

OKLAHOMA GEOLOGICAL FOUNDATION

EXCELLENCE



OKLAHOMA GEOLOGICAL FOUNDATION

Our hands-on
interactive workshops
equip teachers
to bring engaging

**EARTH SCIENCE LESSONS
TO THEIR CLASSROOM.**



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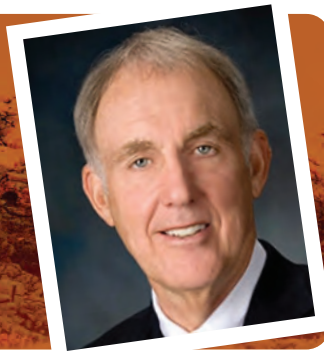
The Foundation has had a profound impact on the students of my school, district and myself, as an educator.

Randy Utt, M.Ed., NBCT
Gifted and Talented Education
James L. Dennis Elementary

**ANNUAL
2022
REPORT**

in **Earth Science Education.**

A LETTER FROM THE CHAIRMAN



As a 501(c)(3) Foundation, we are committed to our mission statement of “Excellence in Earth Science Education”. This model of excellence challenges students and teachers to make Earth Science and STEM education a priority. The Foundation’s “Mission” is divided into five directives, and these directives are the bedrock of everything the Oklahoma Geological Foundation seeks to accomplish. These directives are listed on page four in this report.

In addition to presenting in this report a list of donors, and funds and grants awarded, you will find highlights of events and

activities that occurred during the year. The Foundation allocates the restricted and non-restricted funds according to the Donor and Program intent to meet the grant requests from the students, teachers, and institutions. You will note that many of the Foundation Programs featured in the report emphasizes the impact the Programs have on the students, teachers, and institutions that are committed to STEM and Earth Science education.

2022 was a busy year for the Foundation, a review of the 2022 Annual Report highlights the grants and programs supported financially, the dedicated leadership of the Board, and more importantly, you, our benefactors. Our accomplishments would not have been possible without the loyalty and support of our donors. As the Foundation continues to cultivate new partnerships, fund traditional grant requests, as well as new innovative Programs, and recognized those students who have worked so hard to receive Foundation awards, the Foundation Directors want to express our sincere gratitude for your gifts, support, and continued confidence in the Foundation and its Mission.

As I close this message to you, I want you as donors to know that your gifts are making a huge difference. After one of the Directors delivered a Rock, Mineral, and Fossil Collection to a middle school, and spent time reviewing the Collection with the students and teachers, the teacher responded in a note:

Hi Molly.....we had the Geological Foundation come by the school and OH MY GOODNESS. It's AMAZING! The rocks. And minerals. And the teacher in the 6, 7, 8th grade, we have 1 science teacher. And he and I just kept saying OH MY OH MY OH MY. So, I've already had the kids sitting on the floor. And I'm passing them around. And if we need pictures sometime, just let me know. And I'd be more than happy to show kids having the rocks and looking at them. They were smelling them, rubbing them, touching them. It was wonderful. Thank you so much!

The Foundation’s mission is vital and, as you’ll read in these pages, its model of “Excellence in Earth Science Education” is positively affecting the lives of a new generation of geoscientists – your children, and science itself.

Together we’re investing in the future.

Warm and personal regards,
Thomas C. Cronin

VISION FOR THE FUTURE - MAKING DREAMS REALITIES

Currently, the Foundation has twenty programs that were established to give students, teachers, and institutions the opportunity to participate in the Earth Sciences and STEM education. These programs have been established by the Foundation, by individuals to honor loved ones, both living and deceased, and by individuals and companies who desire to preserve the Legacy of deserving individuals.

- 1). The Frederick H. & Lois M. Kate Award (2006)
- 2). The Suzanne Takken Memorial Award (2006)
- 3). The Beth Cronin Elementary School Program (2006)
- 4). Kenneth Stewart Cronin Lecture Series Program (2006)
- 5). OGF Excellence in Earth Science Education Awards Program (2006)
- 6). Herbert G. & Shirley A. Davis OSU Geology Scholarship Program (2007)
- 7). The John Gatchell Earth Science Teaching Program (2008)
- 8). The Philip Boyle Foundation & The OGF's School Program (2008)
- 9). The Charles E. Branham Geological Library Program (2010)
- 10). The OGF Summer Field Camp Grants Program (2011)
- 11). Lance Ruffel & OGF Innovations in Earth Science Education Program (2012)
- 12). Shirley A. Davis Program for Earth Science Education (2013)
- 13). F.M. Black Summer Field Camp Grant (2013)
- 14). William A. Clement Earth Science for Guthrie Middle & High Schools (2014)
- 15). Robert W. & Jo Ann Waring Memorial Scholarship Program (2015)
- 16). The Oklahoma Geological Foundation STEM Program (2017)
- 17). The Larry Lunardi and the OGF's Rock, Mineral, and Fossil Collection Program (2018)
- 18). David G. & Janet G. Campbell & the OGF's Native American Scholarship Program (2018)
- 19). The Oklahoma Geological Survey and Oklahoma Geological Foundation's GeoKIDS Program (2022)
- 20). The Oklahoma Geological Foundation's Geoscience Education & Engagement Program. (2022)

Funds from the Oklahoma Geological Foundation's Programs are being used to educate, train, and prepare students for the future. The Foundation Directors are fully committed to providing the Geoscience educational needs for teachers and institutions in Oklahoma.

Since inception, the Mission of the Oklahoma Geological Foundation has been to implement a model of “Excellence in Earth Science Education.” With the help and support of the Foundation, this model challenges students and teachers to make Earth Science education a priority. The Foundation’s “Mission” is divided into the following Directives:

- 1). Motivate and provide technical support for students who attend elementary, middle, and high schools within Oklahoma and who participate in an Earth Science curriculum.
- 2). Promote and grant financial support to teachers and schools throughout Oklahoma that conduct programs in the Geological Sciences.
- 3). Facilitate and aid financially students who: (a) attend colleges and universities in Oklahoma and major in the Geological Sciences, with the goal of obtaining an undergraduate or graduate Degree in those fields of study, and (b) students who plan to pursue a career in the Earth Sciences.
- 4). Provide funding for worthy, scientific endeavours that are conducted by other organizations that promote the Geological Sciences in Oklahoma.
- 5). Acknowledge and honor certain Professionals that are employed in businesses affiliated with the Geological Sciences, and who have made or continue to make significant contributions to the profession and their communities.



FOUNDATION PARTNERSHIP

BENEFITING STEM & EARTH SCIENCE EDUCATION

In addition to the Foundation’s traditional Mission of providing grants and awards to students, teachers, and schools, the Foundation actively partners with other organizations to further promote the importance and awareness of Earth Science education and STEM, which includes actual hands-on participation. One such partnership is with the Girl Scouts Western Oklahoma.

