

# Summer Laureate 2017 • June 12 through June 16

## At the University of Dayton Kennedy Union

### Laureate 2017 - A Perspective

#### *A Laureate Challenge*

*“Those having torches will pass them on to others.”*

*- Plato*

*Thinking Inside, Outside, & Beyond The Box...*

*Will you have the next idea?*

In 1948, when George de Mestral made a connection between the burrs to his pants and a way to fasten things together (which became Velcro), he was “thinking outside the box.” The Laureate week will help you learn to think beyond the expected! Those who make unique parallels and see new creative solutions, learn strategies and gain multiple perspectives will become our most valued problem-solvers of the future.



### To Our Students

Midday activities bring the “Laureate family” together for guest speakers, discussion topics and cultural presentations.

The cost for the one-week program is \$295. This includes all activities, instructional materials (except assigned lab fees), recreation, noon meal and snacks, plus the Sundae Social on Friday afternoon. Details will be given at orientation on **June 12**.

### Selection

Laureate is designed specifically for high academic achievers who meet the following criteria:

-enrolled in a gifted/talented program in their respective school  
OR

-superior achievement in an academic program  
-students entering third through eighth grade in **September 2017**

Final selection is dependent upon the Laureate screening after all data is considered. Those who are selected will be notified by **May 5, 2017**

### You're Invited

Back by popular demand! The Sundae Social is a Laureate tradition since its inception. Time and location to be announced. A happy event to a fun-filled week. Invite your family members to join us!

### Workshop Descriptions

Choose SIX of the workshop sessions which interest you. Number your choices in order of preference (1,2,3, etc.) in the boxes provided by each workshop you select. There is a maximum capacity attendance for each of the workshops so be sure to register as soon as possible. We will make every effort to provide three workshops of your choice. **A workshop may be canceled if there is insufficient enrollment.**

*Because young minds matter*

### Grades 3-5

- THREE LITTLE PIGS**  
Well, you know what happened in this story! Let's correct those construction mistakes - right now. Rocks, soils, and minerals - how do they react when mixed together? Build three different sand castles and test them for strength, resistance to weathering and you know who ... Just call 392 - PIGS for the wolf protection plan as well as the best material plans. Reasonable prices!
- LAUREATES GO WEST**  
Form a wagon train, pack your belongings, yoke up oxen, and head for Oregon Territory. Face the hardships of 1840 pioneers. Join us for a six month journey. History revealing. Places you in the real life of these early pioneers.
- CAPTIVATING SCIENCE**  
Become involved in science fun with bottle caps - of all things!! Pop the top and learn. Water whirler: How can you turn a bucket of water upside down and not spill a drop? Can you design and build a parachute for a bottle cap? Counterfeit caps: What does it take to be a problem solver? Exciting team work. Observe, predict, data collecting. Unique session!!
- A LAUREATE CAR DEALER**  
Build rubber band racers and mint mobiles. SO EXCITING! Test the rubber - band racers and the mint mobiles, evaluate the results, measure distance, calculate speed. Test and refine the designs. Explore options for other vehicles.
- CLOUDY WITH A CHANCE OF STEM**  
A twist on the famous Cloudy with a Chance of Meatballs book and movie series. Explore clouds, meteorology, inventing health, nutrition. Join us with this one; a really unique session!
- IF THEY BUILD IT, THEY WILL LEARN**  
Physical science: balloon in a bottle, baking soda powered boats, build towers with index cards, and Star Wars activities. More Topics. We are on a building rush! Unlimited creativity!
- CATAPULTS EVERYWHERE**  
Blow the dust off the historical catapult - we are building our own. Newton's laws, projectile motion, simple machines, speed, and mass. Which method of delivery is the most efficient, cost effective and easy to build? Testing is the best part! Kewl stuff; join us. A fun fling, too.

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- INSULATORS—WHICH ONE?**  
It's picnic time and chilled drinks. Fall and it's time for warm drinks or food. Best insulators for both temperatures: air, Styrofoam, foil, or cotton? Laureate teams investigate the properties of insulators and conductors. Pre-activity prediction; final decisions. A great experimental process!

### Grades 6-8

- ROLLER COASTER DESIGN**  
Calling all structural engineers...safer highways, cool phone apps, thrilling roller coasters. What do these things have in common? Engineering design! Build a roller coaster with one loop / one jump. Show potential energy transform into kinetic energy. A favorite of Laureates in past years; it will be yours, too.
- PROTECT THAT BRAIN!**  
Mr. Egghead - An adult brain is only 2% of the total body weight, but uses 20% of the blood supply. SO - it must be really IMPORTANT - would you say? Test helmets using different variables. Projects with that incredible egg! Join us!
- LAUREATES AS SCIENTISTS**  
It's not rocket science! Conduct scientific inquiry using ordinary materials such as pennies and bubble gum. Generate hypotheses with controlled experiments. Other topics. Can't go wrong with this one!
- RUBBER BAND RACERS**  
Design your car to travel in a straight line for at least 3 meters within a 1 meter wide track. Work in teams of “engineers”. Plan, design, and test.
- TOUCHDOWN: THE LUNAR LANDER CHALLENGE**  
Assume the roles of aerospace engineers and design, create and improve equipment. Build a shock-absorbing system that protects two marshmallow “astronauts” when they land. Build, test, evaluate, and redesign are the plans for these engineers. Let's get started!!

