2014 ANNUAL REPORT
OUR CHAIRMAN’S MESSAGE

On behalf of the Directors of the Oklahoma Geological Foundation, it is my pleasure to share with you our 2014 Annual Report.

Each year, our Annual Report provides you with a formal update on our activities during the prior year, as well as the opportunity to honor and recognize those Donors whose gifts are so vital to the success of the Foundation. The Annual Report before you is a testament to the financial generosity of so many wonderful Donors who are committed to the goal of providing the highest level of Earth Science education throughout the state of Oklahoma – at all grade levels.

With growth there is always change. The Oklahoma Geological Foundation has expanded and clarified its Vision Statement into a listing of Operating Directives. These new Directives provide the current Board of Directors with a road map for the future. With a clear vision of the tasks before us, the Directors are excited to be establishing new programs; increasing financial support to elementary, middle and high school students in Oklahoma; and providing every Earth Science teacher in Oklahoma with the assets and tools necessary to develop and educate the next generation of geoscientists.

During this past year, the Foundation has also taken the necessary steps to assure the continuity, stability, and consistent leadership of the Board of Directors by electing three, new Board members. The Foundation will continue to be challenged to meet the needs of our students and teachers but these challenges will be met head-on as a result of having a strong and dedicated Board of Directors.

As you read through our 2014 Annual Report, you will see that your gifts to the Foundation have truly made a significant impact on Earth Science education in the state of Oklahoma.

On behalf of the Board of Directors, it is an honor for me to extend our sincerest gratitude to you for your support of the Foundation. The Directors truly appreciate each and every Donor who has made one or multiple gifts. The part you play in the success of the Foundation is extremely important and your commitment to support the many students and teachers across the state of Oklahoma cannot be overstated. Working together, we are building for the future.

Warm personal regards,

Thomas C. Cronin
Michelangelo once wrote, “The greatest danger for most of us is not that our aim is too high and we miss our target, but that our aim is too low and we reach it.”

Since its inception, but particularly in the last seven years, the Foundation has implemented a model termed “Excellence in Earth Science Education.” This model continually challenges students and teachers to make excellence in Earth Science education a priority. This model is succeeding with help and support from the Foundation. Following this premise, the Foundation has expanded and clarified its Vision Statement to better execute this model and the Statement has been divided into two, new Directives: Primary and Secondary.

Our Primary Operating Directives are:

1) To encourage and financially support those students who are enrolled in elementary, middle, and high schools within Oklahoma and are enrolled in curricula in the science of Geology and related fields.

2) To encourage and financially support those teachers and their schools within Oklahoma that maintain curricula in the science of Geology and related fields.

3) To encourage and financially support those students who: a) Attend colleges and universities within Oklahoma and major in the science of Geology and related fields, and ultimately obtain undergraduate and graduate degrees in those fields; and, b) Plan to pursue careers affiliated in the science of Geology and related fields.

Our Secondary Operating Directives are:

1) To encourage and financially support those worthy scientific endeavors that are conducted by other organizations, which promote the science of Geology and related fields within the state of Oklahoma.

2) To acknowledge and honor those professionals working in businesses affiliated with the science of Geology and related fields, who have made, or continue to make, significant contributions to their profession and/or their communities.

The Foundation currently has eighteen Directed Programs that implement and support these Directives and a complete summary of these Programs is presented throughout the Annual Report.

Funds from the Foundation’s Programs are being used to educate, train, and prepare these students for the future. Thank you for sharing our passion and vision as the Foundation continues to invest in the future of these students and to support their teachers and institutions. The future well-being of Earth Science education, the science of Geology, and the oil and gas industry will ultimately depend upon the next generation of geoscientists. These future professionals are today’s students.
Originally incorporated in 1993, the Oklahoma Geological Foundation faced many challenges in the early years of its existence as the oil and gas industry struggled with low prices and economic uncertainty. The names listed above represent those who dealt with the uncertainty and obstacles by unselfishly contributing their time and capital to the Foundation. The Foundation exists today in no small part because of their persistent efforts to make the Foundation a strong and vibrant organization.
2014 ANNUAL REPORT
THE FOUNDATION’S LEGENDS AWARD

The Directors of the Foundation have long recognized that many individuals have distinguished themselves by having made outstanding contributions to the science of Geology, created significant advancements in the oil and gas industry, and have improved their communities for the better.

In the fall of 2007, the Foundation began to honor these men and women by bestowing upon them its Legends Award. Since then, the Foundation has honored eighteen individuals at its Legends Award dinner, which is held annually in the fall.

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As of December 31, 2013, the financial assets of the Oklahoma Geological Foundation totalled $2,037,909. This is an increase of $525,904 over the previous year’s balance of $1,512,005.

The invested, fair market value of the Endowment Funds of the Foundation was $2,014,953. This is an increase of $539,396 over the previous year’s balance of $1,475,557. This increase was attributable to net contributions of $241,500 and investment gains of $297,896 (net of third party management fees). The Endowment Funds had an asset allocation at yearend of 67.7% equities, 28.9% fixed income securities, and 3.4% cash and equivalents. Under normal circumstances and Foundation investment policy guidelines, the overall equity allocation will typically range from 60-80% while the fixed income allocation will typically make up the remaining 20-40% allocation.

The Foundation’s equity investments are well diversified with exposure to various styles and classifications, which include large cap, small cap and international equities. At yearend, the composition of the equity portfolio was as follows:

- Large Cap Core: 26.0%
- Small Cap Value: 21.6%
- Individual Equity: 16.3%
- Large Cap Growth: 12.5%
- Large Cap Value: 12.6%
- Developed International: 6.7%
- Emerging Markets: 4.2%

The fixed income allocation of the Foundation’s portfolio is invested in instruments classified as intermediate-term, investment grade, with smaller allocations to shorter-term maturities and other styles seeking to mitigate interest rate risk. The fixed income portfolio style breakdown at yearend was as follows:

- Intermediate Term Bond: 80.0%
- Short-Term Bond: 10.0%
- Unconstrained Bond: 10.0%

For the year ended December 31, 2013, the portfolio earned 19.49%, net of third party management fees. This return compares to a blended benchmark return of 21.53%. The blended benchmark is comprised of the S & P 500 Stock Index, Barclays Intermediate Government/Credit Index and the Lipper Money Market Index; all weighted in accordance to the broad weights of the endowment portfolio.

The Foundation is committed to supporting Earth Science education programs at all grade levels throughout Oklahoma. Your contributions allow us to make real and significant progress in the lives of students of all ages.

In 2013, Aaron Zubaty, Senior Vice President of Wind Energy Investment at MAP, from Palo Alto, California, spoke at the Foundation’s 2013 Annual Awards Banquet. Mr. Zubaty presented a discussion on wind energy resource in Oklahoma and the use of wind power together with natural gas to generate electricity.

At the Annual Legends Dinner in November, 2013, Dr. Theodore (Ted) Pirog, an energy advisor at ExxonMobil Corporation discussed the long-term global energy outlook, as well as presenting ExxonMobil’s view of the future of energy.

Austin Holland a seismologist with the Oklahoma Geological Survey, in Norman, Oklahoma, presented his research on earthquakes in central Oklahoma during the Foundation’s spring 2014 Awards Banquet.

The Cronin Lecture Series also participated in the funding of a day-long workshop for Earth Science Teachers. This workshop was presented by Janie Schuelke, a Geoscience Education Consultant from Houston, Texas.

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THE FOUNDATION’S
KENNETH STEWART CRONIN
LECTURE SERIES PROGRAM

The Kenneth Stewart Cronin Lecture Program was established in 2006 by Thomas C. Cronin in honor and memory of his father, Kenneth Stewart Cronin. The Program provides the financial support for the Oklahoma Geological Foundation’s Lecture Series.

Through the Lecture Series, distinguished lecturers with national and international acclaim, discuss and disseminate timely geologic information on current exploration plays and topics of high common interest within the geosciences at Foundation functions that include the Award Banquet and Legends Dinner. Additionally, the Lecture Series will also support Foundation sponsored workshops, seminars, and other programs.


Map’s Aaron Zubaty (left) shown with the Foundation’s Larry Davis. Larry presented Aaron with the Foundation’s “Thank You” gift for making his presentation on wind energy resources in Oklahoma during the Kenneth Stewart Cronin Lecture Series event in the spring of 2013.

Heritage Oil Company’s Chief Geologist, Paul Logan, discusses his Company’s major oil discovery in the Democratic Republic of the Congo, during the fall 2008 Cronin Lecture Series.


Since July of 2008, the Foundation’s investments have earned $664,351 in the equity and bond markets. This return equates to net, annualized gain of 9.12% (after third party management fees). Listed below are the investment performance figures for the Foundation’s Endowment Funds over various time frames.