Working with the Property Task Force for the Girl Scouts Western Oklahoma, the Oklahoma Geological Foundation helped design and develop a rock-climbing wall at the Girl Scouts new STEM camp, Camp Trivera. The Girl Scouts are able to utilize their geological knowledge with the use of corresponding fossils and the geologic time-scale while climbing the rock wall. This thirty-foot tall exhibit is located in the Inasmuch Foundation’s Gathering Hall and has proven to be one of the Girl Scout’s favorite activities.

In early 2022, the Foundation participated in the Girl Scouts Geekapalooza which was at Camp Trivera. The Foundation had rocks, minerals, and fossils for the attendees to look at and study, as well as a Geode cracker, where geodes were cracked, and the girls were able to see what was inside the geodes. An opportunity to see how mother nature preserves history and view it first-hand.

The Oklahoma Geological Foundation also had the honor in 2022 to support the Girl Scouts “Wall of Women in STEM Recognition”, and recognize Dr. Molly Yunker, a Foundation director and chairman of the Grants and Awards and Girl Scouts Committees for the Foundation, and Education and Outreach Coordinator for the Oklahoma Geological Survey, as one of the honorees of the Wall of Women.

Other activities include providing Camp Trivera with two Rock, Mineral, and Fossil Collections for teaching purposes, as well as large minerals specimens which are placed in various places around Camp Trivera. The Foundation has also participated in the Daisy Day event, which the Girl Scouts sponsor every year for girls.

The Foundation maintains an active role and association with the Girl Scouts Western Oklahoma.

Another partnership with the Girl Scouts that the Foundation has been extremely successful is through the Larry Lunardi and Oklahoma Geological Foundation’s Rock, Mineral, and Fossil Collection Program, which not only distributes these Collections to teachers and schools throughout Oklahoma, but to other organizations as well.



THE EVERYDAY EARTH & STEM OUTREACH PROGRAM

The EveryDay Earth Program was established in 2017 by the Oklahoma Geological Foundation as a joint venture with Esteem Interactive Learning and other sponsoring partners. This program is designed to provide Earth Science educational material in an online format that students will enjoy. It is presented in a light narrative that filters in multiple lessons for the

students and teachers to explore aspects of the Earth's hydrosphere, geosphere, biosphere, and atmosphere. This is accomplished by using localities in Oklahoma and surrounding areas as the backdrop scenery for the study of the Earth Sciences. The Program contains an accumulation of videos and interactive lessons thus allowing students to participate in scientific investigations on screen.

The Program will consist of ten stand-alone Missions with each being an impactful product delivered at no charge to sponsored schools. The first four Missions are currently online in which the students are able to investigate the hydrosphere, weathering and erosion, minerals, igneous rocks, volcanoes, and sedimentary and metamorphic rocks. The EveryDay Earth Program is designed to be used as self-directed learning by teacher-led or by parents of homeschooled children.

The target audience for the EveryDay Earth Program is 4th through 8th grade students and it directly follows the Next Generation Science Standards as well as the Oklahoma Academic Standards for Science.

Along with the Oklahoma Geological Foundation, other supporting partners include: Jerome Westheimer Family Foundation, Devon Energy, Chesapeake Energy, Echo Energy, University of Oklahoma Department of Geosciences, Halliburton, Pick and Hammer Club, and Directors of the Foundation.

The smallest act of kindness is worth more than the grandest intention.

Oscar Wilde

Since December 1993,

the Oklahoma Geological Foundation has been a major Supporter of Earth Science education and the Science, Technology, Engineering, and Mathematics, (STEM) Outreach Program in Oklahoma.

Some of the Foundation's existing STEM Outreach Programs include:

- * An Earth Science related teacher program called "More! Rocks in Your Head"
- * The distribution of Rock, Mineral, & Fossil Collections to Oklahoma schools
- * Foundation Annual Awards banquets honoring teachers, students, & schools
- * Educational banquets recognizing Oklahoma's Legends in the Petroleum Industry
- * EveryDay Earth



SUPPORTING EARTH SCIENCE EDUCATION FOR OKLAHOMA SCHOOLS, TEACHERS, AND STUDENTS

The Oklahoma Geological Foundation is extremely proud of the number of students and teachers directly impacted by the Foundation's many Programs and Grants. When a teacher or educational facility applies for funding, the Foundation formally asks the applicant for an estimate on the number of students that are affected as well as how many teachers are involved. The numbers given to the Foundation are remarkable.

ROCK, MINERAL, & FOSSIL COLLECTIONS

One Foundation initiative that has had an incredible influence on students and teachers throughout Oklahoma, is the Rock, Mineral, and Fossil Collection Program.

In April 2015, the Foundation, under the direction and leadership of Larry Lunardi, developed a program to supplement Mr. Lunardi's middle school Earth Science teaching model. Mr. Lunardi volunteers his time to assist instructors as they teach Earth Science education to their students. This Program provides a diverse collection of museum quality rocks, minerals, and fossils to Oklahoma based schools to supplement their Earth Science education program. These collections allow the instructors the ability to teach the Earth Sciences with actual rocks, minerals, and fossils, which is a direct learning benefit for the students. The Foundation has distributed over 265 collections which have had a direct effect on approximately 80,220 students and involving over 1,600 teachers on an annual basis.

As stated earlier, these numbers are provided to the Foundation by the teachers who have requested and received these Collections.

UNIVERSITY GEOLOGY FIELD CAMPS

Since 2014, the Foundation has provided funding for 150 college level students to attend summer geology field camps. These students have been selected from Oklahoma State University, University of Oklahoma, and Tulsa University. A total of \$115,000 has been distributed to students attending Geology Field Camp since inception of the Program.

OKLAHOMA TEACHER WORKSHOPS

Annually, since 2011, the Oklahoma Geological Foundation has sponsored and participated in a full-day workshop for Oklahoma Earth Science teachers called: "More! Rocks in Your Head" and continues to present the workshop on at least a yearly basis. This seminar is being taught by Richard Opalka, a degreed geologist and former Earth Science teacher at Edmond North High School.

The workshop covers a full scope of Earth Science topics and skills for the teachers, who can apply this knowledge back to the classroom making Earth Science a memorable experience for the students. Topics covered include environmental processes, rock formation, mineral identification, geologic landforms, mapping, and the formation of fossil fuels. This is one of the best workshops I have been to. The information will be used in my classroom." Approximately 450 Earth Science teachers have participated in a total of ten workshops over the past eight years.

