



2.0 Spotlight



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OCTOBER
2012

Snapshot of STARBASE 2.0

This year marks the fourth year of STARBASE 2.0, and as we start this year's program, it is helpful to take a moment to look at what we have learned so far. Last year, the Office of the Assistant Secretary of Defense for Reserve Affairs contracted for a survey of the nineteen STARBASE 2.0 sites that were in operation at that time. These results offer an important snapshot look at the program:

Strengths

- » The top strengths of the STARBASE 2.0 Program are school system support; management/planning; excited and dedicated participants; the community; and the STEM content.
- » The best selling point for a school to agree to host a 2.0 program was the fit between the STEM programs offered by 2.0 and the curriculum requirements of the school. The association with the STARBASE "brand" was also considered a positive factor.

Obstacles

- » The most significant obstacle cited in starting a 2.0 program was staffing limitations. Concerns about finding mentors and time constraints were also mentioned. Some identified the challenges in identifying a school advocate for STARBASE 2.0.
- » The predominant constraints to operating a more effective 2.0 program were reported as time constraints for students; funding; and keeping and finding mentors.

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"How wonderful it is that nobody need wait a single moment before starting to improve the world." -- Anne Frank

A STARBASE 2.0 Program Spotlight

Established Programs

STARBASE Arizona - Margaret Cole
Tucson, AZ

STARBASE Atlantis - San Diego - Nick Jordan
Sacramento, CA

STARBASE Hartford - Melissa Vanek
Hartford, CT

STARBASE Robins - Wesley Fondal
Warner Robins, GA

STARBASE Topeka - Jeff Gabriel
Topeka, KS

STARBASE Atlantis - Pax River – Julie Guy
Patuxent River, MD

STARBASE Battle Creek – Bruce Medaugh
Battle Creek, MI

STARBASE Minnesota – Kim Van Wie
Minneapolis, MN

STARBASE Montana – Mike Stone
Fort Harrison, MT

AF STARBASE La Luz – Ronda Cole