Performance (net of fees):

<table>
<thead>
<tr>
<th>Performance (net of fees)</th>
<th>12 Months</th>
<th>3-Year Annualized</th>
<th>5-Year Annualized</th>
<th>July 1, 2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Foundation’s Investments:</td>
<td>19.49%</td>
<td>11.25%</td>
<td>5.46%</td>
<td>9.12%</td>
</tr>
</tbody>
</table>

During 2103, equity markets expanded to record highs as the economic recovery gained momentum. Across the capitalization spectrum, U.S. equity indices generated strong returns in excess of 30% during the year, led by smaller cap stocks. Overall, the equity segment of the Foundation’s Endowment Funds returned 29.67% (gross) during the year.

Last year was very challenging for the bond markets. As a result, bonds faced selling pressure throughout the year with the 10-year U.S. Treasury yield crossing the 3% level at year-end, up from 1.76% at the beginning of the year. The return of the Foundation’s fixed income segment was modest during the year and led to out-performance relative the Barclays Intermediate Government/Credit Index as the class returned 0.54% (gross) versus -0.86% for the benchmark. The general focus in the fixed income segment has been to maintain allocations to both short- and intermediate-term bond strategies.

Total receivables for 2013 were $445,716, compared to $315,662 for 2012. Of this amount, donations totaled $348,760 for 2013, while investment income was $64,745. In 2012, donations totaled $178,078, and investment income was $36,095. Over the past three years, the donations to the Foundation have averaged $192,455 per year.

During 2013, the Foundation incurred expenses totaling $48,696, net of Grants, Scholarships, and Awards. Of this amount, $311,111 (64%) was attributed to the Foundation’s Legends Dinner, Awards Banquet, and the Director’s Reception. Our advertising and promotional expenses for the year totaled $5,120 (11%), while the printing costs for the 2013 Annual Report were $3,012 (6%). Our legal and accounting fees were $6,763 (13%), while general, administrative, and other expenses totaled $2,690 (6%). The Foundation’s expenses have averaged $40,731 per year over the past three years.

The Foundation’s Investment Policy is designed to ensure that ample annual income will be available for its charitable purposes in perpetuity, regardless of existing economic or market conditions.

For 2013, the Foundation’s total distribution of funds for Grants, Scholarships and Awards was $92,783, compared to $69,361 in 2012. In the past, the Foundation has provided financial support to educational programs geared to students of all ages. But in 2013, we began to concentrate our focus on Programs that directly impact younger students. We feel this approach will achieve broader and more sustaining results.
I want to thank you so much for the generous donation to the St. Elizabeth Ann Seton Science Lab from the Cronin Elementary Endowment through the Oklahoma Geological Foundation. Your commitment and that of the Foundation, to education touches the lives of many students and teachers. Your support has allowed St. Elizabeth Ann Seton to offer its students opportunities often found only in high school and college labs. Also, thank you for a wonderful and enlightening evening at the Legend’s Dinner.

Shireen Spurr
Special Services
St. Elizabeth Ann Seton Catholic School

Two years ago, I received a career altering grant from the OGF. With the grant from the OGF, I was able to purchase 30 iPads and an iPad sync cart. The addition of this technology to my class has been amazing. The iPads have added another dimension to my teaching and the kids learning. I really can’t imagine what my Earth Science class would be like without the help of the OGF.

Bryan Mathews
Putnam City North High School
Earth Science Teacher

Thanks to our iPad grant from the Oklahoma Geologic Foundation, Earth Science students are reaping the benefits of cutting edge, hands on technology. Instant data on geologic events, such as our recent earthquakes, is now available to our teachers the next morning for classroom use. After our addition of the iPad lab in the fall of 2012, interest increased enough to add one hundred additional students to our program for the current school year. Our greatest thanks to the foundation!

Melinda Flournoy
Putnam City North High School
Instructional Technology Coach

The Foundation is increasing its effectiveness in all of its Programs by leveraging the use of the latest technologies, including tablets, iPads, and broadband Internet connections.

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The OGF grant was used to purchase lab equipment including beakers, graduated cylinders, scales, digital stereoscopic microscopes, soil study kits, etc. The day these items arrived in district felt like Christmas in October.

Funding has impacted three different school sites, a total of almost 1,500 students in year one, and will continue to impact student learning and interest in science for years to come.

Gail Loving  
Mustang Public Schools  
Science Curriculum Coordinator

The Oklahoma Geological Summer Field Camp Scholarship you have awarded me has made it possible for me to continue with my goal to become a Geologist. Without this generous gift I was not sure if my family and I were going to be able to acquire the funds necessary to complete the final course of my degree.

Katherine Foote  
University of Oklahoma  
Student

To have the opportunity of graduating from college and to enter graduate school, with zero debt is truly a blessing. However, without the support of donors such as the OGF this would not be possible for me. It is generosity like yours that allows aspiring students the opportunity to earn a degree. Without your support, I would never have discovered the career possibilities and the beauty that geosciences have to offer.

Caleb P. Bontempi  
Student, Senior at the University of Oklahoma

THE FOUNDATION HAS FORMED NEW PARTNERSHIPS TO PROVIDE MORE BENEFITS TO STUDENTS, TEACHERS, & SCHOOLS

In 2013, the Foundation again reached out to other organizations to share funding responsibilities for some of its larger Programs. By joining with other organizations, the Foundation further leveraged its available capital to supply even more support to Oklahoma students, teachers and schools. As a result of these partnerships, the Foundation was able to provide more than $12,000 in additional funding through the Foundation’s Programs.

Chesapeake Energy, OERB, the Oklahoma Geological Survey, and the Oklahoma Aggregates Association, assisted the Foundation in funding two important programs.

OERB, Chesapeake Energy, the Oklahoma Geological Survey and the Foundation, all supported a full-day Earth Science workshop. The workshop was attended by 38 Earth Science teachers from all over the state of Oklahoma. This exceptional workshop entitled, “More! Rocks in Your Head,” is a nationally acclaimed, hands-on workshop and provides 3rd - 8th grade teachers with the background, vocabulary, hands-on projects, and the motivation to teach an effective Earth Science curricula.

The Oklahoma Aggregates Association, the Oklahoma Geological Survey and the Foundation, also provided funds for OPUBCO’s statewide program, “Newspapers in Education.” Lesson plans and materials for Earth Science education are generated by the Oklahoma Geological Survey and then distributed by OPUBCO to more than 700 schools and 15,000 students through the state of Oklahoma.

The Foundation plans to build on the success of these programs and to expand their benefits in the years ahead.
As you read through the Annual Report it will become apparent that the Foundation continues to grow and expand its Programs. One measure of this success is the increase in the number of students and teachers that receive direct benefits from the Foundation’s Programs. When funds from a single Foundation Grant or sponsored Program benefit hundreds of students and teachers, the impact on Earth Science Education is far reaching and incredibly cost effective.

Listed below are a few of the Foundation’s Grants and sponsored Programs that have impacted countless numbers of students and teachers.

**Mustang Public Schools**

In 2013, Mustang Public School district opened up two, new intermediate schools and shifted the district’s Gifted and Talented program from one location to six additional school sites. Foundation proceeds were used to purchase new lab equipment in three different schools, impacting 16 different science labs, in grades 5 and 6, and their Gifted and Talented Program. A total of 1,500 students will be able to experience and engage in Earth Science education with hands-on learning, as a result of the Grant awarded to Mustang Public Schools.

**Putnam City North High School**

In 2012, the Foundation and Lance Ruffel, awarded a Grant to Putnam City North High School to purchase an iPad Lab dedicated exclusively for Earth Science Education. The number of Earth Science students almost doubled in the 2013-2014 school year from the prior year. Student enrollment in Earth Science curricula expanded to 215 students, up from 120 the previous year. Putnam City North has incorporated four new sections to Earth Science program this year and has added another Earth Science teacher.

**Newspapers in Education Program**

For the last several years the Foundation and OPUBCO, through OPUBCO’s “Newspapers in Education Program,” have developed a series of lesson plans to be used in Earth Science education for teachers and schools throughout Oklahoma. The Foundation has funded the program, with the proceeds being used to generate lesson plans covering various topics in Geology and other Earth Science studies. These lesson plans are then made available and distributed to more than 700 schools and 15,000 students across the state of Oklahoma.

**St. Elizabeth Ann Seton Catholic School**

St. Elizabeth Ann Seton established a state of the art science lab in the fall of 2006. St. Elizabeth Ann Seton presents Earth Science and other programs in Pre-K through 8th grade. The Foundation has provided grants to the school since 2007 to equip the lab and facilitate a quality Earth Science program. The lab is used by an average of 450 students annually. In their Middle School, the entire 7th grade year is solely dedicated to the study of Earth Science.

The Foundation is very proud to introduce two new Directed Programs. Both Programs were established in the fall of 2013, and will fund Programs and grants for students and teachers in Earth Science education throughout Oklahoma.

