

Abbreviated Curriculum Vita for Douglas S. West

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EDUCATION

| University | Major | Date | Degree |
|--------------------------------|-----------|-----------|--------|
| University of British Columbia | Economics | 9/75-7/79 | Ph.D. |
| University of Michigan | Economics | 9/71-4/75 | B.A. |

ACADEMIC AND PROFESSIONAL EXPERIENCE

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| Delta Economics Group Inc. | 10/17 | Senior Consultant |
| University of Alberta | 7/15- | Professor Emeritus |
| University of Alberta | 7/09-6/14 | Chair, Department of Economics |
| University of Alberta | 7/92-6/15 | Professor of Economics |
| Competition Bureau, Industry Canada | 9/99-8/00 | T.D. MacDonald Chair in Industrial Economics |
| University of Alberta | 7/84-6/92 | Associate Professor of Economics |
| University of British Columbia | 1/88-4/88 | Visiting Associate Professor, Faculty of Commerce and Business Administration |
| University of Alberta | 7/81-6/84 | Assistant Professor of Economics |
| Purdue University | 6/80-6/81 | Assistant Professor of Economics |
| Purdue University | 8/79-5/80 | Visiting Assistant Professor of Economics |

AREAS OF RESEARCH SPECIALIZATION

Competition Policy
 Industrial Organization
 Urban Economics and Spatial Competition

CONSULTING

Consultant to the Restrictive Trade Practices Commission, Inquiry into the State of Competition in the Canadian Petroleum Industry, 1982.

Consultant to the Retail Clerks Union and United Food and Commercial Workers Union on market areas in a successorship dispute before the B.C. Labour Relations Board, 1985.

Consultant to the Bureau of Competition Policy, Department of Consumer and Corporate Affairs, Ottawa, in respect to three investigations, one in each of 1987, 1988, 1989.

Consultant to Milner/Fenerty, Barristers and Solicitors, in the case of Ed Miller Sales and Rentals Ltd. v. Caterpillar Tractor Co. et al., 1988-1992. Appeared as an Expert Witness before the Court of Queens's Bench of Alberta.

Consultant to the Capital Health Authority, Edmonton, Alberta, 1995, 1996.

Consultant to Municipal Gas Corporation in respect to the Core Market Direct Purchase Application of Canadian Western Natural Gas Company Ltd. and Northwestern Utilities Ltd., 1995. Appeared as an Expert Witness before the Alberta Energy and Utilities Board.

Consultant to the Alberta Liquor Store Association, 1996-1998.

Consultant to Gilmour and Associates in respect to an economic analysis of the Capital Health Authority's and Province of Alberta's delivery of diagnostic imaging services, 1997-1998.

Consultant to Bennett Jones Verchere in respect to an ancillary business separation application submitted to the Ontario Energy Board by Union Gas Ltd., 1998. Appeared as an Expert Witness before the Board.

Consultant to the Competition Bureau with respect to the proposed mergers between (1) Royal Bank and Bank of Montreal and (2) CIBC and TD Bank, 1998.

Consultant to Fraser/Milner in respect to an application for compensation to the City of Edmonton's Land Compensation Board, 1999.

Consultant to the Competition Bureau with respect to the proposed merger between ICG Propane Inc. and Superior Propane Inc., 1999. Appeared before the Competition Tribunal as an Expert Witness.

Consultant to the Competition Bureau with respect to the proposed merger between Loblaws and Provigo, 1999.

Consultant to the Competition Bureau with respect to airline competition matters, 2000-2001.

Consultant to Peterson & Purvis with respect to shopping centre competition in Lethbridge, 2001.

Consultant to the Competition Bureau in the case of Commissioner of Competition v. Air Canada, 2000-2004. Appeared before the Competition Tribunal as an Expert Witness.

Consultant to the Competition Bureau with respect to retail competition matters, 2001-2002.

