

D.J. Dalmotas Consulting, Inc.

Curriculum Vitae

Alan German, BSc PhD MInstP CPhys

Degrees Held:

Degree: BSc
Course: Honours Physics
Date: July 22, 1970
Awarded by: University of Salford, England

Degree: PhD
Thesis: The Thermal Conductivity of Some Alloys of Zirconium
Date: July 8, 1976
Awarded by: University of Salford, England

Honours and Awards:

U.S. Government Award for Safety Engineering Excellence; June 2001

Dr. Charles H. Miller Award; June 2001
(Best Technical Paper presented at the 12th. Canadian Multidisciplinary
Road Safety Conference; London, Ontario; June 10-13, 2001)

Transport Canada, Road Safety and Motor Vehicle Regulation Director General's Award:
March 2001
March 2002

CATAIR President's Choice Award, December, 2006

Lifetime Achievement Award, Canadian Association of Road Safety Professionals,
May 9, 2011

Safety is our passion - analysis is our specialty

Memberships in Scientific and Professional Societies:

Member of the Institute of Physics (MInstP)
Chartered Physicist (CPhys)
Canadian Association of Road Safety Professionals
Canadian Association of Technical Accident Investigators and Reconstructionists
Eastern Ontario Traffic Investigators' Society
Association for the Advancement of Automotive Medicine
Society of Automotive Engineers

Current Employment:

Senior Research Associate
D.J. Dalmotas Consulting, Inc.

Senior Research Scientist
Road Safety Research

Previous Employment:

2007-2008 Executive Director
 Canadian Association of Road Safety Professionals

1993-2007 Chief
 Collision Investigation and Research Division
 Road Safety and Motor Vehicle Regulation Directorate
 Transport Canada

1990-1993 Senior Collision Investigator
 Collision Investigation Division
 Road Safety and Motor Vehicle
 Regulation Directorate
 Transport Canada

1977-1990 Senior Research Associate
 Multi-Disciplinary Accident Research Team
 Faculty of Engineering Science
 The University of Western Ontario
 London, Ontario

1973-1975 Lecturer
 Physics Section, Department of Science
 Salford College of Technology
 Salford, Lancashire, England

Committee Membership:

American Association for Automotive Medicine:

Scientific Programme Committee, 26th Annual Conference, Ottawa, 1982
By-Laws Committee, 1985-87
Membership and Credentials' Committee, AAAM; 1999-2005; Chairman, 2004
Director, 2001-2004

Canadian Multidisciplinary Road Safety Conference:

Scientific Programme Committee, CMRSC-II, Winnipeg, 1983
Chairman, Scientific Programme Committee, CMRSC-III, London, 1984
Scientific Advisory Committee, CMRSC-IX, Montreal, 1994-95
Scientific Advisory Committee, CMRSC-X, Toronto, 1996-97
Scientific Advisory Committee, CMRSC-XI, Halifax, 1998-99
Organizing Committee, CMRSC-XII; London, 1999-2001
Organizing Committee, CMRSC-XIII; Calgary, 2002-03
Chairman, CMRSC-XIV; Ottawa; 2003-04
Scientific Programme Committee, CMRSC-XVIII, Whistler, 2008
Technical Paper Review Committee, CMRSC-XXIII, Montreal, 2013

Society of Automotive Engineers:

Accident Investigation Practices Sub-Committee, 1985-88
Passenger Protection and Safety Technical Paper Review Committee, 1990-2004
Accident Investigation Practices Committee, 1993-2012
Collision Deformation Classification (CDC) Task Force; 1993-2012; Chairman, 2003-2012
Vice Chairman, Mathematics and Science, Ottawa Section; 1994-95
Interior Deformation Classification (IDC) Task Force, 1997

Referee, *Journal of Accident Analysis and Prevention*; 1992-1995

ISO/TC 22/SC 12/WG 7, Traffic Accident Analysis Methodology; 1994-2007

Road Safety and Motor Vehicle Regulation Directorate, Transport Canada:

Directorate Management Committee, 1994-95
Regulatory Steering Committee, 1995-2005

External Examiner; Doctoral Thesis Examining Board; School of Graduate Studies; The University of New Brunswick; 1994

Canadian Association of Road Safety Professionals:

President, 1996-1997
Past President, 1998-1999
Web Master, 1998-2005
Director, 2000-2005
Executive Director, 2007-2008
Editorial Board, 2007-Date

CCMTA Road Safety Data Management Steering Committee, 1997-2007

Referee, *Injury Prevention*; 1998

Referee, NSERC; 1999

NHTSA Motor Vehicle Safety Research Advisory Committee (MVSRA), Event Data Recorder Working Group; 1999-2001

Committee Membership (Cont'd.):

Organizing Committee, Roads, Routes & Responsibilities: A Multi-Disciplinary Journey to Traffic Safety and Injury Prevention, Fourth Annual Injury Prevention Symposium, Regina, Saskatchewan; 2000-01

Motor Vehicle Event Data Recorders Working Group, Project 1616, Institute of Electrical and Electronics Engineers, 2001-2002

Ad-Hoc EDR Working Group; International Harmonized Research Activities; Chairman; 2003-2004

Expert externe; Évaluation des demandes de subventions; Le Fonds québécois de recherche sur la nature et les technologies; 2005

