

BLAINE AIRPORT PROMOTION GROUP

The aerospace industry is a cooperation of public and private industries that research, design, manufacture, operate and maintain vehicles that move through the air and space

Taking your ambitions skyward



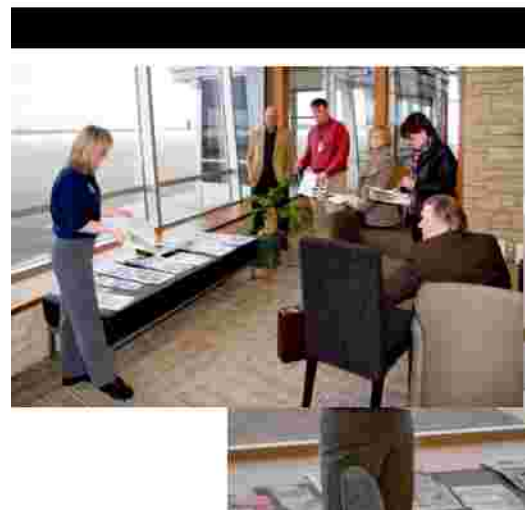
The Education Coordinator

March 10, 2011

On February 14th we were host to Anoka-Hennepin District 11, Secondary Science Teaching & Learning Specialist, Renae Lenhardt, Coordinator of Magnet & Specialty Schools, Lynn Jaeck, STEP Instructor-Aviation, Peter Groebner. A tour of Golden Wings Museum, Cirrus Flight Operations, Twin Cities Aviation, and the Control Tower were included in the first half of the tour.

Roger Hansen used his van to shuttle the group to the various places and then to a meeting hosted by Key Air where they were met by Harvey Karth, Shelly Supan, and Anoka-Hennepin School District 11, Superintendent, Dennis Carlson

Shelly opened the meeting with a presentation of the CAP Curriculum for Aerospace for K—12 and showed the material that is free to the schools and the Drug Demand Reduction program.



Roger presented the Adopt-A- school program and provided a folder of material containing a CD of the program and reminders of their visit.

We mentioned STEM last month as one of the levels of the schools mandates to encourage Science, Technology, Engineering, Math in K-12 classes. This month we are working with two new levels called PLTW (Project Lead The Way) and STEP (Stanford Teacher Education Program).

What is PLTW?

PLTW is a High School Program of courses over four years which combine the traditional Mathematics and Science courses in high school, introducing students to the scope, rigor, and discipline of engineering prior to entering a post-secondary institution. Their mission is to assure the success of an ever increasing diverse group of students in the engineering technology fields of study that are experiencing critical shortages in the job market. Our Flight Control flyer will be posted on the Minnesota PLTW website and was introduced at a PLTW Minnesota statewide conference on March 1-2, 2011. James Macklenberg is the PLTW Program Director, Minnesota Center for Engineering & Manufacturing and is our guest March 10, 2011 to present his views on PLTW.



What is STEP?

STEP seeks to prepare and support teacher leaders through courses designed and organized to foster an understanding of and commitment to research, reflect and inquire in the classroom; a blend of theory and practice, and the effective use of technology as a teaching and learning tool. As an example; our guest Peter Groebner is a STEP member and holds a pilot license and teaches Aeronautics in the District 11, High School STEP Program. Peter has worked at the Blaine Airport as a pilot. We have looked at Peter's background in Aerospace studies and passed the information to Mark Voigt at District 16, Spring Lake Park High School. Peter will be supportive in Mark's request to find an engineer to help with a class project and national contest in wing design.

Another example; Harvey Karth has contact with Bolduc Aviation and Air investments agreeing to host specialized requests of high school students motivated in Aeronautics or involved in a STEP program. Mark Voigt will also be introduced to these businesses that match his high school programs in Aerospace. Thank You for being a tour sponsor!

We have spent two months looking at the school programs and inviting school administrators and decision makers to our businesses. A list of businesses that can offer tour time during their busy schedules based on their type of operation is now being developed. With this list in hand we can begin to direct teachers to places that will blend with their program and make tours and individual visits more meaningful.

We become part of the schools mandate...

We are partnering with the schools that choose to accept our tour program offer so there are two more teaching levels that we see making a total of 5 levels.

Level 5: STEP—These are Teacher Leaders, Decision Makers in curriculum design.

Level 4: PLTW—Special four year High School Programs introducing students to the scope, rigor, and discipline of engineering.

Level 3: STEM—Science, Technology, Engineering, and Mathematics. According to the United States National Research Council and the National Science Foundation, the strength of STEM fields are viewed as an indicator of a nation's ability to sustain itself.

Level 2: Teachers and School Coordinators seeking Aerospace Technology as a teaching tool.

Level 1: Blaine Airport Promotion Group sponsorship of tours of airport businesses, MnDot Aeronautics, Adopt-A-School, and Civil Air Patrol Aerospace Curriculum.

We should be optimistic about the efforts we see being put forth in the school's programming of Aerospace studies that will make needed changes that provide tools appealing to both teacher and student. (See page 4 for a current snapshot of our schools)

Recent developments...

As Harvey Karth develops the list of businesses that host our tour program he will consider ways to combine our program with the Blaine Aviation Days events.

With these items in place we are ready to work with the various teaching levels 2—5 to produce some tours.

Peter Yelle, Community Education Coordinator, Spring Lake Park School District 16, is working with Shelly Supan on a summer program May 23—26. This will include tours and a CAP program so please put this date on your calendar.

Scott Johnson, a resident of our community, has been looking at ways to get involved with our promotion group and has recently given a presentation to EAA to work with Young Eagles programs. We will hear more from him in the coming weeks.

TEACHING TEACHERS THAT TEACH TEACHERS HOW TO TEACH

“Teacher’s become, because of the work they do themselves.”

*Jean Lythcott,
Clinical Associate in Science Education
Stanford Teaching Education Program*

We think that *the ladder or ships steering wheel of success* begins with school and teaching. Some of the rung unfortunately are broken.

A SCHOOL VISIT...

A four room school set on the prairie. The Linnell School, district 38, employed three teachers for the 90—100 students of the 1st – 8th grades. Teachers were: Miss Evelyn Abbott, Miss Mable Olson, and Mr. Robert Jeffery. A fourth room was the library and storage area.

The school had an enviable record of scholarship. Ninety per cent of its pupils completed their education as seniors at the Park Rapids Minnesota High School.

“Yes, the little red schoolhouse and their teachers unquestionably merit, not only orchids, but some heartfelt cheers.”

*Alice Dinsdale,
Detroit Lakes Record, April 25, 1940*

A Red Cross publication printed during WWII, *The Red Cross First Aid Manual*, was not popular, perhaps because their writers lacked perspective of what was taking place in the homes, and farms of American life. Some of that same sentiment is playing out today when confronting the impact of a globalization and the competition it brings to our educational industry. The American public senses that throwing more money at the