PROVIDING THE TOOLS, STUDENTS REALIZING THEIR DREAMS

In the fall of 2006, Saint Elizabeth Ann Seaton Catholic School opened a state-of-the-art science laboratory to facilitate the teaching of pre-k through 8th grade Earth Science Education studies. In 2007, the Oklahoma Geological Foundation funded its first grant to Saint Elizabeth, to help supply equipment for the lab and to establish a first-class Earth Science Program. Since that first grant, funds from the Foundation have provided technology and equipment for the school's science lab, as well as providing students with technology that is used in conjunction with the lab allowing students to study Earth Science and STEM education more efficiently.

Since 2007, the Foundation has funded Grants totaling over \$83,000 to the school through the Beth Cronin Elementary School Endowment Program. In 2022, Saint Elizabeth requested funds to equip the science lab with a Promethean Interactive Panel, which is an interactive touchscreen board used for instructional purposes. The Panel will be used with twenty Dell Chromebooks and twenty Google Educational Management Console apps purchased for the students in 2019.

Saint Elizabeth estimates that since the first Grant in 2007, Foundation grants have impacted almost 6,000 students that have received one year of enhanced science education because of the Foundation's Grants. Currently, approximately 450 students annually benefit from the hands-on science experience resulting from Foundation funding.

SUPPORTING EARTH SCIENCE EDUCATION

...CONTINUED

GUTHRIE HIGH SCHOOL

The Oklahoma Geological Foundation has been providing Grants to the Guthrie High School system since 2014. Funds from these Grants have been used to purchase school supplies, laboratory equipment, textbooks, Chromebooks, charging cart for storage, and Earth Science demonstration models to expand the Earth Science classes.

In 2022, the Foundation provided a Grant of \$4,674 to purchase soil macro-nutrient test kits to Cache High School, which allows for testing of soil quality. This Grant was funded through the William A. Clement Guthrie High School Grant.

RECOGNIZING A NEED IMPACTING LIVES

It didn't take Herb and Shirley Davis long to appreciate the Vision and Mission of the Oklahoma Geological Foundation in 2006, when the Foundation established five new programs that addressed the need for greater emphasis on Earth Science education in the Oklahoma school for grades K through 12. In December of 2007, Herb and Shirley established *The Herbert G. and Shirley A. Davis Oklahoma State University Geology Scholarship Program*. The Program funds undergraduate and graduate-level studies at the T. Boone Pickens School of Geology at Oklahoma State University. The grants are made available to full-time students who are pursuing Earth Science education, and degrees and careers in the field of geology.

In 2013, the Davis's established the *Shirley A. Davis Program for Earth Science Education*. Herb and Shirley have generously established grants and scholarships to further the education of students at all education levels through many organizations, including the Oklahoma Geological Foundation. It has been the desire of Shirley to establish a program to further assist Elementary, Middle, and High School students, teachers, and Schools.



Herb was a petroleum geologist who devoted his life to his family, education, science, and the energy industry. In addition to the many awards and honors that Herb has received from AAPG and Oklahoma State University, he was also honored with the Oklahoma Geological Foundation's Legends Award in November of 2009. Sadly, Herb Davis passed away in April of 2019.

Herb and Shirley are Charter Members of the Oklahoma Geological Foundation and have a long philanthropic history in supporting the Earth Sciences and Geology.

Since 2013, both Programs have provided almost \$91,000 to fund over forty Grants to students, teachers, and institutions. In 2022, *The Herbert G. and Shirley A. Davis Oklahoma State University Geology Scholarship Program* funded three Grants to students totalling \$7,500, and The Shirley Davis Earth Science Education Program funded two Grants impacting over thirty students at Taft Middle School.



GeoKIDS:

GEOLOGY EXPLORERS IN OKLAHOMA: KIDS INVESTIGATING AND DOING SCIENCE

Dr. Molly Yunker, Education & Outreach Coordinator, Oklahoma Geological Survey

“GeoKIDS is a Program of the Oklahoma Geological Survey (OGS) and the Oklahoma Geological Foundation (OGF). It has been a popular program since its inception in 2018. The OGF has been the sole supporter from the beginning and the Program wouldn’t exist without their support over the last five years. The OGS continues to receive requests for the GeoKIDS program from teachers, camps, library programs, and other venues including recreation center programs, and homeschool communities. The program is well received and very popular among teachers and instructors of all kinds. To date, just under 3,000 kits have been assembled and disseminated to children throughout Oklahoma.

Teachers and administrators appreciate the access to these invaluable resources, free of cost, as they often have little to no budget to spend on science materials. One administrator wrote:
“The creative hands-on elements you provide for participants to explore, touch, smell, and see high quality specimens that are typically off limits to folks is a truly unique experience.....Every time we host GeoKIDS, people express gratitude and excitement. Beyond the entertaining aspects of this program, you are sparking curiosity and critical thinking in both children and adults. Programs like this contribute to communities in invaluable ways...and we are so grateful for you putting this all together and offering it for free. From the rock bottom of our hearts, thank you so much.”

Along with the delivery of the GeoKIDS kits, one for each student, the OGS also delivers an engaging and interactive hands-on geoscience program that makes use of the Rock, Mineral, and Fossil Collection (also an OGF program). A librarian at the Metropolitan Library System has requested GeoKIDS year after year. She writes:

“I’m the children’s librarian at the W.A. Library. We met in 2019 when you led a geology program at the Downtown Library. I’ve since transferred locations and was hoping you are available to lead a geology program at W.A. in August, September, or October? You lead such a great program at Downtown, and I know the kiddos at W.A. would love it too! Do you have any rocks the kids could take home? Those were so popular when you came to the Downtown Library.”

Molly Yunker states *“one of OGS’s missions as an agency devoted to outreach, is to provide resources to teachers, just like GeoKIDS. We can’t do that without support from the OGF! Programs like GeoKIDS allows the OGS to disseminate invaluable resources to teachers with no support or little funding and are looking to enhance their programmatic offerings. And because it’s completely free to all due to the generosity and support of the Oklahoma Geological Foundation, we are doing educators in Oklahoma a great service by providing physical and instructional resources!*

Total of 2,428 kits to over 135 groups since 2018!

Year	# GeoKIDS Kits Distributed
2018	520
2019	530
2020	435
2021	454
2022	489

Students get to keep the collections!