Collision Reconstruction Training Programme Sub-Committee, Canadian Association of Chiefs of Police; 2005

Vulnerable Road Users Task Force, Canadian Council of Motor Transport Administrators; 2005-2007

Organizing Committee, 6th World Conference on Injury Prevention and Control; Montreal; 1999-2002

Motor Vehicle Safety Research Studies:

Multi-Disciplinary Accident Investigation Programme

Motor Vehicle Defect Investigation Programme

Estimation of Actual Seat Belt Usage in the Accident-Involved Population of London, Ontario

Injury Mechanisms to Fully-Restrained Occupants - Phase II - Ontario

Injury Mechanisms to Fully-Restrained Occupants - Phase III - Ontario

Light Truck and Van Collision Investigation Study

Identification of Failure Modes in Occupant-Restraint Webbing

Fully-Restrained Occupant Study II

Passenger Car Collision Investigation Study

Development of a Protocol for Statistical Analysis of Motor Vehicle Accident Data (Level II) Using a Microcomputer

Demonstration of the Capabilities of Level II Accident Databases

Directed Studies:

- Air Bag Deployments
- Moderately-Severe Side Impacts
- Heavy Truck Crashes
- Light Truck and Van Collisions
- Heavy Truck Wheel Separations
- Children in Crashes
- Human Factors
- Causes of Fatal Collisions

Guest Lecturer:

Ontario Traffic Conference Police Traffic Operations Course, Ontario Police College, 1979-91
Traffic Law and Accident Investigation Course, Ontario Police College, 1979-89
Accident Investigation by the University of Western Ontario Multi-Disciplinary Accident Research Team; Nowak ES and German A; Winter Workshop on Accident Investigation, The Advocates' Society; February, 1980
Motor Vehicle Safety; Motive Power Department, Fanshawe College, 1980-83
Motor Vehicle Safety Standards; Road Safety Graduate Course CIV 1502, Department of Civil Engineering, University of Toronto; March, 1985
Motor Vehicle Accident Research; Annual Spring Meeting of the Ontario Coroners' Association; April, 1985
Biomechanics and Injury Scaling; Road Safety Graduate Course CIV 1502, Department of Civil Engineering, University of Toronto; April, 1985
Motor Vehicle Accident and Defect Investigation; Nowak ES, German A, and Tryphonopoulos JP; Annual Seminar of Provincial Prosecutors; London, Ontario; May, 1985
Advanced Accident Investigation Course; Ontario Police College; 1985-89
Driver Education Instructors' Course (DRIV 207); Fanshawe College, London, Ontario; 1986-89
Motor Vehicle Safety - Some Problems! - Some Solutions?; Civil Seminar Series, Faculty of Engineering Science, The University of Western Ontario; November, 1986
Senior Identification Course; Ontario Police College; 1987-88
The Question of Safety - Increasingly Complex; Faculty of Part-Time and Continuing Education Course: Cars of Today and Tomorrow, University of Western Ontario; October, 1987
Physics and Vehicle Dynamics, Advanced Collision Analysis Course; Canadian Police College, Ottawa; 1988-2003
Prevention - Reduction of Incidence of Physical Impairment, Conference on Research Priorities in Childhood Physical Disability; The University of Western Ontario; London, Ontario; May, 1988
Annual Seminar of Provincial Prosecutors; Collingwood, Ontario; June, 1988
First Canadian Multi-Disciplinary Symposium on Road Traffic Injury; Continuing Medical Education, Faculty of Medicine, The University of Western Ontario; May, 1989
Occupant Restraint System Master Training Programme; Winnipeg, Manitoba; April, 1991
Traffic Accident Reconstruction: A Comprehensive Overview; Continuing Education Division, The Technical University of Nova Scotia, Halifax, Nova Scotia; February, 1991
Motor Vehicle Accident Reconstruction; Road Safety Research Centre, Ryerson Polytechnical Institute; Toronto, Ontario; May, 1991
Physics and Vehicle Dynamics, Motor Vehicle Collision Reconstruction Course; Canadian Police College, Ottawa; 1992-1999
Canadian Motor Vehicle Safety Standards; Annual Seminar of the Canadian Association of Technical Accident Investigators and Reconstructionists; Ottawa, Ontario; August, 1991
Standards Making for the Nineties; Annual Seminar of the Vehicle Safety Research Team; Technical University of Nova Scotia; Halifax; November, 1992
Motor Vehicle Collision Investigation; 1983 Eastern Ontario Auto Extrication Competition; Gananoque, Ontario; June, 1993

Guest Lecturer (Cont'd.):

