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Welcome to WinnAero

Welcome to the fall issue of WinnAero News. In this issue, you'll read about ACE Academy 2015 and the planning for 2016. There are reports on teacher professional development, teacher resources from the National Association of Rocketry, and partnerships with other organizations.

Lastly, it is with deepest sorrow that we report the passing of longtime board member **Vladimir Vascak**. He will be missed.

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.winnaero.org>.

WinnAero/Laconia Airport ACE 2015

ACE Academy 2015 was an amazing time for students and instructors alike. Our students this year arrived excited about aerospace and were ready to learn. The instructors were amazed at the extent of the knowledge they brought to the show. Their questions were spot on and really pushed the presenters to bring it up a few notches.

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Laconia Airport, the lake in the background and Gunstock Resort in the lower right. Photo taken during a NG Blackhawk orientation flight.



Student's from ACE Academy 2015: Flying with the National Guard, and with the Air National Guard.

Wolf Aviation Fund

As we continue to grow, we offered 2 full weeks of aviation academies for elementary, middle and high school. We also offered SpACE Academy for the first time and were encouraged by the students' comments at the conclusion of the week. A total of 51 students participated this year, 9 elementary, 23 middle and 19 high school students. Thanks to the generosity of many contributors, we were able to provide \$5100 to 21 students so they could participate in the week's activities. When asked to comment on the statement, "We got our money's worth from ACE Academy," two parents agreed and added, "It is worth any amount of money to have a 14 year old talk about his day! The car rides and dinners were filled with detailed conversations!" and, "The experiences in which Timmy was able to take part not only opened his eyes to the many facets of the world of aviation, but



Student sit in the runway snow plow at MHT Operations

ACE Academy
Week 1



ACE Academy
Week 2



likewise fed his passion. It's one thing to learn and discuss all the aspect, it's another to experience them in person.”

The Laconia Citizen did a wonderful job with a post ACE news release.

The link follows:

<http://thecitizen.villagesoup.com/p/exploring-the-wild-blue-yonder/1383349>

ACE Academy Planning for 2016

Student and parent comments help to drive the improvements to our ACE Academy offerings each year. The Instructor Team meets at the end of each day to discuss how to make the next day better. Additionally, we meet at the end of ACE to discuss changes that need to be made for future years. Frequent comments request more flight time. We also find it difficult to provide the career speakers and presenters who interest all students. Not all student have the same interests and they all wish there could have been more (or less!) information about a particular career. These are the two areas we hope to work on 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

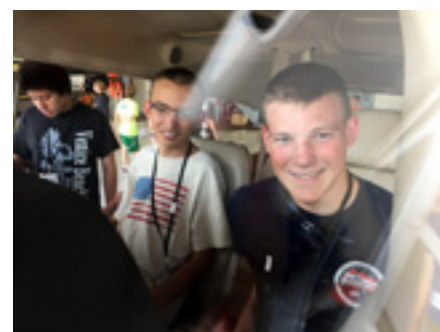
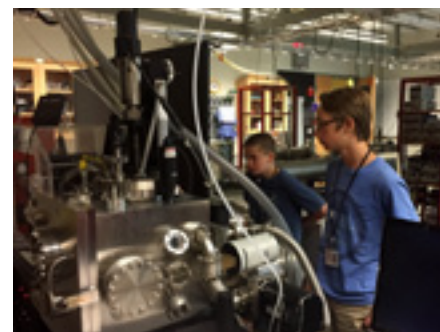
When students register for ACE, they will select a group which will concentrate on a particular career theme. Each group of students will concentrate on 2-3 career fields in a given week. All students will still receive a flight experience, but their exposure to additional career fields will be determined by the group in which they have registered. We will soon contact ACE 2015 participants to see which career fields are of most interest. Suggested Career Fields include: Pilot, Airlines and Airport Operations, Aircraft Systems Maintenance, Law-related Services, Health Services, Airline and Airport Services, Aircraft Manufacturing Occupations, and Science and Technical Services.

Materials Donation

Thank you to **Joe McGonagle** for the donation of his flight bag and flight planing materials. ACE Academy includes a session on planning and navigation and Mr. McGonagle's materials will allow students to see how planning was done prior to iPads and Tablets. More importantly, they will know what to do when the batteries in their Pads and Tablets run down!

Teacher Professional Development Workshops

Six different session are planned that will cover the 6 **Civil Air Patrol** (CAP) Modules; Introduction to Flight, Aircraft Systems and Airports, Air Environment, Rockets, Space Environment and Spacecraft. Two additional sessions have been added, a Teacher Orientation Program (TOP) Flight and



Some of the many activities at WinnAero ACE: interviews, trips, class instruction, model building.

an Aerospace Excellence session. Teachers attending these sessions will receive a one year CAP Aerospace Education Member (AEM) membership and an opportunity to apply for CAP grants. NH CAP Aerospace Education Officers are invited to participate as well.

