

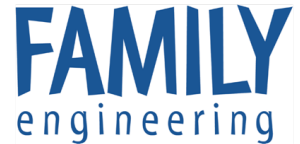
# Welcome to Family Transportation Night Chassell Elementary



## 6:00-6:25 pm Opening activities in the gym

### **Short Engineering Activities** (on your own in the gym)

- Against the Wind
- Can You Hear Me Now?
- What Do Engineers Do?
- Make A Traffic Sign
- Boxing Beans
- Let's Communicate
- Who Engineered It?
- Traffic Counter & Speed Reader



### **Traffic Counter Tools** (Nick Lanoue & Colin Lay, MTU students, civil engineering)

Make your own traffic signs! How does speed radar work? How many cars pass at an intersection? These two engineering students can help you design tools and solve problems!

## 6:30-7:05 pm & 7:10 - 7:45 pm Transportation & Engineering Activities in Classrooms (two sessions)

- Each child/parent attends *two* 35-minute activities for their grade: K-1, Grades 2-3 and Grades 4-6. *You may start with either activity.*
- If you are chaperoning several children, please accompany your youngest child and send the other child(ren) to the activities for their grade.
- Have fun!

## Activities for Pre-K, Kindergarten & Grade 1

### **1. Make a Hoop Glider Room 100** (K Room)

It is not just paper air planes that can fly! Figure out how to make a paper airplane glide gracefully through the air.

Presenters: Nick Lanoue & Colin Lay, MTU Students, Civil Engineering

### **2. Five Points Traffic Jam Room 101** (1<sup>st</sup> Grade)

How do you get to school? Chances are, you encounter different types of traffic, including cars, bikes, or trucks. This is your chance to create, or engineer a safe route to school!

Presenter: **Kara Oikarinen**, Superior AmeriCorps & Western U.P. Center for Science, Mathematics and Environmental Education



## Activities for Grades 2-3



### **1. *Blast Off!***

**Room 103** (3<sup>rd</sup> Grade)

Three different carbon dioxide-releasing reactions are used to create miniature rockets. Students will predict which reaction will cause the rockets to launch the fastest. Students will demonstrate action and reaction---part of Newton's Third Law.

Presenter: **Roger Ellis**, MTU Student Clinical Lab Sciences

### **2. *Plot the Ship's Path into the Harbor***      **Room 102** (2<sup>nd</sup> Grade)

Students will measure the depth of the "water" and determine the best route for the ship captain to guide their ship safely into the harbor without running aground or hitting submerged obstructions which could damage the ship and cause delay.

Presenter: **Britney Fowler**, MTU Student, Clinical Lab Sciences

## Activities for Grades 4-6

### **1. *In the Driver's Seat***

**Room 105** (5<sup>th</sup> Grade)

Choose the car you like best, then find out how far it can take you!

Presenter: **Michelle Miller**, Western U.P. Center for Science, Mathematics and Environmental Education

### **2. *Shipping & Receiving Ports***

**Room 106** (6<sup>th</sup> grade)

We'll explore shipping on the Great Lakes using the Great Lakes floor map. We'll identify important shipping and receiving ports and trace the route of various cargoes from their source to various destinations in the Great Lakes system. What are these cargoes used for? Can you design a boat to carry a large load?

Presenter: **Joan Chadde**, Western U.P. Center for Science, Mathematics and Environmental Education

***Thanks for coming to Family Science & Engineering Night!! See you next year!***

Sponsored by

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