Science - Technology - Engineering - Math

Paving the Road to Your Future

DGL Consulting Engineers

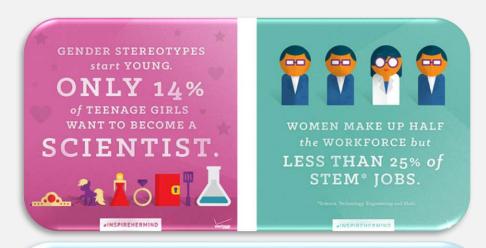
Christine Stookey, EI

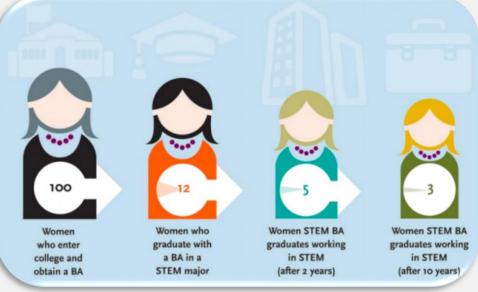
Corrinne Lochtefeld, PE



Facts about Women in STEM

- 10% of parents encourage their daughters to try engineering
- 66% of 4th grade girls report they like science and math BUT...
- 18% of engineering majors are female
- 80% of jobs in the next decade will be technology based with STEM job growth outpacing the rest by 300%!



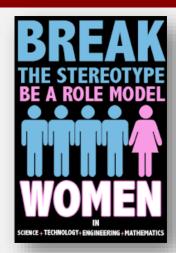


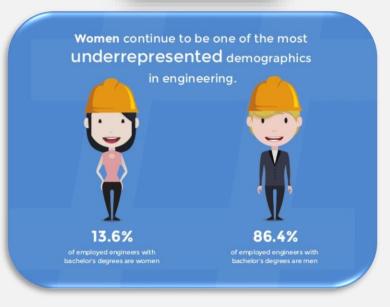
Women in Engineering

- Our experience
 - 1 of 4 girls in college classes
 - 2003-2013, 17.2%-19.2% women in engineering
 - 2014 **39,690** Females graduated with Engineering Degrees, compared to **164,488** males
 - Singular woman at professional meetings
 - Use it as motivation, not a deterrent









Where Did We Begin?

- The University of Toledo
- The University of Cincinnati



Civil Engineering







What Do Civil Engineers Do?



Disciplines

- Transportation
- Structural
- Site Development
- Environmental/Water
- Construction

What Do We Do? Transportation Engineering

Roadway Design

- Highway Design
- Urban Streets
- Intersection Improvements
- Resurfacing
- Highway Interchanges
- Bridge approaches







Traffic Design

- Signal Design and Timing
- Sign Design
- Pavement Markings
- Traffic Impact Studies
- Safety Studies

Interchange Vs. Intersection

Interchanges

• Where a highway and a city street intersect



Intersection

• Where two or more streets intersect



Interchange Types – Diamond



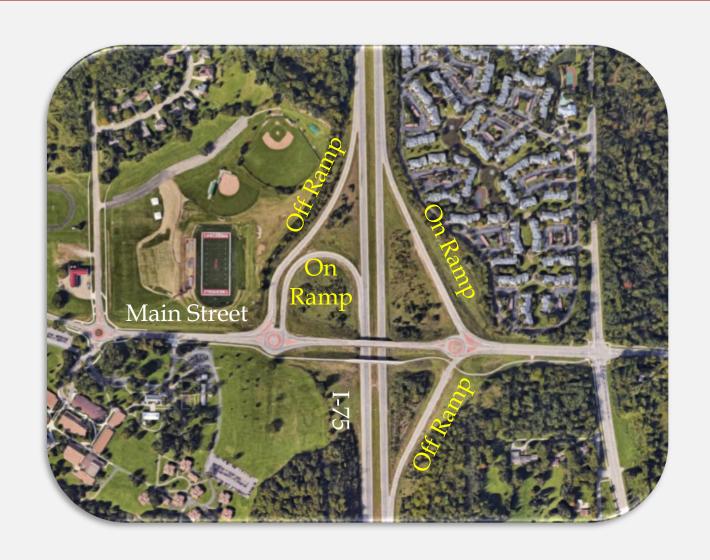
Interchange Types – Single Point Urban Interchange



Interchange Types – Single Point Urban Interchange



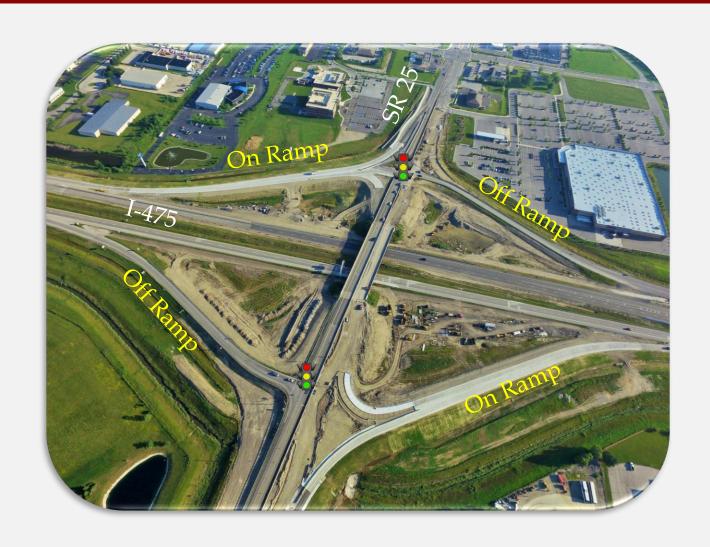
Interchange Types – Roundabout



Interchange Types – Roundabout



Interchange Types – Diverging Diamond



Interchange Types - Diverging Diamond



Activity Time









Science • Technology • Engineering • Math

