

Alan C. Donelson, Ph.D.
Publications and Selected Presentations

Minimum Continuing Legal Education (MCLE) Provider

The State Bar of California

Provider Number 17793

“A Seminar on Drug Recognition Evaluation (DRE)”

Approved for the Period July 18, 2015, to July 17, 2017

Total Credit Hours Approved = 6.00

Subfield credits approved: 3.00 = Substance Abuse/Mental Illness Hours

Alcohol, Other Drugs, and Safety

1. Donelson, A.; Schmidt-Hargrave, R.; Kennett, K.; Ramachandran, K.; Cheng, L.; and Thibault, L. 1997. Alcohol as an injury-aggravating factor. In: **T’97, Proceedings of the 14th International Conference on Alcohol, Drugs, and Traffic Safety**, Volume 1, ed. C. Mercier-Guyon, pp. 125-130. Annecy, France: Centre d’Etudes et de Recherches en Médecine du Trafic.
2. Donelson, A.C.; Kelkar, R; and Lau, E. 1997. Alcohol, boating accidents, and the interpretation of BAC. In: **T’97, Proceedings of the 14th International Conference on Alcohol, Drugs, and Traffic Safety**, Volume 2, ed. C. Mercier-Guyon, pp. 533-538. Annecy, France: Centre d’Etudes et de Recherches en Médecine du Trafic.
3. Cimbura, G.; Lucas, D.M.; Bennett, R.C.; and Donelson, A.C. 1990. Incidence and toxicological aspects of cannabis and ethanol detected in 1394 fatally injured drivers and pedestrians in Ontario (1982-1984). **Journal of Forensic Sciences** 35(5): 1035-1041.
4. Simpson, H.M.; Mayhew, D.R.; Courchesne, G.M.G.; Wood, K.N.; and Donelson, A.C. 1990. **Consommation d'alcool chez les personnes décédées dans des accidents de véhicules routiers: Canada 1988**. Ottawa, Ontario: The Traffic Injury Research Foundation of Canada.
5. Donelson, A.C. 1990. **National Trends in Alcohol Use Among Drivers Involved in Fatal Highway Crashes: 1982 - 1989**. Report no. FaAA-SF-R-90-11-14. Menlo Park, California: Failure Analysis Associates, Inc.
6. Donelson, A.C. 1989. **The Alcohol-crash Problem and Its Persistence: The Need to Deal Effectively with the Hard Core of Drinking Drivers**. Paper presented to the *34th International Institute on the Prevention and Treatment of Alcoholism*, Pontault-Combault, France, June 1989. Ottawa, Ontario: Traffic Injury Research Foundation of Canada.
7. Donelson, A.C.; Walsh, P.J.; and Courchesne, G.M.G. 1989. **Alcohol Use Among Persons Fatally Injured in Motor Vehicle Accidents: Canada, 1987**. Ottawa, Ontario: Traffic Injury Research Foundation of Canada.
8. Donelson, A.C.; Courchesne, G.M.G.; and Walsh, P.J. 1989. **Drinking and Driving in Ontario: Statistical Yearbook**. Toronto: The Ministry of the Attorney General.
9. Donelson, A.C. 1989. Review of *Drugs and Driving: Proceedings of the First International Symposium on Prescription Drugs and Driving Performance*, eds. J.F. O'Hanlon and J.J. de Gier. Taylor & Francis, London. **Accident Analysis and Prevention** 21(4): 402-404.