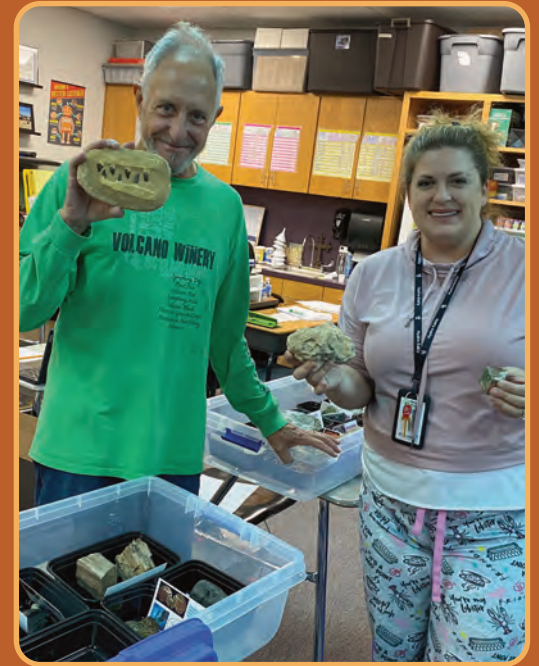
THE LARRY LUNARDI AND THE OKLAHOMA GEOLOGICAL FOUNDATION

ROCK, MINERAL, AND FOSSIL COLLECTION PROGRAM

In 2015, under the direction of Oklahoma Geological Foundation Director Larry Lunardi, the OGF began providing a diverse collection of museum quality rocks, minerals, and fossils to Oklahoma based schools. This program was well received by students and teachers with overwhelming positive comments and support. As a result, in 2018, the Larry Lunardi & the Oklahoma Geological Foundation's Rock Mineral, and Fossil Collection Program was officially established.

As a testimonial to this success, a total of 265 Collections have been distributed to Oklahoma schools since 2015. Since inception, the program annually impacts over 80,220 students and involves more than 1,600 teachers on an annual basis.

With continued support and funding from the Foundation along with Larry Lunardi's expertise, the ultimate goal is to have a Collection in every school in Oklahoma.



“Dear Mr. Lunardi’

I appreciate how you came to our school, and it was amazing how you have so many rocks and minerals. I didn’t know some, but now I do. Thank you so much for donating them to us. You are welcome to our school anytime.”

Wendy
San Miguel School

Each year, the Oklahoma Geological Foundation conducts the “Annual Awards Banquet” to honor and recognize students, teachers, and educational institutions by annually providing financial grants and awards. Most of the grants and awards given out each year are presented at the banquet.

Throughout Oklahoma, students, teachers, and their families are invited to attend the banquet. Each year the banquet continues to grow and during this time, the recipients and their families can meet casually with the Foundation’s Directors and Donors along with other peers from various educational facilities.

In 2022, the Foundation provided \$105,299 in funding for grants and awards.

**THANK YOU
FOR SUPPORTING THE FOUNDATION’S
MANY EDUCATIONAL INITIATIVES!**

“Thank you so much for awarding me the Frederick H. and Lois M. Kate Endowment Fellowship. I would like to thank all the donors for their generosity which made this Fellowship possible. Additionally, I would like to thank each member of OGF. The Frederick H. and Lois M. Kate Endowment Fellowship will help me continue and advance my dissertation research, as well as provide the opportunity to include undergraduate students in my project. Thank you for providing me the opportunity to further explore and make advances in geosciences.....”

Student who received the Frederick H. & Lois M. Kate Endowment Fellowship Grant

THE OKLAHOMA GEOLOGICAL FOUNDATION ANNUAL AWARDS BANQUET



“I am excited and honored to receive this award, which stands as a tribute for the inspiring life of Suzanne Takken. As a woman in geoscience, I appreciate the establishment of this award in her name, and the opportunity it brings to those pursuing their dreams. This award pushes me one step further to completing my M.S. degree in geology and brings with it the confidence to do so. This is a bestowal of financial relief, as well as a great honor that I will think of fondly in years to come. I want to truly express how grateful I am for this privilege, as it encourages me to be diligent in my final studies! Thank you again for such an honor and know that it is the highlight of my semester.”

Student who received the Suzanne Takken Memorial Fellowship



OKLAHOMA GEOLOGICAL FOUNDATION

GRANTS & AWARDS FOR 2022

HERBERT G. & SHIRLEY A. DAVIS OKLA. STATE UNIVERSITY GEOLOGY SCHOLARSHIP: (\$7,500)

Recipient: Victor Fakeye (\$2,500)
Oklahoma State University

Thesis: “3D Model-Based Inversion for Onshore CO₂ Storage in Stack Play, Anadarko Basin”

Recipient: Silas Samuel (\$2,500)
Oklahoma State University

Thesis: “Integrated Seismic Inversion, Rock Physics Modeling and Artificial Intelligence for Carbon Storage”

Recipient: Joshua Ademilola (\$2,500)
Oklahoma State University

Thesis: “Geological and Geomechanical Modeling for CO₂ Sequestration in Depleted Oil and Gas Reservoirs”

THE FREDERICK M. BLACK SUMMER FIELD CAMP GRANT: (\$6,000)

Recipients: Autumn Troxel (\$2,000)
Oklahoma State University

Hayden Noakes (\$2,000)
University of Oklahoma

Sarah Jackson (\$2,000)
University of Tulsa

Grant: Funds awarded to undergraduate geology students to supplement 2022 Summer Field Camp expenses.

THE OKLAHOMA GEOLOGICAL FOUNDATION GRADUATE FELLOWSHIP AWARD: (\$10,000)

Recipient: Lily Clough (\$5,000)
University of Tulsa

Thesis: “Machine Learning of Mass Spectrometry for the Development of Software that can Autonomously Determine the Chemistry of an OceanWorld”

Recipient: Marta Anson (\$2,000)
University of Oklahoma

Thesis: “Diagenetic Controls and Rock Magnetic Cyclostratigraphy in the Woodford Shale, Ardmore Basin, Southern Oklahoma”

Recipient: Noshin Sharmili (\$1,000)
University of Oklahoma

Thesis: “Application of Remote Sensing and Geochemical Analysis Technologies to Delineate the Tectonics and Fluvial Geomorphology of the East African Rift System along with Assessment of its Environmental Impact on the Lake Tanganyika”

Recipient: Karelia La Marca (\$1,000)
University of Oklahoma

Thesis: “Optimization of Machine Learning Application in Seismic Facies Interpretation and Reservoir Characterization, from Oil and Gas Geothermal”

Recipient: Emuobosa Patience Ojoboh (\$1,000)
University of Oklahoma

Thesis: “Structural Character of Oklahoma’s Basement from Borehole Core Analysis”

THE FREDERICK H. & LOIS M. KATE AWARD: (\$5,000)

Recipient: Lauren Haygood
Oklahoma State University

Thesis: “Extent of Carbon Burial Driven by Iron Oxide in the Southern Ocean”

THE SUZANNE TAKKEN MEMORIAL AWARD: (\$5,000)

Recipient: Brittany Stroud
University of Oklahoma

Thesis: “Integrated Subsurface Characterization of the Caney Shale, Ardmore Basin, Oklahoma”

BETH CRONIN ELEMENTARY SCHOOL ENDOWMENT: (\$4,600)

Recipient: St. Elizabeth Ann Seton
Catholic School

Grant: Funds used to purchase a Promethean Interactive Panel.

