Your Instructors

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Russell Brownlee, M.A.Sc., FITE, RSP1, P.Eng.

Russell is the president of True North Safety Group and has over 25 years of experience in the areas of road user safety, pedestrian and cycling safety, rail safety, transportation engineering, and human factors. Russell is a registered professional engineer in Ontario, British Columbia and Alberta. At TNS, Russell is solely focused on safety consulting services and independent forensic investigations relating to transportation facility design, construction, operations, and maintenance. Russell is a recognized expert in undertaking in-service safety reviews and road safety audits of transportation facilities. He has completed safety reviews/audits for the Ministry of Transportation of Ontario, Metrolinx, CNR, and many of the regions, counties, and major municipalities across Canada.

Russell is an active member of the Institute of Transportation Engineers (ITE and CITE). He was the Canadian district director and represented Canada on ITE's International Board of Direction and chaired the Transportation Safety Council Executive Committee (2008 through 2010). In 2017, Russell received the Transportation Safety Council Edmund R. Ricker award given in recognition of leadership in the field of traffic safety. Russell has provided practitioner level training related to road user safety programs, intersection safety, pedestrian and bicycle facility safety, rural road safety, rail safety, roadside safety, designing and locating transit stops for safety, the Highway Safety Manual (HSM) and its practical applications and legal liability aspects.

Alexandre Nolet, M.Eng., RSP1, P.Eng.

Alex has over 12 years of experience in the transportation consulting industry where his focus has been on road and rail safety, collision analysis, traffic operations, and risk management. Alexandre is a registered professional engineer in Ontario, British Columbia and Quebec. At TNS, Alex focuses on safety consulting services and independent forensic investigations relating to transportation facility design, construction, operations, and maintenance.

Alex has been involved in several in-service road safety reviews and road safety audits for various road jurisdictions throughout Ontario and Quebec, including Oxford County, Bruce County, and the Regions of Halton, Waterloo, Durham, and Peel. He was the lead engineer for safety reviews of over 100 intersections and road sections, and the proposed road-rail grade separation design for the proposed CN Logistics Hub in Halton Region, Ontario.

Alex has developed a strong knowledge of the HSM and associated quantitative collision analysis methods, including before/after analysis, over-representation, development of safety performance functions (SPFs), use of crash modification factors (CMFs), and network screening. He developed the SPFs and conducted network screening analyses for the MTO, Halton and York regions, the City of Mississauga, and the Quebec Ministry of Transportation (MTQ). Alex was also involved in the configuration of the AASHTO Safety Analyst software for efficient safety management of MTO's road network. He was a key member of the team that provided training to the Ministry staff related to the Safety Analyst management system.

Alex is the president of the Canadian Association of Road Safety Professionals (CARSP) and a member of the Institute of Transportation Engineers (ITE). He was retained to develop one-day workshops for road safety and risk management for pedestrian and bicycle facilities for the Association Québécoise des Transports (AQTr) and the Ontario Traffic Council. He recently completed, as chair of the CITE Accessibility committee, a state-of-the-practice review of accessibility guidelines in Canada. In association with FHWA, Alex provided training to the ITE Toronto Section related to the Practical Application of the HSM, including TNS projects work wherein SPFs, CMFs, and ISATe were extensively applied.

Josée Dumont, M.A.Sc., RSP2I, P.Eng. Transportation Safety Engineer

Josée is professional engineer with over 13 years of experience in traffic engineering. She holds a master's degree in transportation engineering from the University of Toronto, and is a registered professional engineer in Ontario and Québec. She also has the Road Safety Professional Level 2 certification with an infrastructure specialty. Josée specializes in the fields of traffic safety and transportation planning. Her traffic safety experience includes site safety assessments, policy review and development, determination and review of speed limits, safety reviews, literature reviews, development of safety performance functions, network screening, review of road maintenance activities, and peer reviews. Her transportation planning experience includes transportation policy development, traffic operational reviews, transportation master plans, transportation demand management, environmental assessments, active transportation, neighbourhood traffic calming and transportation impact studies.

Josée was involved in several transportation safety studies for the Québec Ministry of Transportation, including the characterization of median barriers and the applicability and cost-benefit of 2+1 type roadways in the province of Québec, a safety review for the Turcot complex reconstruction, a comparative safety review of Highway 50 and Highway 148 using the Empirical Bayes approach, and the safety review of 15 intersections with high collision rates.

Speaker Information

Name:
Mr. David A. Petrucci, Jr., P.E., PTOE, RSP2I

Organization:
United States Department of Transportation (USDOT), Federal Highway Administration (FHWA)
Office of Technical Services (OTS) - Resource Center Safety and Design Technical Service Team (SDTST)

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Title:
Senior Safety Engineer

Job Description/Duties:
Mr. Petrucci is a Senior Safety Engineer and member of the Safety and Design Technical Service Team in the Federal Highway Administration's Resource Center and has served in this position for the past seven (7) years. Mr. Petrucci has over 18 years of total traffic engineering experience in consulting and government while specializing in intersection and roadway design and safety analysis, including applications of the AASHTO Highway Safety Manual. Mr. Petrucci has served as a core team member of the FHWA Every Day Counts (EDC4) Data-Driven Safety Analysis (DDSA) effort and provides technical assistance, training, and technology deployment to state, local, and tribal governments throughout the United States. Mr. Petrucci has been an active member of the Institute of Transportation Engineers (ITE) at the local and international levels including serving as a member of Executive Committee of the ITE Traffic Engineering Council (2011 to 2017) and the ITE Transportation Safety Council as Vice-Chair (2016 to 2018) and Chair (2018 to 2020). Mr. Petrucci also serves as an appointed organizational director with the Transportation Professional Certification Board, Inc. (2020 to present). Mr. Petrucci is a certified instructor with the National Highway Institute (NHI), a licensed professional engineer (P.E.), a certified Professional Traffic Operations Engineer (PTOE), and a certified Road Safety Professional (RSP2I).

Previous Work Experience:
Prior to joining the Federal Highway Administration, Mr. Petrucci worked as a consulting traffic engineer for public and private sector clients throughout the United States, specializing in transportation operations, roadway design, simulation modeling, and traffic study services.

Education:
Bachelor of Civil Engineering (BCE) University of Delaware

Personal Information/Hobbies:
Mr. Petrucci and his family reside in the greater Philadelphia area. He enjoys traveling and spending time with his family and friends, cooking, and volunteering at school and in his local community.