10. Donelson, A.C.; Beirness, D.J.; Haas, G.C.; and Walsh, P.J. 1989. **The Role of Alcohol in Fatal Traffic Crashes: British Columbia, 1985-1986.** Ottawa, Ontario: Traffic Injury Research Foundation of Canada.
11. Donelson, A.C. (with Simpson, H.M., Mayhew, D.R., et al.). 1989. **The Incidence and Role of Alcohol and Other Drugs in Fatal Transportation Accidents in Canada.** Ottawa, Ontario: Transport Canada, Strategic Policy Development, Policy and Coordination.
12. Donelson, A.C. 1988. The alcohol-crash problem. In: **The Social Control of Drinking and Driving**, eds. M. Lawrence, J. Snortum, and F. Zimring, pp. 3-40. Chicago: The University of Chicago Press.
13. Walsh, P.J.; Beirness, D.J.; Haas, G.C.; and Donelson, A.C. 1988. **Alcohol Use by Persons Fatally Injured in Motor Vehicle Accidents: 1986.** Report No. TP-8156E-86. Ottawa, Ontario: Transport Canada, Road Safety and Motor Vehicle Regulation Directorate.
14. Donelson, A.C.; Beirness, D.J.; and Simpson, H.M. 1988. **Beverage Alcohol Concentration and Traffic Safety.** Ottawa, Ontario: Traffic Injury Research Foundation of Canada.
15. Donelson, A.C.; Simpson, H.M.; Mayhew, D.R.; Courchesne, G.; Walsh, P.J.; and Beirness, D.J. 1988. **Saskatchewan's Driving Without Impairment Program: An Assessment of Its Impact.** Regina: Saskatchewan Education.
16. Donelson, A.C.; Beirness, D.J.; and Walsh, P.J. 1988. **Social and Economic Consequences of Fatal Traffic Crashes Involving Alcohol-impaired Driving. Ontario, 1982-1986.** Toronto, Ontario: The Ministry of the Attorney General.
17. Donelson, A.C.; Beirness, D.J.; and Walsh, P.J. 1988. **Deaths Among Drinking Drivers During December in Ontario.** Toronto, Ontario: The Ministry of the Attorney General.
18. Donelson, A.C.; Beirness, D.J.; Mayhew, D.R.; and Simpson, H.M. 1987. **Youth, Alcohol, and Traffic Accidents: Past Research and Future Directions.** Ottawa, Ontario: The Department of Justice, Canada.
19. Donelson, A.C.; Beirness, D.J.; and Mayhew, D.R. 1987. **The Drinking-age Issue: A Critical Examination.** Ottawa, Ontario: Traffic Injury Research Foundation of Canada.
20. Donelson, A.C.; Walsh, P.J.; and Haas, G.C. 1987. **Alcohol Use by Persons Fatally Injured in Motor Vehicle Accidents: 1985.** Report No. TP-8156E-85. Ottawa, Ontario: Transport Canada, Road Safety and Motor Vehicle Regulation Directorate.
21. Donelson, A.C. 1987. Preventive measures in alcohol, other drugs, and traffic safety: The state of the art of comparative research. In: **Alcohol, Drugs and Traffic Safety - T86**, eds. P.C. Noordzij and R. Roszbach, pp. 149-158. International Congress Series 721. Amsterdam: Excerpta Medica.
22. Donelson, A.C. 1987. Cannabis and alcohol use among drivers and pedestrians fatally injured in traffic crashes. In: **Alcohol, Drugs and Traffic Safety - T86**, eds. P.C. Noordzij and R. Roszbach, pp. 271-274. International Congress Series 721. Amsterdam: Excerpta Medica.

