
INLAND EMPIRE SECTION



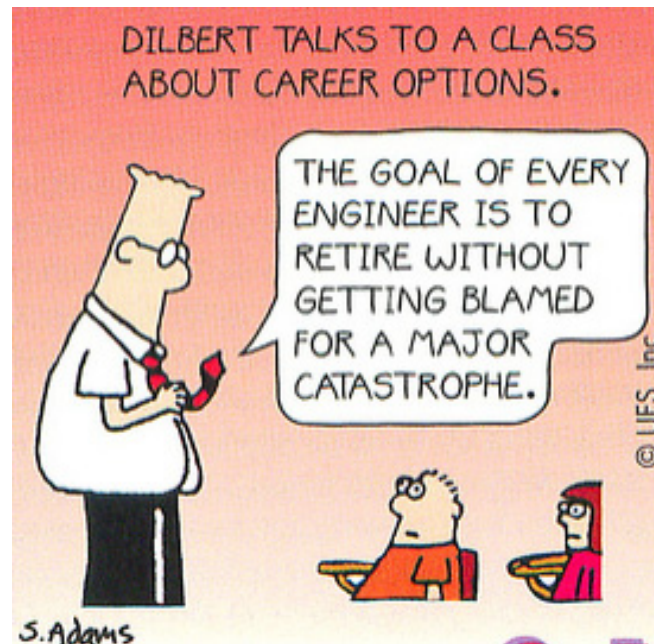
K-12 OUTREACH



WHAT IS OUR GOAL?

- Reach Out To Local K-12 Schools And Programs
- Educate On What Civil Engineering is All About
- Explain How ASCE Works and How We Can Help With Education on Civil Engineering
- Keep a History of Our Outreach Efforts and Success

HOW ARE ENGINEERS PERCEIVED?



HOW ARE ENGINEERS PERCEIVED?



WHAT DO WE DO NEXT?

- Do It Because We Want To
- Use Personal Connections
- Make Professional Connections
 - STEM Committees
 - Schools
 - Principals First
 - Teachers/Programs

YOU'RE IN! – NOW WHAT DO YOU DO?

- Talk About What You Do
- Explain Why You Are An Engineer
- Talk About How Much FUN You Have As An Engineer
- Talk About How Engineers Solve Problems

YOU'RE IN! – NOW WHAT DO YOU DO?



- BUT Don't Give Away The Secrets Of Problem Solving!

HOW TO BE SUCCESSFUL

- Make It Simple
- Use Existing Resources
- Don't Re-Create The Wheel
- Examples
 - <https://discovere.org/>
 - <https://www.asce.org/career-growth/pre-college-outreach/>

PERSONAL EXAMPLE

My Daughters Third Grade Teacher Found Out I was A Traffic Engineer And Invited Me To Talk To HER And The Students About Potholes And How Bad Traffic Was In Spokane.



PERSONAL EXAMPLE

How Are Roads Built?
How Are Potholes Created?
How To Teach This To 3rd Graders?

PERSONAL EXAMPLE

Rice Crispy Treats!

Roads: Aggregate and Slurry

Rice Crispy Treats: Aggregate
and Slurry



OTHER OPTIONS?

- Know Your Audience
 - K-5
 - 6-8
 - 9-12

OTHER OPTIONS?

- Engineering In Everyday Life
 - Toilets!
 - Clean Water
 - Garbage – Where does it go?
 - Potholes
 - Traffic Jams
 - Buildings
 - Bike Trails
 - What Else?

OTHER OPTIONS?

- STEM Curriculum
 - Offer To Be A Guest Speaker Or Subject Matter Expert
 - Job Shadowing
 - Mentoring
 - Connecting With Local Universities
 - Gonzaga
 - WSU
 - U of I

OTHER OPTIONS?

- Field Trips/Site Visits
- Work Shops/Summer Camps
- Engineering Challenges
- Design Contests
 - Balsa Wood Bridges
- Career Fairs
- Community Service Projects
- Role Models/Diversity

HERE IS THE CHALLENGE!

- Consider Your Situation
- Reach Out Where/How You Can
- Share Your Success With Others
- Put This In Our Section History
 - Learn And Document (don't lose it!)
 - Adam Rhoades

ASCE INLAND EMPIRE K-12 OUTREACH

WHAT ARE YOUR STORIES?

WHAT ARE YOUR THOUGHTS?