In every workshop, teachers “do” the activities just like their students will. They also discover granting organizations to help them plan and implement the activities with their students. These include: CAP AEX, STEM Kits, and classroom grants from CAP, Air Force Association, American Institute of Aeronautics and Astronautics and the National Association of Rocketry. All sessions are held at the Laconia Airport in Gilford NH. Check-In starts at 8:30, adjournment at 3:30.

There is a \$75 registration fee for non Civil Air Patrol members and \$40 registration fee for CAP AEMs and Senior Members. Registration includes all workshop materials, lunch, snacks, & CAP AEM membership. The following sessions are scheduled:

- Saturday, September 19, Introduction to Flight
- Saturday, October 3, Aircraft Systems and Airports
- Saturday, October 10, Air Environment
- Saturday, October 31, TOP Flight
- Saturday, March 5, Rockets
- Saturday, March 19, Space Environment
- Saturday, April 2, Spacecraft
- Saturday, April 16, CAP AEX

Registration forms and other information is available on-line at www.winnaero.org

PSU Grad Credit Opportunity for Workshop Participants

Graduate credit is now available to teachers participating in our latest workshop series from **Plymouth State University**. For every 2 sessions attended, a teacher can qualify for 1 graduate credit. After their second session, teachers will need to develop an implementation plan for their classroom.

AvEd School and Organization Partnerships

Girl Scouts: WinnAero has once again partnered with the **Girl Scouts** to offer an aviation experience for girls in the NH & VT area. Scouts will participate in hands-on activities that demonstrate the forces of flight and how planes stay in the air. They will be introduced to the parts of an aircraft (engines and flight surfaces) airport markings, management and operations. Finally, girls will be provided with an opportunity to fly a plane with an Experimental Aircraft Association (EAA) flight instructor through the Young Eagles program. The first opportunity is on Saturday, October 17, from 8:30 – 4, while the second opportunity is on Saturday, April 2, from 8:30 – 4.

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**



Above: Teachers from Antrim and Hampton Academy complete activities during the first Aerospace Dimensions workshop session.



Seed (Aviation) and **Dan Caron** (Space Exploration) are available to work with scouts to help them achieve these badges.

Teacher Resources

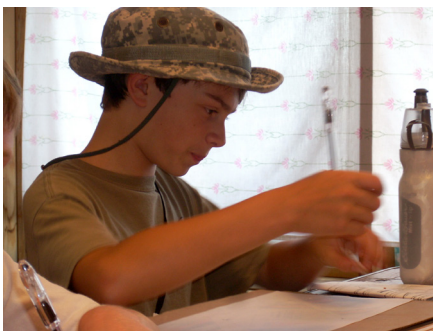
Rocketry Certification: The **National Association of Rocketry** (NAR) is now offering a rocketry certification for formal and in-formal educators. The course is self paced and on-line. For details, visit <http://www.nar.org/educational-resources/welcome-to-nartcert/lets-get-started-in-nartcert/>

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 sdavishn@gmail.com

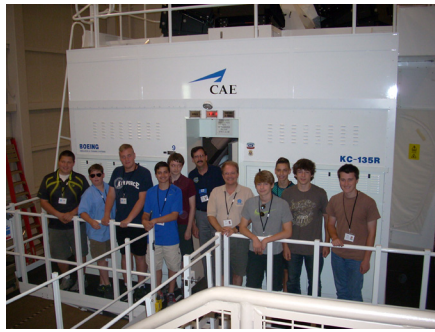
In memoriam..... Vladimir Vascak

It is with great sadness that WinnAero announces the passing of one of our original founding members, **Vladimir Vascak**. Vlad's innovative ideas, analytical thought processes and sense of humor will be sorely missed at our Board meetings. A technology teacher by profession and a former Air Traffic Controller in his native Czechoslovakia, Vlad's background was a perfect match for the STEM initiatives of WinnAero. Vlad's wife and family request, in lieu of flowers, that donations may be made in Vlad's memory to the International Study Scholarship Fund at Plymouth State University. Donations should be sent to the PSU Advancement Office, MSC 50, 17 High Street, Plymouth, NH 03264-1595. Please mark your check "In memory-Vladimir Vascak". WinnAero appreciates the long and fruitful service to our organization by this good and gentle man. Fly West in Peace old friend.



Some of the many activities at WinnAero ACE: interviews, trips, class instruction, model building.

More pictures from WinnAero ACE Academies 2015



ACE information for next year will be available in early spring 2016.

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

Aviation Association of New Hampshire
Concord Municipal Airport
Diane K. Kline Memorial Scholarship Fund
Naples Seaplane Services, Inc.



U.S. AIR FORCE