23. Mayhew, D.R.; Donelson, A.C.; and Simpson, H.M. 1987. Alcohol and cannabis among fatally injured motorcyclists. In: **Alcohol, Drugs and Traffic Safety - T86**, eds. P.C. Noordzij and R. Roszbach, pp. 267-270. International Congress Series 721. Amsterdam: Excerpta Medica.
24. Donelson, A.C.; Beirness, D.J.; and Haas, G.C. 1987. **Canadian Data on Alcohol-impaired Driving: An Inventory and An Assessment**. Ottawa, Ontario: The Department of Justice, Canada.
25. Donelson, A.C.; Beirness, D.J.; Haas, G.C.; and Walsh, P.J. 1987. **Alcohol and Fatal Traffic Crashes in British Columbia During 1985**. Ottawa, Ontario: Traffic Injury Research Foundation of Canada.
26. Donelson, A.C.; Beirness, D.J.; and Walsh, P.J. 1987. **Deaths Among Drinking Drivers in Ontario and Other Provinces: Seasonal Trends**. Toronto, Ontario: The Ministry of the Attorney General.
27. Donelson, A.C.; Beirness, D.J.; Mayhew, D.R.; and Simpson, H.M. 1987 **Blood Alcohol Concentration (BAC) Limits in Impaired-driving Laws: Their History, Scientific Basis, and Effectiveness**. Ottawa, Ontario: Traffic Injury Research Foundation of Canada.
28. Donelson, A.C.; Simpson, H.M.; and Mayhew, D.R. 1986. **Changes in the Alcohol-crash Problem During December and January: Provincial Comparisons**. Toronto, Ontario: The Ministry of the Attorney General.
29. Donelson, A.C.; Haas, G.C.; and Walsh, P.J. 1986. **Deaths Among Ontario's Drinking Drivers During December: An Update**. Toronto, Ontario: The Ministry of the Attorney General.
30. Donelson, A.C.; Haas, G.C.; and Walsh, P.J. 1986. **The Etiology of Fatal Traffic Accidents Involving Alcohol and Cannabis**. Ottawa, Ontario: Department of National Health and Welfare, National Health Research and Development Program.
31. Donelson, A.C., and Kaite, B. 1986. **Impaired-driving Legislation: Comparisons Among Countries**. Ottawa, Ontario: The Department of Justice, Canada.
32. Mayhew, D.R.; Donelson, A.C.; Beirness, D.J.; and Simpson, H.M. 1986. Youth, alcohol and relative risk of crash involvement. **Accident Analysis and Prevention** 18(4): 273-287.
33. Donelson, A.C., and Simpson, H.M. 1985. Research and the real world of people: Stepping down from the ivory tower. In: **Alcohol, Drugs and Traffic Safety. Proceedings of the Ninth International Conference on Alcohol, Drugs and Traffic Safety - San Juan, Puerto Rico 1983**, eds. S. Kaye and G.W. Meier, pp. 77-84. National Highway Traffic Safety Administration report no. DOT-HS-806-814. Washington, D.C.: The U.S. Department of Transportation.
34. Donelson, A.C. 1985. Facing the future in alcohol and traffic safety. In: **Alcohol, Drugs and Traffic Safety. Proceedings of the Ninth International Conference on Alcohol, Drugs and Traffic Safety - San Juan, Puerto Rico 1983**, eds. S. Kaye and G.W. Meier, pp. 351-364. National Highway Traffic Safety Administration technical report no. DOT-HS-806-814. Washington, D.C.: The U.S. Department of Transportation.

35. Beirness, D.J., and Donelson, A.C. 1985. Noncompliance with per se laws: Ignorance or inability? In: **Alcohol, Drugs and Traffic Safety. Proceedings of the Ninth International Conference on Alcohol, Drugs and Traffic Safety - San Juan, Puerto Rico 1983**, eds. S. Kaye and G.W. Meier, pp. 155-167. National Highway Traffic Safety Administration technical report no. DOT-HS-806-814. Washington, D.C.: The U.S. Department of Transportation.
36. Donelson, A.C. 1985. Cannabis and driving: Leaving no turn unstoned. In: **Alcohol, Drugs and Canadian Youth. Proceedings of a Symposium on Epidemiological and Social/Psychological Studies Concerning Alcohol and Drug Use Among Young People**, eds. B. Rush and N. Layne, pp. 129-151. Joint publication of the Health Promotion Directorate of Health and Welfare, Canada, the Addiction Research Foundation of Ontario, and the Canadian Addictions Foundation.
37. Donelson, A.C.; Beirness, D.J.; and Mayhew, D.R. 1985. **Characteristics of Drinking Drivers**. Impaired Driving report no. 1. Ottawa, Ontario: The Department of Justice, Canada.
38. Donelson, A.C., and Beirness, D.J. 1985. **Legislative Issues Related to Drinking and Driving**. Impaired Driving report no. 2. Ottawa, Ontario, Canada: The Department of Justice, Canada.
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41. Donelson, A.C. 1985. **Alcohol and Road Accidents in Canada: Issues Related to Future Strategies and Priorities. Synopsis**. Impaired Driving report no. 5. Ottawa, Ontario: The Department of Justice, Canada.
42. Donelson, A.C. 1985. Drinking and driving in the sociocultural context: Research needs and opportunities. In: "Alcohol and Highway Safety. Proceedings of the North American Conference on Alcohol and Highway Safety", eds. T.B. Turner, R.F. Borkenstein, R.K. Jones, and R.B. Santora, pp. 70-89. **Journal of Studies on Alcohol**, Supplement No. 10, July 1985.
43. Donelson, A.C. 1985. Between molecule (alcohol) and mayhem (road crashes): The case for humane intervention and the role of social and behavioral sciences. In: **Human Behavior and Traffic Safety**, eds. L. Evans and R.C. Schwing, pp. 421-479. New York: Plenum Press.
44. Donelson, A.C. 1985. The complex problem and its varied solutions. In: **Proceedings of the [Second] Provincial Conference on Traffic Safety for Community Leaders**, pp. 87-94. North Vancouver: Insurance Corporation of British Columbia.
45. Simpson, H.M.; Beirness, D.J.; Mayhew, D.R.; and Donelson, A.C. 1985. **Alcohol-specific Controls: Implications for Road Safety**. Ottawa, Ontario: The Traffic Injury Research Foundation of Canada.