Consultant to the Australian Competition and Consumer Commission in the case of ACCC v. Qantas Airways Limited, 2003. Expert report filed with the Federal Court of Australia.

Consultant to the Alberta Liquor Industry Round Table (ALIRT), 2003.

Consultant to the Competition Bureau with respect to the Rona Inc./Reno-Depot Inc. merger, 2003.

Consultant to Borden Ladner Gervais in a competition matter, 2004-2005.

Consultant to the Competition Bureau with respect to competition in retail gasoline markets, 2004.

Consultant to the Competition Bureau with respect to a forest industry merger, 2005-2006.

Consultant to Witten LLP with respect to an economic interpretation of provisions of the Gaming and Liquor Act, Gaming and Liquor Regulation, and/or Retail Liquor Stores-Operating Guidelines, 2006.

Consultant to the Competition Bureau with respect to an investigation, 2007-2008.

Consultant to the Competition Bureau with respect to the investigation of retail gasoline price fixing in markets in Ontario, 2007-2011.

Consultant to Fraser Milner Casgrain in the case of 321665 v. Mobil Oil Canada, Ltd. and Husky Oil Operations Ltd., 2009-2011. Expert report filed with the Court of Queen's Bench of Alberta, March 4, 2010. Appeared before the Court of Queen's Bench as an Expert Witness.

Consultant to the Competition Bureau with respect to an investigation, 2010.

Consultant to the Australian Competition and Consumer Commission in a review of the Application for Authorisation of the Virgin Blue and Air New Zealand Australian Airline Alliance, 2010.

Consultant to the Australian Government Solicitor with respect to an investigation, 2011.

Consultant to Sutts, Strosberg LLP, Camp Fiorante Matthews, Harrison Pensa in the case of Yaing-Ja Lee and Yong Han Lee v. Korean Air Lines Co., CV-56747CP. Expert report filed with Ontario Superior Court of Justice, June 07, 2012.

Consultant to Burnet, Duckworth & Palmer with respect to an investigation, 2012.

Consultant to Denton's in an arbitration case on behalf of Coal Valley Resources Inc., 2013. Report filed with the arbitration panel. Appeared as an Expert Witness before the arbitration panel.

Consultant to Sutts Strosberg LLP, Camp Fiorante Matthews Mogerman, Belleau Lapointe LLP, and Branch MacMaster LLP in the case of Hi Neighbor Floor Covering Co. Ltd. v. Hickory Springs Manufacturing Co. et al., CV-10-15164. Expert report filed with Ontario Superior Court of Justice, February 5, 2013.

Consultant to Sutts Strosberg, Camp Fiorante Matthews Mogerman, and Harrison Pensa in the case of John D. Page and Lori Riediger v. Air Canada et al., CV-09-384306. Expert report filed with Ontario Superior Court of Justice, March 12, 2013.

Consultant to Sutts Strosberg LLP, Camp Fiorante Matthews Mogerman, and Harrison Pensa LLP in the case of Lori Riediger and Daniel Barnett v. Air Canada et al., CV-09-384304. Expert report filed with Ontario Superior Court of Justice, June 25, 2013.

Consultant to Sutts Strossberg LLP, Camp Fiorante Matthews Mogerman, Belleau Lapointe LLP, and Branch MacMaster LLP in the case of Majestic Mattress Manufacturing Ltd. v. Vitafoam et al., VLC-S-S-106362. Expert report filed with the Supreme Court of British Columbia, December 10, 2013.

Consultant to Mr. Michael Kelen with respect to a merger, 2013.

Consultant to Sutts Strossberg LLP, Camp Fiorante Matthews Mogerman, Belleau Lapointe LLP, and Branch MacMaster LLP in the case of Trillium Project Management Ltd. v. Hickory Springs Manufacturing Company et al., S106213. Expert report filed with the Supreme Court of British Columbia, January 30, 2014.

Consultant to Mr. Michael Kelen with respect to a merger, 2015.