CRASH or Crush?; Eastern Ontario Traffic Investigators' Society Meeting; October, 1993
Motor Vehicle Collision Reconstruction; Continuing Education Division, The Technical
University of Nova Scotia, Halifax, Nova Scotia; May, 1994
Canadian Field Experience with Air Bag Deployments; Special Crash Investigation/NASS Zone
Centre Training Session; NHTSA; Washington, DC; November, 1995
Air Bag Safety; Traffic Committee, Canadian Association of Chiefs of Police; Ottawa, Ontario;
August 25, 1996
Canadian Field Experience with Air Bag Deployments; Grand Rounds; Ste. Justine Hospital,
Montreal, Quebec; October 15, 1996
Safety Features: Air Bags - The Next Generation; I-CAR National Collision Repair Conference;
Vancouver, British Columbia; February 28-March 1, 1997
Air Bag Safety; Ontario Coroners' Association; Niagara-on-the-Lake; April 19, 1997
Air Bag Technology and Collision Performance; East Region Ontario Provincial Police Traffic
Analysts' Seminar; May 5, 1997
Air Bags - A Good Idea or a Menace to Children?; 31st. Annual Meeting of the Canadian
Orthopaedic Association; Hamilton, Ontario; June 3, 1997
Collision Injury Research: A Multi-Disciplinary Approach to Motor Vehicle Safety:
Surgical Rounds, Children's Hospital of Eastern Ontario; September 17, 1997
Grand Surgical Rounds, University of Ottawa; October 21, 1997
Technology and its Effects on Us: Air Bags - Friend or Foe; Saskatchewan Safety Council
Annual Meeting; Saskatoon, Saskatchewan; February 5, 1998
Canadian Air Bag Legislation Update; 1998 I-CAR National Collision Repair Conference;
Ottawa, Ontario; March 6, 1998
Occupant Restraint Systems; Special Problems in Traffic Accident Reconstruction; Institute of
Police Traffic Management; University of North Florida; Jacksonville, Florida; April 22-23,
1998
Air Bags; 1998 CATAIR-NYSTARS Conference; St. Catherines, Ontario; August 22, 1998
Children in Crashes; National Public Safety Organizations (NPSO); Ottawa, Ontario; May 5,
1999
Children in Crashes: Lessons from the Real-World; Pacific Traffic Safety Alliance; Victoria,
BC; June 11, 1999
In-Depth Collision Investigation and Reconstruction; Economical Insurance; Ottawa; September
1, 1999
Accident Reconstruction; Dynamics '99: Annual Conference of Critical Care Nurses; Ottawa,
September 15, 1999
Event Data Recorders; Eastern Ontario Traffic Investigators' Society (EOTIS); Ottawa;
November 30, 1999
School Bus Safety; Grand Surgical Rounds; University of Ottawa; December 15, 1999
Event Data Recorders: Research Goldmine or Big Brother?; CMRSC-XII; London, Ontario;
June 11, 2001
Air Bag Systems and Event Data Recorders; International Association of Coroners and Medical
Examiners; Toronto, Ontario June 12, 2001

Guest Lecturer (Cont'd.):

New Technologies for Collision Avoidance and Vehicle Crashworthiness; German A and Chan J; Roads, Routes and Responsibilities Conference; Regina, Saskatchewan; August 26-29; 2001

Black Boxes or Silver Bullets? – Event Data Recorders in Passenger Vehicles; Roads, Routes and Responsibilities Conference; Regina, Saskatchewan; August 26-29; 2001

Introduction of Event Data Recorders into Canada; Annual Conference of the Manitoba Safety Council; Winnipeg, Manitoba; December 6, 2001

Seat Belts on School Buses; Annual Conference of the Manitoba Safety Council; Winnipeg, Manitoba; December 6, 2001

High-Tech Solutions for Motor Vehicle Safety; Polish Institute of Arts and Sciences in Canada; Ottawa, Ontario; February 26, 2002

Chief Instructor; Advanced Collision Analysis Course; RCMP; Regina, Saskatchewan; August 12-30, 2002

Injury Prevention Through In-Depth Collision Investigation; Road Safety and Injury Prevention Workshop; Ottawa, Ontario; November 26, 2003

Air Bag Research in Canada; EOTIS; Ottawa, Ontario; December 11, 2003

Web-Based Data Collection and Reporting System; Royal Canadian Mounted Police; Ottawa, Ontario; February 10, 2004

Motor Vehicle Safety in Canada: A Federal Perspective; University of New Brunswick Transportation Group; Fredericton, New Brunswick; March 19, 2004

Collision Investigation Techniques; Forensic Analysis of Motor Vehicle Collisions Workshop; Ottawa, Ontario; June 27, 2004

Event Data Recorders; Forensic Analysis of Motor Vehicle Collisions Workshop; Ottawa, Ontario; June 27, 2004

Field Experience with EDR's in Canada; FIA Foundation Seminar on Electronic Data Recording in Road Traffic Accidents; London, England; July 8, 2004

Page From a Physicist's Notebook: Work is mad - it takes energy!
EOTIS; Ottawa, ON; March 4, 2005

F-Division RCMP Collision Analysts' Seminar; September 7, 2005

SOTIS; London, ON; November 2, 2005

EOTIS; Ottawa, ON; November 21, 2012

Black Boxes or Silver Bullets? – Event Data Recorders; SAE Ottawa Section; April 12, 2006

Collision Reconstruction Course; Ontario Police College; April 20, 2006

Collision and Defect Investigation Symposium; RONA Kinetics and Associates; Vancouver, BC; November 16, 2006

EOTIS; Ottawa, ON; December 12, 2006

Momentum 101 – The Principle of Conservation of Linear Momentum

Momentum 102 – Vector Analysis and Momentum

EOTIS; Ottawa, ON; March 29, 2007

Momentum 103 – The Algebraic Solution for Conservation of Momentum

Momentum Workshop; SOTIS; London, Ontario; May 4, 2007

Motorcycle Reconstruction Course; MVC Forensics and Ottawa Police Service; Professional Development Centre, Algonquin College; Ottawa, Ontario; May 5, 2009

