

## RESUME

for

**Vince Aurilio, P. Eng.**

## EDUCATION

B.A.Sc, Civil Engineering, University of Toronto, 1982

## ORGANIZATIONS

Registered Professional Engineer, Ontario  
2006 President, Canadian Technical Asphalt Association  
Member, Association of Asphalt Paving Technologists  
Member, TRB Committee A2F03 (1995-2004)  
Committee on Management of Quality Assurance  
Co-Chair, Ontario Superpave Implementation Committee (1999-2005)  
Member, Canadian User/Producer Group ( 1999-2005)

Aurilio, Vince (with Ludomir Uzarowski) "Perpetual Asphalt Pavements" 49, 397-418 (2004).

Aurilio, Vince (with Michael Maher, Ludomir Uzarowski, Gary Moore) "Sustainable Pavements – Making the Case for Longer Design Lives for Flexible Pavements" 51, 43-56 (2006).

Aurilio, Vince (with Larry Michael) "Sasobit Warm Asphalt Technology – Victoria Street Trial in the City of Ottawa" 53, 249-265 (2008)

## PROFESSIONAL EXPERIENCE

### **2008 to Present**

#### **Manager, Pavement Engineering Services, DBA ENGINEERING LTD.**

Responsible for technical, administrative and management functions of the company's Pavement Engineering Services Division. Duties include management of field and laboratory testing, pavement evaluation and design. This includes life cycle analysis of alternative options and preparation of pavement design reports.

### **2005 – 2008**

#### ***Ontario Asphalt Sales Manager*** **Bitumar Inc.**

The primary responsibility in this position was to identify and close on business, consistent with customer needs, and the corporate marketing strategy and budgets of Bitumar. This required maintaining and establishing new accounts and providing assistance to customers in order to meet business objectives. As the Account Manager my key function was to maintain and develop sales in Ontario and Western New York.

**1999-2005**

**Technical Director- Canadian Field Engineer  
OHMPA**

Actively involved with various OHMPA technical and marketing committees to promote innovative, proactive asphalt industry solutions. Technical responsibilities included advancing pavement design and life cycle cost analysis for flexible pavements and the implementation and further development of Superpave and SMA. Also responsible for the provision of education and technical support to promote excellence in asphalt pavements to owners and specifying agencies in Ontario and across Canada. Taught in formal seminars/ courses approximately 20-30 days per year. Member of several NCHRP Panels in support of the development Performance Related Specifications and Analysis of in-situ air voids and performance data related to LTPP. Made formal presentations at numerous technical conferences and research forums in both the U.S. and Canada each year.

**1997-1999**

**Senior Materials Engineer  
Golder Associates Ltd.**

Responsible for materials engineering and pavement design for civil, municipal and highway construction projects. Assignments relate to construction quality control/quality assurance on MTO *Total Project Management* and design/build contracts (e.g. Hwy. 401 Newtonville D/B project), pavement evaluation and rehabilitation design, forensic investigations and hot mix asphalt troubleshooting. Provision of technical support in the implementation of the Superpave Performance Graded Asphalt Binders Laboratory and volumetric mix design system.

**1995-1997**

**Sr. Research Engineer & Director of Technical Services  
Advanced Asphalt Technologies**

Technically responsible for asphalt materials engineering and testing, pavement design and evaluation, Superpave mix designs, mixture analysis and asphalt binder testing, preparation of technical proposals, data collection, statistical analysis and report writing. As Director of Technical Services, responsibilities included management, sales and marketing of technical services. Responsibilities included the supervision and administration of several large FHWA contracts, this involved the preparation of progress reports, budgeting and general liaison with FHWA contract staff. Also involved in the development of polymer modified binder systems.

**1994-1995**

**Senior Pavement and Materials Engineer  
John Emery Geotechnical Engineering Ltd.**

Responsible for asphalt technology activities such as, coordination of laboratory correlation and certification programs, marketing, and the acquisition and implementation of SHRP Superpave equipment and technology. Also extensively involved in the development and advancing of rubber modified hot mix technology as well as statistically based Quality Assurance specifications.

