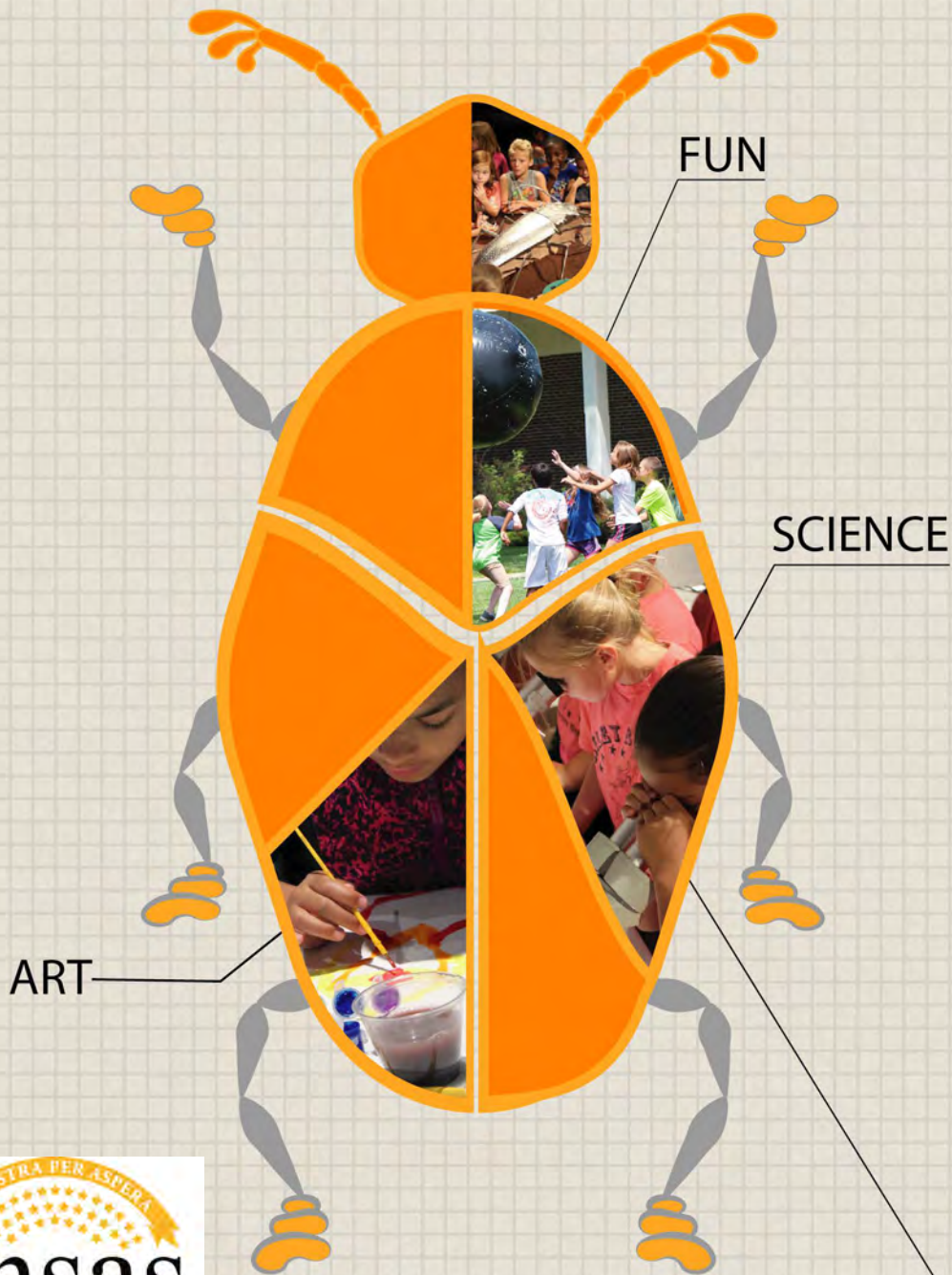


BEAUTY AND THE BEETLE



FUN

SCIENCE

ART



CUNA Mutual Retirement
Solutions Art and Science
Encounter Series



REPORT



About the CUNA Mutual Retirement Solutions Art and Science Encounter Series

“In an era when the demands on educational programming are increasingly pragmatic it is important to provide folks with an opportunity to see how important the Arts are to truly understanding systems, particularly living systems. Heart knowledge gives life, wonder and praxis to the otherwise dead schematics of the world we live in. The artwork of Gar Waterman begs us to wonder at the intricacy of the unseen and fall in love with its beauty.”

