

Curriculum Vitae of Mr. Jan Semenovff

Contact Information

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Professional History

Current Position	Industrial Training & Design Ltd. (Publishers: Counterpoint – The Journal of Science & the Law) Principal Partner / Editor	Saskatoon, SK <i>1995-Present</i>
Previous Position	Kapsack & Bair, LLP Forensic Criminalist – <i>three year term</i>	Oakland, CA <i>2012-2015</i>
Previous Position	Head, Thomas Webb & Willis, LLP Forensic Criminalist – <i>three year term</i>	Atlanta, GA <i>2009-2012</i>
Previous Position	Universal Career College, Inc. Program Developer & Instructor, Police Service Preparation Program - <i>two year term</i>	Saskatoon, SK <i>2002-2004</i>
Previous Position	Saskatoon Police Service Senior Constable ▪ <i>General Investigations Section - High Risk Offender Unit, Violent Crimes Analyst, assigned ViCLAS Detail</i> ▪ <i>Previously: Patrol, Traffic and Community Services Divisions</i> ▪ <i>Qualified Breath Alcohol Technician</i> ▪ <i>Secondments to Staff Development and Planning & Research</i> Chief Instructor – Saskatchewan Police College <i>Emergency Medical Services</i> Program Coordinator & Chief Instructor - Saskatoon Police Service <i>Emergency Medical Services</i> <i>Emergency Medical Dispatch Program Developer, 9-1-1 System</i> Program Developer & Coordinator – Saskatoon Police Service <i>Administrative Officer - Infectious Control Protocol</i> Field Recruit Trainer Instructor - Oleoresin Capsicum (Defensive Technologies) Member - River Rescue Unit and Dive Team Member - Crowd Control Unit	Saskatoon, SK <i>1985 – 2002</i> <i>1986 - 1992</i> <i>1987 - 1999</i> <i>1987</i> <i>1997 - 1999</i> <i>1998 - 1999</i> <i>1993 - 1999</i> <i>1987 - 1991</i> <i>1995 - 1998</i>

Previous Position	MD Ambulance Care Ltd.	Saskatoon, SK
	Emergency Medical Assistant - Level 1	1982-1985

