

Integrated Road Research Facility's First Annual Research Symposium

May 6, 2014

Join the IRRF at its first annual Research Symposium to learn more about its one-of-a-kind test facilities and become acquainted with its research team and their innovative projects.

About the IRRF

The Integrated Road Research Facility (IRRF) was established in 2012 as a unique collaboration amongst the University of Alberta (UofA), Alberta Transportation, Alberta recycling, and the City of Edmonton. Since then, the IRRF has endeavored to answer important questions about the impact of cold-climates on pavement performance, as well as test the feasibility of waste and recycled materials in road construction.

The IRRF consists of a pavement materials characterization laboratory (PMCL), supported with funding from the Canadian Foundation for Innovation, and a test road facility at Edmonton Waste Management Centre. The PMCL is equipped to fully characterize asphalt and unbound materials' mechanical properties, while the test road facility has been instrumented with various sensors to evaluate the performance of: asphalt pavement in cold climates; shredded scrap tires as road embankment fill; and bottom ash as an insulation layer to limit frost penetration.

Schedule

7:30—8:00	Registration & Breakfast	11:30—12:00	Light-weight Deflectometer for Unbound Layers Quality Control
8:00—8:15	Opening (Chair of Civil and Environmental Engineering)	12:00—1:00	Lunch & Student Poster Session
8:15—8:45	KEYNOTE SPEAKER: Dr. Ralph Haas, "The Value of Test Roads"	1:00—1:30	A Survey of Practice on Municipal Road Winter Maintenance in Canada
8:45—9:15	Overview of the IRRF	1:30—2:00	Reliability of Road Friction Measurement for Winter Road Conditions
9:15—9:45	Construction of Road Embankment from Different Types of Tire Derived Aggregate (TDA)	2:00—2:30	Friction Measurement to Evaluate Winter Road Maintenance Operations
9:45—10:15	Compression Behaviours of Different Types of TDA	2:30—3:00	Student Poster Session
10:15—10:30	Break		
10:30—11:00	Thermal Performance of Insulated Road Sections at IRRF		
11:00—11:30	Pavement Structural Response Measurement to Evaluate Linear-elastic Backcalculation Procedures		

KEYNOTE SPEAKER

Dr. Ralph Haas, P.Eng., Ph.D.



Recognized worldwide for his expertise in pavement engineering and infrastructure management, Dr. Haas has been contributing to the civil engineering field for over four decades, publishing more than 400 papers and authoring/ co-authoring 12 books. He has received many accolades for his work, including the country's highest civilian honour, the Order of Canada.; the highest academic honour, Fellow of the Royal Society of Canada; and the highest engineering honour, Fellow of the Canadian Academy of Engineering. Recently, Dr. Haas was awarded the Transportation Research Board's Crum Award for his distinguished achievement in transportation research.

Dr. Haas will be sharing his knowledge and insight at the IRRF Research Symposium, speaking on the value of test roads in pavement engineering.

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Tuesday May 6, 2014
7:30 am - 3:00 pm

The Solarium
2nd Floor, Engineering Teaching
and Learning Complex (ETLC)
University of Alberta

For all inquiries contact **Lauren
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Registration Form

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**Completed Registration forms can be mailed,
faxed, or emailed to:**

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www.irrf.ca

The IRRF thanks you for your interest in this event; however, there is limited space available. Please register early to ensure your spot at this year's Research Symposium.