*-Dave Barnes,
Shafer Art Gallery Director*

Purpose

The Arts and Science Encounter Series is designed to directly integrate the disciplines of visual thinking and visual problem solving with the curriculum and core values associated with biology, zoology, and other life sciences.

Visitors and students will experience programming that directly links the close-looking and critical thinking required of both the visual artist and scientist. The visitor will be pressed to see the beauty of organic forms (the beetle) as well as the functionality of its parts. Most programming involves both age appropriate critical art-making activities combined with discovery opportunities to experience the life, forms, and bio-diversity importance of beetles.

K-12 classes from all STEM disciplines are invited to encounter beetles as both natural structures with inherent beauty and as beautiful examples of natural engineering and function.

Impact

This exhibit provides a fun and educational look into the processes of science and art making. Gar Waterman’s work models the synthesis between fact and form, and the pursuit of stewardship and appreciation of the world. Audiences will have a greater appreciation of the design of insects, and their role in the eco-system, their amazing features, and how humans can learn from these tiny creatures.

Participants in workshops and classes will have hands on experiences understanding the form and function of insect parts, as well as gaining understanding of color, pattern, and insect identification, and visual information collection techniques.

EXHIBIT





Gar

Waterman

Gar Waterman's sculpture explores organic form. A combination of observation of natural phenomena, sensual devotion to the tactile possibilities of material, and a model maker's tinkering sensibility inform his work. He grew up in Princeton, New Jersey, with a formative year in Tahiti at the age of 9 to 10, where his father, pioneer underwater film maker Stan Waterman, documented the adventure in a National Geographic Special. Waterman's daily contact was with the exotic flora of the Polynesian landscape and the barrier reefs of the South Pacific, with their hydrodynamic fish, rays, sharks, and corals. After college at Dartmouth, Waterman moved to Pietrasanta, Italy, where he lived for seven years and learned to carve stone. A foundation of ocean imagery experienced first hand over a lifetime of diving infuses his sculpture with marine forms, from fish, nudibrachs, and squid to the spiral perfection of shells.

"We share this planet with incredibly bio-diverse creatures, as extraordinary as they are fragile. Art and Science together can help us observe them with fresh eyes."



Bill

Guth

The large-scale photography in this exhibition is the works of William Guth. In his own words...
 "Three elements of macro photography were significant in capturing specimens of this size: lighting, camera control, and photo-editing software. Lighting placement and modification of light through polarization, small reflectors, and shading devices enabled emphasis of fine detail. To maintain focus from front to back, the camera was moved on a lathe bed in half-millimeter increments to obtain 14 images at differing focal points. Alignment of specimens and camera was critical. Finally, images were combined with software to yield a fully focused image and selectively enhanced detail."

"It is not what you look at that matters, but what you see."
 —Henry David Thoreau





