

WELCOME™

AOPA High School Aviation STEM Symposium



#AvSTEM16
@AOPA



YOU CAN FLY

Cindy Hasselbring

Sr. Director, High School Aviation Initiative
Aircraft Owners & Pilots Association

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AOPA High School Aviation STEM Symposium

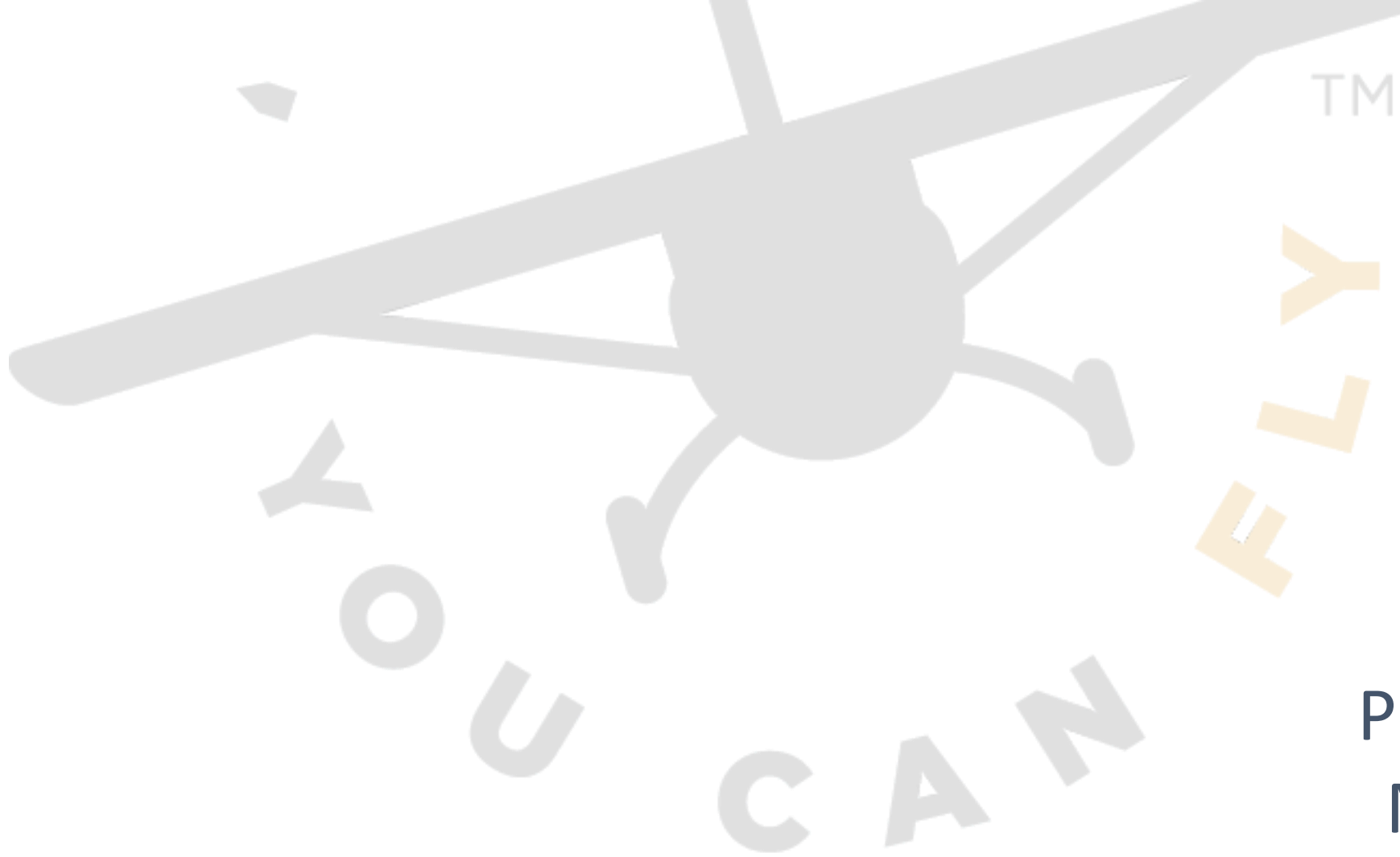


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Lee Siudzinski

Executive Director
Blue Sky Foundation



Doug King

President and CEO
Museum of Flight



Mark Baker

President & CEO

Aircraft Owners & Pilots Association

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Katie Pribyl

Senior Vice President, Aviation Strategy & Programs
Aircraft Owners & Pilots Association

