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## **FOR IMMEDIATE RELEASE**

### **Central Oregon Students Announced as Winners of the 26<sup>th</sup> Annual Inventerprise Science Contest**

**Bend, OR (USA), 1 December 2017** – Central Oregon K-12 students devised new ways to travel both near and far from home in the 26<sup>th</sup> annual Inventerprise contest, a science problem-solving contest sponsored by Bend Research, a division of Capsugel, now a Lonza company, with support from Bend-La Pine Schools and Central Oregon Community College.

Nearly 1,600 students from 41 Central Oregon schools participated in this year's contest. Judges reviewed approximately 1,150 entries – making this another record year – and announced the winners today.

“Lonza's Bend Research facility is rapidly growing, and it prides itself in having operated in Central Oregon for 42 years while maintaining high standards of scientific excellence. The continued success of our company depends on attracting and energizing the next generation of engineers and scientists,” said Dory Koehler-King, Inventerprise Contest Director and Sr. Product Development Leader at Lonza's Bend Research facility. “We continue to be impressed by the imaginations and resourcefulness of the local student population as demonstrated in the Inventerprise contest and hope that this experience leads them to pursue their scientific curiosities.”

Two freshmen earned top prizes in the high school division, earning \$500 each for their efforts. Natalie Lawton from Redmond Proficiency Academy developed an improved pet carrier scientifically tested to reduce temperature fluctuations, cushion pets and block noise; Tanner Taylor of Summit High School invented a biometric accessory to help drivers stay awake and reduce stress and distractions while driving. Anna Chase, a junior from Bend High School, devised a way to distract energetic children during road trips using bicycle-style athletic diversions and earned \$200. Redmond Proficiency Academy junior Jessica Whittcar's tsunami escape gondola also earned her \$200 as did her fellow classmate David Novotny's 2<sup>nd</sup> Cycle invention to transfer waste heat in internal combustion engines for use in electrical systems. Jacob Duke and Garrett McMichael teamed up to invent an ocean waste collection system that collects plastic and uses it to power naval vessels. These two juniors, also from Redmond Proficiency Academy, earned \$100 each.

In the middle school division, three students will receive grand prizes. Teaghan Knox, a homeschooled 8<sup>th</sup> grader, built a model to demonstrate how an olivine filter can remove carbon dioxide from combustion exhaust. Weston Shaffer and Logan Foley from Sky View Middle School developed a rocket launch assist in order to save fuel during rocket launches. It uses electromagnets in a vacuum tube to eliminate the weight of fuel. For their prize, each student gets to choose from an Apple Watch, a mountain bike, a GoPro<sup>®</sup> camera, a tablet computer, a drone or a season ski/snow board rental.

Hundreds of students in lower grades submitted entries, either individually or as teams of up to three. Several students at each grade level will receive prizes for their submissions along with an invitation to a special Science Night program held in their honor at the Lonza laboratories in Tumalo. Some inventions that made the biggest impressions include the following:

- A team of second graders collaborated to optimize the fun you can get out of sliding on wood floors!
- A first grader decided that a moving road was better than moving vehicles for solving traffic problems in the city.
- A fifth grader developed a wearable machine to help elderly and disabled people have better walking mobility.
- Some kindergarteners invented a programmable GPS tracking device to pack in your luggage that will alert airline personnel if it is headed the wrong way.

Winners at each grade level, and the schools they attend, are listed below. Additional information can be found at <http://inventerprise.bendresearch.com>.