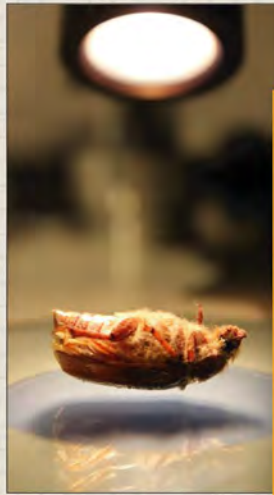
FUN



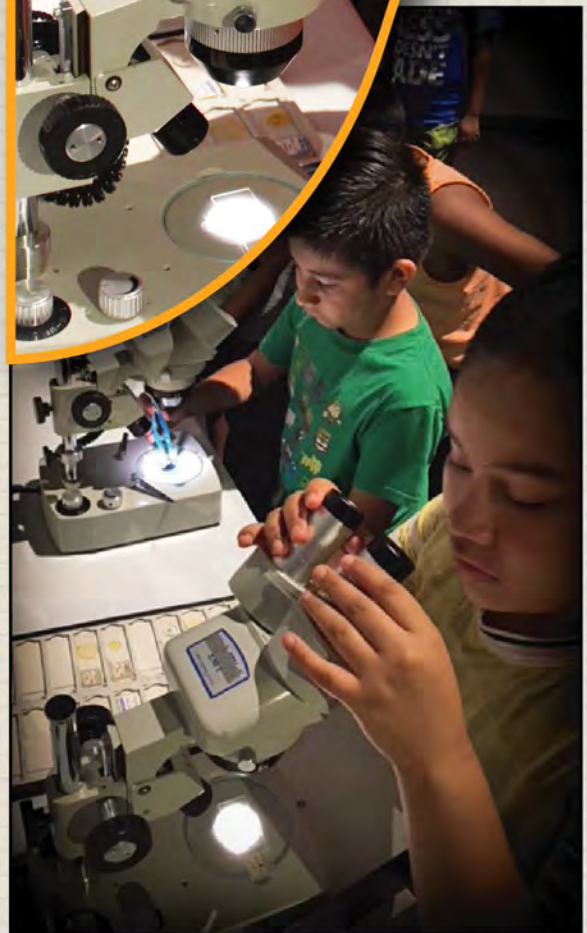
Dung Beetle Ball



SCIENCE



The Barton Science department donated microscopes for visitors to use.



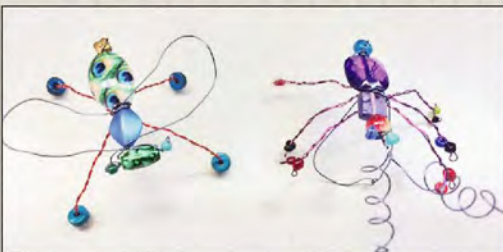
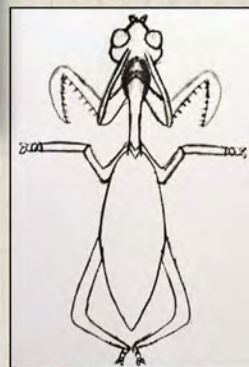
ART



Students learned about symmetry found in beetles, and then created symmetry bugs, 3-D foam ball bugs, and wire bugs.



Almost 400 elementary students visited the exhibit.



Wire Bug workshop



Symmetry Bugs



3-D Bug Sculpture

FAMILY DAY



StoneLion Puppet Show
Backyard Buggin'



Bug Snacks



KSU
Insect
Zoo



Crafts





Beauty and Beetle

New exhibit opens Friday at Shafer Gallery

Gar Waterman's larger than life *Dicranocephalus Wallichii* beetle will be on display.

BY MICAH OELZE
Barlow Community College

An exhibit of larger-than-life sculptures of beetles made out of scrap metal and micro-photography of beetles on large prints opens Friday, May 18, at the Shafer Art Gallery on the Barlow Community College campus.

The gallery will host an opening reception for the CUNA Mutual Retirement Solutions Art and Science Encounter Series: Beauty and the Beetle, featuring sculptures by Gar Waterman and photos by William Guth, at 6:30 p.m. on Friday. The exhibit will remain in the gallery through July 6.

The larger representations of beetles allow visitors to see the intricate beauty of the insects.

Growing up, Waterman often found himself surrounded by marine life alongside his father Stan Waterman, one of the pioneer underwater filmmakers in the United States. His direct experience of the wonders of the natural world is a major inspiration for his work.

The sculptures might be called found-object sculpture, a passion of Waterman's. Waterman found all of the parts for his beetles in a scrap yard from a brake caliper company.

