



Attractiveness of Aviation

International Council of
Aircraft Owner and Pilot Associations

ICAO NGAP Regional Symposium
Istanbul, Turkey
June 17, 2013



IAOPA-Background

- Chicago Convention designed for civil aviation, GA ignored
- Civil aviation meant “airlines”
- IAOPA formed in 1962
- ICAO Observer since 1964
- Now -- 71 affiliates and 470,000 members worldwide.
- Worlds largest aviation membership organization



Aviation

What we all think when starting



Aviation

What we find out



Professionals Needed

Everyday General Aviation (GA)

- Medevac; transport medical materials
- Aerial traffic reports in metropolitan areas
- Law enforcement: Federal, state and local
- Search and rescue operations
- Surveying, parkland protection, environmental protection
- Reaches more than 19,000 airports (commercial: only 650)
- Agricultural growth and crop protection
- Overnight cargo deliveries
- Large-scale firefighting



People in General Aviation

- Estimated 1.5 – 2 million pilots –
 - Includes multi-type pilots
- Estimated 700,000 – 1 million aviation maintenance technicians -
 - Again, includes multi-types
- The general aviation segment has **decreased** in the past decades due to **increased** –
 - Regulation
 - Restrictions
 - Costs and fees.



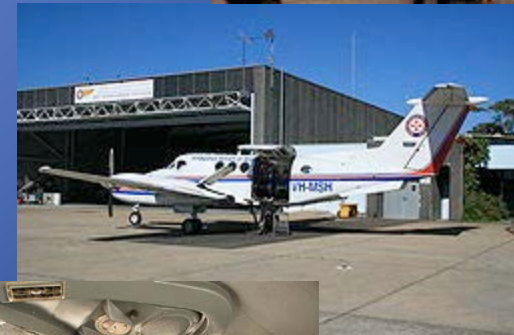
General Aviation and Commercial Air Transport Links

- Very few (none?) begin on an A320....
- In the beginning, there is general aviation
- GA is often the first time someone touches a plane
- General aviation serves as the cradle of aviation where -
 - Basic principles are learned
 - Habits are formed
 - Perceptions are gained
 - Good operating practices are absorbed.



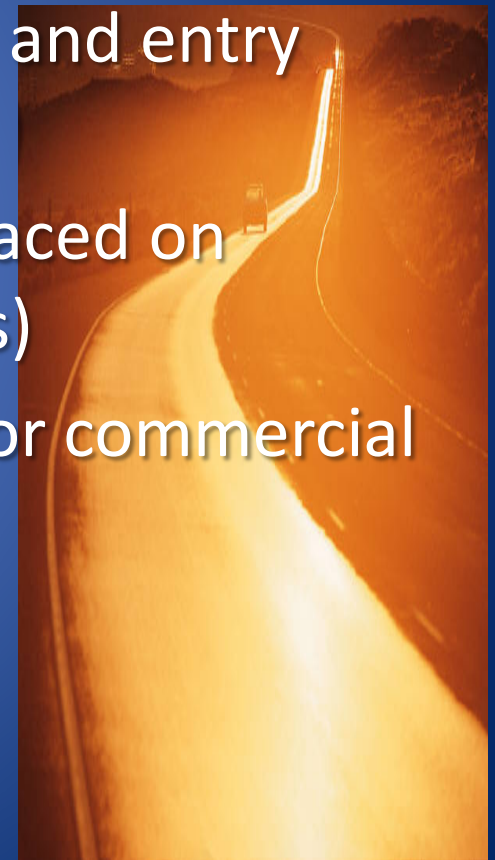
Professionals for Aviation

- In many minds, professionals are only required for airline operations
- But, they are also required for:
 - On-demand air charter
 - Corporate aviation
 - Air ambulance operators
 - Agricultural operations
 - **Flight instruction.**



Problems in Getting Started

- More difficult to take the first step due to –
 - Declining prestige, industry stability and entry level costs
 - Regulations, restrictions and fees placed on general aviation (License differences)
 - High levels of experience required for commercial air transport occupations
 - Competing opportunities....