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## Inventerprise 2017 Winners

### Kindergarten

Chloe Giamellaro – *High Lakes Elementary*  
Olin Skarperud – *Highland Magnet at Kenwood*  
Noah Benson, Lealand Contreras – *St. Francis of Assisi Catholic School*  
Olive Johnson, Yare Romero-Guzman, Paityn Wilson – *St. Thomas Academy*  
Bella Haindel, Anders Bjornstad – *Westside Village Magnet School*

### Grade 1

Megan Hornsby – *Buckingham Elementary*  
Drew Bollinger – *Cascades Academy*  
John Flannery, Lucas Roberts, Delilah Dolan – *High Lakes Elementary*  
John Bartholmew, Blaise Creech, Ezra Reynvaan – *Morning Star Christian School*  
Rikaiya Griffin, Madeline Reynolds, Lyan Mitma, Andrew Riley – *St. Francis of Assisi Catholic School*  
Ginger Searcy, Kimber Remund, Skyler Du Toit, Axel Gerard, Majicc Cross, Gavin Anthony, Ollie Martin – *Westside Village Magnet School*

### Grade 2

Beckett Timm – *Buckingham Elementary*  
Micah King – *Highland Magnet at Kenwood*  
Will Cohen, Gavin Johnson, Joshua Mitma, Teagan Brewer, Monte Buccola, Brynn Watts – *St. Francis of Assisi Catholic School*  
Austin Cooley, Nate Hettiger, Nick Lindquist, Tarron Tom – *St. Thomas Academy*  
Isabel Fernandez, Lyric Harlowe, Noelle Hively – *Westside Village Magnet School*

### Grade 3

Skye Knox, Rhianwen Hornsby – *Bear Creek Elementary*  
Jazelle Fernandez, Nichole Skeels – *Buff Elementary*  
Isaiah Keating – *Culver Elementary*  
Will Stancliff – *John Tuck Elementary*  
Kanning Whiting – *Madras Elementary*  
Rillie Mitchell – *Sage Elementary*  
Madalyn Cade, Cienna Robbins – *Silver Rail Elementary*  
Madeline Lorenz, Mallory Towell, Edna Velazquez, J.T. Reeves, Gianni Stark, Zoey Denning, Christopher Turel  
June Williams – *St. Francis of Assisi Catholic School*  
Cael Cardwell, Cash Littrell, Emily McGuire – *Three Rivers School*  
Abrielle Capson, Cash Strand, Campbell Sigfrid, Cole Hartfield, Tygh Hartfield, Emily Ritches, Aspen Moore, Myles Sigfrid, Ethan McDowell, Dane Iverson, Connor Richardson – *Tom McCall Elementary*  
Tiger Hurzeler, Maxwell Keenan – *Westside Village Magnet School*

### Grade 4

Ben Schnur – *Buckingham Elementary*  
Ruby Phillips – *Cascades Academy*  
Cami Laakmann, Brendan Medina, Landon Battles, Lauren Lilly, Cecilia Dean, Bram Gerken, Carter Garvin – *Juniper Elementary*  
Ramen Vahdat – *Sisters Elementary*  
Ellie Norris – *St. Francis of Assisi Catholic School*  
Barrett Farmer, Brock Dunagan, Pearl Page-Norton – *Tom McCall Elementary*  
Sam Jacobsen, Asha Berliner, Lucy Egertson, Lily Wiater – *Westside Village Magnet School*

### Grade 5

Jace Silbernagel – *Culver Elementary*  
Toni Prather, Blake Wilson, Kila Daily, Pearl Curley, Sierra Ritchie – *High Lakes Elementary*  
Blake Luhmann, Owen Clark, Aaron Goyal, Hunter McCullough, Annabel Simmons, Owen McCormick, Thielsen Wardlow, Kylan Cathcart, Joseph Bercot, Cannon Powell, Casey Hermanson, Simone Alexander, Evelynne Ockner, Ella Roseborough – *Juniper Elementary*  
Hadley Hayes, Nico Bend, Logan Ontiveros, Eric Trejo, Isaac Stewart, Michael Griffith, Kolby Struck, Travell Johnson, Waylon Brazier, Brayden Keese – *Silver Rail Elementary*  
Natalie Darnell, Molly Konop, Jonathan Mathis, Allie Reiss, Keiger Young, Mackenzie Shearon – *Tom McCall Elementary School*  
Waylon Escalante, Courtney Fowler, Lily Botten, Camren Hill, Kaedyn Prusak – *Vern Patrick Elementary*