"I have always been interested in insects," he said. "When I saw this enormous pile of scrap metal, (the brake caliper scraps) sort of resembled insect parts."

From these piles of scrap, Waterman created his magnificent giants. With our ecosystem being threatened more and more, Waterman sees his sculptures as an attention grabber for a higher mission.

"As environmental issues have come to the floor (my art) has taken on a different meaning as many of these creatures are doomed to disappear largely because of our doing and climate change," he said. Waterman hopes those who visit the show can be inspired by the art to take an interest in the insects.

"The interesting thing about the combination is that art can help engage people in a way science can't," he said. "Things like beetles are easy to overlook, people go 'ew beetles, insects.' But like so much in this world, if you pause for a moment and look closely, they are incredible bits of design." Waterman's interpretation of the beetles,

combined with Guth's micro-photography, takes appreciation of the insects to a new level.

"(His) wonderful focused stacked images of the real thing greatly enlarged, achieve that purpose because instead of it being an artistic interpretation like my work, it is the real deal but big enough for you to appreciate how the different exoskeletal parts fit together," he said.

The beautiful designs of nature and that of the artist, is only the beginning of what the series is about.

"The Arts and Sciences Encounter Series is designed to directly integrate the disciplines of visual thinking and visual problem solving with the curriculum and core values associated with biology, zoology and other life sciences," Shafer Art Gallery Director Dave Barnes said.

This combination is something that sets the CUNA Mutual Retirement Solutions Art and Science Encounter Series at the Shafer Art Gallery apart.

"I see the Shafer Art Gallery as sort of a flagship out there," Waterman said. "There are not many places doing art-science things. Exposing people to the hybrid of how art and science can work together is still a relatively unusual idea. It is fantastic that the gallery is there as a facility and available to people in the area who are curious."

Visitors will experience programming which directly links the close looking and critical thinking required of both the visual artist

and scientist. They will be pressed to see the beauty of the beetle as well as the functionality of its parts.

"Classes from all STEM disciplines are invited to encounter beetles as both natural structures with inherent beauty and as beautiful examples of natural engineering and function," Barnes said. "Programming involves both age appropriate critical art-making activities combined with discovery opportunities to experience the life, forms and bio-diversity importance of beetles."

This series is made possible by underwriting from CUNA Mutual Retirement Solutions and a grant from The Kansas Creative Arts Industries Commission.

For more information, contact Director Dave Barnes at the gallery, 620-792-9342, or barnesd@bartowcc.edu.



"Hopefully the next beetle you see, you don't step on it," sculptor Gar Waterman said. "You realize, this is a complex, amazing creature and look at it then put it aside."



This is one of the close-up photos of beetles by William Guth which will be in the show.

Family Day June 23

The Shafer Gallery and CUNA Mutual Retirement Solutions will host a Family Day full of activities including a free puppet show performed by the Stor-Lion Puppet Theatre and a visit from the Kansas State University Insect Ambassador Zoo on June 23. There will also be various bug related crafts throughout the day.



Gar Waterman's interpretation of a Stag Beetle created from scrap metal will be on display.



City to announce administrator finalists

Following Monday announcement, meet-and-greets planned

BY DALE HOGG
dhogg@gbttribune.com

Great Bend city officials will announce the three finalists for the city administrator position at 10 a.m. Monday, Community Coordinator Christina Hayes said. The candidates are allowed by contract to back out before names are publicly released if they decide to do so.

On Wednesday, the finalists will meet with city personnel, receive internal tours and sit for official job interviews. These meetings are not open to the public.

But, Thursday morning, there will be a meet-and-greet for Great Bend Chamber members and local business representatives. Then, starting at 4:30 p.m. Thursday at the Great Bend Events Center, 3111 10th St., the public is invited to visit with the candidates.

"This is an important decision," said Chamber President Jan Peters. She encouraged residents to take the opportunity to visit with the finalists. This matter has been on the council's plate for quite a while now.

In May, the City Council met in executive sessions to narrow the field of applicants to three.

