## S — Bugs Inside Out!
A local entomologist (scientist who studies bugs) teaches all about bugs! learn about their survival strategies, observe and study bugs with microscopes, and more.

## T — De-Bugging Coding
Learn how computer programs are created-- CODING! Learn basic computer programming and gain understanding of how our modern world works in this fun and exciting workshop.

## E — Bee Builders
Local Beekeeper, Hilary Kearney, will provide an interactive presentation teaching children what a beekeeper does and explores the concepts of pollination, beehives and bees' lifecycles.

## A — Sunshine in a Jar
Discover how energy from the sun is harnessed into energy used to light our homes. Design and create an environmentally friendly light using mason jars and solar energy light bulbs.

## M — Paper Insects
Develop an understanding of 3D shapes and explore the finer details of spatial geometry through origami in this hands-on workshop.

## All of STEAM — Circuit Bugs
Children will incorporate fine motor, circuitry and creative crafting skills to create bugs out of pipe cleaners, LED lights, and batteries.

The Catalog of Life @ the Library effort is part of a Library initiative to bring **STEAM** programs to the San Diego Public Library.

*Spring into STEAM* is geared towards students age 9 to 12 and will feature free, hands-on science programs in March, April and May. Inspired by Catalog of Life, these programs will include entomology, coding, bioengineering and other science subjects centered around a bug theme.

- **S**cience
- **T**echnology
- **E**ngineering
- **A**rts
- **M**ath

### Partners:

Centre for **Bio**diversity Genomics

lifescanner

All GIRLS STEM SOCIETY

GIRL NEXT DOOR HONEY

Canada

SPARKprogramming

THE LEAGUE OF EXTRAORDINARY SCIENTISTS & ENGINEERS — LXSE

THOUGHTSTEM

SD Public Library

330 Park Blvd. San Diego CA 92101 • 619-236-5800 • SanDiegoLibrary.org

## Spring into STEAM

## Bug Out!

## March - May 2017

This Spring, the San Diego Public Library will launch its first annual STEAM program:

**Spring into STEAM**

This Year's theme is *Bug Out!* Geared towards ages 9-12.

We challenge children to attend all six of the hands-on events that we are offering throughout our 36 Library locations.

SDPL is working with the *Catalog of Life @ the Library*, and citizen scientists like **YOU** to launch a regional collection of insect samples to represent our region's rich diversity of life.

Participants have a chance to add new species to the catalog; only 1/5th of species have been DNA barcoded, and your contributions are important to monitoring global climate change!

Contact your local branch library or www.sdpl.net for more details

### SCIENCE

**Bugs Inside Out!**
March 11 • 11:30 a.m.
Paradise Hills

March 18 • 11 a.m.
Valencia Pk/Malcolm X

April 8 • 4 p.m.
Mission Valley

April 21 • 4 p.m.
Mira Mesa

April 26 • 2 p.m.
Balboa

April 29 • 10:30 a.m.
Rancho Bernardo

May 13 • 11 a.m.
Kensington-Normal Heights

May 13 • 1 p.m.
Otay Mesa-Nestor

### ENGINEERING

**Bee Builders**
March 8 • 3:30 p.m.
Carmel Valley

March 16 • 3 p.m.
Logan Heights

March 28 • 6 p.m.
Serra Mesa-Kearny Mesa

April 11 • 3:30 p.m.
Pacific Beach/Taylor

April 17 • 4 p.m.
College-Rolando

May 4 • 4 p.m.
Scripps Miramar Ranch

### TECHNOLOGY

**De-Bugging Coding***
March 8 • 4:30 p.m.
Skyline Hills

March 11 • 3 p.m.
Central Library

March 14 • 4 p.m.
University Community

March 23 • 3 p.m.
Tierrasanta

March 28 • 3:30 p.m.
Clairemont

April 17 • 3 p.m.
Point Loma/Hervey

May 9 • 5:30 p.m.
City Heights/Weingart

May 11 • 3 p.m.
Carmel Mountain Ranch

May 17 • 5:30 p.m.
San Ysidro

### ART

**Sunshine in a Jar***
April 4 • 12:50 p.m.
Linda Vista

April 18 • 4 p.m.
Allied Gardens/Benjamin

April 26 • 3:30 p.m.
Rancho Peñasquitos

May 2 • 4 p.m.
Mtn. View/Beckwourth

### MATH

**Paper Insects***
March 11 • 1 p.m.
San Carlos

March 18 • 1 p.m.
Ocean Beach

March 25 • 1:30 p.m.
North University Comm.

May 13 • 10 a.m.
University Heights

### STEAM

**Circuit Bugs***
April 4 • 3:30 p.m.
La Jolla/Riford

April 13 • 4 p.m.
North Clairemont

May 2 • 5 p.m.
Oak Park

May 4 • 12 p.m.
North Park

May 8 • 9:30 a.m.
Mission Hills

## Kickoff Event

March 2nd • 11am-1pm • Valencia Park/Malcolm X Library

This event will feature special guest speakers, a performance by The League of Extraordinary Scientists and a hands-on activity.

## Award Ceremony

May 13 • 10am-12pm • Central Library: Neil Morgan Auditorium

Celebrate and honor our STEAM Champions of Bug Out! Stick around to enjoy a cool insect themed activity

**\*Registration required. Please contact 619-236-5800 for more information**