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## **Middle School**

Jarem Kerr, Mason Spreier, Lucas Sproba, Penny Yost, Maddie Gardner, Ryan Duarte, Barrett Justema – *Cascade Middle School*

Mckenzie Lattig, Adin Lyders, Ruby Tappan, Kristof Klees, Hunter Vanden Bosch, Eric Verheyden, Neve Brandow, Ivy Phillips, Ruby Tien – *Cascades Academy*

Bryan Mendoza, Kaycee Kash, Tegan Macy – *Culver Middle School*

Luke Davis – *Pilot Butte Middle School*

Nathan Goodman – *Sky View Middle School*

Clement Link, Aaron Maloney, David Roe, Grace Gaines, Mariana Macias, Natalie Preston – *St. Francis of Assisi Catholic School*

Twyla Wayman, Neve Gerard, Emily Krehbiel, Addie Matthews – *Westside Village Magnet School*

## **Middle School Grand Prize**

Teaghan Knox – *Homeschool*

Logan Foley, Weston Shaffer – *Sky View Middle School*

## **High School**

Anna Chase – *Bend High School*

Jessica Whitticar, David Novotny, Jacob Duke, Natalie Lawton, Garrett McMichael – *Redmond Proficiency Academy*

Tanner Taylor – *Summit High School*

## **ABOUT INVENTERPRISE**

The Invention Contest began in 1992 as an outgrowth of a business-education partnership between Bend Research and the Bend-La Pine School District to promote science education and enrich students' educational experience. Fourteen years ago, Central Oregon Community College joined the effort by helping to plan and run the contest. For more information regarding the Invention 2016 contest or to request contest rules, please visit <http://invention.bendresearch.com/> or call Amanda Pluntze or Nate Glutting at Bend Research at (541) 382-4100, or contact the contest director, Dory Koehler-King at (541) 382-4100.

## **ABOUT BEND RESEARCH**

For 42 years, Bend Research, a division of Capsugel, now a Lonza company, has worked with clients to create value by advancing new medicines that improve human health and to solve their most difficult scientific and technical problems. This success is based on the company's ability to develop, advance, and commercialize pharmaceutical technologies, which grow from a solid base of fundamental scientific and engineering understanding. Bend Research is a leader in novel formulations, including spray-dried dispersion (SDD) and hot-melt extrusion (HME) formulations, as well as controlled-release, inhalation, and biotherapeutics technologies.

## **ABOUT CAPSUGEL**

Capsugel – now a Lonza company – designs, develops, and manufactures a wide range of innovative dosage forms for the biopharmaceutical and consumer health and nutrition industries. Our unique combination of science, engineering, formulation and capsule expertise enables our customers to optimize the bioavailability, targeted delivery and overall performance of their biopharmaceutical and consumer health and nutrition products. We partner with more than 4,000 customers in over 100 countries to create novel, high-quality and customized solutions that align with our customers' evolving needs and benefit patients and consumers. For more information, visit [www.capsugel.com](http://www.capsugel.com) and follow us on [Twitter](#), [LinkedIn](#) and [YouTube](#).

## **ABOUT LONZA**

Following the closing of the Capsugel acquisition, Lonza further strengthened its position as one of the world's leading and most-trusted suppliers to the pharmaceutical, biotech and specialty ingredients markets. Lonza harnesses science and technology to create products that support safer and healthier living and that enhance the overall quality of life.

An integrated solutions provider serving the healthcare continuum, Lonza offers products and services from the custom development and manufacturing of active pharmaceutical ingredients to innovative dosage forms for the pharma and consumer health and nutrition industries. In addition to drinking water sanitizers, nutraceuticals, antacid agents and other personal care ingredients, the company provides agricultural products, advanced coatings and composites and microbial control solutions that combat dangerous viruses, bacteria and other pathogens.

Founded in 1897 in the Swiss Alps, Lonza today is a well-respected global company with more than 50 major manufacturing and R&D facilities and nearly 14,000 full-time employees worldwide. Further information can be found at [www.lonza.com](http://www.lonza.com).

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