Educational Achievements and Certificates Held

Education, Training & Experience

University of Saskatchewan

Bachelor of Arts & Sciences 1985

Canadian Police College

Post-Degree Certificate in Advanced Police Studies 1993

Saskatchewan Institute of Applied Science and Technologies

Emergency Medical Technician 1982

Saskatchewan Medical Association

Emergency Medical Assistant Level 1 1983

Saskatchewan Police College – University of Regina

Oleoresin Capsicum Instructor's Course 1993

Senior Constable's Development Course 1992

Operational Investigator's Course 1989

Drug Investigation Course 1987

Police Officer's Recruit Training 1985

Royal Canadian Mounted Police – RCMP Training Depot, Regina, SK

Alcohol Countermeasures A.L.E.R.T. J3-A Operators Course 1987

Qualified Breathalyzer Technician 1991 - 2002

Qualified Intoxilyzer Technician 1997 - 2002

ViCLAS Analysis and Profiling Seminar 2000

Saskatoon Police Service

LION Alcometer SL-2 Operators Course 1997

Cultural Awareness Course 1994

Investigative Interviewing Course 1993

Tactical Communications Course 1993

Field Training Officers Course 1993

Mobile Radar Operators Course 1988

Radar Operators Course 1987

River Rescue Unit Boat Operators Course (Annual Qualifications) 1987 - 1991

Crossarms Award – Annual Firearms Qualification 1985 - 2002

Canadian Red Cross

Advanced First Aid Instructor & Instructor - Trainer 1987 - 1999

Saskatchewan Heart and Stroke Foundation

CPR Instructor - Trainer 1987 – 1998

Workplace Hazardous Material Instructor - Trainer 1988



Professional Association of Diving Instructors - International <i>Master Scuba Diver Trainer</i>	1989 - 2002
CMI Intoxilyzer, Owensboro, KY, USA <i>US Dept. of Transportation Breath Alcohol Technician Instructor</i>	2000
National Patent Analytical Systems, Inc., Mansfield, OH, USA <i>BAC DataMaster Supervisor Program</i>	2008
Intoximeter EC/IR II Breath Alcohol Technician, Columbus, OH, USA <i>US Dept of Transportation Breath Alcohol Technician</i> <i>Factory Authorized Calibration Technician</i>	2009
Dräger Alcotest Breath Alcohol Technician, Mt. Laurel, NJ, USA <i>Breath Alcohol Operator Training Course</i>	2011

Publications

Major Publications

“Breath Alcohol Testing in the Workplace” <i>Industrial Training & Design Ltd., ISBN 1-894977-83-1</i>	2005
“Intoxilyzer Breath Alcohol Testing – Professional Edition” <i>Industrial Training & Design Ltd., ISBN 1-894977-80-7</i>	2004
“Cameco Radioactive Materials Transport Safety Program”	2001
“Infectious Disease Protocols” – Saskatoon Police Service <i>Adopted across Canada by various municipal police agencies.</i>	1997

Refereed Journal Articles

“Airflow Obstruction and Roadside Breath Alcohol Testing”, CHEST – *The Journal of Respiratory Medicine*, Vol. 100, Aug. 1991, Prabhu, Hurst, Cockcroft, Baule and Semenoff

Journal Articles

“Case Study: Potential False-Positive Readings by a SCRAM Device”, *The Vindicator – The Journal of the Ohio Association of Criminal Defense Lawyers*, 2018

“The Need for Scientific Literacy”, *The Vindicator – The Journal of the Ohio Association of Criminal Defense Lawyers*, 2017

“Accuracy, Precision & Reliability”, *The Vindicator – The Journal of the Ohio Association of Criminal Defense Lawyers*, 2017

Electronic Publications

- “Counterpoint – The Journal of Science and the Law”**, Published by Industrial Training & Design Ltd., 2015 - Current, ISSN 2369-2774, Editor and Author.
- “Exposing the Myths Surrounding Alcohol”**, Semenoff, J. & Reschny, S., Industrial Training & Design Ltd., 2011, ISBN 978-1-89497-30-2
- “An Introduction to Metrology”**, Reschny, S., Semenoff, J. & Vosk, T., Industrial Training & Design Ltd., 2011, ISBN 978-1-89497-50-0
- “Shipping Nuclear Substances”**, Industrial Training & Design Ltd., 2005, ISBN 1-89497-25-4
- “The New Clear Language Transportation of Dangerous Goods Computer-Based Training. 3rd Edition (Version 3.0)”**, Industrial Training & Design Ltd., 2003, ISBN 1-894977-10-6
- “WHMIS in the Workplace, 2nd Edition (Version 2.0)”**, Industrial Training & Design Ltd., 2003, ISBN 1-894977-12-2
- “Forklift Safety in the Workplace”**, Industrial Training & Design Ltd., 2003, ISBN 1-894977-14-9
- “Lock-Out / Tag-Out in the Workplace”**, Industrial Training & Design Ltd., 2003, ISBN 1-894977-17-3

Guidebooks & Policy Documents Developed

- “Redline Industries Program - Confidential”** Calgary, AB 2011
- “Chemtrade Safety Program”** 2010
- “Young Seeds Program - Confidential”** Young, SK 2009
- “Policy Development - Confidential”**, Saskatchewan Research Council 2008
- “Fall-Arrest Protocols & Policy”**, Government of Canada, Agriculture & Agri-Foods Canada 2004
- “Russel Metals Canada Safety Program”** 2005
- “Elite Force Program - Confidential”** Sacramento, CA 2000
- “Smucker’s Foods Confined Space Program”** 2003
- “Smucker’s Foods Fall Arrest Safety Program”** 2003
- “Robin Hood Federal Forklift Safety Program”** 2001
- “Robin Hood Fire Evacuation Policy”** 2001
- “Nu Tech Industries Safety Program”** 2000
- “Deca Industries Safety Program”** 2000
- “Redi-Medic First Aid & Survival Guidebook”** 1999
- translated into French as, **“Redi-Medic Guide de premiers soins & de survie”** 1999
- “Sunnydale Foods - Confidential Program”** 1997