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47. Donelson, A.C.; Cimbura, G.; Bennett, R.C.; and Lucas, D.M. 1985. **The Ontario Monitoring Project: Cannabis and Alcohol Use Among Drivers and Pedestrians Fatally Injured in Motor Vehicle Accidents from March 1982 through July 1984.** Ottawa, Ontario: The Traffic Injury Research Foundation.
48. Beirness, D.J., and Donelson, A.C. 1985. **Community-based Drinking-driving Countermeasures: Assessment of the "Beaches" Campaign.** Toronto, Ontario: The Ministry of the Attorney General.
49. Donelson, A.C. 1985. **Alcohol and Fatal Motor Vehicle Accidents in Ontario: An Assessment of Province-wide Efforts to Reduce the Alcohol-crash problem.** Toronto, Ontario: The Ministry of the Attorney General; Downsview, Ontario: The Ministry of Transportation and Communications.
50. Haas, G.C., and Donelson, A.C. 1985. **A Study to Capture Data on Fatal Motor Vehicle Accidents in Canada with Emphasis on Alcohol-impaired Driving.** Ottawa, Ontario: Departments of Health and Welfare Canada and Transport Canada.
51. Haas, G.C.; Walsh, P.J.; and Donelson, A.C. 1985. **Capture and Computerization of Coroners' Data on 1984 Fatal Motor Vehicle Accidents in British Columbia.** North Vancouver, B.C.: Insurance Corporation of British Columbia.
52. Haas, G.C.; Walsh, P.J.; and Donelson, A.C. 1985. **Alcohol Use by Persons Fatally Injured in Motor Vehicle Accidents: 1984.** Report No. TP-8156E-84.. Ottawa, Ontario: Transport Canada, Road Safety and Motor Vehicle Regulation Directorate.
53. Donelson, A.C. (ed.) 1984. **Drinking and Driving: Countermeasures Conference 1983.** Toronto, Ontario: The Ministry of the Attorney General.
54. Donelson, A.C. 1984. Alcohol and road accidents. What is the problem and where do we go from here? In: **Drinking and Driving: Countermeasures Conference 1983**, ed. A.C. Donelson, pp. 1-15, Toronto, Ontario: The Ministry of the Attorney General.
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59. Donelson, A.C. 1982. Facing the future in alcohol and traffic safety: The Lake Louise symposium and beyond. In: **Papers Presented at the 19th Annual Meeting of the Traffic Injury Research Foundation of Canada**, pp. 83-133. Ottawa, Ontario: Traffic Injury Research Foundation of Canada.
60. Donelson, A.C. 1982. The epidemiology of alcohol and marijuana. In: **Study Week in Traffic Safety, March 29 - April 1, 1982**, eds. E. Hauer and G.J.S. Wilde. Department of Civil Engineering, University of Toronto; Department of Psychology, Queen's University, Canada.
61. Donelson, A.C. 1982. Review of Deterring the Drinking Driver--Legal Policy and Social Control by H.L. Ross. In: **Health Education**, Vol. 21, No. 3, Winter 1982.
62. Joscelyn, K.B. and Donelson, A.C. 1981. **Drugs and highway safety: A perspective for the 1980s**. In: **Alcohol, Drugs, and Traffic Safety, Volume I**, ed. L. Goldberg, pp. 61-83. Stockholm, Sweden, Almqvist & Witsell International.
63. Marks, M.E.; Donelson, A.C.; Treat, J.R.; Jones, R.K.; and Joscelyn, K.B. 1981. **Workshop to Review Problem Behaviour Research Programs: Alcohol, Drugs, and Highway Safety**. National Highway Traffic Safety Administration contract no. DOT-HS-8-02031. National Technical Information Service: Springfield, Virginia.
64. Joscelyn, K.B.; Donelson, A.C.; and Ruschmann, P.A. 1981. **Drugs and Highway Safety**. Ann Arbor, Michigan: Transportation Planning and Policy, The University of Michigan.
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78. Donelson, A.; Olson, P.; Sivak, M. 1978. **Drugs, Driving and the Elderly: A Bibliography.** Ann Arbor, Michigan: The University of Michigan Highway Safety Research Institute.

