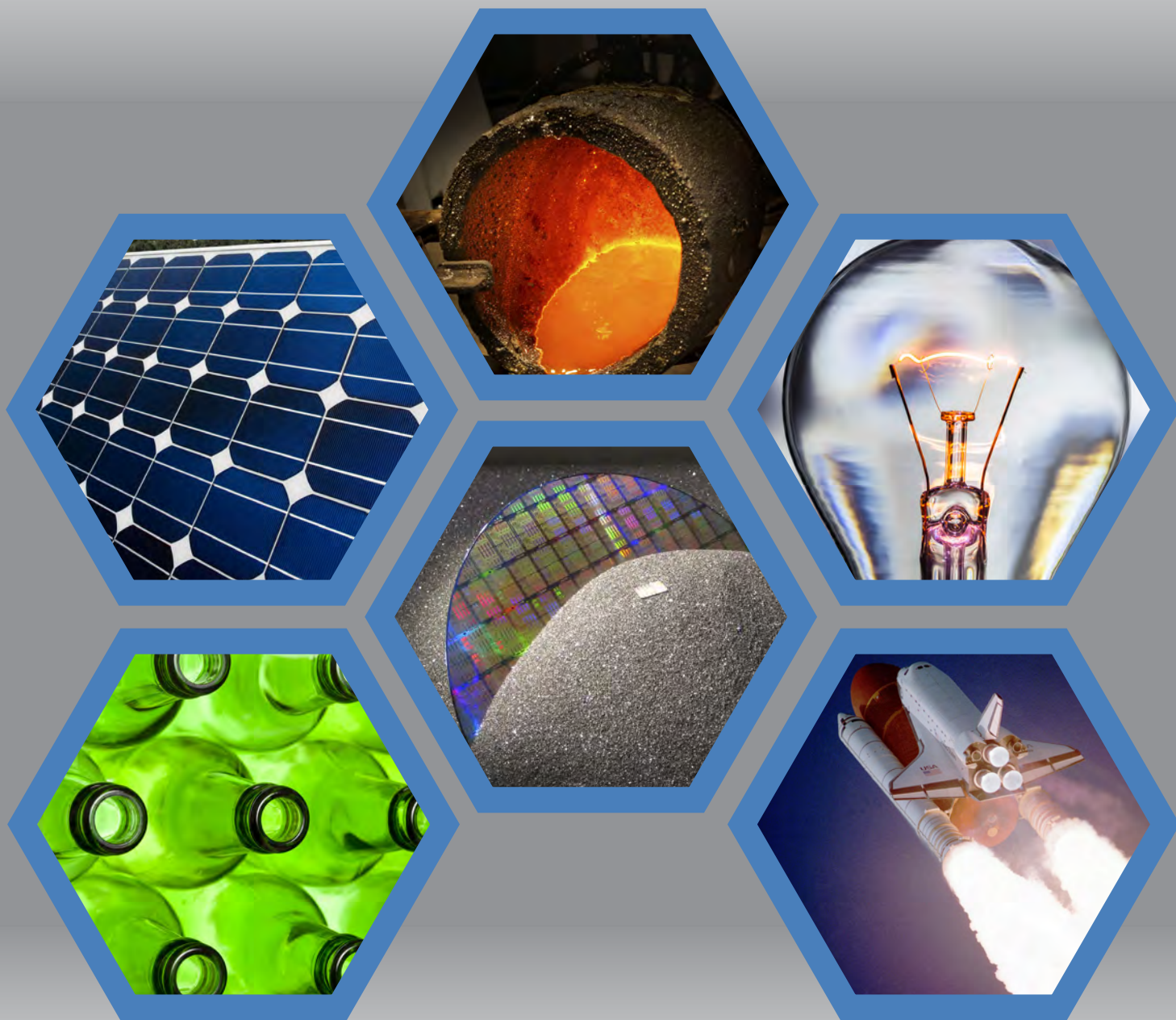


# CERAMIC AND GLASS INDUSTRY FOUNDATION

## 2015 Annual Report



### What's inside:

2015 Financial Summary

Program Updates

Thanks to Our Generous Donors

A Lifetime of Sharing and a New Way to Give

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*Development Director*

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*Outreach Manager*

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foundation.ceramics.org

## Message from the Board of Trustees Chair, Ted Day



I am pleased to share with you this summary of the key activities and accomplishments of The Ceramic and Glass Industry Foundation for 2015. With your help, the Foundation experienced great success in 2015! Your gifts made it possible for us to launch several

