



2017 Illinois Wing Aerospace Conference



Opening Greeting

9:00 – 9:10 (Great Room)

- ◆ Opening statements and welcome to the aerospace education conference
- ◆ Maj Craig Knickerbocker

Opening Speaker

9:10 – 9:30 (Great Room)

NASA Ambassador CAP Capt Mike Marzano
LAKE IN THE HILLS COMPOSITE SQUADRON

NASA's current Commercial Space partners, and the road to Mars

Morning Sessions— (also see all day activities)

9:45 – 10:35 (Theater Room)

Breakout Session 1 for AEO's morning session

- ◆ "Birds Aren't The Only Things That Fly" (A brief history on flight will be given as a game show format).
- ◆ Presented by: Capt. Raymond Mucha the Illinois Wing Historian.

10:45 – 11:35 (Theater Room)

Breakout Session for AEOs

- ◆ Corporate aviation and aerospace education
- ◆ Presented by: Mr. Kyle Lewis (AOPA)

9:45 – 10:35 (Family Room)

- ◆ STEM Rocket Building Session #1

10:45 – 11:35 (Family Room)

- ◆ STEM Rocket Building Session #2

11:45 – 12:35 (Theater Room)

Breakout Session for AEOs

- ◆ Updates for the AE program - regulations & guidelines, STEM kits, and the external AE program.
- ◆ Presented by: Lt Col Michael R McArdle (NHQ AE Program Mgr)

12:30 – 1:30 Lunch (Food truck available all day)

- ◆ Ongoing voting on airplane models
- ◆ Additional time to view STEM kit presentation and the UAV Challenge



Afternoon Sessions— (also see all day activities)

1:30 – 2:30 (Living Room)

“Aviation Career Exploration” (This discussion panel consists of an A&P, Corporate Pilot, Airline Pilot, Air Force Recruiter and Flight Instructor. It is an opportunity for cadets considering a career in aviation to ask questions and explore the options)

Panel Members:

- ◆ Maj Tim Markham (Aviation Maintenance)
- ◆ Mr. George Roy (Corporate Aviation) (Former CAP member and Spaatz Cadet)
- ◆ Maj David Gillingham (Flight Instruction)
- ◆ Mr. Kyle Lewis (AOPA)
- ◆ Capt Dave Hooper (Airline Pilot Retired)
- ◆ Capt Mark Carroll (Meteorologist)



1:30 – 2:20 (Theater Room)

Breakout Session for AEMs and AEOs

- ◆ “Science of Toys in Space” Maj Art Urban, presenter.
- ◆ This is an interactive program showing how simple toys that were taken aboard the space shuttle can be used to teach the effects of gravity and Newton’s Laws of Motion. It’s hands-on and shows how to make some of the toys without having to go out and buy them.

2:30 – 3:20 (Theater Room)

Breakout Session for AEMs

- ◆ Presented by: Major Carol Curtis
- ◆ “Integrating The CAP Aerospace Education Programs into the Classroom Curriculum”.

3:30 – 4:20 (Theater Room)

- ◆ Breakout Session for AEOs and others
- ◆ Thunderstorms and General Aviation
- ◆ Capt Mark Carroll (Meteorologist)

2:45 – 3:45 (Living Room)

- ◆ Cadet Team based AE themed Quiz Bowl

4:30 – 5:00 (Great Room)

- ◆ *Closing Awards* for model contest and Quiz Bowl
- ◆ **Presentation of Illinois Wing Awards**

All Day Events:

STEM Kit Displays and Information: (Great Room)

Virtual Reality Flight Simulator

Astronomy

Robotics

Weather Station

Raspberry Pi

RC Aircraft Flight Simulator

Quadcopter

Hydraulic Engineering

Rocketry

Remote Controlled Aircraft

All Day Events: (Continued)

EAA Airplane Ride (Ramp)

– Separate event available to CAP cadets and public

Glider O-Flights (All Day)

- ◆ Prescheduled CAP cadets only
- ◆ Transportation from terminal to glider staging area

Powered O-Flights (All Day)

- ◆ Prescheduled CAP cadets only
- ◆ Transportation from terminal to staging area

UAV Obstacle Course Challenge (Hanger)

- ◆ CAP members only
- ◆ Transportation from terminal to hangers

UAV Demonstration (Afternoon – Weather Dependent)

- ◆ CAP members and public
- ◆ Grass area East side of ramp

Airport Museum (Off Great Room)



A Shuttle will be provided at the airport for those who wish to attend.

Thank you to our 2017 Conference Sponsors