Stopping on a dime - or perhaps on a loonie!; EOTIS, Ottawa, ON; November 21, 2012

Course Coordinator and Lecturer:

Motor Vehicle Occupant Restraint Systems Seminar, Multi-Disciplinary Accident Research Team, The University of Western Ontario; November, 1986
An Introduction to Collision Investigation and Reconstruction Techniques; Faculty of Engineering Science, The University of Western Ontario; July, 1987
Accident Investigation Workshop; Ryerson Polytechnical Institute; December, 1988
SAS Workshop; Ryerson Polytechnical Institute; January, 1990
SAS Workshop; Transport Institute, The University of Manitoba; August, 1990
Canadian MDAI Teams - Collision Investigation and Reconstruction Course:
University of British Columbia, Vancouver; June, 1991
Transport Canada, Ottawa; March, 1994
Transport Canada, Ottawa; November, 1994
Transport Canada, Ottawa; March, 1995
Transport Canada, Ottawa; August, 1999
Event Data Recorder Workshop; German A and Chan J; RCMP, SGI and Regina Police Service; Regina, Saskatchewan; August 30, 2001
Collision Investigation and Reconstruction Course; Road Safety and Motor Vehicle Regulation Directorate, Transport Canada; Ottawa, 2005-06

Accreditation as an Expert Witness in the Province of Ontario:

Coroner's Court
District Court
County Court
Supreme Court

Appearance at Ontario Royal Commission:

Multi-Disciplinary Accident Investigation; Nowak ES and German A; Ontario Commission on Truck Safety; London, Ontario; May, 1982

Publications:

- Dance DM, German A, Nowak ES, and Green RN; An In-Depth Analysis of a Multiple-Fatal, Head-On, Motor-Vehicle Collision; *Proc. 25th. Conf. AAAM*; pp. 69; October, 1981
- German A, Nowak ES, and Green RN; Vehicle Dynamics: Free-Flight Trajectory Analysis; *Proc. 25th Conf. AAAM*; pp. 435; October, 1981
- German A; Collision Kinematics and Human Tissue Injury; *Proc. of the International Association of Coroners and Medical Examiners 1982 Seminar*; pp. 159; June, 1982
- German A; Vehicle Factors in Motor-Vehicle Collisions; *Proceedings of the Seminar: Traffic Crash Analysis -The Forensic Aspect*, Department of Continuing Education, The Law Society of Upper Canada; November, 1982
- Duerden IJ, German A, Lidzbarski ES, and Nowak, ES; Identification of Failure Modes in Occupant-Restraint Webbing; Final Report to the Director General, Road and Motor Vehicle Traffic Safety, Transport Canada under Contract Number DTS 340-502; January, 1983
- Dance DM, German A, and Nowak ES; Vehicle Crashworthiness and Occupant Protection; *Proc. CMRSC-II*; Winnipeg, Manitoba; June, 1983
- Duerden IJ, German A, and Nowak ES; Component Failure Recognition for Motor Vehicle Accident and Defect Investigators; *Proc. CMRSC-II*; Winnipeg, Manitoba; June, 1983
- German A; Multi-Disciplinary Accident Investigation Teams in Canada; *The Safety Network*; Vol. 1, No. 1; April, 1985
- German A, Gorski ZM, and Nowak ES; Collision Reconstruction Techniques: Collision Scene Analysis; *Proc. CMRSC-IV*; Montreal, Quebec; May, 1985
- Gorski ZM, German A, and Nowak ES; Collision Reconstruction Techniques: Vehicle Damage Analysis; *Proc. CMRSC-IV*; Montreal, Quebec; May, 1985
- German A, Duncanson ME, and Nowak ES; An Introduction to Injury Scaling and Injury Coding Schemes; Presented at the *Annual Meeting of Canadian Multi-Disciplinary Accident Research Teams*; Blainville, Quebec; May, 1985
- Nelson WD, Kinney JR, and German A (Editor); *Proceedings of the Accident Investigation Practices Subcommittee Workshop I*; Published by Task Group 1, Accident Investigation Practices Subcommittee, Society of Automotive Engineers; September, 1985
- German A; The Identification Officer and In-Depth Collision Analysis; Presented at the *Michigan/Ontario Identification Conference*; London, Ontario; October, 1985
- Dalkie HS, German A, Panlilio VP, and Richards WE; *PCS Coding Manual*; Published by the Road Safety and Motor Vehicle Regulations Directorate,
- Green RN, German A, Gorski ZM, Nowak ES, and Tryphonopoulos JP; Improper Use of Occupant Restraints: Case Studies from Real-World Collisions; *Proc. 30th. Conf. AAAM*; pp. 423; October, 1986
- Gorski ZM, German A, and Nowak ES; Video Collision Reconstruction Using Physical Evidence; *Transportation Research Record 1111*, Transportation Research Board, National Research Council, Washington, DC; pp. 1; 1987
- Green RN, German A, Gorski ZM, Nowak ES, Tryphonopoulos JP, and Mason DF; Unsatisfactory Roadside Barrier System Performance in Real-World Collisions: Lessons to be Learned; *SAE 870077*; 1987
- German A, Gorski ZM, Green RN, and Nowak ES; PCS - The First Two Years of a Passenger Car Study in Southwestern Ontario; *Proc. CMRSC-V*; Calgary, Alberta; pp. 317; June, 1987