In February, the council approved



SUSAN THACKER Great Bend Tribune
ABOVE: A boy reacts after tasting a snack made with cricket flour. BELOW RIGHT: Children are invited to pet a giant cockroach during the Bug Ambassadors program, Saturday at Barton Community College.

Shafer Gallery holds Backyard Buggin' day

BY SUSAN THACKER
stthacker@gbttribune.com

Dancing elms and butterflies from the Stonelion Puppet Theatre interacted with audience members Saturday at Barton Community College's Shafer Art Gallery. The gallery and CUNA Mutual Retirement Solutions hosted a Family Day full of activities, including the free puppet show and a visit from the Kansas State University Insect Ambassador Zoo. There were bug-related crafts and activities throughout the

day. Those who attended could also view the gallery's current exhibit, "Beauty and the Beetle," featuring sculptures by Gar Waterman and micro-photography by William Guth. The larger representations of beetles allow visitors to see the intricate beauty of the insects, Shafer Art Gallery Director Dave Barnes said.

The exhibit remains open through July 6. Gallery hours are 10 a.m. to 5 p.m. Monday. See **BUGS, 5A**



GREAT BEND (KA)

BUGS, from page 1A

Beetle exhibit continues through July 6

through Saturday. During the Insect Ambassador program, children looked at live spiders, scorpions and other creepy crawlies, and some of the braver ones accepted the invitation to pet a millipede or a giant cockroach. They also watched a video and looked at insect parts under microscopes.

Children learned about all of the things bugs do in their backyards, and later they could roll a giant "dung ball" around outside and pretend to be dung beetles.

Bugs as food

Maverick Feldt, grandson of Great Bend attorney Robert Feldt, set up a display of foods made with insects and worms.

"I am working to help the world with hunger by supplying a new source of protein," Feldt said. He read a study that estimated the world population will be 9 billion by 2050 and at that time there will not be enough livestock to feed everyone. "Insects are sustainable and nutritious," he said, noting many offer a high protein content for their size.

Feldt said he is a culinary student to plans



SUSAN THACKER Great Bend Tribune
Maverick Feldt, right, talks to a woman about the nutritional value of insects while he sets up his food display Saturday at Barton Community College.

to attend Kansas State University this fall to focus on entomophagy, the use of insects as human food. His display table featured granola bites made with cricket flour, whole roasted crickets, salsa with agave worms and vodka with bamboo worms. Crickets also fla-

vored seasoned salt and bitters. When one man balked at the idea of eating bugs, Feldt asked him, "Do you want to know what's in hot dogs?"

A little boy looked at the cricket granola skeptically and asked, "How can we eat this?" Feldt

answered, "Because it's been cleaned and it's not cooked, and there are no bad things in it."

Feldt said entomophagy is only a hobby for him at this time so he wasn't there as a bug-edibles entrepreneur. "I'm just helping spread the word."

C
C
D
87
Ju
P
in
b
10
D
P
E
ri
o
G
G
rd
th
S
g
ti
w
rd
d
w
th
an
st
he
C
N
ri
to
M
P
C
G
K
av
21

