

# STEM-U Sewing Up Science Workshop

## *“Innovating the Future of STEM”*

### Tuesday, August 04, 2015

8:00 am - 8:30 am	Registration and breakfast - <b>STE<sup>2</sup>M Grand Room – second floor of the Edith Bowen Lab School Building</b>
8:30 am - 9:30 am	Welcome – Dr. Beth Foley – Dean of the College of Education and Human Services Keynote Speaker – Louis S. Nadelson
10:00 am - 12:00 pm	Introduction to squishy circuits, paper circuits, and Wordpress blogging app on the Android Tablet Create table card nametag with paper circuit Taking photos with phones and tablets for blogs
12:00 pm – 12:30 pm	Lunch <b>STE<sup>2</sup>M Grand Room</b>
12:30 pm – 12:45 pm	Lesson planning requirements
12:45 pm – 1:00 pm	Richard Scott
1:00 pm - 2:15pm	Squishy circuits Paper circuits Create blog entry about paper circuits and squishy circuits
2:15 pm – 2:35 pm	Break
2:35 pm – 3:45 pm	Finish up blogging Share blogs
4:00 pm – 4:15 ppm	Daily wrap-up, team planning, prize drawings: <b>STE<sup>2</sup>M Grand Room</b>

### Wednesday, August 05, 2015

8:00 am - 8:30 am	Breakfast - <b>STE<sup>2</sup>M Grand Room</b>
8:30 am - 9:30 am	Keynote Speaker: Tami Goetz, PhD – Director of Utah STEM Action Center Introduction to e-textiles
9:45 am -12:00pm	Create LED bracelet or other form on felt
12:00 pm -1:00pm	Lunch <b>STE<sup>2</sup>M Grand Room</b>
1:00 pm - 2:15pm	Introduction to Gemma Arduino microcontroller and Neopixel LED for creating more complex e-textiles
2:15 pm – 2:35 pm	Break
2:35 pm – 3:45 pm	Finish up morning e-textile and begin Gemma e-textile Create Blogs for Day 2 Share blogs

4:00 pm – 4:15 ppm | Daily wrap-up, team planning, prize drawings: **STE<sup>2</sup>M Grand Room**

### Thursday, August 06, 2015

8:00 am – 8:30am	Breakfast - <b>STE<sup>2</sup>M Grand Room</b>
8:30 am – 9:15	Meet the Pros
9:30 am – 11:15 am	Sewing e-textile with Gemma Arduino
11:15 am - 12:00 pm	Lunch
12:10 pm – 12:45 pm	Travel to Cache Makers via CVTD Bus 10 to Walmart
12:45 pm – 2:45 pm	Field Trip – Cache Makers
3:40 pm – 4:00 pm	Break
4:00 pm – 4:15 ppm	Daily wrap-up, team planning, prize drawings: <b>STE<sup>2</sup>M Grand Room</b>

### Friday, August 07, 2015

8:00 am - 8:30 am	Registration and breakfast - <b>STE<sup>2</sup>M Grand Room – second floor of the Edith Bowen Lab School Building</b>
8:30 am - 9:30 am	Keynote Speaker
9:30 am – 10:15 am	Family Engineering
10:15 am - 12:00 pm	Introduction to reading a sensor with Gemma Arduino Plan out sensor demo
12:00 pm - 1:00pm	Lunch <b>STE<sup>2</sup>M Grand Room</b>
1:00 pm - 2:15pm	Work on sensor demo project
2:15 pm – 2:35 pm	Break
	Work on sensor demo project
2:35 pm – 3:45 pm	Create blog for day 4 Share blogs
4:00 pm – 4:15 ppm	Daily wrap-up, team planning, prize drawings: <b>STE<sup>2</sup>M Grand Room</b>