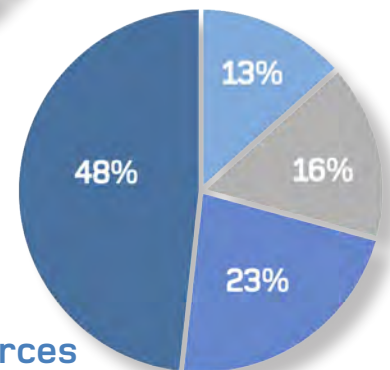
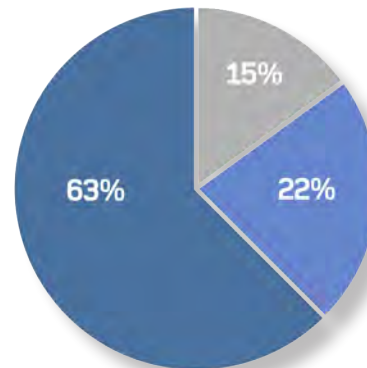
new programs to help attract, inspire, and train the next generation of ceramic and glass professionals. Thank you for your continued support and generosity!

Ted Day  
Chair, The Ceramic and Glass Industry Foundation

### 2015 Program Expenses

Student Exchanges and Travel Grants.....	\$ 6,000
Student Outreach .....	\$ 9,000
University-Industry Network.....	\$25,000

Total Program Expenses ..... \$40,000



### 2015 Funding Sources

Individuals.....	\$ 87,186
Foundations.....	\$103,500
Corporations.....	\$146,226
ACerS Matching Gifts.....	\$314,500

Total Funding..... \$651,412

*We gratefully acknowledge everyone who donated to The Ceramic and Glass Industry Foundation and ACerS' student programs in 2015! Your generosity enables us to make a difference in the lives of others and to attract, inspire, and train the next generation of ceramic and glass professionals.*

**Gifts of \$10,000+**

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Mo-Sci Corporation  
Mrs. Ann Moskowitz  
Semiconductor Energy Laboratory Co., Ltd.  
Dr. Charles and Mrs. Darlene Semler  
Theodore H. Church Foundation Inc.  
Dr. Shunpei Yamazaki

**Gifts of \$5,000 - \$9,999**

Anonymous  
Deltech, Inc.  
Dr. William and Mrs. Jill Fahrenholtz  
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Mr. Calvin and Dr. Mary Stevenson

**Gifts of \$2,500 - \$4,999**

ACerS Rocky Mountain Section  
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Morgan Advanced Materials  
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Dr. Kathleen Richardson  
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**Gifts of \$1,000 - \$2,499**

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**Gifts under \$100**

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We have made every effort to ensure the accuracy of these lists. If you discover an error, please accept our apologies and email Marcus Fish at [mfish@ceramics.org](mailto:mfish@ceramics.org) or call 614-794-5863.

**Remember that every dollar you donate to the CGIF will be doubled by an ACerS \$1,000,000 matching grant. For more information on making a gift to the Foundation, go to [foundation.ceramics.org/give](http://foundation.ceramics.org/give)**

## New Programs Launched in 2015

The American Ceramic Society created The Ceramic and Glass Industry Foundation to attract, inspire, and train the next generation of ceramic and glass professionals. In pursuit of our mission, the CGIF has launched a number of programs in the areas of student outreach, university-industry networks, student exchanges and travel grants, and the Ceramic and Glass Career Center.

### Student Outreach Programs

Introducing young people to the world of ceramic and glass materials is the goal of our student outreach programs. The CGIF began reaching out to students by providing teachers with **ACerS Materials Science Kits**, which were developed by the ACerS President's Council of Student Advisors (PCSA). The materials science kits provide the supplies and lesson plans needed to perform many fun and interactive materials science experiments that give students an introduction to the basic classes of materials.