CUNA Mutual Retirement
Solutions Art and Science
Encounter Series
2018



245 NE 30 RD
Great Bend, KS 67530
620-792-9342
www.shafergallery.org
facebook.com/shafergallery



Glen and Elaine Mull Classroom Outreach



XII I II
SHAFFER
ART GALLERY

2017-2018

Actions

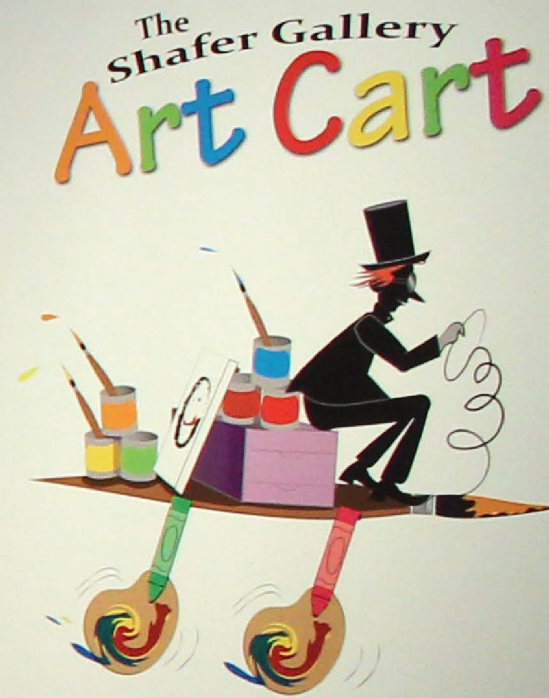
The Glen and Elaine Mull Classroom Outreach Art Cart takes what is going on at the Shafer Art Gallery into classrooms at schools and other venues. The main goal of the Art Cart program is to inspire art making and creativity through a mini gallery experience.

The Art Cart program allows the Shafer Gallery to show students what professional artwork looks like, how it is made, and how it functions as art. Students are able to see what is going on at the Shafer gallery without leaving their classroom, and then engage in age appropriate hands on art making activities related to the exhibit.

Not only is the Art Cart available to educate about current exhibits, but it is also equipped for workshops related to classroom curriculum. The Art cart can make curricular connections to all STEAM (Science, Technology, Engineering, Arts, and Math) subject areas. The Art Cart is also on hand for summer school visits.

The generous contributions recieved this year from the Glenn and Elaine Mull Classroom Outreach have been used in part to:

- ☛ purchase art supplies for classroom visits and workshops
- ☛ subsidize fees of visiting artists, presenters and workshop assistant
- ☛ publicity for "Classroom Outreach Events"



Glen and Elaine Mull
Classroom Outreach

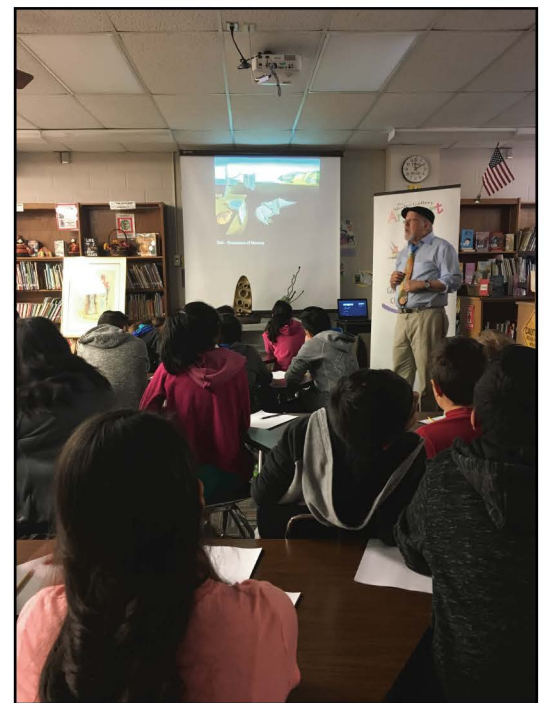
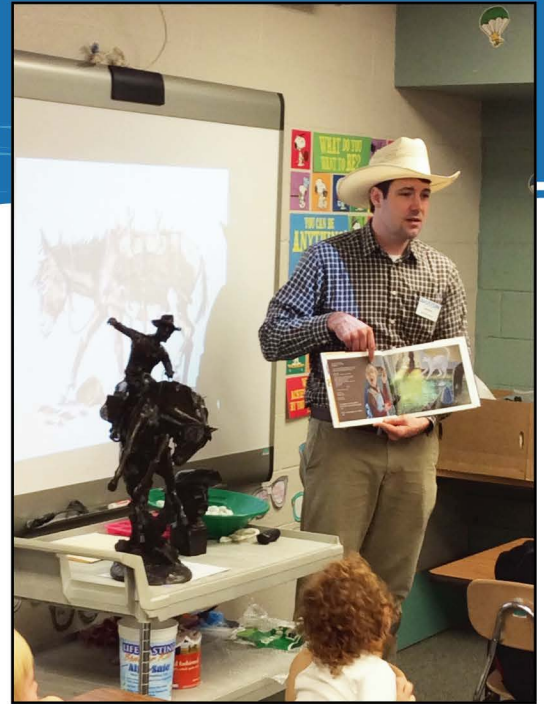
Art Cart Outreach has occurred at 12 venues including Shafer Gallery visits and engaged with over **1200** students.