## Laureate Mechanics

- Only a limited number of students can be accepted into and accommodated in the Summer Laureate.
- The Laureate will be held from 8:30 am to 3:00pm daily .
- Students will meet in the Kennedy Union Ballroom, second floor, at the beginning of each day.
- Students who are selected for Laureate will be sent further details. On opening day, an orientation meeting with class schedules will be held on campus for parents and students.
- All Laureate participants and their parents automatically grant permission for use of student activities, such as picture taking, movies, video or audio taping. Permission is also granted for planned field trips. It will be necessary to have medical forms on file and your own medical insurance.
- Transportation to and from the campus will be provided by the parent.
- Lunch and snacks will be served in the Kennedy Union. A non-refundable \$95 application fee is necessary. (If student is not accepted, application fee will be refunded.) The remaining balance of \$200 must be paid by **May 26, 2017**.
- Make checks payable to:

**Lelia C. Boyd, Ph.D.**  
**Director - Summer Laureate**  
**538 Hopper Hill Farms Road**  
**Cincinnati, Ohio 45255**

- Fees are non-refundable for cancellations after **June 1st**.
- The deadline for nominations is **April 21st**.
- After deadline, please call for possible openings, (513) 753-9143.
- Notification of applicants who are selected is **May 5th**.

**Phone: (513) 753-9143**

Lelia C. Boyd, Ph.D.  
 538 Hopper Hill Farms Road  
 Cincinnati, Ohio 45255

# The \_\_\_\_\_ Summer Laureate

**for Promising Young Scholars**



*To the illuminated mind, the  
 whole world sparkles.  
 ~ Ralph Waldo Emerson*

**2017**  
**University of Dayton**  
**Kennedy Union**

**PLEASE USE THIS FORM FOR EACH NOMINATION (PLEASE PRINT LEGIBLY.)**

Student Name \_\_\_\_\_ DOB \_\_\_\_\_ Grade Level **September 2017**

Name of School \_\_\_\_\_ School System \_\_\_\_\_

Parent(s) Name \_\_\_\_\_ Phone # \_\_\_\_\_

Home Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Enrolled in a gifted/talented program? Yes \_\_\_\_\_ No \_\_\_\_\_ Achievement Test Scores \_\_\_\_\_

Latest group or individual intelligence test: \_\_\_\_\_

Name of Test \_\_\_\_\_ Date Given \_\_\_\_\_ Score(s) \_\_\_\_\_

\*Signature of Nominator \_\_\_\_\_ Position/Title \_\_\_\_\_

Check your favorite subjects in school (number your choices in order of preference) \_\_\_\_\_ Science \_\_\_\_\_ Math \_\_\_\_\_

Reading \_\_\_\_\_ Music \_\_\_\_\_ Art \_\_\_\_\_ Other, What? \_\_\_\_\_

Have you attended previous Summer Laureate Sessions? Yes \_\_\_\_\_ No \_\_\_\_\_

If so, when? \_\_\_\_\_

OFFICE USE ONLY

Application Fee \_\_\_\_\_

Total Fee \_\_\_\_\_

PLEASE NOTE: Returning Laureates do not need to re-submit eligibility documents/test data. Email: \_\_\_\_\_

### SOLAR OVENS

Build and take home a solar oven - think solar energy. Demonstrate heat gain, heat loss, and the second law of thermodynamics. Toast up s'mores, nachos, and other small treats. Mix fun in the sun with learning about solar energy.

### BALLOON AERONAUTICS

Topic: Aerodynamics. Explore Newton's three laws of motion and examine the effect of different forces on the rocket. Teams will construct a rocket from a balloon propelled along a guide-string. Redesign using bigger or smaller balloons, fill the balloons with water and repeat the experiment, tape pennies to the outside of the rocket to increase the mass. More learning options!!

### A LAUREATE THINK TANK

An action packed simulation which approximates conditions in many businesses. Work in teams as employees of a think tank. Find creative solutions for problems which your team was contracted to resolve. A definite student favorite!

**All Levels**

### RUBE GOLDBERG EXTRAVAGANZA

Create a Rube Goldberg machine to perform a simple task. These fanciful machine incorporate forces and energy to produce amazing results through a chain reaction of events. Think of the game Mouse Trap, only life-size!

### IT'S ELECTRIC!

Learn about circuitry and wiring and then apply your knowledge to create an electro magnet, a matching-style board game, and lastly an alarmed trip-wire to catch hunters.

### PAPER ROLLER COASTER

Create your own paper roller coaster by using only strips of heavy paper and tape! You will use templates to fold, cut, and tape papers together to build a sturdy roller coaster that can reach the ceiling. Watch a marble move through different curves, turns and obstacles that you design. At the end of the week you will be able to show off your newly engineered coaster to the rest of the Laureate participants.

**PLEASE RETURN THIS PORTION OF THE BROCHURE**