OKLAHOMA GEOLOGICAL FOUNDATION GRANT: (\$510)

Recipient: Girl Scouts Western Oklahoma

Grant: Funds used to purchase Las Choyas Coconut whole Geodes to be used for the Girl Scouts annual Geekapalooza Festival.

TOTAL
\$105,299

GRANTS & AWARDS FOR 2022

THE OKLAHOMA GEOLOGICAL FOUNDATION SUMMER FIELD CAMP GRANT: (\$25,000)

Recipients: A total of 20 Students, 9 students from Oklahoma State University, 10 students from the University of Oklahoma, and 1 student from the University of Tulsa, all who will attend summer field camps.

Grant: Funds from these grants are awarded to undergraduate geology students to supplement 2022 Summer Field Camp expenses. Since 2012, the Foundation has provided financial assistance to over 200 students who have attended Field Camps.

ROBERT W. & JO ANN WARING MEMORIAL FELLOWSHIP: (\$978)

Recipient: Oklahoma Geological Survey

Grant: Funds used to support the purchase of rocks, minerals, and fossils for the GeoKIDS kits, distributed freely to students throughout Oklahoma, in concert with educational programs given by the Oklahoma Geological Survey's Education & Outreach team.

WILLIAM A CLEMENTS EARTH SCIENCE FOR GUTHRIE SCHOOLS: (\$4,674)

Recipient: Cache High School

Grant: Funds used to purchase soil macro-nutrient test kits and test kit refills to allow for testing of soil quality. The purpose of this hands-on project is to investigate the local soil origins and quality by Cache's high school chemistry classes.

THE PHILIP BOYLE FOUNDATION & THE OKLAHOMA GEOLOGICAL FOUNDATION ELEMENTARY AND SECONDARY SCHOOL PROGRAM: (\$800)

Recipient: OSU AAPG Student Chapter (Dylan Morton Chapter President)

Project: The \$800 sponsorship provided will be used to award 3 undergraduate students that place 1st through 3rd in the poster presentations at our annual student research symposium known as "TechFest".

SHIRLEY A. DAVIS EARTH SCIENCE EDUCATION GRANT: (\$1,800)

Recipient: Taft Middle School, & 30 middle school students

Grant: This was the first time Taft Middle School has ever sent students to the International Academic Competitions Regional Science Bee, and these funds from the grant supported the competition registration, transportation, and a meal for 30 students.

OKLAHOMA GEOLOGICAL FOUNDATION GRANT: (\$889)

Recipient: More! Rocks in You Head

Grant: The funds were used to support costs for More! Rocks in Your Head workshop that was taught at Rose State College "Rock the Earth" Summer Academy.

SHIRLEY A. DAVIS EARTH SCIENCE EDUCATION GRANT: (\$2,535)

Recipient: Taft Middle School, and two 7th grade students at Taft Middle School: Liam Miller and Bryan Trinidad

Grant: These two students qualified for a National Science Bee competition held in Orlando, was used to support their attendance at the Bee. This was the first time Taft Middle School has ever sent students out of state for IAC's National Science Bee Competition.

THE LANCE RUFFEL AND OKLAHOMA GEOLOGICAL FOUNDATION INNOVATIONS IN EARTH SCIENCE EDUCATION PROGRAM: (\$5,000)

Recipient: Girl Scouts Western Oklahoma

Project: Funds from this grant were used to honor the Girl Scout's "Wall of Women in STEM Recognition". Molly Yunker, a Foundation Director, and chairman of the Grants & Scholarship and the Girl Scouts Committees was one of the honorees.

**THE JOHN GATCHELL EARTH SCIENCE
TEACHING PROGRAM: (\$2,000)**

Recipient: Oklahoma schools, K-12th grades

Grant: Grant funds will be used to purchase museum quality Rocks, Minerals & Fossils to be put in individual Collections for distribution. These Collections are distributed to schools and teachers in throughout Oklahoma to promote geology and Earth Science education. Since 2015, the Foundation has distributed over 190 Rock Mineral and Fossil Collections to schools in Oklahoma.

**THE PHILIP BOYLE FOUNDATION &
THE OKLAHOMA GEOLOGICAL
FOUNDATION ELEMENTARY AND
SECONDARY SCHOOL PROGRAM: (\$655)**

Recipient: Girl Scouts Western Oklahoma and Oklahoma Geological Survey

Grant: Funds used to purchase various rocks, minerals, and fossils to supplement collections and programs for Girl Scouts and the Oklahoma Geological Survey to schools in Oklahoma.

**THE CHARLES E. BRANHAM LIBRARY
PROGRAM: (\$1,000)**

Recipient: Oklahoma schools, K-12th grades

Grant: Grant funds will be used to purchase museum quality Rocks, Minerals & Fossils to be put in individual Collections for distribution. These Collections are distributed to schools and teachers in throughout Oklahoma to promote geology and Earth Science education. Since 2015, the Foundation has distributed over 265 Rock, Mineral and Fossil Collections to schools in Oklahoma.

**TOTAL
\$105,299**

GRANTS & AWARDS FOR 2022

**KENNETH STEWART CRONIN LECTURE
SERIES PROGRAM: (\$2,000)**

Recipient: Rose State College

Grant: Funds from this grant will provide 4 students with stipends for a portion of the time they spend conducting field data collection and laboratory analysis training. Students will conduct field work and laboratory analysis during the fall semester and produce a poster of their work. Students will be required to present their poster during the fall semester at a professional event; this has traditionally been at OSU's TechFest, however this is not the only venue students can choose from.

**OKLAHOMA GEOLOGICAL FOUNDATION
GRANT: (\$1,858)**

Recipient: Cristo Rey OKC Catholic High School

Grant: Cristo Rey OKC Catholic High School is a private 4-year College Prep High School with approximated 240 Students. The funds from the grant will specifically be used in senior level Geology class as lab and instructional materials, which will also include Freshman Physical Sciences classes, Sophomore level Chemistry classes, and Senior level Topics in sciences classes. Students in grades 9 thru 12 will be participating in the lab activities.

**THE OKLAHOMA GEOLOGICAL
FOUNDATION EXCELLENCE IN EARTH
SCIENCE EDUCATION AWARDS
PROGRAM: (\$2,000)**

Recipient: Oklahoma schools, K-12th grades

Grant: Grant funds will be used to purchase museum quality Rocks, Minerals & Fossils to be put in individual Collections for distribution. These Collections are distributed to schools and teachers in throughout Oklahoma to promote geology and Earth Science education. Since 2015, the Foundation has distributed over 265 Rock Mineral and Fossil Collections to schools in Oklahoma.