Training Manuals & Resource Kits Authored

- “Occupational Health & Safety Orientation Programs”**, BHP Billiton 2014
- “Confined Space Orientation Program”**, BHP Billiton 2014
- “Confined Space Supervisor Orientation Program”**, BHP Billiton 2014
- “Ground Disturbance Orientation Program”**, BHP Billiton 2014
- “Ground Disturbance Supervisor Orientation Program”**, BHP Billiton 2014
- “Working at Heights Orientation Program”**, BHP Billiton 2014
- “Working at Heights Supervisor Orientation Program”**, BHP Billiton 2014
- “High Voltage Orientation Program”**, BHP Billiton 2014

“High Voltage Supervisor Orientation Program” , BHP Billiton	2014
“Performing Hot Work Orientation Program” , BHP Billiton	2014
“Isolation Orientation Program” , BHP Billiton	2014
“Isolation Supervisor Orientation Program” , BHP Billiton	2014
“Permit to Work Orientation Program” , BHP Billiton	2014
“Vicinity to Exposed High Energy Orientation Program” , BHP Billiton	2014
“Vicinity to Exposed High Energy Supervisor Orientation Program” , BHP Billiton	2014
“Shipping Nuclear Substances – A Training Guide to the Safe Consignment of Radioactive Materials” , ISBN 1-894977-24-6, Saskatchewan Research Council	2005
“Effective Occupational Health & Safety”	2002
“Accident Investigators Resource Kit”	2002
“Chemical Handling & Spill Response Resource Kit” , BASF	1999
“Chemical Handling & Spill Response Resource Kit” , Monsanto	1998
“WHMIS Resource Kit”	1999
“Transportation of Dangerous Goods Resource Kit”	1999
“Confined Space Entry Resource Kit”	1998
“Emergency Medical Responders Resource Kit”	1998
“Industrial First Aid Resource Kit”	1997
“Lockout / Tag-Out Resource Kit”	1997
“Situational Awareness Resource Kit”	1996
“CPR Instructors Resource Kit”	1996
“Driving Without Impairment” - Government of Saskatchewan, Royal Canadian Mounted Police and the Saskatoon Police Service	1995
“CPR Response Training” , Saskatoon Police Service,	1988 - 1994
“Standard First Aid Resource Guidebook” , Canadian Red Cross, Saskatchewan Division	1987
“Emergency Medical Dispatch Guidebook” , Saskatoon Police Service	1987

Invited Presentations

Peer Reviewed Submissions

“Performance Characteristics of the Intoxilyzer 9000: An Independent Assessment & Review”, Poster Presentation & Written Materials, The International Association of Forensic Sciences, 21st Triennial Meeting, Toronto, ON, 2017

Approved for Continuing Legal Education Credit

“Updated - Performance Characteristics of the Intoxilyzer 9000”, The Georgia State Bar Association Institute of Continuing Legal Education, Atlanta, GA, 2019

“Why Science Matters”, The DUI Defense Lawyers Association, Nashville, KY, 2019

“Presenting Scientific Evidence to Jurors”, with Bruce Kapsack, Esq., The California DUI Lawyers Association, San Francisco, CA, 2018

“An Independent Assessment of the Intoxilyzer 9000”, The Sixth Annual Man v. Machine Seminar, New York, NY, 2018

“Performance Characteristics of the Intoxilyzer 9000”, New Hampshire Association of Criminal Defense Lawyers, Manchester, NH, 2018

