Role of Engineer as a Mentor

- Applications of Math & Science
- Relational K-12 education experience
- College preparation experience
- Workforce experience
- Mentor for Educator
- Mentor for Student
- In or out of Classroom
Opportunities for Engineer to be a Mentor

- Section Pre-College Outreach (PCO) Officer
- Volunteer/Participate in Section PCO Events
- Career Days at Local Schools
- After School Clubs
  - Design Build Fly
  - Robotics
- School Board Membership
- STEM Workshops for Educators
Cater to Your Audience

- Age Appropriate
- Topical
- Engage at Student Level

Karen Copper
BOEING
Karen.K.Copper@Boeing.com

St. Louis Section

AIAA
The World's Forum for Aerospace Leadership

American Institute of Aeronautics & Astronautics
Hi, my name is ..., and I am an engineer!

Why am I an engineer?

“Applying The Math, Science & Organizational Skills You Learned In School To Large Problems”

- Mark Holly
Expand their minds – Introduce New Horizons
Engage the Audience

Teams Are Important In Design & Operations
INTEGRATED PRODUCT TEAM
(Dedicated, Collocated, & Empowered)

- Loads
- Weights
- Strength
- Dynamics
- Structural Design
- Subsystems Design
- R&M
- Tooling
- Mfg Engineering
- T & E
- Configuration Mgt.
- MPP&S
- Business Ops.

Multidiscipline Approach to Affordability
Who has the most significant impact on the product?

**FACT:** Not everyone will be an engineer…
Encourage all students - Love aerospace? There is a field for you!
What Does an Engineer Do?

- Share your experiences as an engineer
  - Engage with Show & Tell

Can We Eliminate Steps And Processes?
Gee Whiz Factors
Dynamic Illustrations

- Explain what to look at, what is happening and why
- Replay
- Share the vast array of technical and engineering opportunities in the field of Aerospace
Dynamic Illustrations

• Explain what to look at, what is happening and why

• Replay

• Share the vast array of technical and engineering opportunities in the field of Aerospace
Dynamic Illustrations

- Explain what to look at, what is happening and why
- Replay
- Share the vast array of technical and engineering opportunities in the field of Aerospace
Planting the Seed

- Invest your time in the future of aerospace
☐ Educate
☐ Excite
☐ Encourage