**OKLAHOMA GEOLOGICAL FOUNDATION
GRANT: (\$2,000)**

Recipient: University of Oklahoma School of Geosciences

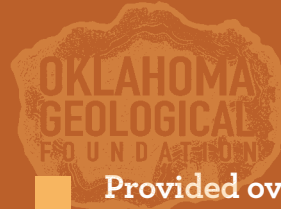
Grant: In the spring of 2023, the University of Oklahoma School of Geosciences held a Geosciences Day. Students were introduced to a number of disciplines in the field of Geosciences and Earth Science Education. Funds from the grant were utilized primarily in two capacities. The largest expense was providing lunch to all of the attendees. The second primary expense were the swag bags for each attendee. These included tickets to the Sam Noble Museum of Natural History, rose rocks, compasses, stickers, and a t-shirt commemorating the event.

SHARING THE
HOLIDAYS
WITH FRIENDS

**JOIN THE
PARTY**

An established tradition since 2004, the Oklahoma Geological Foundation and its Directors have invited donors and friends of the Foundation to the Annual Christmas Holiday Reception. This reception represents an expression of thanks and appreciation for the success and growth of the Foundation.

Always held the first Tuesday of December, it is one of the first Christmas Receptions of December. In the last three years, the Oklahoma City Chapter of SIPES has co-hosted the reception. So plan to join SIPES and the Foundation on the first Tuesday of December, and help us kick off the Christmas holidays.



2022 HIGHLIGHTS

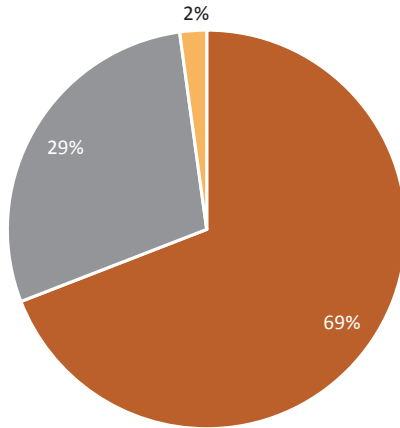
- Provided over \$105,000 in grants and awards to students, teachers, and institutions in Oklahoma!
- Distributed twenty-seven Rock, Mineral & Fossil collections to Oklahoma Schools!
- Provided \$31,000 in Grants to fund 23 students to attend Geology Field Camps!
- Established the GeoKIDS Program with the Oklahoma Geological Survey!
- Honored five outstanding geological scientists as Oklahoma Legends!
- A Sponsorship and an Exhibit Booth at the 6th Annual Boone Pickens School of Geology Techfest!
- Participated at the Girl Scouts Western Oklahoma Geekaplaoza with a “Geode Cracking” demonstration booth along with Rocks, Minerals & Fossils displays!
- Presented the Foundation’s Exhibit Booth at the Oklahoma State University Energy Conference held at the Hamm Institute for American Energy!
- Participated in the weeklong “ROCK The Earth Summer Academy”, hosted by Rose State College!

INVESTMENT SUMMARY

PERIOD ENDING DECEMBER 2022

Asset Allocation

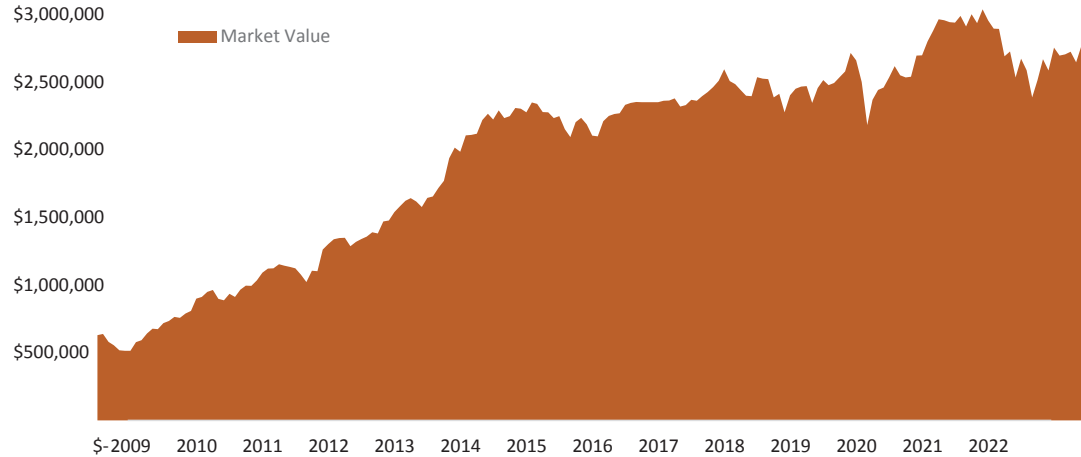
Market Value: \$2.58 million



- % equity
- % fixed income
- % cash

Growth Over Time

Beginning January 2009



Historical Returns

Trailing 12 Months	3 Year (annualized)	5 Year (annualized)	10 Year (annualized)
-12.7%	4.1%	4.5%	6.1%

Oklahoma Geological Foundation's collective Investment Portfolio had a market value of \$2.58 million as of December 31, 2022, with a -12.7% return on investments for calendar year 2022. This follows a 15.1% return for calendar year 2021. The Portfolio had an asset allocation at year end of 69% Equity, 29% Fixed Income and 2% Cash & Equivalents. In 2022, global equity and fixed income markets saw considerable declines as high inflation, rising interest rates, and geopolitical concerns weighed. Despite this period of higher volatility, the foundation's investments continued to be managed with a disciplined approach and a long-term focus. Over the trailing five- and ten-year periods, the Foundation has generated annualized returns, net of investment management fees, of 4.5% and 6.1%, respectively.

*Returns are net of fees. Returns for periods longer than 1 year are annualized. Performance will largely be driven by asset allocation and fund manager performance. BancFirst used data from external sources in the preparation of this report. BancFirst states that to the best of its knowledge, information, and belief the information contained herein is reliable but BancFirst does not warrant the accuracy. Past performance does not guarantee future results.

2022 DONATIONS DIRECTED

as of 12/31/2022

OKLAHOMA GEOLOGICAL FOUNDATION EXCELLENCE IN EARTH SCIENCE EDUCATION

Jason F. & Cristina Hamilton

BETH CRONIN ELEMENTARY SCHOOL PROGRAM

Larry & Leellen Akers

Thomas C. Cronin
In Honor of Beth Cronin

Thomas C. Cronin
In Memory of Dorothea Johnson

Robert R. & Ruth Klabzuba

Pat & Diana Burgess

Kim & Cathy Guyer

DAVID G. & JANET G. CAMPBELL & THE OKLAHOMA GEOLOGICAL FOUNDATION NATIVE AMERICAN SCHOLARSHIP PROGRAM

Terry L. & Betty Hollrah
In Memory of Peter Gill

M. Charles & Mary Carol Gilbert

OKLAHOMA GEOLOGICAL FOUNDATION SUMMER FIELD CAMP GRANT

Bob & Jay Gilson

KENNETH STEWART CRONIN LECTURE SERIES PROGRAM

Thomas C. Cronin
In Memory of Peter Gill

SUZANNE TAKKEN MEMORIAL FUND

M. Charles & Mary Carol Gilbert

THE HERBERT G. & SHIRLEY A. DAVIS OKLAHOMA STATE UNIVERSITY GEOLOGY SCHOLARSHIP PROGRAM

Catherine Schloeder
In Memory of Francis X. Schloeder

*"I think in the final analysis, a
measure of a person's worth in the
relatively short life we have on this
planet basically is what favorable
impact you've had on others."*