**The Frederick Michael "Rickey" Black Summer Field Camp Grant**

The Frederick Michael “Rickey” Black Summer Field Camp Grant was established by B & W Operating LLC, Kirk Whitman, Lawrence H. Davis, Rick Black’s family, close personal friends and business colleagues of Rickey, and the Foundation.

Rick Black was a respected Geologist in Oklahoma City. During his career, he held positions with Gulf Oil and Don Slawson Oil before starting his own company, B & W Exploration. He was admired by his peers for his passionate love of geology and the integrity of his work. He made an impact in his profession, his community and his church, and had a long history of philanthropy in all segments of his life. The Grant will be used to fund summer field camps for Oklahoma students.

**The Shirley A. Davis Program for Earth Science Education**

The Program was established by Herbert G. and Shirley A. Davis to advance educational and scientific activities in the Earth Sciences in elementary and middle schools. This Program will also supplement other Foundation Programs when needed.

Herb and Shirley Davis have both been prominent figures in AAPG, the Oklahoma City Geological Society, and with the affairs of the Foundation. Furthermore, Herb and Shirley have been strong proponents of education, having funded the Foundation’s long-standing Herbert G. & Shirley A. Davis Oklahoma State University Geology Scholarship. They have also funded similar programs through AAPG. Shirley has been associated with the GeoWives organization of the Oklahoma City Geological Society. Herb was honored as one of the Foundation’s Legends in 2009. Herb is also honorary member of the Society.

Herb and Shirley Davis (left) shown at the Foundation’s 2014 Spring Awards Banquet where they were presented with Foundation’s Little Debbie Award recognizing them as prominent and long-standing Donors.
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THE FOUNDATION’S PROGRAMS, CONT.

The Charles E. Branhm Geological Library Program

The Charles E. Branhm Geological Library Program was established in 2010 by Sharlene Branhm, the Branhm family, H. Huffman & Company and the Oklahoma Geological Foundation. Charles Branhm was a respected and well known exploration geologist in Oklahoma City.

The proceeds from the Library Program are earmarked to promote Earth Science education throughout the state of Oklahoma through participation in “Newspapers in Education” (NIE). This is a program sponsored by OPUBCO Communications Group with support from the Oklahoma Geological Survey. NIE lesson plans are generated for Earth Science teachers in Oklahoma and deal on topics in Geology and other Earth Sciences. The publication of these lesson plans reach more than 700 schools and over 15,000 students in Oklahoma.

In 2010, the lesson plans were entitled, “Landslides and Geologic History in the State of Oklahoma.” The lesson plans illustrated the great variety of landscapes found in Oklahoma and examined the geologic history of these various landscapes.

“Groundwater Resources in the State of Oklahoma” was presented in the lesson plans in 2012, which provided an overview of groundwater in Oklahoma and how ground water and geology are related and fit together.

The subject matter for 2013 dealt with Oklahoma’s State Parks. This edition used seven of Oklahoma’s most popular parks as natural geological laboratories to help students better understand the state’s geological history and the geological processes that have occurred over the last 550 million years. As students and teachers are exposed to the natural beauty and culture of the Parks, they will also be taught the role geology played in creating the beauty, history and development of the Parks.

Mr. Branhm was an honorary Charter member of AAPG and for fifty years, was a member emeritus of the American Institute of Professional Geologists. Known as “Charlie” to most everyone in the geo-community, he was best known for establishing the Library for the Oklahoma City Geological Society during his Presidency in 1965. In November of 2010, he was honored posthumously by the Foundation as one of its Legends.

Edmond North High School

In 2013, the Foundation provided financial support to Edmond North High School for the purchase of an iPad Lab for Earth Science education. The iPad Lab will be used by over 200 students, which means that approximately 20% of the junior and senior population at Edmond North will study Earth Science using the iPads provided by the Foundation.

Teacher Workshops

In 2012 and 2013, the Foundation sponsored a full-day workshop for educators that covered a full scope of topics in the Earth Sciences. The workshop prepares teachers to be more effective in instructing Earth Science and making Earth Science a fun and memorable experience for all students. Nearly, 100 Earth Science Teachers have participated in the workshop over the past two years.

The Foundation has been able to leverage its financial support to impact very large numbers of students and teachers, as documented by the figures above. The Foundation’s Grants and Programs are a direct result of the generosity of the many individual donors and companies who continue to contribute year after year to the Foundation.
The Suzanne Takken Memorial Award: $6,000
Recipient: Ms. Jessica Treanton, Greenwich, CT
Advisor: Dr. Roger M. Slatt
Thesis: “Chemostратigraphy and Sequence Stratigraphy of the Woodford Shale in Southern Oklahoma”

The Frederick H. & Lois M. Kate Award: $6,000
Recipient: Mr. Andrew Snider, Edmond, Oklahoma
Advisor: Dr. Jeffery Byrnes
Thesis: “Using FTIR (Fourier Transform Infrared) to Evaluate Shale Content”

The Oklahoma Geological Foundation Non-Directed Funds: $6,000
Recipient: Aaron Ball, University of Tulsa, Sand Springs, Oklahoma
Advisor: Dr. Bryan Tapp,
Thesis: “Balance Structural Cross-Sections of the Boktukola Syncline in Central Ouachita Mountains of Southeastern Oklahoma”

Beth Cronin Elementary School Program: $5,150
Recipient: St. Elizabeth Ann Seton Catholic School (SEAS), Edmond, Oklahoma
Advisor: Ms. Shireen Spurr, SEAS Special Services/Science Lab Coordinator
Grant: Science teaching equipment and materials for their science lab

The Oklahoma Geological Foundation Excellence in Earth Science Education Awards Program: $4,000
Recipient: Tulsa Geoscience Center, Tulsa, Oklahoma
Director: Norman Hyne
Grant: The Tulsa Geoscience Center, located in Tulsa, Oklahoma is a very unique facility. Its mission is to educate students and the general public on energy. A big part of that education process is to expose K-12 school students to Earth Science and Geology.

Herbert G. & Shirley A. Davis Oklahoma State University Geology Scholarship: $3,000
Recipient: Ms. Miranda Childress, Morrison, Oklahoma
Advisor: Dr. Michael Grammer
Thesis: Miranda’s Master’s thesis will be research associated with OSU’s Mississippian Consortium.

The Oklahoma Geological Foundation Elementary School Grant | The Oklahoma Geological Foundation Non-Directed Funds: $2,000
Recipient: Tulsa Geoscience Center, Tulsa, Oklahoma
Director: Norman Hyne
Grant: The Tulsa Geoscience Center, located in Tulsa, Oklahoma offers free earth science field trips to students and teachers from all over the state of Oklahoma. The grant will be used to supplement transportation costs for the teachers and students.

The John Gatchell Earth Science Teaching Program

The John Gatchell Earth Science Teaching Program was established in 2008 by Lance Ruffel, Jim Trepainger and others, to honor John Gatchell. The Program provides funding to encourage and reward science teachers and their students in pre-college Earth Science studies, with specific emphasis on studies conducted in middle and high schools.

In 2011 the Program supported a grant request from Travis Hurst, an Earth Science Teacher at Edmond North High School in Edmond, Oklahoma. Grant proceeds were used for the purchase of supplies and lab equipment to expand and update the Earth Science program at the Edmond North High School.

Funds were provided to support a request from Cheyenne Middle School teacher, Sharron Wolf, to construct an outdoor pond and streambed in 2012. The concept is to create an “outdoor classroom,” whereby students can study all the aspects of water dynamics in a miniature streambed, as well as how the water affects the surrounding environments.

This one of a kind classroom will be used in Earth Science studies for sixth, seventh, and eighth grades, and will provide an endless array of labs, experiments, and observations in a real time situation. The funds were used to buy all the materials – sand, rocks, pumps, gravel, a liner for the pond, indigenous plants and some aquatic species. The students and their parents built the pond and streambed. Cheyenne Middle School and the Gatchell Teaching Program are providing a unique and extraordinary venue for students to study Geology and Earth Science now and for years to come. Cheyenne Middle School is located in Edmond, Oklahoma.

In 2013, proceeds were used to sponsor a full-day Earth Science workshop for elementary, middle and high school Earth Science teachers from all over the state of Oklahoma. The workshop was taught by Janie Schuelke, from Houston, Texas. This is a nationally acclaimed, hands-on workshop, covering a full scope of Earth Science topics. This is the third year the Foundation has sponsored the workshop for teachers.

John Gatchell was a Charter Member of the Oklahoma Geological Foundation. John died in 2008.
The vintage saying “success breeds success” has never been more evident as Lance Ruffel and the Oklahoma Geological Foundation created the Lance Ruffel & Oklahoma Geological Foundation Innovations in Earth Science Education Program in the fall of 2012. This Program commenced with the successful funding of an iPad Lab at Putnam City North High School. The Program is designed to put technology in the hands of Earth Science students and allow each student to study the science of Geology and Earth Science in a fun and innovative format.

