-171, 2003.

WIGMORE, J.G., and **BUGYRA, I.M.**, "Decreasing the Mouth Alcohol Effect by Increasing the Salivary Flow Rate", Canadian Society of Forensic Science Journal, 36(4): 211-216, 2003

WIGMORE, J.G., **HOUSE, C.J.**, and **PATRICK, J.W.**, "Characteristics of Arrested Drinking Drivers With the Highest Intoxilyzer 5000C Results in Toronto: Drinking and Driving not Only at Night or on Weekends", Canadian Society of Forensic Science Journal. 37(1): 1-8, 2004

WIGMORE, J.G., "Cumulative Index of the Canadian Society of Forensic Science Journal, Volumes 1-36, 1968-2003", Canadian Society of Forensic Science Journal, 37(1): 58-93, 2004

WIGMORE, J.G., and **ELLIOT, M.** "Case Report: Serum, Blood and Breath Alcohol Results in a Case of Impaired Driving Causing Bodily Harm", Canadian Society of Forensic Science Journal, 37(4): 223-227, 2004

MARTIN, T.L., **WIGMORE, J.G.**, and **WOODALL, K.L.** "A Comparison of Blood Alcohol Concentrations Estimated From Drinking Histories of Drivers Charged With Over 80 and Their Intoxilyzer 5000C Results", Canadian Society of Forensic Science Journal, 37(4): 187-195, 2004

WIGMORE, J.G., and **PELLETIER, M.R.**, "Comments on the Paper Entitled Concentration Dependency of the BAC/BrAC (Blood Alcohol Concentration/Breath Alcohol Concentration) Conversion Factor During the Linear Elimination Phase by H.T. Haffner et al. [Letter], International. Journal of Legal Medicine, 119: 54-55, 2005

WIGMORE, J.G., **HOUSE, C.J.**, and **LANGILLE, R.M.** "Duplicate Breath Alcohol Testing: Should the Statutory Wait in Canada of At Least 15 Minutes Between Tests Be Changed?" Canadian Society of Forensic Science Journal, 38(1): 1-8, 2005

CHOW, B.L.C., and **WIGMORE, J.G.**, "Technical Note: The Stability of Aqueous Alcohol Standard Used in Breath Alcohol Testing After Twenty-Six Years Storage", Canadian Society of Forensic Science Journal, 38(1): 21-24, 2005

HOUSE, C., **WIGMORE, J.G.**, and **LANGILLE, R.**, "A Re-Evaluation of the Paper- Field Performance of the Intoxilyzer 5000: A Comparison of Blood- and Breath- Alcohol Results in Wisconsin Drivers", Toxi-Logic 30(1): 4-5, 2005

WIGMORE, J.G., "An Unusual Postmortem Urine – Blood Alcohol Ratio: Beware of Urine Dilution From Catheter Use", Canadian Society of Forensic Science Society Journal, 39: 25-27, 2006

LANGILLE, R.M., HOUSE, C., and **WIGMORE J.G.**, "Readings in the Critical Zone (Between 80 and 99 mg/dL) and Apparent Over-Estimation of Blood Readings by the Intoxilyzer

5000C: Further Evaluation of the Blood and Breath Alcohol Results From the Data of Harding et al, *J. Forensic Sci.* 35(5): 1022-1028, 1990". *Toxi-Logic* 31: 11-13, 2006

PALMENTIER, J-P F.P., **WIGMORE, J.G.**, LANGILLE, R.M., and PATRICK, J. "Incidence of Invalid Sample Screen Messages on the Intoxilyzer 5000C Obtained From Arrested Drinking Drivers in Toronto. Is a 15 to 20 Minute Wait Period Warranted?" *Canadian Society of Forensic Science Journal*, 39: 101-114, 2006

JONES, A.W., **WIGMORE, J.G.**, and HOUSE, C.J., "The Course of the Blood-Alcohol Curve After Consumption of Large Amounts of Alcohol Under Realistic Conditions", *Canadian Society of Forensic Science Journal*, 39: 125-140, 2006

PALMENTIER, J-P F.P., LANGILLE, R.M., **WIGMORE, J.G.**, and PATRICK, J. **Authors' Response:** "Incidence of Invalid Sample Screen Messages on the Intoxilyzer 5000C Obtained From Arrested Drinking Drivers in Toronto. Is a 15 to 20 Minute Wait Period Warranted?" *Canadian Society of Forensic Science Journal*, 40: 162-163, 2007

WIGMORE, J.G., "Mouth Alcohol Effect Re: Fessler, C.C., et al. (*Science and Justice*, 48: 16-23, 2008)", [Letter], *Science and Justice*, 48: 160, 2008

WIGMORE, J.G., "The Effect of an Elevated Serum Methanol Concentration on the Intoxilyzer 5000C Results of a Drinking Driver", *Canadian Society of Forensic Science Journal*, 41(3): 171-174, 2008