David J. Oreck

2022 SPONSORS

WV Oil & Gas

89 Energy

Lawrence H. & Ronna Davis

OSO Resources, LLC

Herb & Marynm Martin

Greystone Environmental

MCWL Paladin Geological Services

Maximus Exploration

Novo Oil & Gas

The Tellers Family

Kenneth S. Johnson

Michael Hale

Revolutions Resources

Larry Lunardi

Wireline Logging Solutions

Bob & Jay Gilson

Ferrell Oil Co., LLC

Glenn Blumstein

STAR Geophysics, Inc

J. Mark & Carol Lester

Frank Gagliardi

Thomas C. Cronin

Diane Krakowski

In Memory of Ron Krakowski

Shirley A. Davis & Family

Lanny & Kathy Holman

2022 DONATIONS NON-DIRECTED

as of 12/31/2022

Mark S. & Julie G. Svoboda

BancFirst Trust &
Investment Management

Dick & Malinda Fischer
In Honor of Thomas E. Berry

Tom D. Berry
In Honor of Thomas E. Berry

Shelly M. Somber
In Honor of Megan Garrett

Ray H. Potts

MAP

J. Mark & Carol Lester

Patrick & Diane Burgess

John W. Shelton

Dan & Nancy Kennedy

Perry M. & Cory Fields

Peter Massion

Ray H. & Pat Potts

Thomas N. Berry & Company
In Honor of Thomas N. Berry

Thomas N. Berry & Company
In Honor of Thomas E. Berry

Crystal Oaks

Michael R. McFeely

Joan Bruns

David L. Murphy Estate

Shelly Shomber

Pat Tolson

Marvin Woody

2022 DONATIONS NON-DIRECTED IN KIND

as of 12/31/2022

Terry L. & Elizabeth Hollrah

The Petroleum Club of Oklahoma City

Lawrence H. & Ronna Davis

Mark S. & Julie G. Svoboda

Herb & Marynm Martin

Lanny & Kathy Holman

TopGolf

THE OKLAHOMA GEOLOGICAL FOUNDATION LEGENDS AWARD DINNER

The Directors of the Oklahoma Geological Foundation proudly recognize outstanding men and women who have distinguished themselves by making historical contributions to the geosciences, their communities, and the petroleum industry.

To honor these incredible individuals, the Foundation created and established the “Pioneer Legend”, “Historical Legend”, and “Living Legend”, awards. Since inception, fifty-one individuals have been honored by the Foundation at the annual “Legends Award” reception.

The 2022 Honorees were: Clyde M. Becker; Clyde MeKee Becker; Thomas N. Berry; Thomas N. Berry and Thomas C. Cronin.



ANNUAL LEGENDS

2007



FREDERICK H.
"FRITZ" TATE



DEAN A. MCGEE



DENNIS F. SMITH

2011



HAROLD G.
HAMM

2008



JOHN W.
NICHOLS



ROBERT A.
"BOB"
NORTHCUTT

2012



FRANK
BUTTRAM



LOUIS M. FORD



LEW O. WARD

2009



HERBERT G.
DAVIS



SUZANNE
TAKKEN

2013



THOMAS E.
DAVIS



RAY H. POTTS



SAMUEL
"LLOYD" NOBLE



SAMUEL RUSSEL
NOBLE

2010



ROBERT ALLEN



CHARLES E.
BRANHAM



DAVID G.
CAMPBELL

2014



HERBERT H.
"BUD"
CHAMPLIN



HERBERT HIRAM
CHAMPLIN



T. BOONE
PICKENS

ANNUAL LEGENDS

2015



BOB HANCOCK



DR. KENNETH S. JOHNSON



DR. JAMES O. PUCKETTE



ROBERT W. "BOB" WARING



JEROME MAX WESTHEIMER, SR.

2019



HARRISON L. TOWNES



RONNIE K. IRANI



CHARLES NEWTON GOULD

2016



J. WALTER DUNCAN, JR.



J.L. HERNDON



ROYCE G. HERNDON



DR. JOHN W. SHELTON



WIRT FRANKLIN



WILLIAM A. "BILL" CLEMENT

2017



AUBREY K. MCCLEENDON



T. HOWARD MCCASLAND



ROBERT A. HEFNER III

2021



DOLLIE RADLER



DR. GARY F. STEWART



DR. NORMAN J. HYNE



DEWEY F. BARTLETT, SR.

2018



RICHARD D. FRITZ



FRANK F. PHILLIPS



THOMAS W. OLSEN



KEITH F. WALKER

2022



CLYDE M. BECKER



CLYDE MCKEE BECKER



THOMAS E. BERRY



THOMAS N. BERRY



THOMAS C. CRONIN



ROCKS & SWING FORE STEM AUCTION 2022

Since 2019, when the inaugural Auction kicked off, the event has grown both in attendance and revenues for the Oklahoma Geological Foundation's STEM Programs. The primary goal of this event is to raise awareness of the Foundation, as well as raise funds to support STEM & Earth Science education in Oklahoma schools. This family friendly event is quickly becoming a favorite for those who attend every year.

The fundraiser consists of an online and silent auction of minerals, fossils, and artwork. At the event, a live oral auction presents an array of outstanding minerals, artwork, and premium wines from Napa Valley, California. For the first time in 2022, a six-night vacation in the U.S. Virgin Islands was included.

The event was held at the Topgolf driving range with a dinner buffet included, that is fun for all ages while raising money for STEM education. It was an exciting evening for all that attended.

The Foundation is thrilled to report that almost \$30,000 was raised for STEM education in 2022!



FOUNDATION SUMMER FIELD CAMP GRANT - FILLING THE GAP

The Directors of the Foundation recognized early on the need to assist students as they satisfy their Field Camp requirement to get a degree in Geology. Not only do students have tuition to pay for the field camp and all ancillary costs like boots, rock hammers, field clothes, etc., the students also miss out on income from summer jobs because of their mandatory studies at field camp.

The Summer Field Camp Program was established in 2011, and in 2012, nine Field Camp Grants were awarded to students from Oklahoma State University, University of Oklahoma, and Tulsa University. Furthermore, in 2013, the Foundation established the F.M. Black Field Camp Program. Since inauguration, the Foundation has provided funding for over 275 college level students to attend summer geology field camps.