- “Advanced DUI Seminar”**, Course Faculty, The Ohio Association of Criminal Defense Lawyers, Columbus, OH, 2018
- “Performance Characteristics of the Intoxilyzer 9000”**, Trial Skills University, Key West, FL, 2018
- “Performance Characteristics of the Intoxilyzer 9000”**, The Georgia State Bar Association Institute of Continuing Legal Education, Atlanta, GA, 2017
- “The Science of Breath Alcohol Testing”**, The DUI Defense Lawyers Association, Charleston, SC, 2017
- “The Intoxilyzer 9000”**, The Georgia Association of Criminal Defense Lawyers, Atlanta GA, 2017
- “Advanced DUI Seminar”**, Course Faculty, The Ohio Association of Criminal Defense Lawyers, Columbus, OH, 2017
- “Scientific Literacy in the Courtroom”**, The South Carolina Criminal Defense Lawyers Association, Columbia, SC, 2016
- “The Intoxilyzer 9000 & the Unknown”**, The DUI Defense Lawyers Association, Denver, CO, 2016
- “Recent Trends in Breath Alcohol Testing”**, The California Public Defenders Association, Monterey, CA, 2016
- “Advanced DUI Academy”**, Course Faculty, The Ohio Association of Criminal Defense Lawyers, Columbus, OH, 2016
- “Breath Testing”**, The Florida Bar Association, Fort Lauderdale, FL, 2015
- “Breath Testing”**, The California Association of Criminal Defense Lawyers, Santa Monica, CA, 2015
- “Fundamentals in Breath Alcohol Testing”**, with Bruce Kapsack, Esq., The Michigan Association of Criminal Defense Lawyers, Detroit, MI, 2014
- “The Intoxilyzer 8000”**, The Maine Association of Criminal Defense Lawyers, Freeport, ME, 2014
- “Fundamentals of Alcohol Testing”**, The Colorado Public Defenders Annual Conference, Westminster, CO, 2012
- “Understanding the Intoxilyzer 5000”**, The Texas Criminal Defense Lawyers Association Top Gun Seminar, Austin, TX, 2012 and again in Arlington TX, 2012
- “Issues in Breath Testing – The EC/IR II”**, The Saskatchewan Trial Lawyers Association, Saskatoon, SK, 2012
- “Medical Issues in DUI Defense”**, The National Association of Criminal Defense Lawyers Mastering Scientific Evidence Conference, New Orleans, LA, 2012
- “The Intoxilyzer 5000 Breakout Session”**, The National Association of Criminal Defense Lawyers Mastering Scientific Evidence Conference, New Orleans, LA, 2012
- “An Assessment Tool for the Reliability of Breath Alcohol Tests”**, The South Carolina Association of Criminal Defense Lawyers Reese Joye Conference, Columbia, SC, 2011
- “Measurement Uncertainty in Scientific Testing”**, The Tennessee Association of Criminal Defense Lawyers, Nashville, TN, 2011
- “A Primer on the EC/IR II Breath Test Instrument”**, Keynote Speaker, The Second EC/IR II Conference, Williamsburg, VA, 2011
- “Assessing the Reliability of Breath Tests”**, The National Association of Criminal Defense Lawyers DUI Conference, Las Vegas, NV, 2011