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Goals of You Can Fly

- Introduce more young people to aviation and aerospace
- Improve the experience people have during flight training
- Keep the pilots we have active and engaged for the long-term

What Will Make You Can Fly Work?

1. Four initiatives aimed at different points in a pilot's lifecycle

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HIGH SCHOOLS
POWERED BY **AOPA**



FLIGHT TRAINING
POWERED BY **AOPA**



FLYING CLUBS
POWERED BY **AOPA**



RUSTY PILOTS
POWERED BY **AOPA**

What Will Make You Can Fly Work?

1. Four initiatives aimed at different points in a pilot's lifecycle
2. AOPA's long-term commitment
3. Discipline around measuring progress and results
4. **Passion!**

A large, faint watermark of the AOPA logo is visible in the background. It features a stylized airplane silhouette in grey and yellow, with the letters 'AOPA' in a large, light grey font. A 'TM' trademark symbol is located in the upper right corner of the watermark.

AOPA High School Aviation Initiative

Cindy Hasselbring, Sr. Director, High School Aviation Initiative, AOPA

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Why Aviation/Aerospace?



HIGH SCHOOLS
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North American Workforce Needs 2016-2035



Pilots
112,000



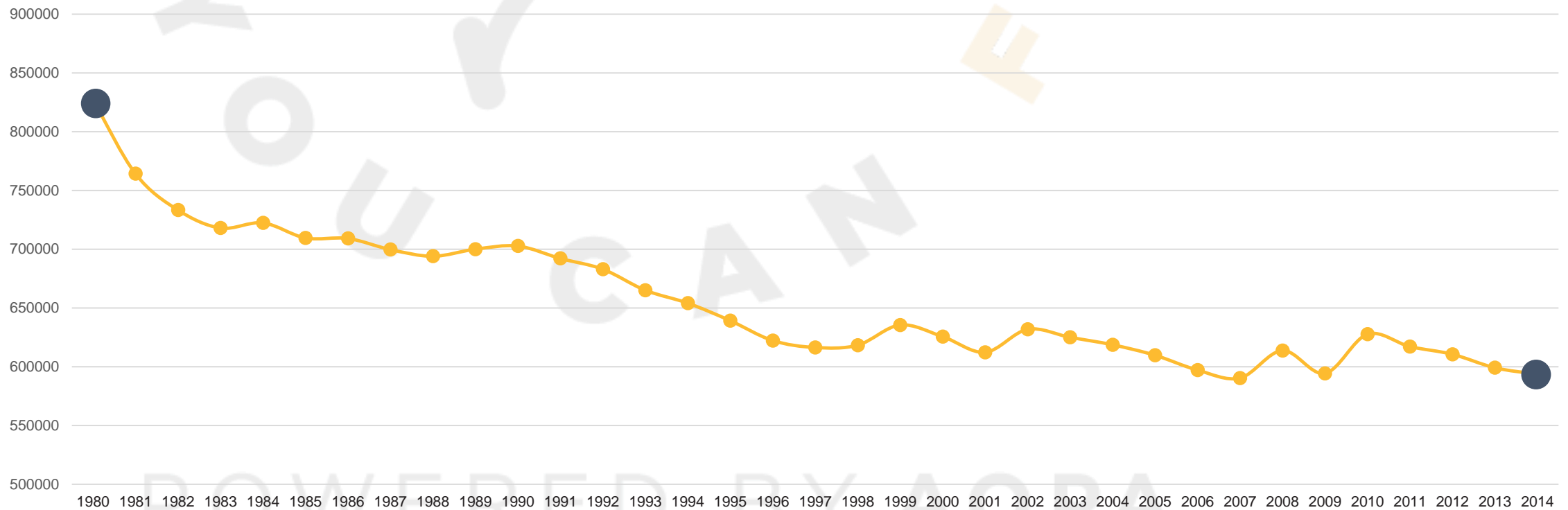
Technicians
118,000

Source: 2016 Boeing Pilot and Technician Outlook

Active Certificated Airplane Pilots, US

1980 827,071 Active Pilots

2014 593,499 Active Pilots



How does AOPA define a “High School Aviation STEM program”?

A course of study, series of courses, or comprehensive high school focused on exposing students to careers in aviation/aerospace, engaging them in rigorous content, and providing a path for them to continue their studies in aviation related fields.

- Make connections between aviation and STEM content
- Expose students to aviation/aerospace careers
- Engage students in real world learning with aviation content
- Prepare students to be part of the aviation community

Goal of AOPA High School Aviation Initiative

Increase student awareness of and engagement in career opportunities in aviation and aerospace

- Increase the number of high school aviation STEM programs around the country
- Improve and expand current high school aviation STEM programs

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TM

Pat Cwayna

CEO

West Michigan Aviation Academy

Chairman

AOPA High School Initiative Steering Committee

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AOPA's High School Aviation Initiative

Where we've been

- **DEC 2014** First organizational meeting of the High School Steering Committee
- **NOV 2015** First Annual High School STEM symposium Lakeland, FL
- **FEB 2016** Cindy Hasselbring joins AOPA as the first employee dedicated to the high school initiative

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AOPA's High School Aviation Initiative