In 2013, the Program provided financial support to Edmond North High School to establish an iPad Lab for their science classes. The Lab will serve up to seven Earth Science classes and will be used by over 260 students as they study the Earth Sciences. In conjunction with the Program, Edmond North High School received a grant from Oklahoma University to purchase Vernier lab equipment which can be linked with the iPad Lab for data analysis as well as numerous lab experiments - all associated with Earth Science.

The proceeds of the Program will be used to provide the necessary funding to introduce students to the Earth Sciences and the science of Geology by focusing on innovative Earth Science curricula and technology. These funded programs will employ innovative technologies, like the iPad Lab, that excite, captivate, and motivate students to excel. Furthermore, the Program will develop partnerships with schools and universities to create Earth Science programs that will attract the brightest and most talented students. The Putnam City High School and Edmond North High School iPad Labs are examples of such programs that have been praised by educators and become widely popular with students. These programs will encourage students to pursue additional studies in the Earth Sciences and the science of Geology.

In addition to providing financial support, the Program is intended to provide the ongoing guidance in building strategic financial partnerships with the oil and gas industry to bring additional resources to Oklahoma’s educational institutions. As new and innovative programs and technologies are developed, the Program will help to disseminate and make these available to teachers and students throughout Oklahoma.
2014 ANNUAL REPORT

THE FOUNDATION’S PROGRAMS

The Frederick H. & Lois M. Kate Award

The Frederick H. & Lois M. Kate Award was established in 1996 by Fritz and Lois Kate to fund pre-college awards programs. This was the first Program to be established by the Oklahoma Geological Foundation. The Kate Award has since been expanded to include college level awards, resulting in recognition of special students and their projects.

Fritz and Lois Kate were Charter members of the Foundation and in the early years of the Foundation, were the sole supports of the scholarship programs of the Foundation. With their unconditional support, the Oklahoma Geological Foundation is now firmly established. In 2007, Mr. Kate was honored by the Foundation as one of its Legends at its inaugural Legends Dinner. Mr. Kate died in 2003 and Lois Kate died in 2011.

The Foundation’s 2014 Kate Award recipient was Ms. Jean Dudek from Houston, Texas, who attended the University of Tulsa under the direction of Dr. Bryan Tapp. Jean’s Masters Thesis is entitled, “Understanding the Stratigraphy, Geometry, and Kinematics of the Keokuk Fault Zone in East Central Oklahoma.” She is working towards a career in petroleum geology, and wants to remain an active member of AAPG.

The Frederick H. & Lois M. Kate Excellent in Earth Science Education Award

In 1956, the Oklahoma City Geological Society initiated an Awards program in the Oklahoma schools, entitled the Certificate of Merit. The program was established to support pre-college students who show a strong interest in attending college and pursuing studies in the geosciences. The name of the awards was later changed to the Eason Awards and ultimately the Society named the program the Science Fair Awards. The Kate EESE Awards are given in conjunction with the Foundation’s Excellence in Earth Science Education Awards, which was also established in 2006.

The Society long supported this program and for many years Frederick and Lois Kate helped fund these Awards with the Society. In 2006, to honor the Kate’s for their commitment to education, the Foundation established the Frederick H. & Lois M. Kate Excellence in Earth Science Education (Kate EESE) Awards, again concentrating on awards for pre-college students interested in pursuing studies in the geosciences.

In 2013, proceeds were used to sponsor a full-day Earth Science workshop for elementary, middle and high school Earth Science teachers from all over the state of Oklahoma. The workshop was taught by Janie Schuelke, from Houston, Texas. This is a nationally acclaimed, hands-on workshop, covering a full scope of Earth Science topics. This is the third year the Foundation has sponsored the workshop for teachers.

In 2006, Jason F. & Julie D. Hamilton and the Oklahoma Geological Foundation established the Excellence in Earth Science Education (EESE) Awards. The Award is an extension of the long-standing Science Fair Awards, which the Oklahoma City Geological Society established in 1956. It was established to stimulate and reward excellence in Earth Science Education at the middle and high school levels.

Past projects supported by EESE funds in the last four years have involved Putnam City High School, in Oklahoma City, Jenks High School, Jenks, Oklahoma, and Cheyenne Middle School, in Edmond, Oklahoma. Funds distributed to Putnam City High were used to support Teacher Workshops. Additionally, Earth Science teachers Lesa Rohrer and Miranda Suvak, Putnam City High School and Jenks High School, respectively were recipients of the EESE Award for their tireless work and dedication in Earth Science Studies.

In 2013, proceeds from the Program were used to support a request from Tulsa Geoscience Center, located in Tulsa, Oklahoma. The Tulsa Geoscience Center is a very unique facility with a mission is to educate students and the general public on energy. A big part of that education process is to expose K-12 students to Earth Science and Geology. The Center teaches students about rock and mineral identification, fossils, fluorescence, porosity, permeability, the oil and gas industry, earthquakes, geologic time, crude oil and natural gas and their uses. The Center also offers free field trips for students to learn about Earth Science.


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The Oklahoma Geological Foundation

Summer Field Camp Grants Program

The Oklahoma Geological Foundation Summer Field Camp Grants were established in 2011 with the intent of providing funds to offset the costs of attending summer field camp for students from Oklahoma University, Oklahoma State University, and Tulsa University.

The first year of funding occurred in 2012 and a total of nine students receive financial support to attend summer field.

In the summer of 2013, the Foundation again provided funds to nine students to offset field camp costs. The total amount awarded was $4,500.
The Suzanne Takken Memorial Award

The Suzanne Takken Memorial Award provides annual financial support to women attending college and pursuing careers in the geosciences, and especially in the field of Geology. The award was established in 1998 by Bonnie and Dennis Smith, Ralph Espach, Jr., and Robert Northcutt to honor the memory of Suzanne Takken. Ms. Takken was a respected independent geologist in Oklahoma City. The Award is the Foundation’s second oldest program.

The 2014 Suzanne Takken Award recipient was Ms. Beth Vanden Berg, of Germantown, Ohio. Ms. Vanden Berg's OSU Faculty Advisor was Dr. Michael Grammer. Beth's Master's Thesis was titled “Predicting Carbonate Petrophysical Properties Using Sonic Velocity and Characterization of Pore Architecture in Carbonate Mudrocks: An example from the Mississippian Limestone of the Mid-Continent.”

Ms. Takken was an active member of the Oklahoma City Geological Society and served on many of the Society’s committees. Throughout her career she was also very active in professional organizations on the national level. In 1982, Ms. Takken was recognized as an honorary member of the Oklahoma City Geological Society. Suzanne Takken was also a Charter member of the Oklahoma Geological Foundation. Ms. Takken died in 1997 and in 2009 the Foundation presented its Legends Award to Ms. Takken, posthumously.

Female students from both Oklahoma University and Oklahoma State University have been honored to receive this award since inception of the Award with almost $40,000 having been distributed to assist in their educational endeavors.

The Philip Boyle Foundation & The Oklahoma Geological Foundation’s Elementary and Secondary School Program

The Philip Boyle Foundation, together with the Oklahoma Geological Foundation, established the Elementary and Secondary School Program in 2008. The Program provides financial assistance to teachers to establish Earth Science programs in elementary, middle and high schools. The Program also provides ongoing support to earth science teachers to enhance and expand their existing Earth Science programs.

In 2011, funds from the Program were used to purchase supplies and lab equipment for the Earth Science Program at Putnam City North High School in Oklahoma City, Oklahoma. Mr. Brad Sanders, a teacher of Earth Sciences at Putnam North High School, used the equipment and supplies to expand the Earth Science program at the school.

The Program co-sponsored a full-day workshop for 48 elementary & high school Earth Science Teachers from all over the state of Oklahoma in the year 2012. This nationally acclaimed, hands-on workshop, titled “Rocks in Your Head”, was taught by Mrs. Janie Schuelke, and covered a full scope of Earth Science topics and skills for the teachers, who can then apply this knowledge back to the classroom making Earth Science a fun and memorable experience for their students. Topics covered include environmental processes, rock formation, mineral identification, geologic landforms, mapping and fossil fuel formation plus alternative energy sources.

The proceeds from the Grant in 2013 were used to support a request from Mustang Public Schools. Mustang Public Schools recently opened two new intermediate schools with each site serving approximately 800 students in grades 5 and 6. This expansion resulted in a total of 16 new STEM science rooms. The proceeds were used to equip the new science rooms and labs with the necessary materials and equipment to ensure that the students the opportunity to access Earth Science through a hands-on approach.

Mr. Boyle was a prominent geologist in Oklahoma City and a Charter Member of the Oklahoma Geological Foundation. Mr. Boyle died in 2000.
The Oklahoma Geological Foundation Elementary School, Middle School, and High School Grants

The Oklahoma Geological Foundation Elementary School Grant established in 2011 and funds were initially provided in 2012.

