

# Summer Laureate 2016 • June 27 through July 1

At the University of Dayton Kennedy Union

## Laureate 2016 - A Perspective

Welcome Summer!

*“Sweet youthful days, that were as long as twenty days are now.”*

*- William Wordsworth*

*The Summer Laureate -  
A unique summer program...*

**...where** high academic achievers in grades three through eight have the opportunity to expand their knowledge within a university setting.

**...where** dedication to the pursuit of learning are reflected in the staff, students and program offerings.

**...where** there exists a challenging education plan that blends academic, cultural, social and recreational components into a rich and natural environment.

**...where** a staff is selected for their high level of preparation in their disciplines, outstanding teaching abilities and enthusiasm for working with bright students.

## 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 27**.

## 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 2016**

Final selection is dependent upon the Laureate screening after all data is considered. Those who are selected will be notified by **May 6, 2016**

## 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

### LAUREATES TEST KITCHEN

Your job is to test products and arrive at the best decision for the best value and performance. Kind of like giving the Good Housekeeping Seal. Which brand of paper towel absorbs water the fastest? Which paper towel is the strongest when wet? Which dishwashing soaps produce the most suds? Other topics.

### IF YOU BUILD IT, THEY WILL LEARN

An exciting session with a variety of topics. Make a balloon rocket, magical science experiment with uninflating balloon, exploding lunch bag, rocket staging, rocket car (Newton's Third Law of Motion), thirty minute bottle rocket. WOW! TOO KEWL!

### CALLING ALL FOODIES

Lots of chemistry and science in the study of foods. A variety of topics. The exploding lunch bag-what happened? Watch a banana peel itself-how? Acidity in foods-pH level? Acidity level of orange juice? Science of Sugar- how much sugar in a can of soda? You will be surprised at the findings!

### MATH ON THE MENU

Laureates assist the Rosadas in setting up a Mexican restaurant. Plan menus, analyze costs, set chairs and tables. Closing activity is their own food fiesta. Money sense, organization, and analysis.

### PHIND THE FUN IN SCIENCE

Take a lowly head of cabbage from the garden; it's amazing how much chemistry is there! You have acid/base discovery, explore household mysteries, play a Prest-O game, and apply knowledge gained in a game called Acid and Aliens form Outer Space. What an offering-all in one session!!!

### EDITOR IN CHIEF

A possible dream! But first, assume the role of a cub reporter as you report the latest news that is fit to print. Learn details in your OJT (on-job-training). Later, reap the rewards of your efforts in possible job advancement. Journalism experience!

### ARCHITECTURAL DESIGNERS

Calling all aspiring architects! Hone your skills in the planning of your dream house then assume roles as interior designers. Later, consider the contractor needs for this special project. Challenging, creative and innovative!!!

### MYSTERY FESTIVAL

Laureate detectives conduct hands-on-evidence found at the “crime scene”. Explore systems and interactions, diversity and unity pattern and logic. Critical thinking decisions to be made.

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### CARVING OUT THE LANDSCAPE

Teams of two investigate landforms (mountains, rivers, plains, hills, oceans). Build a three-dimensional model of a landscape showing these landforms. Next step; Your task is to act as civil and transportation engineers to build a road through your created landscape. A big task! Your team can do it!!

### ROBOTIKITS

Full of intriguing bits of information about robots. Emphasis on building your own recycled robot. Tin Can Robot recycles a soda can into a silly robot that moves. Brush Robot will sweep you away. Bottle Catamaran reuses two plastic bottles as floats for working model catamaran. Build one; share all three. (2AA batteries needed.) Lab fee - \$18.00

## Grades 6-8

### ROBOTIC TECHNOLOGY

Join the excitement of the robocrafts! Leads gently into that big world of robotics. Select ONE that you would like to build. Share your building efforts with your fellow robotic enthusiasts. Lab Fee - \$18.00

#### RABBIT

Do the bunny hop! Moves like a real rabbit. Fastest robot in this series.

#### BEETLE

Put away the bug spray! Upon hitting an obstacle, the beetle uses its horns to move around whatever is in its path.

#### KANGAROO

Bring an exotic animal form down under to the Laureate week. Hops like a real animal!!

### THEY BROKE THE LAW

You be the judge. Judge Jacobs gives teens a behind-the-bench look at the juvenile court system and young people whose lives are changed in court. Background is given, relevant facts, and sentencing options - Decide who goes to detention and who goes free. Then find out what really happened to the young offenders.

### SMASH IT! CRASH IT! LAUNCH IT!

Physics can get messy! Learn about gravity with a tomato tower, electromagnetic waves by using a microwave to make a marshmallow monstrosity, elasticity with a shoebox catapult. Eye popping science experiments!!

*Continued on next page*

## 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 (excluding Fridays).
- 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 **June 8, 2016**.
- 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 14th**.
- The deadline for nominations is **May 2nd**.
- After deadline, please call for possible openings, (513) 753-9143.
- Notification of applicants who are selected is **May 6th**.

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

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

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

*for Promising Young Scholars*



*Knowledge is life with wings.*  
*-Kahlil Gilbran*  
*Syrian -born American Poet*

**2016**  
**University of Dayton**  
**Kennedy Union**

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

Student Name \_\_\_\_\_ DOB \_\_\_\_\_ Grade Level **September 2016**

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? \_\_\_\_\_

\*Other than student's parent(s). Email: \_\_\_\_\_

OFFICE USE ONLY  
 Application Fee \_\_\_\_\_  
 Total Fee \_\_\_\_\_

### THE GREAT CHOCOLATE CAPER

It has arrived! Before the local chocolate factory can manufacture the first chocolate bar, the recipe is stolen. Student detectives find six suspects with sufficient motives to commit the crime. Which one is guilty? Deductive reasoning, logic, valid and invalid assumptions are included.

### BLIND JUSTICE

A collection of mock trials that bring four cases to life for the Laureates. Take the lead roles in prosecuting and defending those accused and testifying for and against the defendants. Each side tries to outwit the other. Question: Is justice really blind? You decide! Historical emphasis.

### ARE WE ALONE?

Year 2032... Laureates have successfully achieved a manned mission to Mars! Explorations to the Red Planet brought one debatable question: Is there life on Mars? Establish criteria to conduct a scientific experiment to evaluate three "Martian" soil samples to determine: Do any contain life? Some real scientific experiences and some real thinking!

### BRIDGES, BRIDGES EVERYWHERE

Laureates work in teams to design and build two challenging designs. Take 200 popsicle sticks and glue, build a bridge that must span at least 14 inches and hold a weight of 20 lbs. Be frugal; use the fewest number of sticks. Design #2 - Paper Penny Bridge. Take a single sheet of paper, 5 paper clips - build a bridge that will span 20 cm and support the weight of 100 pennies. Again - a limited budget. WOW! Can you do it? Yes, you can!!

### AIR AS FUEL

Fast and furious, this DIY racer uses air as fuel. What a creative solution to possibly another energy alternative! Build it. Pump the air chamber full then release the compressed air. Air expands and propels the vehicle a distance of up to 50 meters in 35 seconds. Sign up for this session and learn more details.

### SPOOL RACER DESIGN

Calling mechanical engineers! Convert potential energy into kinetic energy as you design vehicles using rubber bands, pencils and spools. Brainstorm, prototype, modify, test and redesign variations, ultimately facing off in a race competition. Observe first-hand how different design criteria can affect the spool racers. Really challenging and fun!

**PLEASE RETURN THIS PORTION OF THE BROCHURE**