Where we're going

- **Aviation STEM Curriculum Development**

Purdue University

4 CTE pathways

Teacher resources

- **High School Flight Training Scholarship Program**

20 scholarships

\$5,000 each

Ages 15-18

- **Annual High School Aviation STEM Symposium**

Nearly 200 educators

31 states

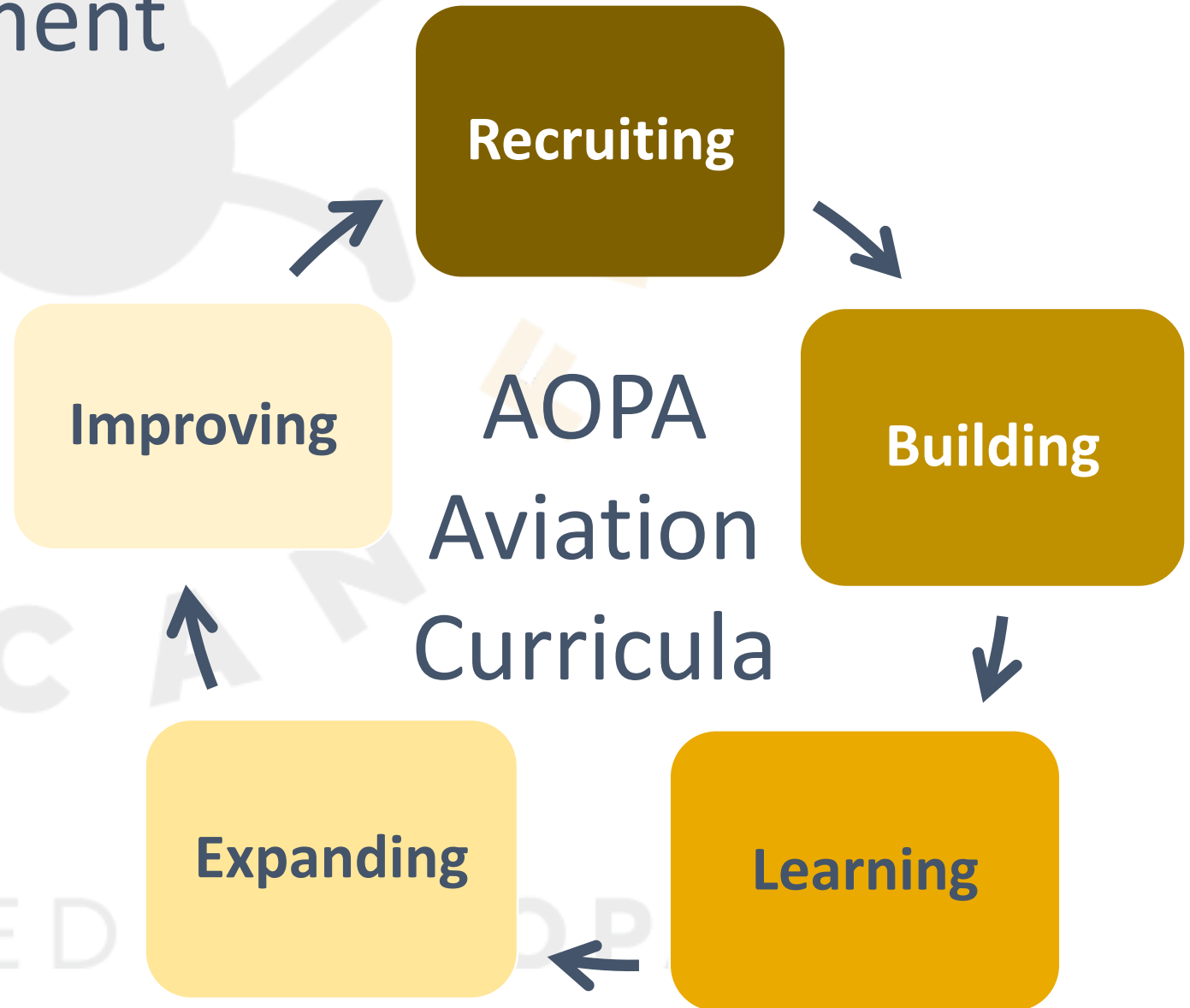
Network, share best practices

AOPA's High School Aviation Curriculum Development Timeline

	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
9 th	Develop Courses	Field Test	Implement			
10 th		Develop Courses	Field Test	Implement		
11 th			Develop Courses	Field Test	Implement	
12 th				Develop Courses	Field Test	Implement

AOPA's High School Aviation Curriculum

Ongoing Commitment



AOPA's High School Aviation Curriculum

How...

Recruiting Schools

Education conferences
Speaking engagements
Partnerships with education associations/organizations
AOPA network
Airshows, other aviation events

Building Programs

Student recruitment tools
AOPA Aviation STEM Symposium
Flexibility with curricula, one course or entire pathway
CTE approval

Teacher Learning

You Can Fly Academy
Aviation educator on-line learning community
Frequent and regular communications
Aviation educator network

AOPA's High School Aviation Curriculum

How...

Expanding

**Add another grade level
or course**

**Add another CTE
pathway**

Teacher learning

Improving

**Provide feedback to
AOPA**

**Track metrics/data on
success of students
enrolled in aviation STEM
courses**

**Attend AOPA High School
Symposiums**

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Goals for today



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- Learn from a wide variety of aviation STEM program educators
- Share ideas and challenges with like-minded aviation educators
- Build relationships that will be ongoing and helpful
- Create a path for next steps in building or improving your own program based on what you have learned today

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Highlights of today's agenda



HIGH SCHOOLS
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- Philanthropy panel
- Lunch keynote
- Networking activity
Highlights/strengths of your program, areas you are looking to develop/build
- Breakout sessions
- Raisbeck Aviation High School tour
Meet 5 min prior to start, outside Skyline room
- Purdue presentation on curriculum development
Purdue survey
- Alaska Airlines tickets giveaway
Must be present to win

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Private Philanthropy in Support of Aviation Education