WIGMORE, J.G., "Canada Bans the Two Beer Defence", *International Association of Chemical Testing* 20(1): 17-18, 2008

WIGMORE, J.G., "Interferent Number One and the Intoxilyzer 5000C", *ToxiLogic*, 33(1): 15-16, 20, 2008

WIGMORE, J.G., "Effects of Alcohol on Ability to Operate a Vessel, 1968-2008", *ToxiLogic* 33(1): 10, 11, 21-27, 2008

WIGMORE, J.G., "Assessment of a Single Intoxilyzer 5000C Result", *ToxiLogic* 33(1): 13-14, 2008

WIGMORE, J.G., "Man vs. Machine: Self-Reported Alcohol Consumption of Drinking Drivers vs. Evidential Breath Alcohol Tests. Is the Restriction of Evidence to the Contrary Scientifically Valid?" *The Criminal Law Quarterly* 54(3): 395-410, 2009

WIGMORE, J.G., "Blood Ethanol Concentrations are Less Stable than Serum or Plasma Upon Storage Because of Oxyhemoglobin-Mediated Oxidation of Ethanol to Acetaldehyde [Letter]" *Journal of Analytical Toxicology*, 33(3): 182, 2009

WIGMORE, J.G., "The Purell Defence: Can the Use of Alcohol-Containing Hand Sanitizers Cause an Elevated Breath or Blood Alcohol Concentration?" *Canadian Society of Forensic Science Journal*, 42(2): 147-151, 2009

WIGMORE, J.G., and Langille, R.M., "Six Generations of Breath Alcohol Testing Instruments: Changes in the Detection of Breath Alcohol Since 1930. An Historical Review" *Canadian Society of Forensic Science Journal*, 42(4): 276-283, 2009

Langille, R.M., and **WIGMORE, J.G.**, "Guest Editorial. Fortieth Anniversary of Canada's Breathalyzer Law" *Canadian Society of Forensic Science Journal*, 42(4), 2009

WIGMORE, J.G., "Up to Their Necks in Hot Water: Body Temperature and the BAC/BrAC Ratio [Letter]", *Journal of Analytical Toxicology*, 34(9): 605-606, 2010

WIGMORE, J.G., "Commentary on Hlastala MP. Paradigm Shift for the Alcohol Breath Test". *J. Forensic Sci.* 2010; 55(2): 451-456, *Journal of Forensic Science.*, 56(1): 266-267, 2011

WIGMORE, J.G., and Barker, G.J., "R v. Gibson: Does the Recent Supreme Court of Canada Decision Straddle Science?", *Criminal Law Quarterly*, 57(1): 112-122, 2011

WIGMORE, J.G., "Commentary on Pressman MR, Caudill, DS, Alcohol-Induced Blackout as a Criminal Defense or Mitigating Factor: An Evidence-Based Review and Admissibility as Scientific Evidence, *J. Forensic Sci* 2013; 58(4): 932-940", *Journal of Forensic Sciences*, 59(1): 293, 2014

WIGMORE, J.G., "Absorption Deficit and Overshooting of the Blood Alcohol Concentration", *Medicine, Science and the Law*, 54(4): 234, 2014

WIGMORE, J.G., "Postmortem Urine Volume: How Hard-Pressed Medicolegal Examiner Labs Can Use a Simple Test to Help Screen for Alcohol/Drugs", *Forensic Research and Criminology International Journal*, 1(1), 1pp, 2015

BOOKS/MANUALS

HALLETT, R. and **WIGMORE, J.G.**, "Breathalyzer Model 900/900A Training Aid for Technicians in Ontario", 1990

WIGMORE, J.G., "A Bibliography of Forensic Aspects of Alcohols (1872-1991)", Forensic Science Foundation, 539 pp, 1992

WIGMORE, J.G. and Patrick J. "Intoxilyzer 5000C Training Aid for Technicians in Ontario", 1994

WIGMORE, J.G., "Court Notes on Alcohol", Centre of Forensic Sciences, 25pp, November 2001

LANGILLE, R.M., and **WIGMORE, J.G.**, "Chapter 27- Breath Alcohol Testing", *Breathalyzer Law in Canada. The Prosecution and Defence of Drinking and Driving Offences*, R.M. McLeod, J.D. Takach and M.D. Segal, Carswell Publishing, 27-1 – 27-28, (2008-Rel. 9)

WIGMORE, J.G., LUCAS, D.M., and LANGILLE, R.M., "Chapter 28- Blood Alcohol Testing" *Breathalyzer Law in Canada. The Prosecution and Defence of Drinking and Driving Offences*, R.M. McLeod, J.D. Takach and M.D. Segal, Carswell Publishing, 28-1 – 28-17, (2008-Rel. 9).