Other Studies in Safety

1. Mayhew, D.R.; Beirness, D.J.; Donelson, A.C.; and Simpson, H.M. 1987. Why are young drivers at greater risk of collision? In: **Young Drivers Impaired by Alcohol and Other Drugs**, ed. T. Benjamin, pp. 65-71. London: Royal Society of Medicine Services.
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3. Mayhew, D.R.; Simpson, H.M.; and Donelson, A.C. (eds.) 1985. **Young Driver Accidents: In Search of Solutions.** Ottawa, Ontario: The Traffic Injury Research Foundation of Canada.

4. Donelson, A.C. 1985. Owning the problem of youth and motor vehicle accidents: The issue of responsibility and implications for countermeasure strategies. In: **Young Driver Accidents: In Search of Solutions**, eds. D.R. Mayhew, H.M. Simpson, and A.C. Donelson, pp. 141-165. Ottawa, Ontario: The Traffic Injury Research Foundation of Canada.
5. Haas, G., and Donelson, A.C. 1982. Tractor-trailer trucks and fatal crashes in Canada, 1974 to 1979. In: **Papers Presented at the 19th Annual Meeting of the Traffic Injury Research Foundation of Canada**, pp. 57-80. Ottawa, Ontario: Traffic Injury Research Foundation of Canada.

Chemistry and Pharmacology

1. Donelson, A.C.; Bosin, T.R.; Campaigne, E.; Rogers, R.B.; and Maickel, R.P. 1979. Comparative effects of 5,6-dihydroxytryptamine and its benzo[b]thiophene analogue on biogenic amines in the rat. **Biochemical Pharmacology** 28: 3339-3343.
2. Domino, E.F.; Donelson, A.C.; and Tuttle, T. 1978. Effects of 9-tetrahydrocannabinol on regional brain acetylcholine. In: **Cholinergic Mechanisms and Psychopharmacology**, ed. D.J. Jenden. New York: Plenum.
3. Maickel, R.P.; Bosin, T.R.; Donelson, A.C.; Campaigne, E.; and Rogers, R.B. 1978. Structure-activity relationships in compounds analogous to 5,6-dihydroxytryptamine. In "Serotonin Neurotoxins", **Annals of the New York Academy of Sciences** 305: 134-146.
4. Donelson, A.C. 1976. **Monoaminergic Activity and Behavior: A Comparison of 5,6-dihydroxytryptamine with Related Compounds**. Ph.D. Thesis, Indiana University.
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9. Donelson, A.C.; Bosin, T.R.; Campaigne, E.; Rogers, R.B.; Webb, R.W.; and Maickel, R.P. 1973. Chemical pharmacology of benzo[b]thiophene derivatives. X. Analogs of 5,6-dihydroxytryptamine. **The Pharmacologist** 15: 184.
10. Campaigne, E.; Rogers, R.B.; Donelson, A.C.; and Bosin, T.R. 1973. Benzo[b]thiophene derivatives. XX. The sulfur isostere of 5,6-dihydroxytryptamine. **Journal of Heterocyclic Chemistry** 10: 979-981.

Motor Vehicle Risk Analysis

1. Larson, R.E.; Fowler, G.F.; Kuzel, M.; Stubbs, A.; Brown, J.; and Donelson, A.C. 2008. Single-vehicle rollovers involving an initial off-roadway excursion followed by a return to roadway: A NASS study and vehicle response measurement. SAE 2008-01-0159.
2. Donelson, A.C., and Ayres, T.J. 2007. Preventing Crashes with Trucks at Night: A Few Lessons from Experience. IN: **Proceedings of the 11th World Conference on Transport Research**, Paper ID 1450, June 24-28, 2007, University of California, Berkeley.
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5. Ray, R.M.; Donelson, A.; Ramachandran, K.; and Wachs, A. 2001. **Analysis of the Relationship Between Passenger Vehicle Weight and the Risk of Traffic Fatality and Injury**. Report prepared for General Motors Corporation. Menlo Park, California: Exponent Failure Analysis Associates, Inc.
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13. Donelson, A.C.; Menich, R.P.; Ray, R.M.; and McCarthy, R.L. 1994. Statistical analysis of vehicle rollover: Causal Modeling. In: **Proceedings of the 38th Conference of the Association for the Advancement of Automotive Medicine [AAAM]**, pp. 269-294. Des Plaines, Illinois: AAAM.
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Presentations

