



GARFIELD COUNTY



4-H CLOVER CONNECTION

<http://oces.okstate.edu/garfield>
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JULY, 2018

STEMists Make Learning about Science Fun

While these former 4-H'ers who are now college students are taking a break from the classroom this summer, they have not taken a break from the educational realm. In fact, they are the ones doing the teaching while they serve as STEMists.

As a STEMist, this group of students-turned-educators is helping youth around the state learn new things using science, technology, engineering and math.

The 4-H Summer STEMist Program is back for the second year and the students leading the charge have already been burning up the roads around Oklahoma, said Hannah Branscum, STEM coordinator in the State 4-H Office on the Oklahoma State University campus.

"We received such positive feedback last year about this program," Branscum said. "Our STEMists are going to 4-H camps, daycare centers, club meetings, festivals, schools, libraries, YMCAs – really any place there are children. This is a great opportunity for youth to learn more about science, technology, engineering and math in a fun and engaging manner. It's also a great way to promote the Oklahoma 4-H Youth Development Program."

Last year, the STEMists visited 32 counties and reached 2,039 youth. This summer, they already have traveled to 29 counties with several weeks still left in the program and are on track to reach even more youth.

STEMist Program activities are geared toward children ages 8 to 18, with some programming appropriate for youth ages 5 to 7. Programming efforts are being taught in topics including drones, solar oven, solar cars, power of wind, rainwater harvesting, hot air balloons and DNA.

One exciting activity is building a solar oven to direct the use of solar thermal energy and explore heat transfer through radiation and conduction. Another will focus on rainwater collection systems.

Another activity the STEMists use around the state is the hot air balloon launch, in which youth build and launch a hot air balloon. This process demonstrates thermodynamics, wind currents and weather.

Branscum said students will learn how solar panels can be used to generate electricity through the design of a solar car. Others will have a chance to discover the basics of DNA and heredity through the extraction of DNA found in fruits. A couple other activities focus on the power of the wind, in which youth will create and test wind generators, as well as learn about what it takes to fly a drone.

"The activities our STEMists do with participants is hands on and really helps the kids learn that science isn't scary," Branscum said. "Scientific literacy is important, and introducing it in a fun way at an early age can help kids gain a better understanding earlier in their education. This program not only addresses the need for scientific literacy, but it also fulfills the 4-H Program's science mission mandate. It's a great opportunity for these kids to learn about various careers associated with STEM activities."

In addition, STEMist activities are a great way to show how all 4-H project areas have some science component and there is no way to separate science from other projects.

Funding for the STEMist Program is provided by Enel Green Power. For more information about the STEMist program, contact your local OSU Cooperative Extension office, or Branscum at 405-744-4141 or hannah.branscum@okstate.edu.

DATES TO REMEMBER

4-H Outdoor Adv.	July 9-15
Public Speaking W/S	July 16
Cupcake Decorating w/s	July 17
Advanced sewing w/s	July 19
AFR Leadership Summit	July 22-24
AFR Leadership Summit	July 25-28
4-H Roundup	July 25-27
Cool-tie W/s	Aug. 1
Back-to-School Bash	Aug. 2
Cloverbud W/S	Aug. 2
Jr. Record Books Due	Aug. 6

NEXT PLO MEETING

JULY 16, 2018
AT 5:30 P.M.

- 2018-19 COUNTY OFFICERS**
- President**—Natalie Haggard
- Vice President**—Brianna Deeds
- Secretary**—Madison Nickels
- Reporter**—Bailey Hoeltzel
- Rec./Song Leaders**—
Madison Postier and Ethan Haggard
- Executives**—Kaitlyn Booth and Morgan Meyer

PUBLIC SPEAKING WORKSHOP

Madison Postier will be teaching a public speaking workshop on **July 16, 2018, from 2:00—4:00 p.m.** It will be held at the Garfield County OSU Extension Center conference room.



COMMUNITY SERVICE OPPORTUNITY

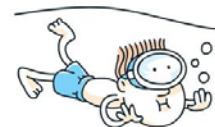
Madison Nickels has chosen to make Cool-ties for the service men and women as her service project. Soldiers are able to wear the cool-ties around their neck to stay cool while on duty. She is having a work day on **August 1** to make cool-ties to send. Members will be sewing the cool ties. If you don't sew, you can help press fabric!



BACK-TO-SCHOOL BASH

MARK YOUR CALENDARS—

The Back-to-School Bash is tentatively scheduled
for **August 2 at 6:00 pm**
at the Kremlin Pool.



CLOVERBUD WORKSHOP

On August 2, from 2-4:00 p.m., there will be a workshop for the Cloverbuds. This is any one 5—8 years old.

Please sign up by July 27, 2018

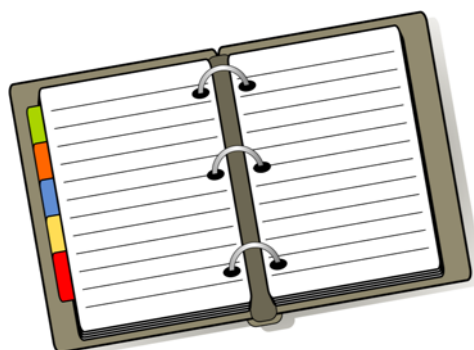
SUMMER WORKSHOPS!

July 2nd, 1:30-3:30 – Necklace making – Earla Haggard will be teaching how to make a beaded necklace for yourself or mom / grandma. **Sign up by June 22.**

July 17th, 2-4 –Cupcake Decorating – Learn how to decorate cupcakes in several fun ways. **Cost is \$5, Sign-up by July 11th.**

July 19th 9:30-3:30 – Advanced Sewers – We will be making a holiday table runner. This is for advanced sewers. Please bring a lunch. **Sign up by July 12th and pick up supply list.**

PLEASE PAY FOR WORKSHOPS WHEN YOU SIGN UP !!



***JUNIOR RECORD BOOKS
DUE TO 4-H OFFICE: AUGUST 6, 2018***

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Jessica Nickels
Ext. Educator 4-H & Youth Development



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IN THIS ISSUE

Public Speaking W/S	2
Cool Tie W/S	2
Back-to-School Bash	2
Cloverbud W/S	2
Summer W/S	3
Jr. Record Books Due	3

I pledge...

my *head* to clearer thinking,
my *heart* to greater loyalty,
my *hands* to larger service, and
my *health* to better living for
my *club*, my *community*,
my *country*, and my *world*.

