Centre for Pavement and Transportation Technology

http://www.cpatt.ca/

Location

E2-2346

Management

- Director: Susan Tighe (sltighe@uwaterloo.ca; x33152)
- Tour Operator: Md. Safiuddin, Research Associate (msafiuddin@uwaterloo.ca; 37731)

Users

- Graduate Students (Civil Engineering)
- Industry Contacts:
    - McAsphalt Industries Limited
    - Ministry of Transportation Ontario
    - Cement Association of Canada
    - Ministry of Transportation Ontario

Research

- Transportation and pavement

Selected Projects

- Improving the Fatigue Performance of Hot Mix Asphalt
- Determination of Dynamic Modulus for Hot Mix Asphalt (HMA) required for Mechanistic Empirical Pavement Design Guide (MEPDG) Implementation
- Evaluation of Rubber Modified Asphalt: Past, Present, Future
- Determining Quantity of Recycled Asphalt Pavement (RAP) in Hot Mix Asphalt (HMA)
- Sustainable Long Life Pavements
- Development and Evaluation of a Braking Availability Testing Device
- 2013 TAC Pavement Asset Design and Management Guide
- Evaluating Concrete Blocks for Building and Paving Applications

Equipment

- Walk-in freezing and thawing chamber
- Superpave gyratory compactor
- Asphalt vibratory compactor
- British pendulum tester for friction measurement
- Impedance tube for testing sound absorption

Supporting Partners

- Canada Foundation for Innovation
- Cement Association of Canada
- Greater Toronto Airports Authority

- McAsphalt Industries Limited
- Ministry of Transportation Ontario
- Ontario Innovation Trust
- Ontario Research and Development Challenge Fund
- Regional Municipality of Waterloo
- Stantec Consulting Limited
- University of Waterloo
- Golder Associates Ltd.

Access Rights

- Open to university faculty, students, public, industry
    - Contact Md. Safiuddin or Susan Tighe
    - Contact a few months beforehand for testing
    - All CPATT lab users have to complete a lab safety course with Doug Hirst (kdhirst@uwaterloo.ca; 37150), and complete a number of online safety courses before they are allowed access to the lab