Classroom Visits



We have entered into an arrangement with USD 428 to be a regular part of their art curriculum schedule. We will not replace or augment any of their present functions. Instead we provide a standalone cultural enhancement to the District's art offering by bringing a bit of the Gallery experience to the classroom. This Fall funding provided by the Mull Family Outreach enabled the Shafer Art Gallery staff to visit all the kindergarten and 6th grade art classes in the Great Bend School USD 428. The theme for the sixth graders was surrealism. We brought a bit of the Shafer Gallery to the classroom by bringing examples of surrealism from the permanent collection to discuss, analyze and laugh at. Students were encouraged to come up with their own interpretations of the works of art. We discussed some of the techniques and ideas behind the movement then guided the students through a collaborative surreal art project called the "exquisite corpse."

The kindergarten theme was the old west. We brought a selection of bronzes from the gallery to the classroom focusing on the popular and endearing sculpture of "Prunes" the prospector's donkey. We read a children's book based upon the "prunes" legend and demonstrated the process of casting using simple materials.



Art Cart Vists

- Park Elementary Kindergarten
- Park Elementary School 6th graders
- Jefferson Elementary Kindergarten
- Jefferson Elementary 6th graders
- Riley Elementary Kindergarten
- Riley Elementary 6th graders
- Lincoln Elementary Kindergarten
- Lincoln Elementary 6th graders
- Eisenhower Elementary Kindergarten
- Eisenhower Elementary 6th graders

Mages Fish Market



In conjunction with the Mage's Fish Market exhibit, over **300** kids visited the gallery. They toured the exhibit, made lures, and painted fish. The Art Cart also travelled to Jefferson Elementary to bring the exhibit to those who could not come to the gallery.



A lure

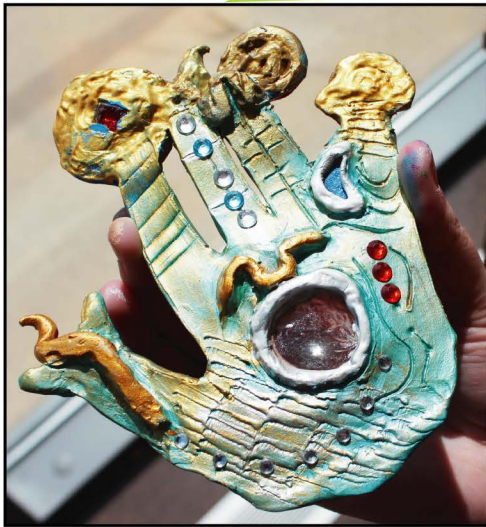


Student work was put on display on the gallery walls



Student artwork

Dream Hands: Zweggart



This is a finished dream hand. The project involved two visits to the school. First the students created with air dry clay, and at subsequent visit they painted and decorated them.

