

YOU ARE INVITED!

GW170817:

**A Celebration
of Gravitational
Waves and Light
with Art**



FEATURING:

Dancers of the
Mid-Columbia Ballet
*and students of Libby Middle and
Pasco High schools.*

MAY 12, 2018 , 5-7PM

AT LIGO HANFORD OBSERVATORY
127124 N Route 10, Richland, WA 99354

**WHAT TO
EXPECT:**

This unique event hosted by Mid-Columbia Ballet and LIGO Hanford Observatory is focused around a walking tour of LIGO's facility. The tour, which is led by LIGO scientists, is incorporated with site-specific dance performance by Mid-Columbia Ballet. An art walk concludes the tour with displays of student interpretations of gravitational waves by Libby Middle and Pasco High schools.

COST:

Free

TIMES:

5:00pm 5:30pm 6:00pm 6:45pm 7:15pm
5:15pm 5:45pm 6:15pm 7:00pm

RSVP:

RSVP for a one tour (above) by emailing Renée Adams reeneadams@midcolumbiaballet.org. Space is limited in each tour and reservations must be made in advance. Please include the number of people in your group.



**mid.columbia
ballet**

WHAT IS THIS EVENT?

Mid-Columbia Ballet (MCB) and LIGO Hanford Observatory have partnered for the second year to produce an in-school program titled *The Science of Dance*. This program brings to light the relationship between science and art for Tri-Cities area middle school students.

The Science of Dance is a classroom residency that teaches middle school students the fundamentals of dance and choreography. During the 2017-2018 season, this program was partially funded by Arts WA. At Libby Middle School, MCB connected elements of the residency, such as the students own creative process, to their learning about gravitational waves. In March 2018, the 8th grade students at Libby Middle School took a field trip to LIGO Hanford Observatory. After returning to the classroom, the students were prompted to create a unique piece of visual or performance art that represented their understanding of the movement and resonance of gravitational waves in space-time as well as the reflection of mirrors from the right-angle structure that allows LIGO to record them. Advanced art students at Pasco High School collaborated separately, creating original pieces of art based on individual research.

MCB dancers (ages 14-19) mirrored the creative process of Libby and Pasco High students. Over the course of two weeks, the dancers compiled their own research and built choreography representative of the concepts of gravitational waves and light from their research. Watch a video of our 2017 event here: <https://www.youtube.com/watch?v=3gtqg6wM8nM>

This year, the event is titled, *GW170817: A Celebration of Gravitational Waves and Light with Art*. GW170817 is the title of one of LIGO's most exciting events, a detection of gravitational waves produced by colliding neutron stars, a discovery which marks the first cosmic event observed in both gravitational waves and light. Read more about this event here: <https://www.ligo.caltech.edu/page/press-release-gw170817>



WHY SCIENCE AND DANCE?

The Tri-Cities community is known for its advances in science and technology and we believe that the arts and sciences are deeply linked. The arts allow students to discover the relationship between creativity and the interdisciplinary nature of the world. Providing a framework for students to develop personal relationships to dance along with academic subjects allows students to connect to multiple subject areas naturally.