In 2022, the Foundation provided \$31,000 in funding for twenty-three students to attend their respective field camp. When these two programs were created, the intent was to facilitate every student from the three universities who wanted to attend summer field camp and needed financial help to attend.

Your donations have provided over \$240,500 to supplement the costs for Oklahoma students to attend geology field camps.

**COMPANIES
CORPORATIONS
FOUNDATIONS
& NON-PROFITS**
from inception

FELLOW LEVEL

\$250,000 OR GREATER

CHESAPEAKE OPERATING, INC

ADVOCATE LEVEL

\$100,000 - \$249,999

JEROME WESTHEIMER FAMILY
FOUNDATION, INC.

BENEFACTOR LEVEL

\$50,000 - \$99,999

DEVON ENERGY CORPORATION
LANCE RUFFEL OIL &
GAS CORPORATION
EQUITABLE ROYALTY CORPORATION

PARTNER LEVEL

\$10,000 - \$49,999

ANONYMOUS
OU/CONOCOPHILLIPS
BANCFIRST TRUST &
INVESTMENT MANAGEMENT
OKLAHOMA CITY
GEOLOGICAL SOCIETY

PHILLIP BOYLE FOUNDATION
LOUIS M. FORD, LLC
THE RESERVE PETROLEUM COMPANY
CHARTER OAK PRODUCTION CO, LLC
CONTINENTAL RESOURCES
FERRELL OIL CO., LLC
MID-CONTINENT SECTION OF AAPG
THE MAGNOLIA CHARITABLE
FOUNDATION
MCWL PALADIN
GEOLOGICAL SERVICES

CONTRIBUTOR LEVEL

\$5,000 - \$9,999

WV OIL & GAS
CARL E. GUNGOLL
EXPLORATION, LLC
YALE OIL ASSOCIATION, INC.
WARREN & CHRISTIAN INC.
GHK COMPANIES
WARD PETROLEUM COMPANY
CRAWLEY PETROLEUM
CORPORATION
ALLIED WIRELINE SERVICES, LLC
RED MOUNTAIN ENERGY, LLC
AMERICAN ENERGY PARTNERS
H.HUFFMAN & CO.
ANCOVA ENERGY
THOMAS N. BERRY &
COMPANY LLC
DUNCAN OIL PROPERTIES, INC
SPARTAN RESOURCES, L.L.C.
PSEC, INC.

SAM VIERSEN
FAMILY FOUNDATION
ECHO ENERGY GROUP

SUPPORTER LEVEL

\$2,500 - \$4,999

B & W EXPLORATION, INC.
BUTTRAM ENERGIES, INC.
ARVINE PIPE AND
SUPPLY CO., INC.
EIGHTYNINE ENERGY
THE TELLERS FAMILY
ASCENT RESOURCES
ANTIOCH ENERGY
BLACK FAMILY LLC
SLAWSON EXPLORATION
COMPANY, INC.
BLACK SWAN OIL & GAS
TAPSTONE ENERGY
MURFIN DRILLING CO.
KEITH F. WALKER TRUST
NOVO OIL & GAS
REVOLUTION RESOURCES
OSO RESOURCES
THE QUINTIN LITTLE COMPANY
ANCHORAGE RESOURCES LLC
CHAMPLIN EXPLORATION
KERR-MCGEE CORPORATION
BAKER HUGHES
AMERICAL ASSOC. OF
PROFESSIONAL LANDMEN, INC.

FRIEND LEVEL

\$500 - \$2,499

CIRRUS PRODUCTION CO.
TGS
RKI ENERGY RESOURCES
GE GLOBAL RESEARCH
LOWRY LAND CO., INC.
WHITE STAR PETROLEUM LLC
OAKSPRING ENERGY
PATTERSON UTI
WEATHERFORD WIRELINE
STAR GEOPHYSICS, LLC
GREYSTONE ENVIRONMENTAL
SOUTHSTAR EXPLORATION
TERRAQUEST CORPORATION
OSU BOONE PICKENS SCHOOL
OF GEOLOGY
KEYDET OIL LLC
HORSE CREEK OIL COMPANY
INTERNATIONAL PIPE & SUPPLY LLC
MORAN - K OIL, LLC
SANDRIDGE ENERGY
HALLIBURTON
ROLLING ROCK, LLC
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EXXONMOBIL FOUNDATION
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SCHONWALD LAND INC.
CALIBER RESOURCE PARTNERS, LLC
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KEENER OIL & GAS
GSS ENERGY SERVICES
THE JOULLIAN FOUNDATION, INC
CONTINENTAL LAND RESOURCES
DOMINION FOUNDATION
MATCHING GIFT PROGRAM
BRACKEN ENERGY CO.
BRACKEN OPERATING LLC
ORBIT ENERGY INC.
EDRIO OIL COMPANY
COSSET MUDLOGGING

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Up to \$500

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CIMARRON PRODUCTION CO., INC.
CHEVRON MATCHING
EMPLOYEE FUND
ANONYMOUS
KIRKPATRICK OIL COMPANY
OKLAHOMA CHAPTER OF SIPES
CUMMINGS OIL COMPANY
ASSOCIATION OF DESK & DERRICK
WIRT FRANKLIN PETROLEUM, LLC
MUSTANG FUEL CORPORATION
WJF
COLUMBINE LOGGING
NATIONAL BANK COMMERCE
CHELSEA ENERGY, INC.

GREENSTAR ENERGY
PRODUCTION
STEVENS PRODUCTION CO.
FRANKLIN ENERGY
& INVESTMENT
BEACH OPERATING COMPANY
CLEMENTS EXPLORATION
EN ECHELON LLC
PETROLEUM REFLECTIONS, INC.

**OKLAHOMA
GEOLOGICAL
FOUNDATION**
ANNUAL
2022
REPORT

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from inception

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\$250,000 OR GREATER

ADVOCATE LEVEL

\$100,000 - \$249,999

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THOMAS C. CRONIN

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LAWRENCE H. & RONNA C. DAVIS

BENEFACTOR LEVEL

\$50,000 - \$99,999

RAY H. POTTS

FREDERICK H. & LOIS M. KATE

BOB & JAY GILSON

PARTNER LEVEL

\$10,000 - \$49,999

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JAY A. THOMAS
SUSAN BERBERETS
MALCOLM &
PATTY CUMMENS
BLAKE C. ARNOLD
JIM NEWKUMET
STEVE W. & PATRICIA
I. WALLIS
HARRY W. TODD
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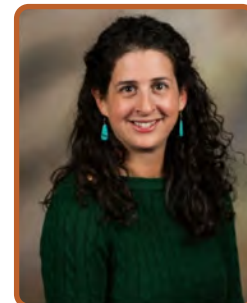
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Crab Eyes rock formation, Wichita Mountains of Oklahoma.

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