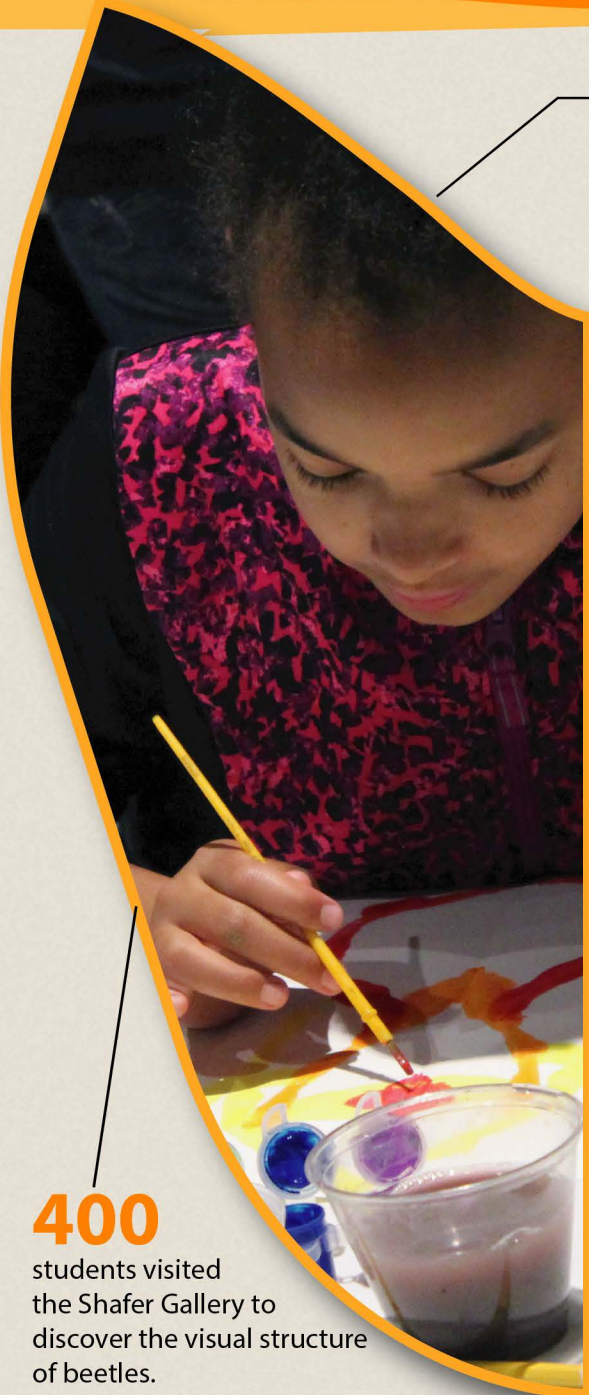
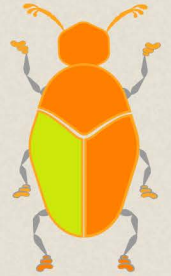
In conjunction with the exhibit of sculptural works by Glenn Zweggart we brought sculptures and the Shafer Gallery experience to Park Elementary and the entire student body of Central Kansas Christian School. Inspired by the actual work students made their own sculptured dream hands.



Art and Science Encounters

BEAUTY AND THE BEETLE

Participants in workshops and classes gained an understanding of the form and function of insect parts, colors, and patterns. K-12 classes enjoyed games, microscope investigation, and art activities.



400

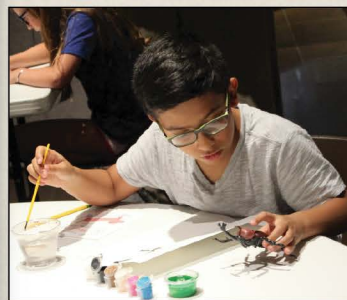
students visited the Shafer Gallery to discover the visual structure of beetles.



happy kid



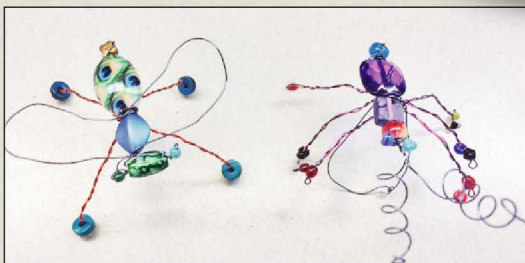
3-D bug sculptures



observational drawing



symmetry bugs



Wire Bug workshop





245 Ne 30 Rd, Great Bend, KS 67530
shafergallery.org / [Facebook.com/shafergallery](https://www.facebook.com/shafergallery)
Tel: 620-792-9342