

Summer Fun!

The Civil and Environmental Engineering Department at Prairie View A&M University is offering a one-week non-resident summer camp under the Garrett A. Morgan Technology and Transportation Education Program. Students from the Hempstead and the surrounding ISDs are invited.

The camp will inspire students to choose careers in transportation so that the nation will have the skilled workforce needed to operate and maintain the world's best transportation system.

During the summer camp, students will engage in hands-on laboratory and field activities related to transportation engineering including visits to local agencies and museums. In addition to their introduction to transportation engineering, students will gain an understanding of the interaction with other fields in civil engineering for sustainable management of our transportation system.



Garrett A. Morgan was born in Paris, Kentucky on March 4, 1877. As a self educated man, he went on to make a noted entry into the field of technology. He is credited with the invention of the traffic signal, and gas masks for fire fighters. He died in 1963. More information on Garrett A. Morgan's life and achievements can be found on the web at:

http://inventors.about.com/od/mstartinventors/a/Garret_Morgan.htm

Director: Dr. Judy Perkins, PE
Co-Director: Dr. Iftekhar Ahmed, PE

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Civil & Environmental Engineering

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Funded by the U. S. Department of Transportation

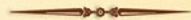


Garrett A. Morgan Transportation Summer Camp Prairie View A&M University

July 10 - 16, 2011
9th & 10th Graders

July 17 - 23, 2011
11th & 12th Graders

Curriculum 9th and 10th Graders



Traffic Counting and Analysis

Speed Data Collection

Traffic Signal Timing

Surface Transportation Planning Project

Soil Compaction Test

Vehicle Test Station

Raceway Vehicle and Track

Intersection Re-Design

Field Trips*

**Vehicle Crash Testing Site*

**Visibility Research Laboratory*

**Houston Port Authority*

**Metropolitan Transit Authority (METRO)*

Faculty & Staff



Dr. Judy Perkins, P.E. is a Texas A&M University (TAMU) Regents Professor and a Professor in the Civil & Environmental Engineering Department at Prairie View A&M University. Her area of specialization is transportation engineering. Her research interest includes transportation planning, logistics, and emergency management. Dr. Perkins will serve as the Project Director.

Dr. Iftekhar Ahmed, P.E., CPESC is an Assistant Professor in the Civil & Environmental Engineering Department at Prairie View A&M University. His area of specialization is water resources engineering. His interests include surface water management in transportation corridors and environmental impact assessment. Dr. Ahmed will serve as the Project Co-Director.

Dr. Judith Mwakalonge is a Post Doctoral Researcher in the Civil & Environmental Engineering Department at Prairie View A&M University. Her area of specialization is transportation engineering. Her primary research interests include travel demand modeling, model transferability, and traffic operations. She will serve as the Project Teaching Assistant.

Curriculum 11th and 12th Graders



Traffic Counting and Analysis

Speed Data Collection

Traffic Signal Timing

Surface Transportation Planning Project

Soil Compaction Test

Vehicle Test Station

Intersection Re-Design

Canoe Design Project

Field Trips*

**Vehicle Crash Testing Site*

**Visibility Research Laboratory*

**Houston TranStar Center*

**Houston Port Authority*

*“If you can be the best,
then why not try to be the best.”*

Garrett A. Morgan