LANGILLE, R.M., and **WIGMORE, J.G.**, "Chapter 29- The Pharmacokinetics of Alcohol and Its Application to the Drinking Driver" *Breathalyzer Law in Canada. The Prosecution and Defence of Drinking and Driving Offences*, R.M. McLeod, J.D. Takach and M.D. Segal, Carswell Publishing, 29-1 – 29-20, (2008-Rel. 9)

WIGMORE, J.G., and LANGILLE, R.M. "Chapter 25- Approved Screening Devices", *Breathalyzer Law in Canada. The Prosecution and Defence of Drinking and Driving Offences*, R.M. McLeod, J.D. Takach and M.D. Segal, Carswell Publishing, 25-1 – 25-18, (2009-Rel. 1)

WIGMORE, J.G., and LANGILLE, R.M. "Chapter 30- Pharmacodynamics of Alcohol and Its Effect on Driving Ability", *Breathalyzer Law in Canada. The Prosecution and Defence of Drinking and Driving Offences*, R.M. McLeod, J.D. Takach and M.D. Segal, Carswell Publishing, 30-1 – 30-24, (2009-Rel. 7)

WIGMORE, J.G., and LANGILLE, R.M. "Chapter 31- Approved Instruments", *Breathalyzer Law in Canada. The Prosecution and Defence of Drinking and Driving Offences*, R.M. McLeod, J.D. Takach and M.D. Segal, Carswell Publishing, 31-1 – 31-41, (2009-Rel. 7)

WIGMORE, J.G., "Wigmore on Alcohol: Courtroom Alcohol Toxicology for the Medicolegal Professional", Irwin Law Inc, Toronto, 561 pp, 2011

WIGMORE, J.G. "Breath Alcohol" in *Encyclopedia of Forensic Sciences*, Second Edition, Siegel JA and SAUKKO PJ (eds) pp 313-317, Waltham: Academic Press, 2013

WIGMORE, J.G., "The Abridged Wigmore on Alcohol: Courtroom Alcohol Toxicology for the Medicolegal Professional", Irwin Law Inc. Toronto, 267 pp, 2015

WIGMORE, J.G., and WATTERSON, J., "Chapter 20, Forensic Toxicology- Alcohol and Drugs", in "The Lawyer's Guide to the Forensic Sciences", Caitlin Pakosh (ed), Irwin Law Inc., Toronto, 969 pp, 2016

WIGMORE, J.G., "Wigmore on Cannabis. The Forensic Toxicology of Marijuana for Lawyers and Other Medicolegal Professionals", Irwin Law Inc. Toronto, 592 pp, 2018

WEBINARS

AWARDS

H. Ward Smith Award, Canadian Society of Forensic Science, for Best Paper worthy of Presentation at an International Meeting, 1987
Director's Award, Centre of Forensic Sciences, 1989
Citation, Deputy Solicitor General of Ontario, for dedication and professionalism in the publication of “A Bibliography of Forensic Aspects of Alcohol (1872- 1991)”, 1992
Citation, Minister of Justice for work on the Alcohol Test Committee, 1999
Citation, Ontario Crown Attorneys’ Association, for Tireless Dedication to the Education of Crown Counsel in the Field of Forensic Toxicology, 2005
Derome Award, Canadian Society of Forensic Sciences, 2005

MEDIA INTERVIEWS

CBC Radio One- The Current, December 21, 2007
CBC TV News- The National, December 24, 2007
Global TV News, December 25, 2007
Rogers TV, Goldhawk Live, May 21st 2008
570News Radio Kitchener- October 16th 2009
Daytime- Rogers Cable TV, Kitchener, November 6th 2009
Focal Point- Rogers Cable TV, Newmarket, December 2nd 2009
CBC Radio One- Afternoon Edition, Regina on alcohol and driving, September 8th 2016
CBC Radio One- Afternoon Edition, Regina-“Could edible cannabis be the next date rape drug”, April 3rd, 2017
“Unfounded: How Alcohol Complicates Sex-Assault Cases”, Robyn Doolittle, Globe and Mail, March 18th 2017
CBC Radio- Ontario Today, Phone in Show guest- “Where Should Pot be Bought and Sold?” May 30th 2017
CBC Radio- Metro Morning Interview with Matt Galloway, Tuesday January 16th 2018
Health Canada Cannabis Information Campaign, Toronto and Montreal, Manifest Communications, March- April 2018
The National Post and various university, local newspapers, 2018

PEER REVIEWER

Canadian Society of Forensic Science Journal
Journal of Analytical Toxicology
Forensic Science International

MEMBERSHIPS IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

Canadian Society of Forensic Science Alcohol Test Committee (1992- 2005)
Canadian Society of Forensic Science, Toxicology Section, Member (1985-2005),
Fellow (2005-)

August 21st, 2018