In 2012, Grant support was distributed to fund a full-day workshop for 48 elementary & high school Earth Science Teachers from all over the state of Oklahoma. This nationally acclaimed, hands-on workshop, entitled, “Rocks in your head,” was taught by Mrs. Janie Schuelke. This workshop covered a full scope of Earth Science topics and skills for the teachers, who then applied this knowledge to their classroom. Topics covered in the workshop included environmental processes, rock formation, mineral identification, geologic landforms, mapping and fossil fuel formation plus alternative fuels.

The proceeds from the Grant in 2013 were used to support a request from the Tulsa Geoscience Center.

The Tulsa Geoscience Center, located in Tulsa, Oklahoma, offers free Earth Science field trips to students and teachers from all over the state of Oklahoma. The Grant will be used to supplement transportation costs for the teachers and students. The Center typically hosts 90 field trips benefiting nearly 3,000 students and teachers each year.

In 2013, proceeds from the Middle School Grant were used to support a request from Mustang Public Schools. Mustang Public Schools recently opened two new intermediate schools with each site serving approximately 800 students in grades 5 and 6 resulting in a total of 16 new STEM/science rooms. The proceeds were used to equip the new science rooms and labs with the necessary materials and equipment to afford students with the opportunity to engage in Earth Science studies through a hands-on approach.

The Herbert G. & Shirley A. Davis Oklahoma State University Geology Scholarship Program

The Herbert G. and Shirley A. Davis Oklahoma State University Geology Scholarship (Davis Scholarship) was established in December, 2007. It endows undergraduate and graduate-level studies at the T. Boone Pickens School of Geology at Oklahoma State University. This Scholarship Program is made available to full-time students who are pursuing degrees and careers in the field of Geology.

Herb and Shirley Davis are Charter Members of the Oklahoma Geological Foundation and have a long philanthropic history in supporting studies in Geology and the Earth Sciences. In addition to the many awards and honors that Mr. Davis has received, he was also honored by Foundation with its Legends Award in 2009.

The Davis Scholarship Program is more than just an award providing funds for deserving students at Oklahoma State University. Herb and Shirley interact with the students who are recipients of their Scholarship Program, with the intent of providing guidance and direction as the students pursue a career in the field of Geology. The Davis Scholarship is truly a unique experience for a student who is majoring in Geology at Oklahoma State University.

The Beth Cronin Elementary School Program

The Beth Cronin Elementary School Program was established in 2006 by Thomas C. Cronin in honor and memory of his wife, Beth Cronin.

Mrs. Cronin volunteered for a number of years at St. Elizabeth Ann Seton Lower School (SEAS) and her enthusiasm and long-standing dedication to lower school studies and her love for the children and teachers were her passion. Funds from the Program were initially used to establish a state of the art science lab at SEAS and to aid in facilitating Earth Science education to its young students.

In later years, the Program has provided funds to further equip and expand the school’s science laboratory with new equipment and supplies as the school continues to build a unique and comprehensive Earth Science program for the students of St. Elizabeth.

Since 2007, the Beth Cronin Elementary School Program has provided over $26,000 in funding to St. Elizabeth Ann Seton to facilitate the Earth Science education for its young students. St. Elizabeth Ann Seton Catholic School is located in Edmond, Oklahoma.

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The Oklahoma Geological Foundation Excellence in Earth Science Education Awards Program

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The Lance Ruffel & Oklahoma Geological Foundation
Innovations in Earth Science Education Program

The vintage saying “success breeds success” has never been more evident as Lance Ruffel and the Oklahoma Geological Foundation created the Lance Ruffel & Oklahoma Geological Foundation Innovations in Earth Science Education Program in the fall of 2012. This Program commenced with the successful funding of an iPad Lab at Putnam City North High School. The Program is designed to put technology in the hands of Earth Science students and allow each student to study the science of Geology and Earth Science in a fun and innovative format.

In 2013, the Program provided financial support to Edmond North High School to establish an iPad Lab for their science classes. The Lab will serve up to seven Earth Science classes and will be used by over 260 students as they study the Earth Sciences. In conjunction with the Program, Edmond North High School received a grant from Oklahoma University to purchase Vernier lab equipment which can be linked with the iPad Lab for data analysis as well as numerous lab experiments - all associated with Earth Science.

The proceeds of the Program will be used to provide the necessary funding to introduce students to the Earth Sciences and the science of Geology by focusing on innovative Earth Science curricula and technology. These funded programs will employ innovative technologies, like the iPad Lab, that excite, captivate, and motivate students to excel. Furthermore, the Program will develop partnerships with schools and universities to create Earth Science programs that will attract the brightest and most talented students. The Putnam City High School and Edmond North High School iPad Labs are examples of such programs that have been praised by educators and become widely popular with students. These programs will encourage students to pursue additional studies in the Earth Sciences and the science of Geology.

In addition to providing financial support, the Program is intended to provide the ongoing guidance in building strategic financial partnerships with the oil and gas industry to bring additional resources to Oklahoma’s educational institutions. As new and innovative programs and technologies are developed, the Program will help to disseminate and make these available to teachers and students throughout Oklahoma.

The John Gatchell Earth Science Teaching Program, October, 2013: $6,000
The Frederick H. & Lois M. Kate Excellence in Earth Science Education Program
The Oklahoma Geological Foundation Non-Directed Funds

Recipient: 38 Elementary, Middle & High School Earth Science Teachers from all over the state of Oklahoma
Instructor: Janie Schuelke
Grant: Proceeds of grant used to sponsor a full-day Earth Science workshop, titled “More! Rocks in Your Head.” This is a nationally acclaimed, hands-on workshop, covering a full scope of Earth Science topics.

The Oklahoma Geological Foundation Non-Directed Funds; October, 2013: $358

Recipient: Nicole (Nikki) Patten, Whittier Middle School, Norman, Oklahoma
Grant: Proceeds of grant were used to purchase a mini iPad, which was presented to Ms. Patten, one of the Earth Science teachers who attended the “More! Rocks in Your Head” workshop.

The Lance Ruffel & OGF Innovations in Earth Science Education Program | The Oklahoma Geological Foundation Non-Directed Funds, November, 2013: $28,032

Recipient: Edmond North High School, Edmond, Oklahoma.
Advisor: Mr. Richard Opalka, Earth Science Teacher
Grant: Grant awarded for the purchase of an iPad Lab, dedicated exclusively for Earth Science Education at Edmond North High School. The iPad Lab will serve six to seven Earth Science classes, with approximately 35 students in each class, the iPads will be used by over 260 students. That means that over 25% of the junior and senior students at Edmond North High School will benefit from the iPad Lab.

The Kenneth Stewart Cronin Lecture Series Program
Lecture Date, May 9, 2013 at the Foundation’s Spring Awards Banquet: $505
Sponsored Speaker: Aaron Zubaty, Senior Vice President of Wind Energy Investments at MAP

Lecture Date, October 22, 2013 at the Foundation’s More! Rocks in Your Head Workshop
Sponsored Speaker: Janie Schuelke, Geoscience Education Consultant

The Kenneth Stewart Cronin Lecture Series Program, Lecture Date, November 7, 2013 at the Foundation’s Legends’ Award Dinner
Sponsored Speaker: Dr. Theodore W. Pirog, Energy Advisor, Corporate Strategic Planning Department, ExxonMobil Corporation, Dallas, Texas

TOTAL 2013 FUNDING: $92,783!
The Suzanne Takken Memorial Award: $6,000
Recipient: Ms. Jessica Treanton, Greenwich, CT
Advisor: Dr. Roger M. Slatt
Thesis: “Chemostratigraphy and Sequence Stratigraphy of the Woodford Shale in Southern Oklahoma”

The Frederick H. & Lois M. Kate Award: $6,000
Recipient: Mr. Andrew Snider, Edmond, Oklahoma
Advisor: Dr. Jeffery Byrnes
Thesis: “Using FTIR (Fourier Transform Infrared) to Evaluate Shale Content”

The Oklahoma Geological Foundation Non-Directed Funds: $6,000
Recipient: Aaron Ball, University of Tulsa, Sand Springs, Oklahoma
Advisor: Dr. Bryan Tapp
Thesis: “Balance Structural Cross-Sections of the Boktukola Syncline in Central Ouachita Mountains of Southeastern Oklahoma”

Beth Cronin Elementary School Program: $5,150
Recipient: St. Elizabeth Ann Seton Catholic School (SEAS), Edmond, Oklahoma
Advisor: Ms. Shireen Spurr, SEAS Special Services/Science Lab Coordinator
Grant: Science teaching equipment and materials their science lab

The Oklahoma Geological Foundation Excellence in Earth Science Education Awards Program: $4,000
Recipient: Tulsa Geoscience Center, Tulsa, Oklahoma
Director: Norman Hyne
Grant: The Tulsa Geoscience Center, located in Tulsa, Oklahoma is a very unique facility. Its mission is to educate students and the general public on energy. A big part of that education process is to expose K-12 school students to Earth Science and Geology.