Publications (Cont'd.):

- Nowak RS, Nowak ES, Tryphonopoulos JP, and German A; A Fundamental Momentum Energy Model for Central Motor Vehicle Collisions and a Critical Review of the Damage Algorithm for CRASH; *Proc. CMRSC-V*; Calgary, Alberta; pp. 221; June, 1987
- German A and Nowak ES; Motor Vehicle Safety Research in Canada; Presented at the *11th. Meeting of the Int. Assoc. of Forensic Sciences*; Vancouver, BC; August, 1987
- Green RN, German A, Gorski ZM, Nowak ES, and Dance DM; Abdominal Injuries Associated with the Use of Rear-Seat Lap Belts in Real-World Collisions; *Proc. 1987 Int. IRCOBI Conf.*; Birmingham, England; September, 1987
- Green RN, German A, Gorski ZM, Nowak ES, and Dance DM; Misuse of Three-Point Occupant Restraints in Real-World Collisions; *Proc. 1987 Int. IRCOBI Conf.*; Birmingham, England; September, 1987
- Green RN, German A, Gorski ZM, and Nowak ES; Case Studies of Severe Frontal Collisions Involving Fully-Restrained Occupants; *Proc. 31st. AAAM Conf.*; September, 1987
- Nowak RS, Nowak ES, German A, and Gorski ZM; A Fundamental Momentum Energy Model for Central Automotive Collisions and an Analytical Investigation of Restitution; *Proc. Ninth Symposium on Engineering Mechanics*; London, Ontario; May, 1988
- German A, Gorski ZM, Green RN, and Nowak ES; Side Impacts: Test Crashes and Real-World Collisions; *Proc. 12th. ESV Conf.*; Goteborg, Sweden; pp. 929-934; May, 1989
- German A, Gorski ZM, Green RN, and Nowak ES; Rollover Collisions: A Continuing Problem for Occupant Mortality; Presented at *CMRSC-VI*; Fredericton, New Brunswick; June, 1989
- Gorski ZM, German A, and Nowak ES; A Preliminary Examination of Factors Affecting the Location of Seat-Belt Loading Marks; Presented at *the 15th. International Forum on Traffic Safety Records Systems*; El Paso, Texas; July, 1989
- German A; *PCS Data Analysis System User's Guide (Volumes I-III)*; Multi-Disciplinary Accident Research Team, The University of Western Ontario; August, 1989
- Gorski ZM, German, A., and Nowak, ES; Examination and Analysis of Seat Belt Loading Marks; *J. Forensic Sciences, JFSCA*, Vol. 35, No. 1; pp. 69-79; 1990
- Dalmotas DJ, German A, Gorski ZM, Green RN, and Nowak ES; Prospects for Improving Side Impact Protection Based on Canadian Field Accident Data and Crash Testing; *SAE 910321*; 1991
- Dance DM, German A, and Myers RV; Canadian Motor Vehicle Safety Standards - Collision Avoidance; *Proc. CMRSC-VII*; Vancouver, BC; pp. 22-34; 1991
- Dance DM, German A, and Myers RV; Canadian Motor Vehicle Safety Standards - Crash Protection; *Proc. CMRSC-VII*; Vancouver, BC; pp. 85-100; 1991
- Green RN, McClafferty KJ, Nowak ES, Tiessen PFW, and German A; The Occurrence of Fatality to Restrained Occupants of Passenger Cars in Southwestern Ontario; *Proc. CMRSC-VII*; Vancouver, BC; pp. 102-115; 1991
- Green RN, German A, Nowak ES, Dalmotas DJ and Stewart DE; Fatal Injuries to Restrained Passenger Car Occupants: Crash Modes and Kinematics of Injury; *Proc. 35th. Conf. AAAM*; Toronto, Ontario; pp. 103-117; October, 1991
J. Acc. Anal. and Prev.; Vol. 26 No. 2; pp. 207-214; 1994
- Dalmotas DJ, Hurley RM, and German A; Air Bag Deployments Involving Restrained Occupants; *SAE 950868*; 1995

Publications (Cont'd.):

