

WOLF TRAP FOUNDATION PRESENTS
A WOLF TRAP EARLY STEM/ARTS COMMISSION

Deep Earth/ Deep Ocean

TERRY LEONINO & GREG ARTZNER



**WOLF
TRAP**

INSTITUTE FOR
EARLY LEARNING
THROUGH THE ARTS



ARTIST BIOGRAPHY

Terry Leonino & Greg Artzner, also known as “Magpie,” have been performing professionally together for nearly four decades on major stages at folk festivals and other preeminent concert venues around the country.

Terry & Greg’s commitment to children and to environmental and science education has found them in countless Earth-centered concerts and residencies in schools, as well as professional development workshops for teachers. They have conducted many songwriting residencies, including some in Maryland schools sponsored by the Chesapeake Bay Foundation, working with students to create new songs expressing the many ways to treasure, protect, and restore the Earth. They have received national recognition for their environmental work, which has been featured in presentations for environmental education associations in Maryland, Pennsylvania, New Jersey, and Ohio, and by notable environmental organizations such as Audubon Society, Sierra Club, National Wildlife Federation, Hudson River Sloop Clearwater, and the National Wildlife Refuges.

They have won Washington Area Music Awards and are the recipients of the John Denver Award for Environmental Activism as well as the John Brown “Spirit of Freedom” Award. For more than a quarter of a century Terry and Greg have been Master Teaching Artists with Wolf Trap Institute for Early Learning Through the Arts, conducting professional development residencies and workshops and touching the lives of thousands of teachers and children.

ARTIST’S CREATIVE PROCESS FOR THIS PERFORMANCE

“Our creative process begins with a musical exploration of the beauty and mystery of two ecosystems, one well known and one lesser known, both with great depth and darkness.

Caves are some of Earth’s lesser-known ecosystems. They are places that relatively few explorers venture to go. It may be a surprise that various creatures create a ‘home’ in a place where there is no light at all. We were similarly surprised on a recent trip to Mammoth Cave National Park in Kentucky. Hiking through the cave was thrilling, but what was even more fascinating was learning about the myriad of animals that live there as permanent residents (troglobites), part-time residents (troglophiles), and passing visitors (trogloxenes). We decided to fashion the list of creatures and a few of their more unusual characteristics into a lyric with a catchy refrain that has an infectious and decidedly old-time feeling.

All of our many experiences on the ocean and the seashore have served this song, along with our understanding of the importance of oceans to our life on land. We hope that our audience finds something familiar in the words and music, and experience some of the wonder and awe we express here when they visit the sea. Our aim is to inspire a new or renewed appreciation of the ocean as the ‘heart’ of our planet.”

-Terry Leonino and Greg Artzner

SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS (STEM) CONNECTION

Life Science: Organisms and life cycles, ecosystems and their interactions/dynamics.

Earth and Space Science: Earth materials and systems.



FOR THE TEACHER...

BEFORE THE PERFORMANCE

Playing recorded music that uses guitar, mandolin, or harmonica will help familiarize students with some of the sounds that Terry & Greg use in their music. Teachers may share books and stories about oceans and caves and the animals and plants that live in them. In particular, many stories about bears, bats, and hibernation in caves are available, and they give a little bit of the sense of darkness and shelter that characterize cave habitats. Numerous books are available about the ocean and ocean creatures. The teachers can talk to the children about any experiences they might have had with the ocean, the seashore, or with caves. An auditory sensory experience of the ocean can be created with the use of conch shells, which, when held to the ear, produce an ambient noise that mimics the sound of wind and surf. Other seashore objects can be gathered and brought into the classroom including shells, sea stars, exoskeletons, driftwood, rocks, and pebbles. There are numerous films about oceans available for viewing, and others about caving and caves.

AFTER THE PERFORMANCE

A safe and secure sensory experience with darkness could be produced in the classroom with an improvised indoor shelter and the lights turned off. Rocks and fossils can be brought to the classroom to show some of the objects that come from caves. Most of the preparatory experiences listed above could also be utilized as a follow-up to the presentation. Music and sound may be used to enhance the presentation. We encourage teachers to directly explore further the natural environments presented here, particularly the seashore, since it is more accessible during the summer months. Field trips to museums are a great resource for environmental education for children.

RECOMMENDED RESOURCES

Free Sound. Online: <http://freesound.org> (search for recorded music which features guitar, mandolin, or harmonica)

Caves

Gibbons, Gail. *Caves and Caverns*. New York, NY: Harcourt Brace, 1993.

Kramer, Stephen. *Caves (Nature in Action)*. Photographs by Kendrick L. Day. Minneapolis, MN: Carolrhoda Books, 2005.

Mammoth Cave National Park. Online: <http://www.nps.gov/macac/index.htm>

National Caves Association. Online: <http://cavern.com/>

National Speleological Society. Online: <http://www.caves.org>

Oceans

Munoz Ryan, Pam. *Hello Ocean*. Illustrated by Mark Astrella. Watertown, MA: Charlesbridge Publishing, 2001.

Pledger, Maurice. *Sounds of the Wild: Ocean*. San Diego, CA: Silver Dolphin Books, 2008.

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renewed appreciation of the ocean
as the 'heart' of our mother planet.*

- Terry Leonine and Greg Artzner

ABOUT THIS PERFORMANCE

Singer-Songwriters,
Terry Leonino
& Greg Artzner,
perform two original
songs, "Deep Earth"
and "Deep Oceans,"
that are a study of
contrasts in nature.
One is a rollicking
good time song
about the living
ecosystem of deep,
dark caves, the other
a soaring meditation
on the beauty and
mystery of oceans
and their importance
to life on Earth.

Small Bites!®

A unique arts experience
modeled on an original
program from the Arts
Centre Melbourne, Australia.

ABOUT WOLF TRAP INSTITUTE FOR EARLY LEARNING THROUGH THE ARTS

Research has proven that the arts are a powerful tool through which children can learn. Wolf Trap Institute for Early Learning Through the Arts was established in 1981 under a grant from Head Start, a program of the U.S. Department of Health and Human Services, to support teachers' professional development and young children's learning. Through residencies and workshops across the country, early childhood professionals in partnership with Wolf Trap Teaching Artists learn arts-based techniques and strategies that empower them to integrate the arts in all developmental domains of curriculum. Age-appropriate experiences in music, movement, drama, and puppetry foster a love of learning and help support young children's skill development in social relations, creative representation, initiative, logic, mathematics, language, literacy, movement, and music.

WOLF TRAP INSTITUTE OFFERS A VARIETY OF SERVICES INCLUDING:

Professional Development Workshops for teachers that are designed to provide age-appropriate performing arts strategies that are linked to early childhood curricular learning outcomes.

Family Involvement Workshops offer parents and caregivers of young children an introduction to performing arts activities that can be employed at home, in the car, and even in line at the grocery store.

Wolf Trap Institute operates successful programs across the United States and has taken its services to nearly 100,000 children, educators, and parents/caregivers throughout 28 states.

For more information about Wolf Trap Institute for Early Learning Through the Arts, please visit: www.Wolftrap.org/Education or call 703.255.1933 or 1.800.404.8461.

JOIN **EDUCATION.WOLFTRAP.ORG**,
WOLF TRAP'S FREE ONLINE RESOURCE
for educators featuring the best in early childhood arts education.