**1990-1994**

**Senior Bituminous Engineer (1992-1994)  
Ontario Ministry of Transportation**

Directly responsible for the development of statistically based End Result Specifications (ERS) for Hot Mix Asphalt acceptance, reviewing contract concerns and providing technical information to Regional construction personnel. Conducted evaluations of new materials for approval (rubber modified hot mix asphalt, joint sealants etc.), and analysis of technical problems. Also provided instruction at advanced construction schools for Asphalt Technology and evaluations of new developments in hot mix asphalt technology.

**1988-1990**

**Design Engineer/Project Leader  
Giffels Associates Limited.**

Responsibilities and duties included the design and preparation of contract drawings and specifications for Civil site-work projects such as the Toronto Star Facility at Weston Road and Hwy. 400, preparation of reports and applications for submission to various provincial and municipal agencies, project control monitoring through meetings and site visits/ inspections, storm water management design, construction management and project scheduling.

**1984-1988**

**Project Engineer & Sr. Geotechnical Engineer  
Peto MacCallum Limited.**

Responsibilities and duties included the preparation of geotechnical and field inspection reports, project coordination for industrial and residential subdivision construction and flexible pavement design/evaluation. Provided field supervision of engineered structural fill, subsoil drilling and sampling operations, footing, caisson and pile foundation inspections; load testing of piles and caissons, tieback proof testing and inspection, Benkelman Beam Deflection Testing and quality control/quality assurance of construction materials.

## PUBLICATIONS

Aurilio, V. "Experimental Hot Mix Pavement with Scrap Tire Rubber at Thamesville, Ontario Report No. 2- Recycling Asphalt Rubber Mix" 38 51-76 (1993).

Aurilio, V. (with C. Raymond) "The Development of End Result Specifications for Pavement Compaction and Recovered Penetration" 39 242-261 (1994).

V. Aurilio, Emery, J.J., with J.A. Carrick, J.K. Davidson, "Use of Asphalt Rubber" 40 57-77 (1995).

Aurilio, V. (with T. Pellinen, E.T. Harrigan, K. Stuart) "Preliminary Validation of Superpave Using the Accelerated Loading Facility (ALF)" 41 323-348 (1996).

Aurilio, V. (with J. Youtcheff) "Moisture Sensitivity of Asphalt Binders: Evaluation and Modeling of the Pneumatic Adhesion Test Results" 42 180-200 (1997).

Aurilio, Vince (with Gerhard Kennepohl, Ludomir Uzarowski, John Emery, Paul Lum) "Ontario's Experience with SMA and Experience to Date" 44 495-516 (1999).

Aurilio, Vince (with Richard Hadden) "The Application of ISO Elements for the Certification of Testing Laboratories" 45 38-56 (2000).

Aurilio, Vince (with Keith MacInnis, Joel Kimmett, Sandy Brown, Paul Lum, Gary Farrington) "Practical Experience with Stone Mastic Asphalt (SMA) Region of Durham, Regional Road 57" 45 167-191 (2000).

Aurilio, Vince (with Gilbert G. McIntee, Michael L.J. Maher, John H. Dickson) "CCIL Hot Mix Asphalt Technician Certification" 45 457-474 (2000).

Aurilio, Vince (with Paul Lum) "The Impact of High Testing Variability on End Result Specifications" 46 281-301 (2001).

Aurilio, Vince (with William Buttlar, Anshu Manik, Laura Shanley) "Accounting for Bias and Between-Laboratory Differences" 47 389-404 (2002).

Aurilio, Vince (with William J. Pine, Paul Lum) "The Bailey Method Achieving Volumetrics and HMA Compactability" 50, 159-184 (2005).

Aurilio, Vince (with Salman Bhutta, Tom Garlock, John Fontana Jr.) "High Performance Hot-Mix Asphalt Pavement at Queenston-Lewiston International Bridge" 51, 299-326 (2006).