- Dalmotas DJ, German A, Hendrick BE, and Hurley RM; Air Bag Deployments: The Canadian Experience; *J.Trauma*; April, 1995
- Dalmotas DJ, German A, and Welbourne ER; Directed Studies: A Focused Approach to Collision Investigation; *Proc. CMRSC-IX*; Montreal; 1995
- German A, Hendrick BE, Schmidt RK, and Wiwchar G; Conservation of Linear Momentum: Computer-Based Solutions; *Proc. CMRSC-IX*; Montreal; 1995
- Comeau J-L, Dalmotas DJ, German A, Trepanier D, and Monk B; Crush Measurements for Side Impacts Using a Total Station; *SAE 960100*; 1996
- German A, Dalmotas DJ, McClafferty KJ, and Nowak ES; Real-World Collision Experience for Airbag Technology; Advances in Transportation Systems, *Proc. CSME Forum 1996*; Hamilton ON; 1996
- Dalmotas DJ, German A, Hurley J and Digges K; Air Bag Deployment Crashes in Canada; *Proc. 15th. ESV Conf.*; pp. 155-168; Melbourne, Australia; 1996
- Dalmotas DJ, Hurley RM and German A; Supplemental Restraint Systems: Friend or Foe to Belted Occupants?; *Proc. 40th. AAAM Conf.*; pp. 63-75; Vancouver BC; 1996
- German A; Canadian Data; *Recovery*; Vol. 7 No. 3; 1996
- McClafferty KJ, Chan J, German A, and Nowak ES; The Fundamentals of Damage Analysis; *Proc. CMRSC-X*; Toronto, Ontario; June, 1997
- McClafferty KJ, Chan J, Shkrum MJ, and German A; A Multi-Disciplinary Study of a Canadian Airbag Fatality; *Proc. CMRSC-X*; Toronto, Ontario; June, 1997
- German A, Dalmotas DJ, Hurley RM, and Szentmiklosy AM; Field Accident Experience with Passenger Air Bags in Canada; *Proc. CMRSC-X*; Toronto, Ontario; June, 1997
- German A, Dalmotas D, Comeau J-L, Monk B, Contant P, Gou M, Carignan S, Lussier LP, Newman J, and Withnall C; In-Depth Investigation and Reconstruction of an Air Bag Induced Child Fatality; *Proc. 16th ESV Conf.*; pp. 1126-1134; Windsor, Ontario; 1998
- German A, Dalmotas D, and Hurley RM; Air Bag Collision Performance in a Restrained Occupant Population; *Proc. 16th ESV Conf.*; pp. 989-996; Windsor, Ontario; 1998
- McCaffery M, German A, Lalonde F and Letts M; Air Bags and Children: A Potentially Lethal Combination; *J. Pediatric Orthopaedics*; 19:60-64; 1999
- Comeau J-L, German A and Monk B; Heavy Truck Wheel Separations: An In-Depth Study of Real-World Incidents; *Proc. CMRSC-XI*; Halifax, Nova Scotia; May 9-12, 1999
- Dalmotas DJ, German A and Hurley RM; Second Generation Air Bag Systems: A Preliminary Evaluation of Field Accident Experience; *Proc. CMRSC-XI*; Halifax, Nova Scotia; May 9-12, 1999
- McClafferty KJ, Shkrum MJ, German A, Tiessen PF and Nowak ES; Driver Fatalities in Frontal Impacts; *Proc. CMRSC-XI*; Halifax, Nova Scotia; May 9-12, 1999
- Howard AW, Letts RM, Mackay M, German A, Gardner W and Ste Marie S; Children in Crashes: A Multi-Disciplinary Research Programme; *Proc. CMRSC-XI*; Halifax, Nova Scotia; May 9-12, 1999
- Dalmotas D, German A, Comeau J-L, Monk B and Hurley R; Correlation of Field Accident Data with Dummy Responses Measured in Side Impact Crash Tests; *Proc. JSAE Spring Convention*; Yokohama, Japan; May 19-21, 1999.

Publications (Cont'd.):

- German A, Gardner WT, Howard AW, Mackay M and Letts RM; Mechanisms of Lap Belt and Airbag Injuries in Children; *Proc. AAAM/IRCOBI Child Occupant Protection Session*; pp. 81-93; Barcelona, Spain; September 22, 1999
- German A; Event Data Recorders: A New Resource for Traffic Safety Research?; *The Safety Network*; pp. 1-4; November, 2000
- Kontio K, Letts M and German A; Airbags and Children: A Mixed Blessing; *Proc. 68th Annual Meeting of the American Association of Orthopaedic Surgeons*; San Francisco, California; February 28-March 4, 2001
- Dalmotas D, German A and Tylko S; The Crash And Field Performance Of Side-Mounted Airbag Systems; Paper No. 442; *Proc. 17th ESV Conf.*; Amsterdam, The Netherlands; June 4-7, 2001
- German A, Comeau J-L, Monk B, McClafferty KJ, Tiessen P, Nowak ES, Chan J and Lo G; The Use of Event Data Recorders in the Analysis of Real-World Crashes; *Proc. CMRSC-XII*; London, Ontario; June 10-13, 2001
- Linda Rothman L, McKeag AM, Howard A, Reid D, Letts M, Comeau J-L, Monk B and German A, Ejections from Child Restraint Systems in Rollovers: Observations from Real-World Collisions, *Proc. CMRSC-XII*; London, Ontario; June 10-13, 2001
- McClafferty KJ, Tiessen P, Wetmore S, Bloch-Hanson D, and German A; Fatalities Involving Tilt-Bed Trucks: Underride and Poor Conspicuity; *Proc. CMRSC-XII*; London, Ontario; June 10-13, 2001
- Lapner PC, McKay M, Howard AW, Gardner B, German A and Letts RM ; Children in crashes: Mechanisms of injury and restraint systems; *Can. J. Surgery*; Vol. 44 No. 6; December, 2001
- German A and Chan J; Crash Data Retrieval Systems applied to Real-World Collision Reconstruction; Presented at *ICRASH 2002 International Crashworthiness Conference*; Melbourne, Australia; February 25-27, 2002
- Shkrum MJ, McClafferty KJ, Nowak ES and German A; Driver and Front Seat Passenger Fatalities Associated with Air Bag Deployment Part: I A Canadian Study; *J. Forensic Sciences*; Vol. 47, No 5; pp. 1028-1034; Paper ID JFS2001364_475; September 2002
- Shkrum MJ, McClafferty KJ, Nowak ES and German A; Driver and Front Seat Passenger Fatalities Associated with Air Bag Deployment Part: II A Review of Injury Patterns and Investigative Issues; *J. Forensic Sciences*; Vol. 47, No 5; pp. 1035-1040; Paper ID JFS2001364_475; September 2002
- German A, Dalmotas D, Tylko S, Comeau J-L and Monk B; Air Bag Induced Fatalities in Canada; *Proc. CMRSC-XIII*; Banff, Alberta; June 8-11, 2003
- McClafferty K, Tiessen P, Shkrum M, Chan J, Deyell P, German A, White J, Glazduri V, Comeau J-L and Monk B; A Study of Pre-Crash Events Using Information Retrieved from Event Data Recorders; *Proc. CMRSC-XIII*; Banff, Alberta ; June 8-11, 2003
- Howard A, Moses McKeag A, Rothman L, German A, Hale I, Emam A, Altenhof B and Turchi R; Cervical Spine Injuries in Children Restrained in Forward Facing Child Restraints; *Proc. CMRSC-XIII*; Banff, Alberta ; June 8-11, 2003
- Howard A, Moses McKeag A, Rothman L, Pazmino-Canizares J, German A, Monk B, Comeau J-L, Hale I, Mills D and Blazeski S; Children in Side Impact Motor Vehicle Crashes: Seating Position and Injury Mechanism; *Proc. CMRSC-XIII*; Banff, Alberta ; June 8-11, 2003