Albuquerque, NM

STARBASE North Dakota – Lisa Murphy
Minot Air Force Base, ND

STARBASE Wright-Patterson – Dann Andrews
Wright Patterson Air Force Base, OH

STARBASE Oklahoma - Tulsa – Pam Kirk
Tulsa, OK

STARBASE Kingsley – Marsha Beardslee
Klamath Falls, OR

STARBASE Rapid City – Sarah Jensen
Rapid City, SD

West Virginia STARBASE Academy – Chris Treadway
Charleston, WV

STARBASE Martinsburg – Sherra Triggs
Martinsburg, WV

Wyoming STARBASE Academy – Barbara Marquar
Cheyenne, WY

Programs Starting Fall 2012

STARBASE Kansas City – Jeff Gabriel
Kansas City, KS

STARBASE Salina – Jeff Gabriel
Salina, KS

STARBASE Wichita – Jeff Gabriel
Wichita, KS

STARBASE Louisiana – Kathy Brandon
Barksdale AFB, LA

STARBASE One – Rick Simms
Selfridge ANG Base, MI

Texas STARBASE - Houston – Gail Whittemore-Smith
Houston, TX

Programs Gearing Up to Start in 2013

California STARBASE -John Lamb
Sacramento, CA

STARBASE Florida Inc. – Greg Stritch
Jacksonville, FL

STARBASE Alpena – Sarah Prevo
Alpena, MI

STARBASE Atlantis - Gulfport – Keith Agee
Gulfport, MS

STARBASE North Carolina - Charlotte – Barbara Miller
Charlotte, NC

STARBASE Portland – Jere Fitterman
Portland, OR

STARBASE Swamp Fox - Bob Semmler
Eastover, SC

STARBASE MCAS Beaufort – John Motley
Beaufort, SC

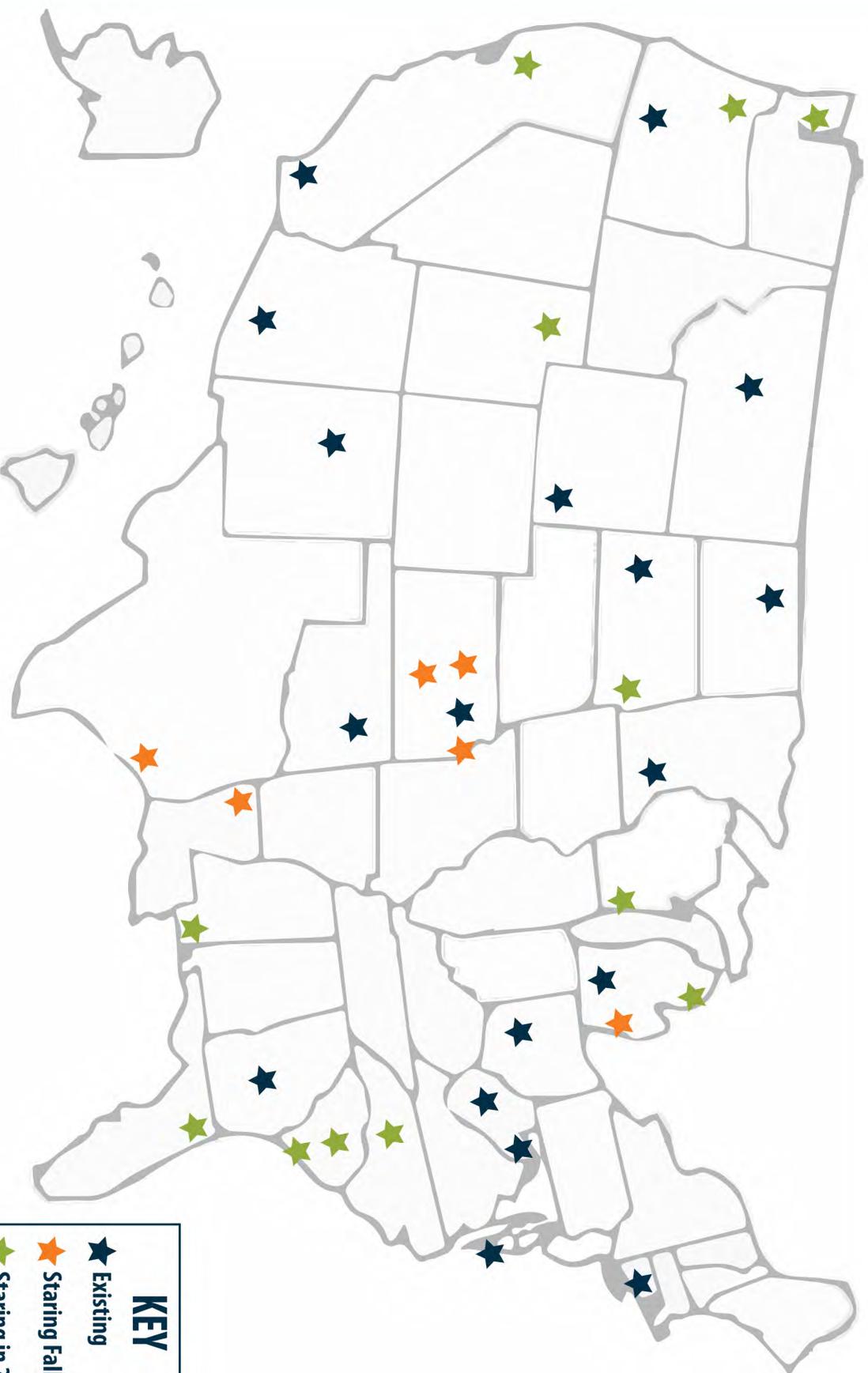
STARBASE Sioux Falls – Vonny Revell
Sioux Falls, SD

STARBASE Hill Screaming Eagles – Frances Bradshaw
Hill AFB, UT

STARBASE Atlantis - Silverdale – Moreell Yates
Silverdale, WA

STARBASE Wisconsin – Charisse Seky
Milwaukee, WI

STARBASE 2.0 Nationwide



KEY	
★	Existing
★	Starting Fall '12
★	Starting in 2013

Spotlighting Lessons Learned

STARBASE Hartford on Program Management

If your project is a long project that carries over a large number of weeks, consider breaking it up every now and then with a small “stand-alone” engineering challenge. It seems that sometimes all the students need is a quick small challenge to overcome to get their creative juices flowing again, so they can come back to the larger challenge with new perspective and more motivation.



