



PROFESSIONAL EXPERIENCE

WAYNE B. TRUSTY

OVERVIEW

Mr. Trusty started his own consulting practice in 1972 after gaining experience with such organizations as Acres Consulting Services and Stanford Research Institute, and has since worked on a wide spectrum of subjects including the environment, forest industry economics and forest policy, water resources, transportation, energy policy and markets, and regional development. He has also served as economic advisor on several large projects, including the Canadian Arctic Gas Pipeline project, and has appeared as an expert witness before regulatory bodies in Canada and the United States, particularly with regard to the cost-benefit and sustainability aspects of projects.

He served as Project Manager of 'The Athena Project' from its inception in 1991, and served as President of the Athena Sustainable Materials Institute and its US affiliate, Athena Institute International until March, 2011. Both Institutes focus on the application of Life Cycle Assessment (LCA) to the built environment. In addition to the board positions, committee work and other activities noted below, Mr. Trusty is a frequent speaker on LCA at sustainable infrastructure and building conferences, and as faculty for architectural and other professional association continuing education programs.

ACADEMIC

B.A., Economics, University of Western Ontario, 1965

M.A., Economics, University of Western Ontario, 1967

CURRENT POSITIONS

President, Wayne B. Trusty & Associates Limited

Past President, Athena Sustainable Materials Institute

Chairman and President, Athena Institute International

Adjunct Associate Professor, Faculty of Environmental Design, University of Calgary

CURRENT AND RECENT AFFILIATIONS AND ACTIVITIES (EXAMPLES)

- Witness before the Standing Senate Committee on Agriculture and Forestry, October 2010
- Technical advisor to the U.S. Consortium for Research on Renewable Industrial Materials (focused on wood products)
- Member of the Materials Working Group for the International Codes Council development of a green code
- Chair of ASTM International Working Group to develop a Standard Guide for Whole Building Life Cycle Assessment
- Member of ASTM E60 sustainability committee, including sub-committees developing standards for High Performance Buildings, Environmentally Preferential Purchasing and Environmental Product Declarations
- Invited participant in a Pavement Life Cycle Assessment Workshop at UC Davis, May 2010
- Member of the boards of the Green Building Initiative, Canada Green Building Council and the International Initiative for a Sustainable Built Environment
- Invited briefings to U.S. Environmental Protection Agency re sustainable building and U.S. Federal Highway Administration re infrastructure

- Member of Canadian National Research Council Technical Committee for development of a national infrastructure asset management framework
- Invited speaker at, and participant in, the 2007 CSA workshop Collaborating on Standards Solutions: Sustainable Building in Canada
- Member of the CaGBC Metrics and Life Cycle Assessment task force
- Member of the NAHB ANSI process for a residential rating system
- Sustainability advisor to the National Capital Commission for the Le Breton Flats development
- Panelist with the National Research Council *Building Science Insight Series 2006* (presentations in 11 cities)
- Member of US Green Building Council LEED Resources and Materials Technical Advisory Group and the LEED New Construction Steering Committee
- Chair of the Goal and Scope working group for the integration of LCA in the LEED US rating system
- Advisor to the team developing sustainable building guidelines for the State of Minnesota
- Member of the U.S. National Academy of Sciences' Committee on Materials Flow Accounting
- Past chairman of an international technical committee examining the use of LCA with regard to buildings and building materials
- Member of a SETAC Europe working group on LCA in building and construction
- Participant in Natural Resources Canada, Office of Energy Efficiency, experts' meeting on energy labeling for buildings

RECENT PAPERS AND PRESENTATIONS (EXAMPLES)

Trusty, W.B., 'The Future of Life Cycle Assessment (LCA) in Codes', International Code Council Building Safety Journal Online, February 2011.

Trusty, W.B., 'Misconceptions and Misunderstanding about LCA: Part Two of a Three Part Series', International Code Council Building Safety Journal Online, December 2010.

