# Centre for Pavement and Transportation Technology

<http://www.cpatt.ca/>

## Location

E2-2346

## Management

* Director: Susan Tighe ([sltighe@uwaterloo.ca](mailto:sltighe@uwaterloo.ca); x33152)
* Tour Operator: Md. Safiuddin, Research Associate ([msafiuddin@uwaterloo.ca](mailto: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](mailto:kdhirst@uwaterloo.ca); 37150), and complete a number of online safety courses before they are allowed access to the lab