

# CELEBRATING SCIENCE



*2017 Annual PDI  
November 16 to 18, 2017  
Hotel Roanoke and Conference Center*

*Information Booklet*

# About the 2017 Professional Development Institute

## CELEBRATING SCIENCE

Join VAST in Roanoke for three days of professional and personal growth through

- Networking!
- Renowned speakers!
- Excellent Presentations
- Exhibits

### Directory

About VAST PDI.....	2
Thursday Preconference..	3-4
General Sessions.....	4,6
PDI Schedule.....	5-6
Registration Information...	7
Hotel Information.....	8

### The Virginia Association of Science Teachers (VAST)

VAST is a professional organization of and for science educators. For more than 65 years, VAST has held its annual Professional Development Institute in key regions of the state. This event provides high-quality professional development to Virginia's science educators.

### Who Should Attend?

Classroom science teachers (Pre-K-12), science specialists, science coaches, department chairs, principals, school division science leaders, home school educators, pre-service science teachers, college/university science teacher educators, and informal science educators.

### Conference Location

The 2017 VAST PDI will be held at the Hotel Roanoke and Conference Center. For more information, visit [www.VAST.org](http://www.VAST.org), "annual PDI" page.

### What is Included With Your Conference Registration?

Full conference registration includes:

- Access to afternoon preconference workshops (Thursday) with additional \$5.00 registration fee per course.
- Access to all-day preconference short courses (Thursday) with additional \$125.00 registration fee per course.
- Admittance with your badge to the exhibit hall each day with a special event on Thursday night.
- Continental Breakfast on Friday and Saturday
- Three general sessions, auction and dance on Friday night.
- All concurrent sessions and commercial workshops (Friday, and Saturday).

### Ticketed Events

For an additional fee, registrants can purchase tickets for the Preconference short courses and workshops, onsite lunches, and the annual VAST Awards Dinner.

**Thursday November 16, 2017**  
**Donna R. Sterling Institute**  
**Dinah Zike Preconference Short Courses**  
**8:00 am to 3:00 pm**

**Thursday Preconference Short Course Registration Fee**

**\$125.00/person**

**Preregistration required by October 30. No onsite registration for short courses.**

**Two Concurrent Sessions (Elementary or Secondary)**

**Preconference Registration Price includes book, lunch, and access to Short Courses as well as Thursday night speaker!**

**8:00 a.m. - 3:00 p.m.**

**Short Course 1: Strengthening the 4 C's using 3-D Interactive Organizers for Elementary Grades (K-5)**

**Short Course 2: Strengthening the 4 C's using 3-D Interactive Organizers for Middle/High School (6-12)**

Participants will make three-dimensional interactive graphic organizers that can be used to teach Virginia science curriculum standards. A focus of attention will be on vocabulary development, as that is a major hurdle for understanding science concepts for struggling (including ELL) learners. The activities presented are appropriate for use before, during, and after science instruction, and they are appropriate for recording basic concepts, observations, investigations, experiments, and assessment. Both independent graphic organizers (manipulatives) and dependent graphic organizers (note-booking strategies) will be featured. Teachers will leave the session with inexpensive activities that can be used immediately with their students. Each elementary teacher will receive a copy of Dinah Zike's *Big Book of Science*. Each secondary teacher will receive a copy of *Notebook Foldables for Spirals, Binders, and Composition Books*.

**Incredible opportunity at an affordable price!**

**Thursday Afternoon  
Preconference Workshops  
3:15 pm to 4:45 pm**

**Preconference Workshops**

3:15 p.m.-4:45 p.m.

Preregistration required by October 30 (\$5.00/person). No onsite registration for workshops.

**Workshop 1: GLOBE Elementary – Making the Science and Literacy Connection with Elementary GLOBE**

**Presenters: Tina Harte, Jessica Taylor, NASA**

**Workshop 2: The Role of Reading and Writing in Inquiry-based Middle School Science Instruction**

**Presenter: Kip Bisignano, Delta Education**

**Workshop 3: High School Environmental Science with Vernier**

**Presenter: Jackie Bonneau, Vernier**

**Opening of the 2017 VAST Professional Development Institute**

General Session I, Thursday 5:30 p.m.

Keynote Speaker: Andres Ruzo,  
National Geographic Young Explorer

**STEAMY Lessons from the  
Boiling River of the Amazon**



## Schedule-at-a-Glance

### Wednesday November 15, 2017

7:00 p.m.-8:30 p.m. VAST Board Meeting & Dinner

### Thursday, November 16, 2017

7:30 a.m.-8:00 a.m. Check-in Desk Open for Donna Sterling Institute Short Courses

7:30 a.m. Continental Breakfast for Short Course Participants

8:00 a.m.-3:00 p.m. **Donna R. Sterling Institute Dinah Zike Preconference Short Courses**  
**Strengthening the 4 C's Using 3-D Graphic Interactive Graphic Organizers**  
Course 1: Elementary (K-5), Course 2: Middle/High School (6-12)

2:30 p.m.-5:15 p.m. Registration Desk Open for Afternoon Preconference Workshops/PDI

3:15 p.m.-4:45 p.m. **Preconference Workshops**  
**Making the Science and Literacy Connection with Elementary GLOBE (elementary)**  
**The Role of Reading and Writing in Inquiry-Based Middle School Science (Delta)**  
**High School Environmental Science with Vernier**

5:30 p.m.-6:45 p.m. **VAST Professional Development Institute Opening**  
Keynote Presentation: **STEAMY Lessons from the Boiling River of the Amazon**

7:00 p.m.-9:00 p.m. **Night with the Exhibitors, Regional Directors' Meeting**

### Friday, November 17, 2017

7:15 a.m.-5:15 p.m. Registration Desk Open

7:30 a.m. Continental Breakfast

7:30 a.m.-10:30 a.m. Exhibit Hall Open.