Growing Aviation Professionals

- Get them while they are young –
 - Create a vision of aviation in their formative years
 - Introduce children to all aspects of aviation
 - Nurture the desire through –
 - Personal experiences
 - Field trips
 - Aviation camps
 - Mentoring
 - Scholarships and subsidies
- **The investment is worth your time.**



General Aviation for the Young

- EAA Young Eagles
- COPA for Kids`
- AOPA PATH
- Industry scholarships
- State sponsored programs
- International Learn to Fly Day – May 15



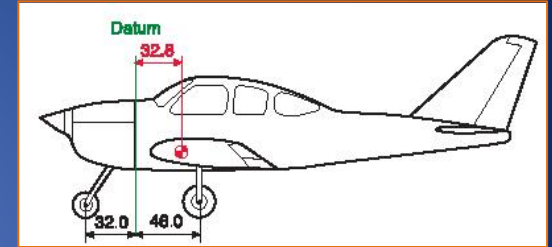
Aviation Touches Many Disciplines



Meteorology



Navigation



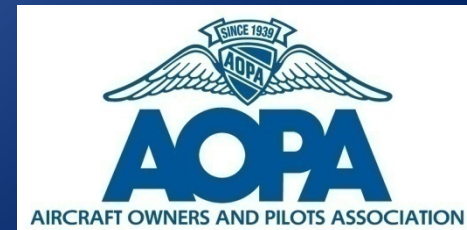
Mathematics



Communications



Geography and Topography



Aviation Touches Many Disciplines



Technology



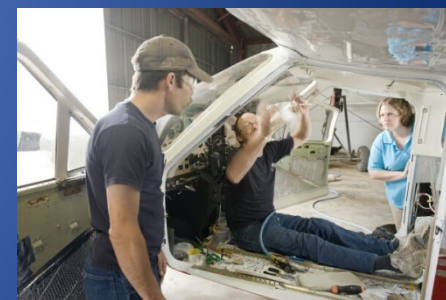
History



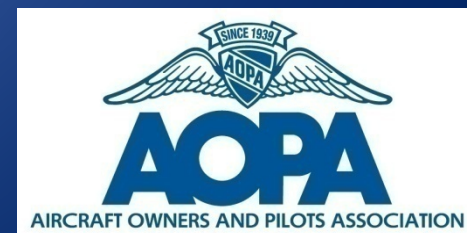
Safety



Teamwork



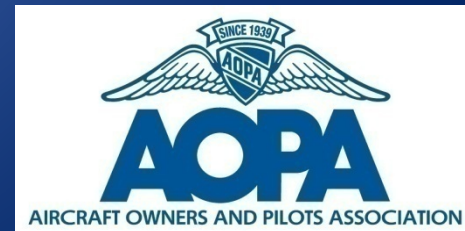
Engineering



How Aviation Benefits Students

Personal Benefits of Flight:

- Builds responsibility, character
- Improves confidence, self-reliance
- Drives personal discipline
- Sharpens organizational skills
- Pride of belonging to unique group
- Provides a unique point of view
- Encourages maintenance of good health
- Positive environment
- Encouraging and supportive community

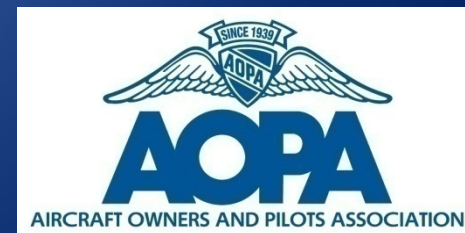


PATH Handbook

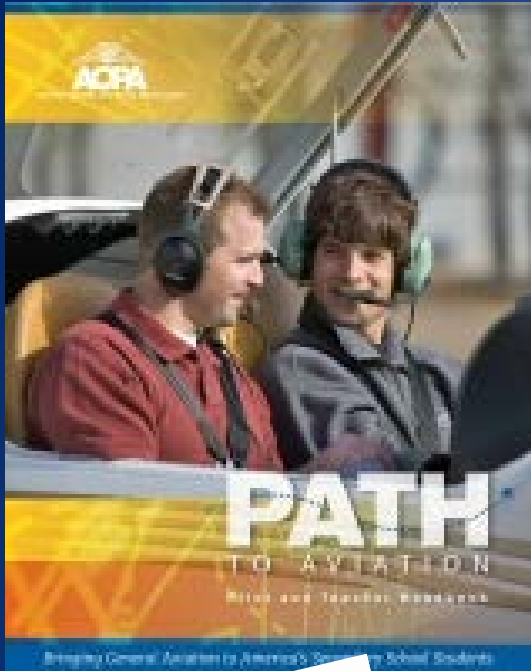


Pilot and Teacher Handbook (PATH)