Consultant to Camp Fiorante Matthews Mogerman, Harrison Pensa LLP, Belleau Lapointe LLP, and Branch MacMaster LLP in the case of Jennifer Gifford, Plaintiff, and Air Canada, Air Canada Rouge General Partner Inc., Chorus Aviation Inc., Jazz Air Inc., Delta Air Lines Inc., American Airlines Inc., United Airlines Inc., and Southwest Airlines Co., Defendants, Ontario Superior Court of Justice, 2120/15, October 6, 2015. Expert report filed with the Ontario Superior Court of Justice, 2017.

Consultant to Camp Fiorante Matthews Mogerman in a class action matter, 2018-2019.

Consultant to the Competition Bureau with respect to an investigation into alleged predation in the ultra low cost carrier market by WestJet/Swoop, 2019-2020.

HONOURS, AND AWARDS

Elsevier Prize for Most Innovative Paper, for Eckert, A., He, Z. and West, D.S. "An Empirical Analysis of Tenant Location Patterns near Department Stores in Planned Regional Shopping Centers", presented at the 21st EIRASS (European Institute of Retailing and Services Studies) Conference on Recent Advances in Retailing and Consumer Services Science, Bucharest, Romania, July 9, 2014.

PUBLICATIONS

1. Articles

- West, D.S., "Testing for Market Preemption Using Sequential Location Data," *Bell Journal of Economics*, Vol. 12 (Spring 1981), pp. 129-143.
- West, D.S., "Tests of Two Locational Implications of a Theory of Market Preemption," *Canadian Journal of Economics*, Vol. 14 (May 1981), pp. 313-326.
- West, D.S., "Testing for Market Preemption Using Sequential Location Data: Reply," *Bell Journal of Economics*, Vol. 13 (Autumn 1982), pp. 585-586.
- Von Hohenbalken, B. and West, D.S., "Manhattan Versus Euclid: Market Areas Computed and Compared," *Regional Science and Urban Economics*, Vol. 14 (February 1984), pp. 19-35.
- Von Hohenbalken, B. and West, D.S., "Predation among Supermarkets: An Algorithmic Locational Analysis," *Journal of Urban Economics*, Vol. 15 (March 1984), pp. 244-257.
- West, D.S. and Von Hohenbalken, B., "Spatial Predation in a Canadian Retail Oligopoly," *Journal of Regional Science*, Vol. 24 (August 1984), pp. 415-429.
- West, D.S., Von Hohenbalken, B., and Kroner, K., "Tests of Intraurban Central Place Theories," *Economic Journal*, Vol. 95 (March 1985), pp. 101-117.
- Von Hohenbalken, B. and West, D.S., "Empirical Tests for Predatory Reputation," *Canadian Journal of Economics*, Vol. 19 (February 1986), pp. 160-178.
- Dahlby, B. and West, D.S., "Price Dispersion in an Automobile Insurance Market," *Journal of Political Economy*, Vol. 94 (April 1986), pp. 418-438.
- West, D.S., Ryan, D.L., and Von Hohenbalken, B., "New Competition in Shopping Center Hierarchies: An Empirical Comparison of Alternative Specifications," *Journal of Regional Science*, Vol. 28 (August 1988), pp. 329-344.
- West, D.S., "Evaluating a Supermarket Relocation Strategy Using Spatial Competition Analysis," *Annals of Regional Science*, Vol. 23 (1989), pp. 137-154.
- Von Hohenbalken, B. and West, D.S., "Algorithmic Analyses of Oligopolistic Competition in Space" in *Telecommunications Demand Modelling*, edited by A. de Fontenay, M. Shugard, and D. Sibley, Amsterdam: North Holland, 1990, pp. 363-382.
- Ryan, D.L., Von Hohenbalken, B., and West, D.S., "An Econometric-Spatial Analysis of the Growth and Decline of Shopping Centers," *Regional Science and Urban Economics*, Vol. 20 (November 1990), pp. 313-326.