8:30 a.m.-9:30 a.m. Concurrent Session 1

9:45 a.m.-10:45 a.m. Concurrent Session 2

11:00 a.m.-12:30 p.m. **General Session II: Business Meeting**

Presentation: **The Scientific Journey:  
How Bugs, Volcanoes and Curiosity Can Change the World**

12:00 p.m.-1:30 p.m. Ticketed Lunch

12:30 p.m.-5:30 p.m. Exhibit Hall Open

1:45 p.m.-2:45 p.m. Concurrent Session 3

## Schedule-at-a-Glance *continued...*

### Friday November 17, 2017 (continued)

- 3:00 p.m.-4:00 p.m. Concurrent Session 4  
4:15 p.m.-5:15 p.m. Concurrent Session 5  
6:15 p.m.-8:15 p.m. Ticketed Dinner/Awards Ceremony  
8:30 p.m.-10:00 p.m. Auction and DJ

### Saturday November 18, 2017

- 7:30 a.m.-10:00 a.m. Registration Desk Open  
7:30 a.m. Continental Breakfast  
7:30 a.m.-11:30 a.m. Exhibit Hall Open  
8:30 a.m.-9:30 a.m. Concurrent Session 6  
9:45 a.m.-10:45 p.m. Concurrent Session 7  
11:00 a.m.-noon Concurrent Session 8  
noon.-12:30 p.m. Pickup ticketed box lunch  
12:30 p.m.-2:00 p.m. **General Session III:** Meet your new VAST officers  
Presentation: **Astonishing Insights: How Science Helps Us Get Out of Our Heads and See the Real World**

### General Session II

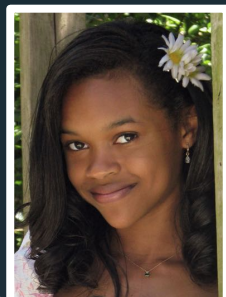
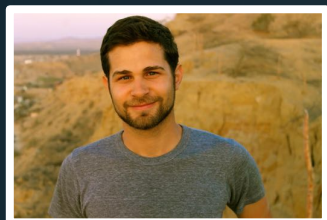
Friday 11:00 a.m.

#### Speakers

Andres Ruza, National Geographic  
Young Explorer

Kaleela Thompson, College Student

**The Scientific Journey: How Bugs,  
Volcanoes and Curiosity Can Change  
the World**



### General Session III

Saturday 12:30 p.m.

#### Speaker

Callan Bentley, Northern Virginia  
Community College

**Astonishing Insights: How Science  
Helps Us Get Out of Our Heads and See  
the Real World**



## VAST PDI Registration Information

### Registration

Online at [www.vast.org](http://www.vast.org).

### Payment Methods

Secure credit card, check payable to VAST, or purchase order.

### Important Due Dates

September 15, 2017: Presenter PDI Registration.

October 15, 2017: Early Bird PDI Registration.

October 30, 2017: Standard PDI Registration.

(register at the PDI after October 30)

### Fees

#### Thursday Preconference Registration Fees (does not include PDI registration)

(Register online by October 30. No on-site registration for preconference.)

Donna Sterling Institute Dinah Zike all-day Short Courses: \$125.00 per person

Afternoon Workshops: \$5.00 per person

#### Professional Development Institute

(PDI registration includes VAST dues for December 1, 2017-November 30, 2018)

#### **Presenter Registration. Deadline: September 15, 2017**

Presenter Registration: \$155.00

Full-time Student Presenter Registration: \$99.00

#### **Early Bird-Registration. Deadline: October 15, 2017**

Registration : \$170.00

Student Registration: \$99.00

#### **Standard-Registration. Online Deadline: October 30, 2017**

Registration: \$205.00

Student Registration: \$130.00

Spouse/Guest: \$100.00

## Hotel Information

### Hotel Roanoke and Conference Center

#### Hotel Roanoke and Conference Center



#### Hotel Roanoke and Conference Center

110 Shenandoah Ave.  
Roanoke VA 24016

#### Room Reservations

**Room rate:** \$127.00 for single and double occupancy plus taxes

**Parking:** Pay self-parking. Valet parking available

#### High-Speed Internet

WiFi is complimentary for all hotel guests. For non-hotel guests it is complimentary in the lobby and Palm Court - if nonhotel guests need access in other locations including all session rooms they will get a screen that prompts them to pay \$9.95 per day.

**Reserve your room NOW online by going to the link below:**

<https://aws.passkey.com/event/48988826/owner/9515698/home>