Publications (Cont'd.):

- Howard A, Moses McKeag A, Rothman L, German A, Comeau J-L and Monk B; Ejections of Young Children in Motor Vehicle Crashes; *J. Trauma*; 55(1); pp. 126-129; July, 2003
- German A, Dalmotas D, Tylko S, Comeau J-L and Monk B; Air Bag Research in Canada: The Development of Knowledge-Based Countermeasures; *Canadian Injury Prevention and Safety Promotion Conference*; Ottawa, Ontario; November 23-25, 2003 (Published abstract)
- McClafferty K and German A; Event Data Recorders: The Right to Privacy vs. Society's Right to Know; *The Safety Network*; pp. 7-9; June, 2004
- Comeau J-L ; German A and Floyd D; Comparison of Crash Pulse Data from Motor Vehicle Event Data Recorders and Laboratory Instrumentation; *Proc. CMRSC-XIV*; Ottawa, Ontario; June 27-30, 2004
- McClafferty KJ, Tiessen PF and German A; Real World Comparisons of Calculated and EDR Recorded Delta-V; *Proc. CMRSC-XIV*; Ottawa, Ontario; June 27-30, 2004
- German A; Page From a Physicist's Notebook: Work is mad - it takes energy!; *Proc. CMRSC-XV*; Fredericton, New Brunswick; June 5-8, 2005
- McClafferty KJ, Tiessen PF and German A; The Use of Event Data Recorders in the Analysis of Real-World Crashes: Tales from the Silent Witness, in "*Contemporary Issues in Traffic Research and Road User Safety*"; Nova Science; 2005
- Green RN, McClafferty KJ and German A; A Review of Jurisprudence Regarding Event Data Recorders; *2nd Annual National Civil Litigation Conference*; Canadian Bar Association; Toronto, Ontario; April 28-29, 2006
- Boase P, Belluz L, Burns P, Comeau J-L, German A, Jonah B, Monk B, White J, Bowron D, Edens P, Kent G and McCallum A; Multidisciplinary Study of the Causes of Fatal Collisions; *Proc. CMRSC-XVI*; Winnipeg, Manitoba; June 11-14, 2006
- Chan J, LeDrew P and German A; Fatal Collision Causation and Potential Counter-measures; *Proc. CMRSC-XVI*; Winnipeg, Manitoba; June 11-14, 2006
- McClafferty KJ, Tiessen PF, German A and Comeau J-L; A Preliminary Comparison of Real World Frontal Impacts and Staged Crash Tests; Presented at *CMRSC-XVI*; Winnipeg, Manitoba; June 11-14, 2006 (Published abstract)
- Tylko S, German A, Dalmotas D and Bussi eres A; Improving Side Impact Protection for the Average Man: The Development of a Harmonized Pole Test Procedure; *International IRCOBI Conference*; Madrid, Spain; September 20-22, 2006
- German A; *SAS Analysis of Directed Studies*; Transport Canada; September, 2006
- German A; *SAS Analysis of Directed Studies for External Researchers - Air Cushion Restraint Study*; Transport Canada; September, 2006
- German A, Comeau J-L, McClafferty KJ and Green RN; Event Data Recorders and Traffic Safety Research; *Proc. 20th ITMA World Congress*; 16-18 October, 2006; Melbourne, Australia (Published abstract)
- German A; Momentum 101 – The Principle of Conservation of Linear Momentum; *EOTIS Newsletter*; Vol. 4, No.2; pp. 3-11; December, 2006
- German A; Momentum 102 – Vector Analysis and Momentum; *EOTIS Newsletter*; Vol. 4, No.2; pp. 12-24; December, 2006
- German A; Momentum 103 – The Algebraic Solution for Conservation of Momentum; *EOTIS Newsletter*; Vol. 5, No.1; pp. 7-20; March, 2007