1. Donelson, A.C. 2013. Uncertainty in Blood Alcohol Concentration (BAC) Estimates. Presentation to the Society of Forensic Engineers and Scientists, 2 November 2013, San Jose, CA.
2. Donelson, A.C. 2013. The Rise and Fall of Science in Impaired-driving Law. Presentation to the Society of Forensic Engineers and Scientists, 10 August 2013, American Canyon, CA.

3. Donelson, A.C. 2011. The National Fire Incident Reporting System (NFIRS): An Introduction to Data on Fires and Other Incidents. Presentation to the Society of Forensic Engineers and Scientists, 15-17 July 2011, Nevada City, CA.
4. Donelson, A.C. 2011. Winning Over Hearts and Minds – in Spite of PowerPoint®. Presentation to the Society of Forensic Engineers and Scientists, “Visual Sciences and Technologies”, 11-13 February 2011, Berkeley, CA.
5. Donelson, A.C., and Rossetter, E.J. 2010. Electronic Stability Control Systems & Safety: Revisiting a Not-so-settled Question. Presentation to the Society of Forensic Engineers and Scientists, 19-21 March 2010, Yosemite Seminar at The Ahwahnee, CA.
6. Ayres, T.J., and Donelson, A.C. 2009. Truck-Trailer Conspicuity: Evaluating the Effectiveness of Retroreflective Tape on Heavy Trailers. Presentation to the Society of Forensic Engineers and Scientists, 10 January 2009, St. Helena, CA.
7. Donelson, A.C. 2009. A Janus-faced Drug: Methamphetamine. Presentation to the Society of Forensic Engineers and Scientists, 18 October 2009, Grass Valley, CA.
8. Donelson, A.C. 2008. Marijuana, DUID, and DRE: Leaving No Turn Unstoned. Presentation to the Society of Forensic Engineers and Scientists, 15 June 2008, Seaside, CA.
9. Donelson, A.C. 2007. Modeling the structure of risk: Path analysis revisited. Presented at the Annual Meeting of the Society for Risk Analysis, 9-12 December 2007, San Antonio, Texas.
10. Donelson, A.C. 2007. Risk of injury for occupants of vehicles with a history of prior collision. Presented at the Annual Meeting of the Society for Risk Analysis, 9-12 December 2007, San Antonio, Texas.
11. Donelson, A.C. 2007. Predictive models of crash consequences: Simplifying complexity. Presented at the 11th World Conference on Transport Research, Paper ID 1477, June 24-28, 2007, University of California, Berkeley.
12. Donelson, A.C. 2006. Statistical models of vehicle rollover: A comparison. Presented at the Annual Meeting of the Society for Risk Analysis, 3-6 December 2006, Baltimore, Maryland.
13. Donelson, A.C. 2004. Applications of propensity score analysis (PSA) to motor vehicle risk analysis. Presented at the Annual Meeting of the Society for Risk Analysis, 5-8 December 2004, Palm Springs, California.
14. Donelson, A.C.; Zhao, K.; and Huang, S-W. 2004. Predicting the future performance of new-model passenger vehicles with historical data on real-world crashes. Presented at the Annual Meeting of the Society for Risk Analysis, 5-8 December 2004, Palm Springs, California.
15. Zhao, K., and Donelson, A.C. 2003. Driver injury risk in crashes with frontal impact: Predictive value and relative importance of scores from NHTSA's NCAP tests. Presented at the Annual Meeting of the Society for Risk Analysis, 7-10 December 2003, Baltimore, Maryland.
16. Donelson, A.C., and Zhao, K. 2003. Field performance of side air bags: Comparing multiple logistic regression and propensity score analysis. Presented at the Annual Meeting of the Society for Risk Analysis, 7-10 December 2003, Baltimore, Maryland.