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Welcome to WinnAero

Welcome to the spring issue of WinnAero News. In this issue, you will: Read about our newest members of the Board, Karen Mitchell & John Seeler; Hear our plans for ACE Academy 2016; Be introduced to the 2016 NH-AFA Teacher of the Year; Learn about teacher professional development; and, Hear about aviation education efforts with schools and other student groups. Finally, you'll read about some of our needs, and some recent donations to help with our mission.

As always, if you have questions or require additional information, please email one of the board members, visit us on FaceBook or on the web at <http://www.winn aero.org>.

Welcome to the WinnAero Board, Karen Mitchell & John Seeler

Karen Mitchell was first introduced to WinnAero activities at an airport open house 3 years ago. Since then, she has become an integral part of our educational mission. She served as our "test subject" during development



New Board member Karen Mitchell



New Board member John Seeler Flying Young Eagles




Wolf Aviation Fund

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Marv Everson, Airport Liaison



of the Aerospace Dimensions workshops and helped adapt and modify activities so teachers could best use them back in their classrooms. She has also Co-Presented our Girl Scout Aviation Adventure and is entering her 2nd year as an ACE Academy instructor. Karen teaches science at **Laconia Christian Academy**, where she is incorporating aviation and space topics into her curriculum. Karen lives in New Hampton with her husband Scott and two children.

John Seeler is the newest member of the WinnAero Board. John is owner and president of **ATS Precision**, a manufacturing company in New Hampton, NH, where his career began almost 30 years ago. John's extensive experience pertains to machining and fabrication primarily in aerospace and high-end commercial applications including CAD/CAM, Manufacturing/Process Engineering, Welding, and Quality Systems. In his 20s, John followed his passion for flying and completed his training as a private pilot. Currently, his ratings include Commercial Pilot Airplane Single & Multiengine Land, Instrument. John is an active pilot who enjoys volunteering for Angel Flight NE and the EAA Young Eagles program. He loves working on his airplanes as much as he does flying them so he also holds a certificate as an Airframe & Power Plant Mechanic. John lives in Bristol with his wife Lurée and their son Ethan. Welcome to the Board, John!

ACE Academy Planning for 2016

The ACE staff is well into the planning process for 2016. Student and parent comments from the evaluations identified the following two areas we hope to improve upon for ACE 2016.

More Flight Time

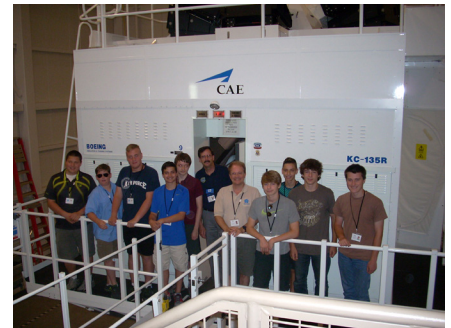
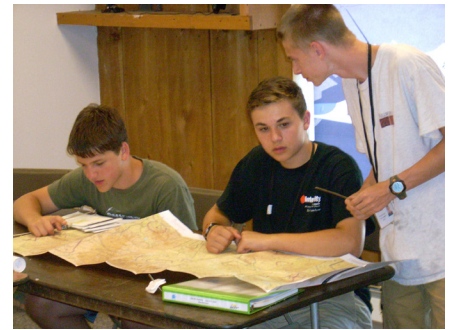
This is very difficult due to the cost involved, however, we are seeking ways to increase flight time for high school students who have attended our ACE Academy three or more times. We are also considering flights on rotary wing as well as fixed wing aircraft.

Career Themes

When students register for ACE, they will select a group which will concentrate on a particular career theme. Each group of students will concentrate on 2 career fields in a given week. All students will still receive a flight experience, but their exposure to additional career fields will be determined by the group in which they have registered. The two high school groups will be: aerospace manufacturing/engineering; and air frame and power plant mechanics. High school students will also be introduced to unmanned aerial vehicles (aka: UAV/UAS/drones). The middle school groups will be: air traffic control; search/rescue and emergency services; and aerospace manufacturing/engineering. The elementary groups and the space academy group will have the same type of activities as last year.

STEM Teacher Cecelia Carroll Named NH-AFA Teacher of the Year

The **BG Harrison R. Thyng Chapter of the Air Force Association** recently announced **Cecelia Carroll**, from **Hampstead Academy**, as the



Activities from ACE Academy 2015.



Winnisquam MS teacher, Jim Stapleton, "plays" with a Slinky to compare its function in gravity to video taken on board the space shuttle in microgravity. Toys in Space is a discussion topic from the Space Environment teacher workshop.

NH-AFA Teacher of the Year. Carroll is a long time CAP Aerospace Education Member and participant in the WinnAero Aerospace Dimensions workshop series. Through her efforts, Hampton Academy students participate in a variety of STEM activities including: Sea Perch, MathCounts, and a trip to Space Camp in Huntsville, AL. In addition to the NH-AFA Teacher of the Year Award, Carroll is the 2015 recipient of the NH STEM Teacher Award from the NH Association of Engineers. Congratulations Cecelia Carroll!