Shaunta Hyde

Alaska Airlines

James Raisbeck

Raisbeck Engineering

Brad Lawrence

Esterline Technologies
Corporation

Sam Whiting

Boeing Commercial
Airplanes



Mary Lynn Rynkiewicz

Director, Communications

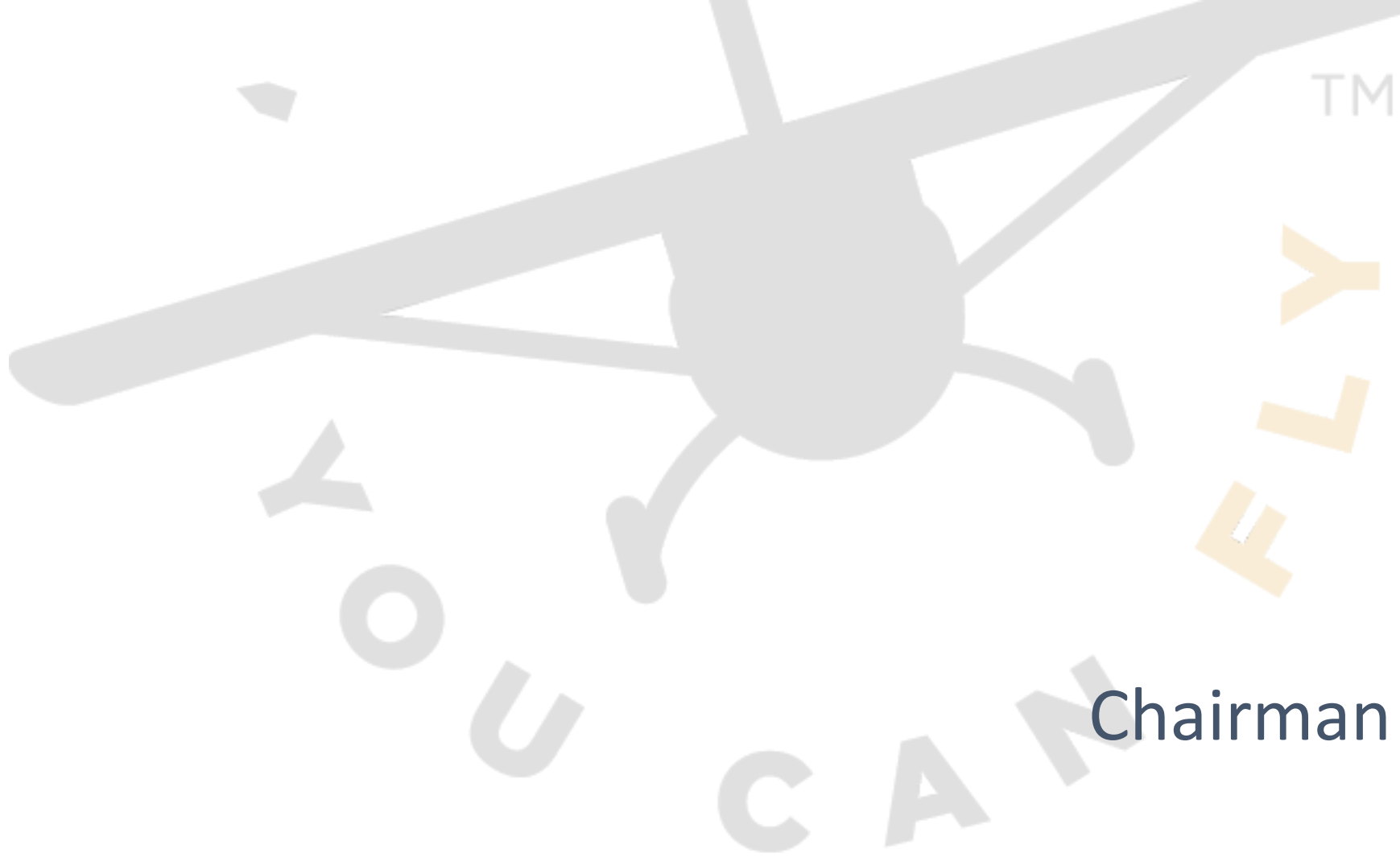
General Aviation Manufacturers Association

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Bill Ayer

Chairman and CEO, Retired
Alaska Air Group

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