- Kim, J. and West, D.S., "The Edmonton LRT: An Appropriate Choice?," *Canadian Public Policy*, Vol. 17 (June 1991), pp. 173-182.
- Lindsey, C.R., Von Hohenbalken, B., and West, D.S., "Spatial Price Equilibrium with Product Variety, Chain Stores and Integer Pricing: An Empirical Analysis," *Canadian Journal of Economics*, Vol. 24 (November 1991), pp. 900-922.
- West, D.S. "An Empirical Analysis of Retail Chains and Shopping Center Similarity," *Journal of Industrial Economics*, Vol. 40 (June 1992), pp. 201-221.
- Coyte, P.C., Lindsey, C.R., Von Hohenbalken, B., and West, D.S., "Spatial Competition and Conjectural Price Variations in a Real Market Setting," in *Market Strategy and Structure*, edited by J.M. Alex Gee and George Norman, London: Harvester Wheatsheaf, 1992.
- West, D.S., "The Effects of Shopping Center Ownership on Center Composition in Planned and Unplanned Shopping Center Hierarchies," *Papers in Regional Science*, Vol. 72 (January 1993), pp. 25-43.
- de Palma, A., Lindsey, C.R., Von Hohenbalken, B., and West, D.S., "Spatial Price and Variety Competition in an Urban Retail Market: A Nested Logit Analysis," *International Journal of Industrial Organization*, Vol. 12 (September 1994), pp. 331-357.
- Kroner, K.F. and West, D.S. "The Relationship between Firm Size and Screening in an Automobile Insurance Market," *Journal of Risk and Insurance*, Vol. 62 (March 1995), pp. 12-29.
- Golosinski, D. and West, D.S. "Double Moral Hazard and Shopping Center Similarity in Canada," *Journal of Law, Economics, and Organization*, Vol. 11 (October 1995), pp. 456-478.
- Natesan, M. and West, D.S. "Spatial Analysis of a Discount Department Store's Market Entry Using a GIS," in *Proceedings of the Conference on Telecommunications and Information Markets*, edited by R.R. Dholakia and D.R. Fortin, 1995, pp. 381-388.
- West, D.S. "Alberta's Liquor Store Privatization: Economic and Social Impacts," *Policy Options*, Vol. 18 (April 1997), pp.24-27.
- West, D.S. "Case Study: Alberta's Liquor Stores," *Canadian Investment Review*, Vol. 10 (Spring 1997), pp. 33-34.
- Lindsey, C.R. and West, D.S. "Spatial Price Discrimination: The Use of Parking Coupons by Downtown Retailers," *Review of Industrial Organization*, Vol. 12 (June 1997), pp. 417-438.
- West, D.S. "The Privatization of Liquor Retailing in Alberta," *Public Policy Sources* No. 5 (1997), Vancouver: The Fraser Institute, pp. 48.
- West, D.S. "Commentary on 'Rethinking the Delivery of Government Services' (by Christopher J. Bruce)," in C. Bruce, R. Kneebone, and K. McKenzie (eds.), *A Government Reinvented: A Study of Alberta's Deficit Elimination Program*, Toronto: Oxford University Press Canada, 1997.