Publications (Cont'd.):

- German A, Comeau J-L, Monk B, White J and McClafferty K; Momentum and Event Data Recorders; *Proc. CMRSC-XVII*; Montreal, Quebec; June 3-6, 2007
- German A, Comeau J-L, McClafferty KJ, Shkrum MJ and Tiessen PF; Event Data Recorders in the Analysis of Frontal Impacts; *Proc. 51st Conf. AAAM*; Melbourne, Australia ; October 15-16, 2007
- McClafferty K and German A; High-Tech Motor Vehicle Safety Systems; *Proc. CMRSC-XVIII*; Whistler, BC; June 8-11, 2008
- Dalmotas DJ, German A and Comeau J-L; Crash Pulse Analysis using Event Data Recorders; *Proc. CMRSC-XIX*, Saskatoon, SK, June 8-10, 2009
- Comeau J-L, Dalmotas DJ and German A; Evaluation of the Accuracy of Event Data Recorders in Chrysler Vehicles in Frontal Crash Tests; *Proc. CMRSC-XXI*; Halifax, Nova Scotia; May 8-11, 2011
- Comeau J-L, Dalmotas DJ and German A; Event Data Recorders in Toyota Vehicles; *Proc. CMRSC-XXI*; Halifax, Nova Scotia; May 8-11, 2011
- Comeau J-L, German A and Dalmotas D; Crash Pulse Data from Event Data Recorders in Rigid Barrier Tests; Paper Number 11-0395; 22nd International Technical Conference on the Enhanced Safety of Vehicles; Washington, DC; June, 2011
- German A; Stopping on a dime - or perhaps on a loonie!; Presented at EOTIS, Ottawa, ON; November 21, 2012. (Full-text paper available at: http://www.rsxinternational.org/roadsafetyresearch/pages_physicists_notebook.htm)
- German A; Pedestrian Safety through Vehicle-Based Countermeasures; *The Safety Network*; pp. 6-7; Issue 2, May 2013
- German A; Side Guards on Heavy Trucks; *The Safety Network*; pp. 14-16; Issue 2, May 2013
- Lehouillier T, Holmes W and German A; The Use of Event Data Recorders in the Analysis of Unintended Acceleration Incidents; *Proc. CMRSC-XXIII*; Montreal, Quebec; May, 2013
- Prasad P, Dalmotas D and German A; An Examination of Crash and NASS Data to Evaluate the Field Relevance of IIHS Small Offset Tests; *SAE Int. J. Trans. Safety*; Vol. 2 No. 2; 2014
- Dalmotas D, German A and Prasad P; Frontal Corner Impacts – Crash Tests and Real-World Experience; Presented at the 6th. International ESAR Conference; Hannover, Germany; June 20-21, 2014
- German A; Advanced Event Data Recorders; *The Safety Network*; pp. 9-12; Issue 4, 2014
- German A; Improving Rear Visibility with Video Technology; *The Safety Network*; pp. 12-13; Issue 4, 2014
- Prasad P, Dalmotas DJ and German A; The Field Relevance of NHTSA's Oblique Research Moving Deformable Barrier Tests; Paper No. 2014-07; *Stapp Car Crash Journal*; Volume 58; pp. 175-196; November, 2014
- German A, Dalmotas DJ, Prasad P and Comeau J-L; Ejections and Fatalities in Single-Vehicle Rollover Crashes: A Question of Restraint; *Proceedings of the 25th CARSP Conference*; Ottawa, ON; May 27-30, 2015
- Prasad P, Dalmotas DJ and German A; The Incidence and Severity of Small Overlap Frontal Crashes in NASS-CDS; Paper No. 15-0182-O; *Proc. 24th ESV Conf.*; Gothenburg, Sweden; June 8-11, 2015

Publications (Cont'd.):

Comeau J-L, Holmes W, Monk B, Dalmotas DJ, German A, Schramm S, Thannhauser S and Good C; The Application of Event Data Recorders to Vehicle Safety Research; Proceedings of the 27th CARSP Conference; Toronto, ON; June 18-21, 2017

German A; Autonomous Trucks; The Safety Network; pp. 20-22; Issue No. 4; 2017

German A; Truck Platooning Research in Canada; The Safety Network; pp. 18-19; Issue No. 4; 2017

German A; In-Vehicle Alcohol Detection; The Safety Network; Issue No. 2; 2018

Comeau J-L, Monk B, Boase P, Charlebois D, Burns P and German A; Commercial Vehicles and Vulnerable Road Users; Proc. 29th CARSP Conference; Calgary, AB; May 26-29, 2019

Comeau J-L and German A; Recent Advances in EDR Technology; The Safety Network; pp. 21-25; Issue No. 4; 2019

German A; Brief overview of some of the advanced driver assistance systems (ADAS); pp. 26-28; The Safety Network; Issue No. 4; 2019