Trusty, W.B., 'An Overview of Life Cycle Assessment: Part One of Three', International Code Council Building Safety Journal Online, October 2010.

Trusty, W.B., 'Incorporating LCA in Green Building Rating Systems', Air & Waste Management Association EM Magazine, December 2009.

Bryan, H., Trusty, W.B., 'Developing an operational and material CO2 Calculation Protocol for Buildings', Sustainable Building 2008 proceedings.

Trusty, W.B., 'Standards vs. Recommended Practice: Separating Process and Prescriptive Measures from Building Performance', Journal of ASTM International, February 2008.

Trusty, W.B., 'Life Cycle Assessment: Applications and Implications for the Design of Greener Buildings' presented at National Green Building Conference, Ottawa, April 2006.

Trusty, W.B., 'Rating Systems and LCA Tools' presented at the Construction Specifications Institute 50th Annual Show and Convention, Las Vegas, March 2006.

Trusty, W.B., 'Life Cycle Analysis: Implications for the Design of Greener Buildings', lecture to High Performance Building Salon, New York City, January 2006.

Trusty, W.B., Horst, S., 'LCA Tools Around the World' in *Life Cycle Assessment and Sustainability: A supplement to Building Design and Construction*, November 2005.

Trusty, W.B., Deru, M., 'The US Life Cycle Database Project and Its Role in Life Cycle Assessment' in *Life Cycle Assessment and Sustainability: A supplement to Building Design and Construction*, November 2005.

Trusty, W.B., Argeles, C., 'An Empirical Perspective on Building Durability', presented at the 10th Canadian Conference on Building Science and Technology, Ottawa, May 2005.

Trusty W.B., 'Green Building: Assessing Environmental Merits of Renovating vs. Building New', *Municipal World*, February 2005.

Trusty, W.B., 'Life Cycle Assessment, Databases and Sustainable Building' presented at the Latin-American Conference on Sustainable Building 2004, São Paulo, Brazil, July 2004.

Trusty, W.B., 'Stocking Your Green Building Toolkit', *Construction Canada*, May 2004, Vol. 46, No.3.

Trusty, W.B., 'Renovating vs. Building New: The Environmental Merits' presented at the OECD/IEA Workshop on Sustainable Use of the Building Stock, Tokyo, January 2004.

Horst, S.W., Trusty, W.B., 'Integrating LCA Tools in LEED: First Steps' presented at USGBC Greenbuild Conference and Expo, Pittsburgh, November 2003.

Trusty, W.B., 'Understanding the Green Building Toolkit: Picking the Right Tool for the Job' presented at USGBC Greenbuild Conference and Expo, Pittsburgh, November 2003.

Trusty, W.B., 'Sustainable Building: A Materials Perspective', prepared for Canada Mortgage and Housing Corporation continuing education series for architects, September 2003.

Trusty, W.B., Horst, S.W., 'Integrating LCA Tools in Green Building Rating Systems' in *The Austin Papers: Best of the 2002 International Green Building Conference*, November 2002.

'LEED Canada Adaptation and BREEAM/Green Leaf Harmonization Studies', in association with the Environmental Research Group of the University of British Columbia and ECD Energy and Environment Canada Ltd., February 2002. (*Publicly available.*)

'US LCI Database Project Final Phase I Report', prepared in association with Franklin Associates, Ltd. and Sylvatica for the National Renewable Energy Laboratory, January 2002. (*Publicly available.*)

'Development of a Green Labeling Program for Building Materials', client confidential, January 2002.

Trusty, W.B., Meil, J.K., 'The US Life Cycle Inventory Database Project: A Progress Report' presented at The Fifth International Conference on Ecomaterials. Honolulu, October 2001.

Sullivan, J., Fitch, P., Trusty, W.B., 'A National LCI Database Development Project: Support for Environmental Assessments of Future Products', LCM 2001 Workshop. Denmark, August 2001.

Trusty, W.B., 'Environmental Trends and Issues: Why You Should Care' presented at corporate strategic planning workshop, Harvard, May 2001.