Herbert G. & Shirley A. Davis Oklahoma State University Geology Scholarship: $3,000
Recipient: Ms. Miranda Childress, Morrison, Oklahoma
Advisor: Dr. Michael Grammer
Thesis: Miranda’s Master’s thesis will be research associated with OSU’s Mississippian Consortium.

The Oklahoma Geological Foundation Elementary School Grant | The Oklahoma Geological Foundation Non-Directed Funds: $2,000
Recipient: Tulsa Geoscience Center, Tulsa, Oklahoma
Director: Norman Hyne
Grant: The Tulsa Geoscience Center, located in Tulsa, Oklahoma offers free earth science field trips to students and teachers from all over the state of Oklahoma. The grant will be used to supplement transportation costs for the teachers and students.

The John Gatchell Earth Science Teaching Program
The John Gatchell Earth Science Teaching Program was established in 2008 by Lance Ruffel, Jim Treapagney and others, to honor John Gatchell. The Program provides funding to encourage and reward science teachers and their students in pre-college Earth Science studies, with specific emphasis on studies conducted in middle and high schools.

In 2011 the Program supported a grant request from Travis Hurst, an Earth Science Teacher at Edmond North High School in Edmond, Oklahoma. Grant proceeds were used for the purchase of supplies and lab equipment to expand and update the Earth Science program at the Edmond North High School.

Funds were provided to support a request from Cheyenne Middle School teacher, Sharron Wolf, to construct an outdoor pond and streambed in 2012. The concept is to create an “outdoor classroom,” whereby students can study all the aspects of water dynamics in a miniature streambed, as well as how the water affects the surrounding environments.

This one of a kind classroom will be used in Earth Science studies for sixth, seventh, and eighth grades, and will provide an endless array of labs, experiments, and observations in a real time situation. The funds were used to buy all the materials – sand, rocks, pumps, gravel, a liner for the pond, indigenous plants and some aquatic species. The students and their parents built the pond and streambed. Cheyenne Middle School and the Gatchell Teaching Program are providing a unique and extraordinary venue for students to study Geology and Earth Science now and for years to come. Cheyenne Middle School is located in Edmond, Oklahoma.

In 2013, proceeds were used to sponsor a full-day Earth Science workshop for elementary, middle and high school Earth Science teachers from all over the state of Oklahoma. The workshop was taught by Janie Schuelke, from Houston, Texas. This is a nationally acclaimed, hands-on workshop, covering a full scope of Earth Science topics. This is the third year the Foundation has sponsored the workshop for teachers.

John Gatchell was a Charter Member of the Oklahoma Geological Foundation. John died in 2008.
The Charles E. Branham Geological Library Program

The Charles E. Branham Geological Library Program was established in 2010 by Sharlene Branham, the Branham family, H. Huffman & Company and the Oklahoma Geological Foundation. Charles Branham was a respected and well known exploration geologist in Oklahoma City.

The proceeds from the Library Program are earmarked to promote Earth Science education throughout the state of Oklahoma through participation in “Newspapers in Education” (NIE). This is a program sponsored by OPUBCO Communications Group with support from the Oklahoma Geological Survey. NIE lesson plans are generated for Earth Science teachers in Oklahoma and deal on topics in Geology and other Earth Sciences. The publication of these lesson plans reach more than 700 schools and over 15,000 students in Oklahoma.

The program for Earth Science studies in 2010 was appropriated entitled Oklahoma Rocks!

In 2011, the lesson plans were entitled, “Landscapes and Geologic History in the State of Oklahoma.” The lesson plans illustrated the great variety of landscapes found in Oklahoma and examined the geologic history of these various landscapes.

“Groundwater Resources in the State of Oklahoma” was presented in the lesson plans in 2012, which provided an overview of groundwater in Oklahoma and how ground water and geology are related and fit together.

The subject matter for 2013 dealt with Oklahoma’s State Parks. This edition used seven of Oklahoma’s most popular parks as natural geological laboratories to help students better understand the state’s geological history and the geological processes that have occurred over the last 550 million years. As students and teachers are exposed to the natural beauty and culture of the Parks, they will also be taught the role geology played in creating the beauty, history and development of the Parks.

Mr. Branham was an honorary Charter member of AAPG and for fifty years, was a member emeritus of the American Institute of Professional Geologists. Known as “Charlie” to most everyone in the geo-community, he was best known for establishing the Library for the Oklahoma City Geological Society during his Presidency in 1965. In November of 2010, he was honored posthumously by the Foundation as one of its Legends.

Edmond North High School

In 2013, the Foundation provided financial support to Edmond North High School for the purchase of an iPad Lab for Earth Science education. The iPad Lab will be used by over 200 students, which means that approximately 20% of the junior and senior population at Edmond North will study Earth Science using the iPads provided by the Foundation.

Teacher Workshops

In 2012 and 2013, the Foundation sponsored a full-day workshop for educators that covered a full scope of topics in the Earth Sciences. The workshop prepares teachers to be more effective in instructing Earth Science and making Earth Science a fun and memorable experience for all students. Nearly, 100 Earth Science Teachers have participated in the workshop over the past two years.

The Foundation has been able to leverage its financial support to impact very large numbers of students and teachers, as documented by the figures above. The Foundation’s Grants and Programs are a direct result of the generosity of the many individual donors and companies who continue to contribute year after year to the Foundation.
As you read through the Annual Report it will become apparent that the Foundation continues to grow and expand its Programs. One measure of this success is the increase in the number of students and teachers that receive direct benefits from the Foundation’s Programs. When funds from a single Foundation Grant or sponsored Program benefit hundreds of students and teachers, the impact on Earth Science Education is far reaching and incredibly cost effective.

Listed below are a few of the Foundation’s Grants and sponsored Programs that have impacted countless numbers of students and teachers.

### Mustang Public Schools

In 2013, Mustang Public School district opened up two, new intermediate schools and shifted the district’s Gifted and Talented program from one location to six additional school sites. Foundation proceeds were used to purchase new lab equipment in three different schools, impacting 16 different science labs, in grades 5 and 6, and their Gifted and Talented Program. A total of 1,500 students will be able to experience and engage in Earth Science education with hands-on learning, as a result of the Grant awarded to Mustang Public Schools.

### Putnam City North High School

In 2012, the Foundation and Lance Ruffel, awarded a Grant to Putnam City North High School to purchase an iPad Lab dedicated exclusively for Earth Science Education. The number of Earth Science students almost doubled in the 2013-2014 school year from the prior year. Student enrollment in Earth Science curricula expanded to 215 students, up from 120 the previous year. Putnam City North has incorporated four new sections to Earth Science program this year and has added another Earth Science teacher.

### Newspapers in Education Program

For the last several years the Foundation and OPUBCO, through OPUBCO’s “Newspapers in Education Program,” have developed a series of lesson plans to be used in Earth Science education for teachers and schools throughout Oklahoma. The Foundation has funded the program, with the proceeds being used to generate lesson plans covering various topics in Geology and other Earth Science studies. These lesson plans are then made available and distributed to more than 700 schools and 15,000 students across the state of Oklahoma.

### St. Elizabeth Ann Seton Catholic School

St. Elizabeth Ann Seton established a state of the art science lab in the fall of 2006. St. Elizabeth Ann Seton presents Earth Science and other programs in Pre-K through 8th grade. The Foundation has provided grants to the school since 2007 to equip the lab and facilitate a quality Earth Science program. The lab is used by an average of 450 students annually. In their Middle School, the entire 7th grade year is solely dedicated to the study of Earth Science.

### The Shirley A. Davis Program for Earth Science Education

The Program was established by Herbert G. and Shirley A. Davis to advance educational and scientific activities in the Earth Sciences in elementary and middle schools. This Program will also supplement other Foundation Programs when needed.

### The Frederick Michael “Rickey” Black Summer Field Camp Grant

The Frederick Michael “Rickey” Black Summer Field Camp Grant was established by B & W Operating LLC, Kirk Whitman, Lawrence H. Davis, Rick Black’s family, close personal friends and business colleagues of Rickey, and the Foundation.

Rick Black was a respected Geologist in Oklahoma City. During his career, he held positions with Gulf Oil and Don Slawson Oil before starting his own company, B & W Exploration. He was admired by his peers for his passionate love of geology and the integrity of his work. He made an impact in his profession, his community and his church, and had a long history of philanthropy in all segments of his life. The Grant will be used to fund summer field camps for Oklahoma students.

The Foundation is very proud to introduce two, new Directed Programs. Both Programs were established in the fall of 2013, and will fund Programs and grants for students and teachers in Earth Science education throughout Oklahoma.

### The Frederick Michael “Rickey” Black Summer Field Camp Grant

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### The Shirley A. Davis Program for Earth Science Education

The Program was established by Herbert G. and Shirley A. Davis to advance educational and scientific activities in the Earth Sciences in elementary and middle schools. This Program will also supplement other Foundation Programs when needed.