- Lindsey, C.R. and West, D.S. "An Empirical Analysis of Retailer Participation Decisions in a Downtown Parking Coupon Program," *Journal of Regional Science*, Vol. 38 (February 1998), pp. 1-22.
- Lindsey, C.R. and West, D.S. "National Pharmacare, Reference-Based Pricing, and Drug R&D: A Critique of the National Forum on Health's Recommendations for Pharmaceutical Policy," *Canadian Public Policy*, Vol. 25 (March 1999), pp. 1-27.
- West, D.S. "Alcohol Consumption and the Privatization of Liquor Retailing: Inconclusive Results," *Addiction*, Vol. 94 (1999), pp. 1144-1145.
- Draper, G. and West, D.S. "Evaluating Challenges to Vertical Restraints," *Canadian Competition Record*, Vol. 19 (Winter 1999-2000), pp. 86-97.
- West, D.S. "Double Marginalization and Privatization in Liquor Retailing," *Review of Industrial Organization*, Vol. 16 (June 2000), pp. 399-415.
- West, D.S. "Economics and the Assessment of Anti-Competitive Business Practices under the Competition Act," *Proceedings of the Canadian Bar Association Annual Fall Competition Law Conference*, September 2001.
- Eckert, A. and West, D.S. "Predation in the Airline Industry: The Canadian Antitrust Approach", *Antitrust Bulletin*, Vol. 47 (Spring 2002), pp. 217-242.
- West, D.S. *The Privatization of Liquor Retailing in Alberta*, Fraser Institute Digital Publication, Vancouver: The Fraser Institute, 2003. (Available on the Fraser Institute's website at <http://www.fraserinstitute.ca>)
- Lindsey, R. and West, D.S. "Predatory Pricing in Differentiated Products Retail Markets", *International Journal of Industrial Organization*, Vol. 21 (April 2003), pp. 551-592.
- Eckert, A. and West, D.S. "Testing for Predation by a Multiproduct Retailer", in *The Pros and Cons of Low Prices*, Einar Hope (ed.), Stockholm: Konkurrensverket/ Swedish Competition Authority, 2003.
- Eckert, A. and West, D.S. "A Tale of Two Cities: Price Uniformity and Price Volatility in Gasoline Retailing", *Annals of Regional Science*, Vol. 38 (2004), pp. 25-46.
- Eckert, A. and West, D.S. "Retail Gasoline Price Cycles across Spatially Dispersed Gasoline Stations", *Journal of Law and Economics*, Vol. 47 (April 2004), pp. 245-273.
- Eckert, A. and West, D.S. "Price Uniformity and Competition in a Retail Gasoline Market", *Journal of Economic Behavior and Organization*, Vol. 56 (February 2005), pp. 219-237.
- Eckert, A. and West, D.S. "Rationalization of Retail Gasoline Station Networks in Canada", *Review of Industrial Organization*, Vol. 26 (February 2005), pp. 1-25.

- Eckert, A. and West, D.S. "Predation in Airline Markets: A Review of Recent Cases", in *Advances in Airline Economics, Volume 1: Competition and Antitrust*, Darin Lee (ed.), Amsterdam: Elsevier, pp. 25-52, 2006.
- Eckert, A. and West, D.S. "Exit and Upgrading in Response to Entry: The Case of Gasoline Retailing", *International Journal of the Economics of Business*, Vol. 13 (November 2006), pp. 351-372.
- Eckert, A. and West, D.S. "Radius Restrictions on Retail Chains and the Similarity of Neighboring Shopping Centers", *International Journal of the Economics of Business*, Vol. 15 (November 2008), pp. 281-300.
- Eckert, A. and West, D.S. "Firm Survival and Chain Growth in a Privatized Retail Liquor Store Industry", *Review of Industrial Organization*, Vol. 32 (February 2008), pp. 1-18.
- Atkinson, B., Eckert, A., and West, D.S. "Price Matching and the Domino Effect in a Retail Gasoline Market", *Economic Inquiry*, Vol. 47 (July 2009), pp. 568-588.
- Eckert, A. and West, D.S. "Exclusive Dealing in On-Premise Establishment Sales of Beer in Edmonton", *Antitrust Bulletin*, Vol. 54 (Summer 2009), pp. 401-434.
- Eckert, A. and West, D.S. "The Spatial Evolution of Alberta's Privatized Liquor Store Industry", in *Industrial Organization, Trade, and Social Interaction: Essays in Honour of B. Curtis Eaton*, G.K. Dow, A. Eckert, and D.S. West (eds.), Toronto: University of Toronto Press, pp.60-83, 2010.
- Dow, G.K., Eckert, A., and D.S. West, "Introduction", in *Industrial Organization, Trade, and Social Interaction: Essays in Honour of B. Curtis Eaton*, G.K. Dow, A. Eckert, and D.S. West (eds.), Toronto: University of Toronto Press, pp. 3-15, 2010.
- Eckert, A. and West, D.S. "Proliferation of Brewers' Brands and Price Uniformity in Canadian Beer Markets", *Review of Industrial Organization*, Vol. 24 (2013), pp. 63-83.
- Eckert, A., He, Z., and West, D.S. "An Empirical Examination of Clustering and Dispersion within Canadian Shopping Centers", *Journal of Retailing and Consumer Services*, Vol. 20 (2013), pp. 625-633.
- Atkinson, B., Eckert, A., and West, D. S. "Daily Price Cycles and Constant Margins: Recent Events in Canadian Gasoline Retailing", *The Energy Journal*, Vol. 35 (2014), pp. 47-69.
- Eckert, A., He, Z., and West, D.S. "An Empirical Analysis of Tenant Location Patterns near Department Stores in Planned Regional Shopping Centers", *Journal of Retailing and Consumer Services*, Vol. 22 (2015), pp. 61-70.