- “The Intoxilyzer 5000 Breakout Session”**, The National Association of Criminal Defense Lawyers Mastering Scientific Evidence Conference, New Orleans, LA, 2011
- “An Update to the Science of Breath Alcohol Testing”**, The California DUI Lawyers Association, San Diego, CA, 2011
- “Can Breath Tests Go Wrong?”**, Lyons Legal Seminars, Key West, FL, 2011
- “Understanding the Fundamentals of Breath Alcohol Testing”**, The DUI Symposium, Atlanta, GA, 2010
- “Principles of Breath Alcohol Testing”**, Tennessee Association of Criminal Defence Lawyers, Tunica, MS, 2010
- “Assessing Reliability in Breath Alcohol Measurement”**, The Utah Association of Criminal Defence Lawyers, Salt Lake City, UT, 2010
- “Variables in Breath Alcohol Measurement”**, The Ohio Association of Criminal Defence Lawyers, Columbus, OH, 2010
- “The Effects of Alcohol at Altitude”**, Lyons Legal Seminars, Key West, FL, 2010
- “The Science of Breath Testing”**, The California DUI Lawyers Association, San Diego, CA, 2010
- “Asserting Challenges in Breath Alcohol Testing”**, Invited presentation with Thomas E. Workman, Jr., Institute of Continuing Legal Education in Georgia, Georgia State Bar, Atlanta, GA, 2009
- “A Primer on Breath Alcohol Testing”**, The Colorado Criminal Defence Bar, Boulder, CO, 2009
- “The Expert Witness as Educator”**, National Association of Criminal Defence Lawyers Annual Conference, Las Vegas, NV, 2009
- “Critical Issues in Breath Alcohol Testing”**, National Association of Criminal Defence Lawyers Annual Conference, Las Vegas, NV, 2009
- “Current Issues in Alcohol Testing in Light of Bill C-2”**, Quebec Bar Association, Montreal, QC, 2009
- “Examining Evidentiary Issues in Forensic Testing”**, The Forensic Blood and Urine Testing Program, San Diego, CA, 2009
- “A Primer on Breath Alcohol Testing”**, Keynote Speaker, The New Hampshire Association of Criminal Defence Lawyers, Manchester, NH, 2009
- “The Fallibility of Breath Testing Devices, Protocols and Practices”**, Arizona Association of Criminal Defence Lawyers, Tucson, AZ, 2009
- “Emerging Issues in Breath Alcohol Testing”**, Colorado Association of Criminal Defence Lawyers, Keystone, CO, 2009
- Guest Panelist – “Who Killed Carter? – Bill C-2”**, Ontario Criminal Lawyers Association 2008 Fall Conference, Toronto, 2008
- “Bill C-2 & The Fallibility of Breath Testing Devices, Protocols & Practices”**, Quebec Bar Association, Montreal, QC, and also Gatineau, QC, 2008
- “Fundamental Principles of Breath Alcohol Testing”**, Tennessee Association of Criminal Defence Lawyers, Tunica, MS, 2008
- “Asserting Challenges in Breath Alcohol Testing”**, Institute of Continuing Legal Education in Georgia, Georgia State Bar, Atlanta, GA 2008
- “Emerging Issues in Breath Alcohol Testing”**, Alaska Association of Criminal Defence Lawyers, Girdwood, AK, 2008
- “Examining Evidence to the Contrary”**, Alaska Association of Criminal Defence Lawyers, Girdwood, AK, 2008

- “Operational Considerations in Breath Alcohol Testing”**, Breath Test Equipment Source Code Seminar, Atlanta, GA, 2008
- “Issues in Breath Alcohol Testing”**, South Carolina Senate Judiciary Hearing, House Bill 3496, Columbia, SC, 2007
- “Neglected Issues in Breath Alcohol Testing”**, Keynote speaker, South Carolina Association of Criminal Defence Lawyers Annual Conference, Columbia, SC, 2007
- “Issues that Matter in Breath Alcohol Testing”**, Georgia Association of Criminal Defence Lawyers Annual Conference, Blairsville, GA, 2007
- “Emerging Issues in Breath Alcohol Testing”**, National Association of Criminal Defence Lawyers Annual Conference, Las Vegas, NV, 2007
- “Examining Evidence to the Contrary”**, National Association of Criminal Defence Lawyers Annual Conference, Las Vegas, NV, 2007
- “Breath Alcohol Testing”** Osgoode Hall, York University Intensive Criminal Law Program, Guest Lecturer, York University, Toronto, 2006
- “Fuel Cells and Breath Alcohol Testing”** EC/IR Annual Conference, Washington, D.C., 2006
- “Examining the Unknowns in Breath Alcohol Testing”** Defenders Education, Portland, Maine, 2006
- “Breath Alcohol Testing”**, Alberta Criminal Trial Lawyers Association, Edmonton, 2005
- “Alcohol Testing in the Workplace”**, Canadian Society of Safety Engineering, Saskatoon, 2004
- “Driving Without Impairment Program”**, Government of Saskatchewan, Saskatoon, 1991-1999
- “Shipping Nuclear Substances”**, Saskatchewan Geological Survey Open House, Government of Saskatchewan Industry and Resources, 2005
- “Preparing Effective E-Learning Programs”**, delivered to:
- Saskatchewan Advanced Technologies Association Annual Workshop, 2004
 - Canadian Association of Safety Engineering Professional Development National Conference, Saskatoon, 2003 (also delivered Edmonton, 2003)
- “Infectious Disease Protocols and Police Response Issues”**, delivered to:
- Canadian Police Association Annual General Meeting, 1997
 - Saskatchewan Federation of Police Officers Annual General Meeting, 1997
- “Targeting Office & Workplace Safety”**, Saskatchewan Optical Dispensers Association Annual General Meeting, 1996