- Geared toward middle school
- 11 modules for teachers
- Activities, worksheets, exercises, quizzes
- Learning objectives included
- Resources list (for further info)
- FREE PowerPoint presentations online:
www.aopa.org/path



PATH Program

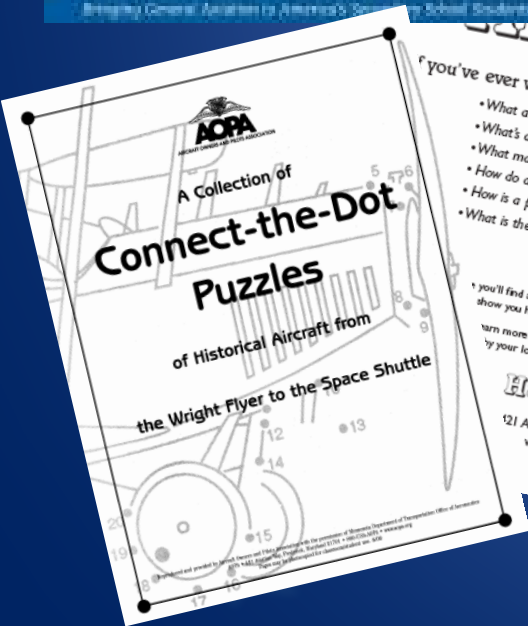


Examples

- Phonetic alphabet
- Gravity and lift
- Weather
- History/heroes

Supplements:

- Connect-the-dots puzzles (K-3)
- Airplanes (3-5)
- Aviation Careers brochure (9-12)



Airplanes!

If you've ever wondered...

- What are the main parts of an airplane?
- What's a fuselage?
- What makes an airplane fly?
- How do aircraft wings work?
- How is a plane controlled?
- What is the instrument panel?

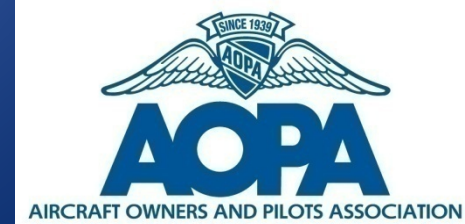
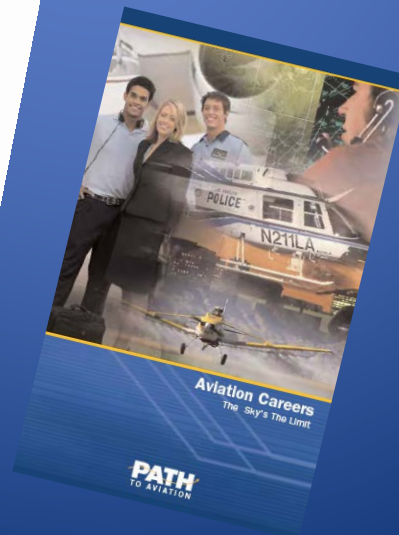


...then this guide is for you!

You'll find answers to these questions, experiments to show you how aircraft wings work, and puzzles. Learn more about aviation, check out the resource list inside, try your local library, or check out the Internet.

Have fun!

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Think Global Flight



- Round the world flight to promote the importance of STEM
- Establishment of Student Command Centers (ages 4-16) around the world to help plan the flight
- Increase the number of children across the globe, interested in and inspired by aviation and aerospace
- More info go to www.thinkglobalflight.org



The Way Ahead

- Will there be enough pilots and technicians?
 - Operation-specific knowledge/experience
 - Quality, not quantity
- Foster motivation, not just more regulation
- Start young people early; select the best
- Provide in-depth training
- Focus on the “soft” qualities:
 - motivation, maturity, judgment, discipline.



General Aviation MUST Play a Major Part in the Solution...





IAOPA

www.iaopa.org