Herb and Shirley Davis have both been prominent figures in AAPG, the Oklahoma City Geological Society, and with the affairs of the Foundation. Furthermore, Herb and Shirley have been strong proponents of education, having funded the Foundation’s long-standing Herbert G. & Shirley A. Davis Oklahoma State University Geology Scholarship. They have also funded similar programs through AAPG. Shirley has been associated with the GeoWives organization of the Oklahoma City Geological Society. Herb was honored as one of the Foundation’s Legends in 2009. Herb is also honorary member of the Society.

Herb and Shirley Davis (left) shown at the Foundation’s 2014 Spring Awards Banquet where they were presented with Foundation’s Little Debbie Award recognizing them as prominent and long-standing Donors.
The OGF grant was used to purchase lab equipment including beakers, graduated cylinders, scales, digital stereoscopic microscopes, soil study kits, etc. The day these items arrived in district felt like Christmas in October.

Funding has impacted three different school sites, a total of almost 1,500 students in year one, and will continue to impact student learning and interest in science for years to come.

Gail Loving
Mustang Public Schools
Science Curriculum Coordinator

In 2013, the Foundation again reached out to other organizations to share funding responsibilities for some of its larger Programs. By joining with other organizations, the Foundation further leveraged its available capital to supply even more support to Oklahoma students, teachers and schools. As a result of these partnerships, the Foundation was able to provide more than $12,000 in additional funding through the Foundation’s Programs.

Chesapeake Energy, OERB, the Oklahoma Geological Survey, and the Oklahoma Aggregates Association, assisted the Foundation in funding two important programs.

The Oklahoma Geological Summer Field Camp Scholarship you have awarded me has made it possible for me to continue with my goal to become a Geologist. Without this generous gift I was not sure if my family and I were going to be able to acquire the funds necessary to complete the final course of my degree.

Katherine Foote
University of Oklahoma
Student

To have the opportunity of graduating from college and to enter graduate school, with zero debt is truly a blessing. However, without the support of donors such as the OGF this would not be possible for me. It is generosity like yours that allows aspiring students the opportunity to earn a degree. Without your support, I would never have discovered the career possibilities and the beauty that geosciences have to offer.

Caleb P. Bontempi
Student,
Senior at the University of Oklahoma

This exceptional workshop entitled, “More! Rocks in Your Head,” is a nationally acclaimed, hands-on workshop and provides 3rd - 8th grade teachers with the background, vocabulary, hands-on projects, and the motivation to teach an effective Earth Science curricula.

The Foundation has made it a priority to provide financial support to those students attending Summer Field Camps. Starting in 2013, we expanded this effort by providing financial support to EVERY college student from Oklahoma universities attending Summer Field Camp.

The Foundation provides educators at all grade levels with the tools, supplies, and lab equipment they need to effectively create a positive learning environment that makes science education fun again.
I want to thank you so much for the generous donation to the St. Elizabeth Ann Seton Science Lab from the Cronin Elementary Endowment through the Oklahoma Geological Foundation. Your commitment and that of the Foundation, to education touches the lives of many students and teachers. Your support has allowed St. Elizabeth Ann Seton to offer its students opportunities often found only in high school and college labs. Also, thank you for a wonderful and enlightening evening at the Legend’s Dinner.

Shireen Spurr
Special Services
St. Elizabeth Ann Seton Catholic School

Two years ago, I received a career altering grant from the OGF. With the grant from the OGF, I was able to purchase 30 iPads and an iPad sync cart. The addition of this technology to my class has been amazing. The iPads have added another dimension to my teaching and the kids learning. I really can’t imagine what my Earth Science class would be like without the help of the OGF.

Bryan Mathews
Putnam City North High School
Earth Science Teacher

Thanks to our iPad grant from the Oklahoma Geologic Foundation, Earth Science students are reaping the benefits of cutting edge, hands on technology. Instant data on geologic events, such as our recent earthquakes, is now available to our teachers the next morning for classroom use. After our addition of the iPad lab in the fall of 2012, interest increased enough to add one hundred additional students to our program for the current school year. Our greatest thanks to the foundation!

Melinda Flournoy
Putnam City North High School
Instructional Technology Coach

The Foundation is increasing its effectiveness in all of its Programs by leveraging the use of the latest technologies, including tablets, iPads, and broadband Internet connections.
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THE FOUNDATION’S
KENNETH STEWART CRONIN
Lecture Series Program

The Kenneth Stewart Cronin Lecture Program was established in 2006 by Thomas C. Cronin in honor and memory of his father, Kenneth Stewart Cronin. The Program provides the financial support for the Oklahoma Geological Foundation’s Lecture Series.

Through the Lecture Series, distinguished lecturers with national and international acclaim, discuss and disseminate timely geologic information on current exploration plays and topics of high common interest within the geosciences at Foundation functions that include the Award Banquet and Legends Dinner. Additionally, the Lecture Series will also support Foundation sponsored workshops, seminars, and other programs.

Speakers for past lecture Series events have included: David Curtiss, from AAPG’s Geo D.C. Office, Washington, D.C.; Dr. G. Randy Keller, Oklahoma Geological Survey, Director and State Geologist, Professor of Geophysics and McCollough Chair, University of Oklahoma, Norman, Oklahoma; Donald L. Gautier, Geologist, Western Region USGS, Project Chief, Circum-Oklahoma, Norman, Oklahoma; Dr. G. Randy Keller, Oklahoma Geologist, Heritage Oil, Ltd., London; Glen E. Sweetnam, Washington, D.C., Director of the International, Economic, and Greenhouse Gases Division, Energy Information Administration; Arthur Berman, a well known Houston Geologist and past Exploration Editor of World Oil magazine.

Heritage Oil Company’s Chief Geologist, Paul Logan, discusses his Company’s major oil discovery in the Democratic Republic of the Congo, during the fall 2008 Cronin Lecture Series.

Houston, Texas; Philip H. “Pete” Stark, Ph.D., Vice President of Industry Relations, IHS, Inc., Denver, Colorado; Paul Logan, London, Chief Geologist, Heritage Oil, Ltd., London; Glen E. Sweetnam, Washington, D.C., Director of the International, Economic, and Greenhouse Gases Division, Energy Information Administration; Arthur Berman, a well known Houston Geologist and past Exploration Editor of World Oil magazine.

Total receivables for 2013 were $348,760, compared to $315,662 for 2012. Of this amount, donations totaled $348,760 for 2013, while investment income was $64,745. In 2012, donations totaled $178,078, and investment income was $36,095. Over the past three years, the donations to the Foundation have averaged $192,455 per year.

During 2013, the Foundation incurred expenses totaling $48,696, net of Grants, Scholarships, and Awards. Of this amount, $31,111 (64%) was attributed to the Foundation’s Legends Dinner, Awards Banquet, and the Director’s Reception. Our advertising and promotional expenses for the year totaled $5,120 (11%), while the printing costs for the 2013 Annual Report were $3,012 (6%). Our legal and accounting fees were $6,763 (13%), while general, administrative, and other expenses totaled $2,690 (6%). The Foundation’s expenses have averaged $40,731 per year over the past three years.

The Foundation’s Investment Policy is designed to ensure that ample annual income will be available for its charitable purposes in perpetuity, regardless of existing economic or market conditions.

For 2013, the Foundation’s total distribution of funds for Grants, Scholarships and Awards was $92,783, compared to $69,361 in 2012.
As of December 31, 2013, the financial assets of the Oklahoma Geological Foundation totalled $2,037,909. This is an increase of $525,904 over the previous year’s balance of $1,512,005.

The invested, fair market value of the Endowment Funds of the Foundation was $2,014,953. This is an increase of $539,396 over the previous year’s balance of $1,475,557. This increase was attributable to net contributions of $241,500 and investment gains of $297,896 (net of third party management fees). The Endowment Funds had an asset allocation at yearend of 67.7% equities, 28.9% fixed income securities, and 3.4% cash and equivalents. Under normal circumstances and Foundation investment policy guidelines, the overall equity allocation will typically range from 60-80% while the fixed income allocation will typically make up the remaining 20-40% allocation.

The Foundation’s equity investments are well diversified with exposure to various styles and classifications, which include large cap, small cap and international equities. At yearend, the composition of the equity portfolio was as follows:

- **Large Cap Core**: 26.0%
- **Small Cap Value**: 21.6%
- **Individual Equity**: 16.3%
- **Large Cap Growth**: 12.5%
- **Large Cap Value**: 12.6%
- **Developed International**: 6.7%
- **Emerging Markets**: 4.2%

The fixed income allocation of the Foundation’s portfolio is invested in instruments classified as intermediate-term, investment grade, with smaller allocations to shorter-term maturities and other styles seeking to mitigate interest rate risk. The fixed income portfolio style breakdown at yearend was as follows:

- **Intermediate Term Bond**: 80.0%
- **Short-Term Bond**: 10.0%
- **Unconstrained Bond**: 10.0%

For the year ended December 31, 2013, the portfolio earned 19.49%, net of third party management fees. This return compares to a blended benchmark return of 21.53%. The blended benchmark is comprised of the S & P 500 Stock Index, Barclays Intermediate Government/Credit Index and the Lipper Money Market Index; all weighted in accordance to the broad weights of the endowment portfolio.