STARBASE Oklahoma - Fort Sill on Summer Planning

For the past two summers, a summer camp was held at the Ft. Sill Youth Center for students entering 6th grade to promote the 2.0 club for the next school year. This is a week-long camp that is led by 2.0 mentors, and this year's theme was rocketry. Thirteen students from ten different elementary schools attended this June, and eight of these students attended the DoD STARBASE program last school year. There are many positive camp outcomes, but one of the most noticeable is the number of students that join the 2.0 club after their participation in 2.0 summer camp.



STARBASE Oklahoma - Tulsa on Curriculum Ideas

Hamilton Elementary School DoD STARBASE 2.0 club selected CO₂ Dragsters for their STEM project this school year. The Hamilton 6th grade club members had studied Newton's Three Laws of Motion at STARBASE in the 5th grade and Rocketry was one of the activities selected for the 5th grade programming in Physics. The CO₂ Dragster project was not included in the 5th grade programming due to time constraints. Oklahoma STARBASE 2.0 built on the 5th grade STARBASE curriculum by reviewing the Newton's Three Laws of Motion parent lesson and adapting the CO₂ Dragster project for the 2.0 club.



Reminder:

Have you had an epiphany lately? Light bulb moments where the perfect idea becomes clear? Sharing Lessoned Learned is essential to our nationwide success. Please share your insights with us by emailing jennifer.buck@mac.com.

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STEM Projects | Robotics and Scalextrics were the predominant STEM activities used by more than half of the STARBASE 2.0 sites. Other activities included engineering design, rocketry, CO₂ dragsters, wind turbines, hovercraft, and forensic science.

Program Support | External sources of support for STARBASE 2.0 were reported predominantly as the school systems. Private industry and 501c3 organizations were reported in more than half of the programs. PTAs and foundations were also identified.

Mentors

- » Nearly 60% of the STARBASE 2.0 Programs utilized military volunteers as a source for their mentors. 31% also reported that they utilized local companies. STARBASE staffs were utilized as mentors for about 16% of the STARBASE 2.0 programs, and 10% of the programs reported a source of teachers, universities, and government agencies. (These statistics don't add up to 100% because STARBASE 2.0 Programs may use more than one source for mentors.)
- » 37% of the STARBASE 2.0 Programs identified that they had 6-10 mentors. 32% identified 11-20 mentors; 21% had 5 or less mentors, and 10% had more than 20.
- » The ratio of mentees to mentors was 3-5:1 for 63% of the programs. 21% of the programs had a ratio of 5-10 mentees to mentors, and 16% had a ratio of one or two mentees per mentor.
- » About one half of the mentors maintained a mentoring relationship for less than six months, and slightly more than half had mentoring relationships that lasted more than six months. Most individuals who continued mentoring beyond one cycle indicated that it was based on commitment to STEM programs.
- » The termination of mentoring generally related to the completion of one or more STARBASE 2.0 cycle. Ten programs indicated that mentors terminated early 20% or less of the time. The primary reason for early termination were due to employment or scheduling conflicts. None reported that the cause of early termination was a failure to have a good "match" with the students.
- » The most important elements of success for the mentoring component associated with STARBASE 2.0 were identified as support from other stakeholders such as parents, mentors, local organizations, and the schools; committed staff; mentors and their training, and excitement for the STEM content of the STARBASE 2.0 program.

As STARBASE 2.0 continues to expand, we will stay in touch with you to see if any of these factors change dramatically.

Spotlighting the Way Ahead: The 2012-13 Call for Participation

Throughout the 2012-13 school year, this newsletter will continue to spotlight the achievements, partnerships, and tips of the participants of the STARBASE 2.0 program.

Each month, a call will be sent out to all site participants focusing on a different aspect of the STARBASE 2.0 program.

November 2012 will focus on the STEM Projects being used by each site. Participants are asked to send information about their chosen STEM Projects to jennifer.buck@mac.com.