Teacher Professional Development Workshops

We are coming to the end of another round of CAP Aerospace Dimensions workshops for teachers. The first three aviation sessions were run last fall and the three space sessions this spring. As a result, there are now three new CAP Aerospace Education Members in NH. **Earl Russell, Cecelia Carroll and Jim Stapleton** have joined the group of teachers who are now eligible to take advantage of CAP grants, STEM Kits, curriculum materials and other benefits.

AvEd School and Organization Partnerships

ACE Academy at BSA Expo: WinnAero ACE Academy was well represented at the Boy Scouts STEM Expo on March 5 in Nashua. ACE Academy instructors **Karen Mitchell, Christine Landry and Paul Gelin** set up a display, and a flight simulator and answered the scout's questions about ACE. According to Gelin, the simulator was a very busy place to be!

Girl Scouts: Saturday, April 2 was a busy day at LCI. WinnAero arranged an Introduction to Flight session for a group of Girl Scouts. The scouts met with **Karen Mitchell and Christine Landry** in the **Sky Bright** hangar to learn about various aircraft, build gliders, hot air balloons and conduct other aviation related experiments. Throughout the morning, the girls took turns at the controls while **EAA pilots John Anderson, John Bourdon and John Seeler** took them for their **Young Eagles** flights.

Bedford High School: WinnAero is entering into its 5th year partnership with **Bedford High School** on their April Aviation Intersession program. Laconia **EAA Chapter #1516 president John Leahy** and **ACE Academy instructor Bob Rotier** will assist with the flight simulator lab at the school. The group will then spend a day at LCI to tour the airport and all students will receive an orientation flight through the EAA Young Eagles program.

Belmont High School: The STEM students at **Belmont High School** are organizing an Aviation Discovery Day at LCI on May 14. They presented their plans at a recent WinnAero Board meeting and received the full support of the board. Under the direction of teacher **Dave MacDonald**, the students are formalizing their plans and will meet back with the board prior to the event.

BSA Merit Badge Counselors: Two of our Board members are registered with the Daniel Webster Council, **Boy Scouts of America** as merit badge counselors for the Aviation and the Space Exploration merit badges. **Bill Seed** (Aviation) and **Dan Caron** (Space Exploration) are available to work



with scouts to help them achieve these badges.

Female EAA Young Eagle Pilots Needed

During the course of the year, we work with our local EAA Chapter and various schools and scouting groups to provide Young Eagle orientation flights. When working with girls, we always try to provide role models for them to look up to. Our “go-to” pilot at LCI is **Gena Adams**, however, she’s scheduled to fly for NetJets during the two events we have scheduled. If there are any female EAA pilots out there who wish to help fly the girls, please let us know. Contact Dan at dwcaron@hotmail.com . Thank you!

Help Send a Student To ACE Academy This Summer!

Your support now will ensure a meaningful ACE experience for a deserving student and foster within that student a love of flying and all things related to flight. WinnAero is a registered 501 (c) 3 non-profit organization so any donation is tax deductible.

Donations may be made by mail with a check payable to “WinnAero” and sent to the organization at 65 Aviation Way, Gilford, NH 03249. On-line donations may be made using our website at www.winnaero.org and clicking on the “Donations” tab.

Teacher Resources

Rocketry Certification: The **National Association of Rocketry** (NAR) is now offering a rocketry certification for formal and in-formal educators. The course is self paced and on-line. For details, visit <http://www.nar.org/educational-resources/welcome-to-nartcert/lets-get-started-in-nartcert/>

Flight Simulator Donations

Special thanks to **Diane Hanley & Dr. Michael Dowe, MD** for their recent donation including a simulator (yoke and foot pedals), head sets, knee pad, software, etc. The head sets are currently on short term loan to Bedford High School while the flight simulator spent 2 weeks with new **CAP AEM Earl Russell at Antrim Middle School**.

Also, a special thanks to **Drew Jousset** who donated his ATC 610 flight simulator. His family is moving and he doesn’t have space for the simulator in his dorm room! His donation includes: ATC-610 simulator console foot pedals, flight plotter, set of Ground School Cassettes, ATC Flight Assignment Series cassette library, Single Pilot Operation in the IFR Environment cassette series, and “The Aviator’s Guide to Navigation” by Donald J Clausen. Thank you Drew!

Donations: Time, In-Kind, Money

Our plans are great and our board has more ideas, however, we can’t execute them without additional assistance. Some areas where we could use help include: teacher professional development, publicity, fund raising, and planning student activities. If you or your organization wish to be a part of this grand adventure, please contact **Scott Davis** at sdavisnh@gmail.com



Teachers Jim Stapleton, Earl Russell and Cecelia Carroll perform a variety of experiments to better understand rocketry, orbital mechanics and spacecraft.

Some of our supporters who have assisted with our activities...

Aviation Association of New Hampshire
Concord Municipal Airport * Columbia Realty

Diane K. Kline Memorial Scholarship Fund

Naples Seaplane Services, Inc. * The Pardoe Foundation

Woodbury Middle School



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