The Foundation’s Michael Root (left) shown presenting Austin Holland (right) with the Foundation’s “Thank You” gift. Austin, a seismologist with the Oklahoma Geological Survey, in Norman, Oklahoma, presented his research on earthquakes in central Oklahoma during the Foundation’s spring 2014 Awards Banquet.

In 2013, Aaron Zubaty, Senior Vice President of Wind Energy Investment at MAP, from Palo Alto, California, spoke at the Foundation’s 2013 Annual Awards Banquet. Mr. Zubaty presented a discussion on wind energy resource in Oklahoma and the use of wind power together with natural gas to generate electricity.

At the Annual Legends Dinner in November, 2013, Dr. Theodore (Ted) Pirog, an energy advisor at ExxonMobil Corporation discussed the long-term global energy outlook, as well as presenting ExxonMobil’s view of the future of energy.

Dr. Theodore “Ted” Pirog, Senior Energy Advisor at ExxonMobil Corporation, Houston, TX, shown making his presentation on “The Outlook For Energy - A View to 2040” during the fall 2013 Kenneth Stewart Cronin Lecture Series event.

Austin Holland a seismologist with the Oklahoma Geological Survey, in Norman, Oklahoma, presented his research on earthquakes in central Oklahoma during the Foundation’s spring 2014 Awards Banquet.

The Cronin Lecture Series also participated in the funding of a day-long workshop for Earth Science Teachers. This workshop was presented by Janie Schuelke, a Geoscience Education Consultant from Houston, Texas.

The Foundation is committed to supporting Earth Science education programs at all grade levels throughout Oklahoma. Your contributions allow us to make real and significant progress in the lives of students of all ages.
The Directors of the Foundation have long recognized that many individuals have distinguished themselves by having made outstanding contributions to the science of Geology, created significant advancements in the oil and gas industry, and have improved their communities for the better.

In the fall of 2007, the Foundation began to honor these men and women by bestowing upon them its Legends Award. Since then, the Foundation has honored eighteen individuals at its Legends Award dinner, which is held annually in the fall.

The Foundation’s “Prospector” bronze statue is presented annually to our Legends Honorees.

The 2007 Inaugural Legends Honorees included Dean A. McGee (top, posthumously), Frederick H. “Fritz” Kate (middle, posthumously), and Dennis F. Smith (lower, deceased).

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The Foundation’s Directors include:
Mark Lester, Jack Stark, Larry Davis, Lance Ruffel, Tom Cronin, Terry Holrah, Jason Hamilton, Joel Alberts, Frank Gagliardi, and Michael Root (left to right).
2014 ANNUAL REPORT

THE FOUNDATION’S LINEAGE

FOUNDING DIRECTORS:

David G. Campbell | Thomas E. Davis | Louis M. Ford* | Dennis F. Smith*

INDIVIDUAL CHARTER MEMBERS:

Glenn L. Blumstein | Steven J. Boone | J. Phillip Boyle, Jr.* | Barth W. Bracken | Jordan C. Braun
Les J. Broker     | David G. Bryant | David G. Campbell | James W. Caylor* | Thomas C. Cronin
Thomas E. Davis   | Robert Hancock* | Ralph H. Espach, Jr. | Louis M. Ford* | John H. Gatchell*
G. Carl Hale*     | Dick S. Horton* | Bill J. Jezek*     | Harold I. Kleen* | Jere W. McKenny
William E. McMurtry* | Peter Norton | J. Durwood Pate* | Lee R. Riley, Jr.* | Lance Ruffel
William M. Smith  | Suzanne Takken Estate* | Victor J. Veroda | Roger Wilkinson | Louis R. Wilson*
Herbert G. & Shirley A. Davis | Frederick H.* & Lois M. Kate* | Robert W.* & Jo Ann* Waring

CORPORATE CHARTER MEMBERS:

Crawley Petroleum | Kerr-McGee Corporation | PSEC, Inc. | Sam K. Viersen Family Foundation
The Mid-Continent Section of AAPG

PAST FOUNDATION CHAIRMEN:

Steven Boone | David G. Campbell | Thomas E. Davis | Louis M. Ford*

PAST FOUNDATION DIRECTORS:

James W. Caylor* | Ralph H. Espach, Jr. | Jere W. McKenny | Cameron R. McLain
Dennis F. Smith* | William M. Smith

(*) Deceased

Originally incorporated in 1993, the Oklahoma Geological Foundation faced many challenges in the early years of its existence as the oil and gas industry struggled with low prices and economic uncertainty. The names listed above represent those who dealt with the uncertainty and obstacles by unselfishly contributing their time and capital to the Foundation. The Foundation exists today in no small part because of their persistent efforts to make the Foundation a strong and vibrant organization.
Michelangelo once wrote, “The greatest danger for most of us is not that our aim is too high and we miss our target, but that our aim is too low and we reach it.”

Since its inception, but particularly in the last seven years, the Foundation has implemented a model termed “Excellence in Earth Science Education.” This model continually challenges students and teachers to make excellence in Earth Science education a priority. This model is succeeding with help and support from the Foundation. Following this premise, the Foundation has expanded and clarified its Vision Statement to better execute this model and the Statement has been divided into two, new Directives: Primary and Secondary.

Our Primary Operating Directives are:
1) To encourage and financially support those students who are enrolled in elementary, middle, and high schools within Oklahoma and are enrolled in curricula in the science of Geology and related fields.
2) To encourage and financially support those teachers and their schools within Oklahoma that maintain curricula in the science of Geology and related fields.
3) To encourage and financially support those students who: a) Attend colleges and universities within Oklahoma and major in the science of Geology and related fields, and ultimately obtain undergraduate and graduate degrees in those fields; and, b) Plan to pursue careers affiliated in the science of Geology and related fields.

Our Secondary Operating Directives are:
1) To encourage and financially support those worthy scientific endeavors that are conducted by other organizations, which promote the science of Geology and related fields within the state of Oklahoma.
2) To acknowledge and honor those professionals working in businesses affiliated with the science of Geology and related fields, who have made, or continue to make, significant contributions to their profession and/or their communities.

The Foundation currently has eighteen Directed Programs that implement and support these Directives and a complete summary of these Programs is presented throughout the Annual Report.

Funds from the Foundation’s Programs are being used to educate, train, and prepare these students for the future. Thank you for sharing our passion and vision as the Foundation continues to invest in the future of these students and to support their teachers and institutions. The future well-being of Earth Science education, the science of Geology, and the oil and gas industry will ultimately depend upon the next generation of geoscientists. These future professionals are today’s students.
On behalf of the Directors of the Oklahoma Geological Foundation, it is my pleasure to share with you our 2014 Annual Report.

Each year, our Annual Report provides you with a formal update on our activities during the prior year, as well as the opportunity to honor and recognize those Donors whose gifts are so vital to the success of the Foundation. The Annual Report before you is a testament to the financial generosity of so many wonderful Donors who are committed to the goal of providing the highest level of Earth Science education throughout the state of Oklahoma – at all grade levels.

With growth there is always change. The Oklahoma Geological Foundation has expanded and clarified its Vision Statement into a listing of Operating Directives. These new Directives provide the current Board of Directors with a road map for the future. With a clear vision of the tasks before us, the Directors are excited to be establishing new programs; increasing financial support to elementary, middle and high school students in Oklahoma; and providing every Earth Science teacher in Oklahoma with the assets and tools necessary to develop and educate the next generation of geoscientists.

During this past year, the Foundation has also taken the necessary steps to assure the continuity, stability, and consistent leadership of the Board of Directors by electing three, new Board members. The Foundation will continue to be challenged to meet the needs of our students and teachers but these challenges will be met head-on as a result of having a strong and dedicated Board of Directors.

As you read through our 2014 Annual Report, you will see that your gifts to the Foundation have truly made a significant impact on Earth Science education in the state of Oklahoma.

On behalf of the Board of Directors, it is an honor for me to extend our sincerest gratitude to you for your support of the Foundation. The Directors truly appreciate each and every Donor who has made one or multiple gifts. The part you play in the success of the Foundation is extremely important and your commitment to support the many students and teachers across the state of Oklahoma cannot be overstated. Working together, we are building for the future.

Warm personal regards,

Thomas C. Cronin

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The Foundation’s 2012 Legends Honorees were Frank Buttram (left, posthumously), Louis McGee Ford (center, deceased), and Lew O. Ward, III (right).

The Foundation’s 2013 Legends Honorees were Thomas E. Davis (above left), Ray H. Potts (above right), Samuel “Lloyd” Noble (below left, posthumously), and Samuel Russel Noble (below right, posthumously).