



A Collaboration Providing STEM Professional Development  
for Orange County's Expanded Learning Programs

## The Orange County STEM Hub Presents...



### Join us for a Professional Development Day focused on STEM in Expanded Learning

**Date:** Friday, November 4, 2016  
**Location:** Boys & Girls Club of Garden  
Grove Main Branch  
9860 Larson Avenue,  
Garden Grove, CA 92844  
**Time:** 8:00 a.m. – 12:00 p.m.

#### Guest Speaker & Break Out Sessions

##### Breakout Sessions Include:

- Technology – QR Codes
- STEM on the Playground
- NGSS & Expanded Learning Programs
- STEM Professionals Meet & Greet
- Quality STEM in Expanded Learning: What, Why, and How – California Afterschool Network

#### Who Should Attend?

All Expanded Learning Programs Directors,  
Supervisors & Frontline Staff

#### Registration Information

**Registration is open and free**

**Deadline to register November 2, 2016**

#### Online registration only

To register, visit:

<http://ocstemfactorynovember.eventbrite.com>

#### For registration information contact:

Suzanne Hill, Project Assistant  
Power of Discovery, [shill@ocde.us](mailto:shill@ocde.us)

# Orange County STEM Factory Workshop Descriptions

*Please review these descriptions, upon registration you will be asked to sign up for the sessions you would like to attend. Please keep in mind that workshop sessions may fill up, register early to save your space.*

## **Everyday Science on the Playground Workshop**

**Kelly Ellis, Inside the Outdoors, Orange County Department of Education**

Swings, slides, and jungle gyms are lots of fun for kids to play on, but they can also be useful teaching tools. In *Everyday Science on the Playground*, participants will learn how to change their swings into lessons about simple machines; their slides into lessons about motion and friction; and how a jungle gym is a great place to do experiments on gravity. This workshop will include:

- An activity guide with background information and activities for each participant
- A resource list for getting inexpensive equipment for creating your own experiments or duplicating the activities presented at the workshop

## **Get "Hands-on, Minds-on" with the Next Generation Science Standards!**

**Christie Pearce, Science Coordinator, Orange County Department of Education**

This NGSS 101 session will help you learn the fundamental information you need to know in order to support the new standards.

## **STEM Professionals Meet & Greet**

**Laurie Smith, Program Manager, Science@OC**

Come and meet STEM Professionals! These interactions with individuals involved in the STEM fields will allow program staff to explore the practical application of Science, Technology, Engineering, and Mathematics in a fun and inspiring way. There is an added benefit of learning about potential careers and key steps for support your students in achieving their aspirations.

## **Quality STEM in Expanded Learning: What, Why, and How**

**Jessica Hay, Program Manager, California Afterschool Network**

This interactive session will answer the questions: What is STEM? Why is it important? And how can I offer quality STEM learning opportunities to students in my program? Participants will have the opportunity to experience and reflect on a STEM learning opportunity and explore how that activity reflects the Quality Standards for Expanded Learning in California, Common Core State Standards, and Next Generations Science Standards. Participants will also receive resources that can be used to support STEM learning as part of a continuous quality improvement process. Such resources include assessment planning tools, promising practices, curriculum, activities, and funding opportunities.

## **Technology & Expanded Learning**

**Kristin Thomsen, Education Technology Coordinator, Orange County Department of Education**

This session will explore fun ways to use QR Codes during expanded learning time and how you and your students can create them! Ideas for using QR Codes will be shared and then we will get hands-on as we create a QR Code activity of your choice that can be used with your students. (Free tools. Mobile technology preferred. However, QR codes can be scanned with Chromebook's camera as well.)

*\*If attending this training, please bring a mobile device with a QR scanner with you and access to a Google account (additional materials will be shared through Google drive). \**