



Jane Burke has been involved in the arts and science education for over 48 years. She received her Master of Arts in teaching science from Harvard, studied dance with Martha Graham, Alvin Ailey, and Donald McKayle and has been involved with ceramics since 1972, when she attended the Stanhope Institute in London followed by work with potters in Devon and Cornwall. She opened Flying Cloud Pottery in the Berkshires in 1979.

In 1984, Jane founded the non-profit Flying Cloud Institute (<http://flyingcloudinstitute.org/>) to promote the integration of science and the arts and creative thinking in young people. Through the Institute Jane has been able to combine her expertise as a professional potter, her long experience in dance and her passion for science. She helped to develop STEAM experiences for children grades K-12 both within the school day and in out-of -school time. Her ten year collaboration with the Southern Berkshire Regional School District, funded through the MCC Creative Schools Program, allowed her to demonstrate to teachers the power of integrating the arts and outdoor explorations with math and science curriculum. This has expanded into three other school districts as well as pre-schools. Additionally, Jane advises on STEM education for the Berkshire STEM Pipeline Steering Team, the Massachusetts Cultural Council and the public awareness subcommittee of the Governor's STEM Advisory Council. She has received awards from the Massachusetts Association of School Committees and the Massachusetts Cultural Council and received the Berkshire Award from the Berkshire Museum for outstanding work in education integrating mathematics, science, and the arts.

Mathematics and the Acoma Potters

Mathematics and the Acoma Potters is about the design process, geometry, and art. Through Acoma Ceramics this workshop explores concepts and understanding of geometric shapes, angles, lines, fractions and symmetry. In addition, participants will use and manipulate colors, shapes, lines and patterns to create symmetrical designs.



Priscilla Kane Hellweg, is executive director of Enchanted Circle Theater, (<http://www.enchantedcircletheater.com/>) a non-profit, multi-service arts organization in Holyoke, Massachusetts. Under Ms. Hellweg's direction, Enchanted Circle has become the regional leader in arts integration, working district-wide in public schools throughout Western Massachusetts, and collaborating with over 60 community partner organizations, with work that bridges arts, education and human services. In 2016, Enchanted Circle Theater was nominated to represent Massachusetts by the Massachusetts Cultural Council for a Creativity Connects Award from the National Endowment for the Arts. Enchanted Circle was highlighted in the PBS series, *American Graduate* with its summer Shakespeare program in the Holyoke Public Schools. Ms. Hellweg has received a Champions of Arts Education Award and a Millennium Award from the National Guild of Community Arts Educators for her commitment to making high quality arts education accessible to all. In 2015, Enchanted Circle received the Commonwealth Award, Massachusetts' highest honors in Arts, Sciences, and Humanities, for their work from STEM to STEAM.

WORKING WITH WATER

A Science and Arts Integration Workshop for Educators

Working With Water is an experiential workshop designed to engage all teachers through a diverse arts integrated approach to standards-based science inquiry, focused on the study of water on the school grounds. Emphasizing the 4C's – Communication, Collaboration, Creativity, and Critical Thinking – participants will explore systems thinking and field investigations through theater arts activities. We will explore the way water moves and be design detectives, noticing how water interacts with both landscape and hardscape. We will embody domain and grade specific vocabulary, investigate permeable vs. impermeable surfaces, and examine the concept of green and grey infrastructure. We will approach design and engineering challenges around water and collaboratively problem-solve potential solutions through dramatic reenactment. This arts integration STEAM workshop is filled with easily replicable activities and is applicable to students of all ages and abilities.

The workshop will include a 20-minute outdoor investigation. Please dress accordingly!!