2. Books

West, D.S. *Modern Canadian Industrial Organization*, N.Y.: HarperCollins College Publishers, 1994, vii + 152 pages.

Eckert, A. and West, D.S. *Canadian Supplement for Industrial Organization*, Pearson Education Canada, 2005, 176 pages.

Dow, G.K., Eckert, A., and West, D.S. (eds.) *Industrial Organization, Trade, and Social Interaction: Essays in Honour of B. Curtis Eaton*, Toronto: University of Toronto Press, 2010.

3. Book Reviews

West, D.S., Review of *Spatial Pricing and Differentiated Markets*, edited by G. Norman, London: Pion Ltd., 1986, in *Annals of Regional Science*, Vol. 22 (March 1988), pp. 118-120.

West, D.S., Review of *The New Industrial Organization: Market Forces and Strategic Behavior*. A. Jacquemin, Cambridge, Mass.: MIT Press, 1987, in *Journal of Economic Behavior and Organization*, Vol. 10 (1988), pp. 454-457.

West, D.S., Review of *Store Choice, Store Location and Market Analysis*, edited by N. Wrigley, New York: Routledge, 1988; and *An Analysis of Cross-Border Shopping*, J.D. Fitzgerald, T.P. Quinn, B.J. Whelan, and J.A. Williams, Dublin: The Economic and Social Research Institute, 1988, in *Journal of Regional Science*, Vol. 29 (August 1989), pp. 477-480.

West, D.S., Review of *Metropolis: From the Division of Labor to Urban Form*. A.J. Scott, Berkeley: University of California Press, 1988, in *Journal of Economic Behavior and Organization*, Vol. 13 (January 1990), pp. 137-140.

West, D.S., Review of *Regional Shopping Centres*. Peter J. McGoldrick and Mark G. Thompson, Brookfield, Vermont: Avebury, 1992, in *Journal of Regional Science*, Vol. 33 (August 1993), pp. 426-428.

West, D.S., Review of *The High Cost of Free Parking*. Donald Shoup, Chicago: American Planning Association, 2005, in *Journal of Regional Science*, Vol. 46 (October 2006), pp. 800-802.

BOARDS, INSTITUTES, ASSOCIATIONS

Member, Executive Committee, Canadian Law and Economics Association, 1994-2003.

President, Canadian Law and Economics Association, 2000-2002.

Member, Board of the Van Horne Institute, Calgary, Alberta, 2008-2015.

Member, Board of Alberta Gaming and Research Institute, 2009-2015.

Member, Board of the Institute of Health Economics, 2009-2015.

Director, Centre for Regulatory Affairs, Van Horne Institute, Calgary, Alberta, 2013-2015.