Awards & Merits

Letters of Commendation

- Chief A.O. Maguire, Saskatoon Police Service, 1995, 1993 , 1992
- Deputy Chief M. Montague, Saskatoon Police Service, 1993
- Superintendent F. Simpson, Saskatoon Police Service, 1991
- Chief J. Penkala, Saskatoon Police Service, 1990, 1987
- Superintendent E. Menu, Edmonton Police Service, 1988
- Superintendent D. Cocroft, Vancouver Police Department, 1988
- Terrence Hinz, Senior Crown Prosecutor, Saskatchewan Justice Public Prosecutions, 1990

Certificate of Achievement

- *Heart & Stroke Foundation of Saskatchewan, 1997*

Additional Professional Activities

Instructor – *Self Contained Breathing Apparatus and Respirator Technologies, 1988*

Instructor – *WHMIS, Heart & Stroke Foundation of Saskatchewan, 1988*

Instructor - *Saskatoon Police Emergency Response Team - Tactical First Aid, 1992 - 1999*

Instructor - *Level "B" Safety Attendants – Emergency Medical Responder, 1997*

Instructor – *Transportation of Dangerous Goods, 1997*

Instructor – *Confined Space Entry, 1998*

Instructor – *Forklift Safety, 2001*

Instructor – *Police Service Preparation Program, Universal Career College, 2002-2003*

Instructor – *Fall Protection Supervisor Level III, North Safety Products, Edmonton, 2003*

Instructor – *Rigging & Overhead Crane, Alberta Manufacturers Health & Safety Assoc., 2006*

Instructor – *Standardized Field Sobriety Testing Instructor, Tony Corroto Enterprises, 2011*

Expert Witness – *Qualified as an expert witness in breath alcohol testing in over 150 Federal, District and Provincial Court attendances, in courts in Canada and the USA, 2004 – Present*

Expert Witness – *Confined Space Entry & Adult Safety Training Programs – Saskatchewan Human Rights Commission, 2012*

Expert Witness – *Establishing Breath Alcohol Testing Programs – Senate Judiciary Sub-Committee, South Carolina State Senate Hearings, Columbia, South Carolina, 2007*

Witness – *Adult Safety Training Programs – Saskatchewan Labour Standards, 1999*

Witness – *Judicial Inquiry, Provincial Justice Inquiry, 1995*

Member - *Basic Life Support Advisory Committee, Heart & Stroke Foundation of Saskatchewan, 1987 - 1998*

Member - *Instructors Advisory Committee - Canadian Red Cross, 1988 - 1992*

Member - *Victim's Assistance Advisory Committee, 1991*

Advisor – *Professional Association of Diving Instructors - Ice Diving Advisory Committee, Winnipeg, 1990*

Advisor - *Detention Policy and Procedures - Saskatoon Police Service, 1994 - 1999*