Briana Richardson, AP chemistry and physical science teacher at Madison-Plains High School in London, Ohio, shares her experiences using the kits with her students. "These labs get the kids interested . . . it gets them excited. It helps them understand the things around them in the world a little bit better, which, hopefully, engages their interest enough that they want to learn about those things even more as they move forward in their education."

**Donate an ACerS Materials Science Kit to a school in your area!**  
**Download lesson plans and purchase kits online at [bit.ly/ACerSKits](http://bit.ly/ACerSKits)**

The Foundation also promotes interest in ceramic and glass science by taking part in **outreach events** such as regional science fairs and festivals. This spring, the CGIF is participating in the **4th USA Science and Engineering Festival in Washington, DC**, April 15-17, 2016, the largest and only national science festival. More than 350,000 attendees are expected at the Festival, and will engage in activities with some of the biggest names in STEM, hear stories of inspiration and courage, and visit hundreds of science demonstrations and exhibits. ACerS member volunteers and staff will demonstrate experiments



An ACerS volunteer demonstrates how a ceramic refractory brick can withstand high temperatures at the 2014 Science Festival

from the ACerS Materials Science Kits at the festival and expect to introduce thousands of young people to the magic of ceramic and glass materials!

The Ceramic and Glass Industry Foundation was also a **sponsor of the ASM Teachers Materials Camp**, held June 15 – 19, 2015 at The Ohio State University in Columbus, Ohio. The week-long, classroom and hands-on lab experience brought together science teachers from around the country and abroad to learn proven ways to introduce their students to materials science.

The CGIF donated ACerS Materials Science Kits to the teachers at the camp so they could use the demonstrations and experiments with their students. Post-camp evaluations revealed that 97% of participants will incorporate in their classrooms the experiments and concepts learned at the camp.



CGIF sponsored the ASM Teachers Materials Camp

## University-Industry Network

The CGIF created the **University-Industry Network** to encourage colleges and universities around the world to closely align themselves with industry leaders as they continue teaching key concepts in ceramic and glass science. The Network provides infrastructure and resources to university liaisons, known as key professors, and undergraduate students. Funding is available to each participating university to support programs and initiatives that deepen students' understanding of and interest in ceramic and glass materials.

"The University-Industry Network is designed to provide students with richer hands-on experiences in the ceramic and glass fields," says CGIF Development Director Marcus Fish. "It's vital that these programs get the funding and resources they need to help attract the next generation of professionals to work in the ceramic and glass industry."

The network is also designed to connect professors and students to industry partners who are passionate about recruiting the next generation through lectures, workshops, plant tours, donations of equipment and supplies, and internship/career opportunities.

Five universities signed on to pilot the University-Industry Network program: Alfred University (Alfred, NY), Missouri University of Science and Technology (Rolla, MO), Pennsylvania State University (State College, PA), Clemson University (Clemson, SC), and the Colorado School of Mines (Golden, CO).

## Student Exchanges & Travel Grants

The Foundation was pleased to provide travel assistance for four U.S. graduate students to attend the European Ceramics Society (ECerS) Summer School in Madrid, Spain in June 2015. The summer school took place at the Instituto de Cerámica y Vidrio, CSIC in Madrid and focused on ceramic and glass science and technology—specifically, applications to bioceramics and bioglasses.

"The ECerS conference and summer school is a life-changing experience for researchers at any stage of their career—it truly expands your horizons in ideas, collaborations, aspirations, and professional network," says YuHao Liu, a student at the University of Illinois, Urbana-Champaign, who attended the event.

Matthias Agne, a student at Drexel University, adds, "The knowledge and connections that I have gained as a result of the summer school and conference may provide opportunities for international collaboration and even a study abroad research opportunity."

A total of 67 students and 13 trainers participated in the three-day event. Students were able to also attend the ECerS XIV conference, which followed in Toledo, Spain.

This summer, the Foundation is expanding the program by offering travel grants to 15 students to attend the ECerS Electroceramics Summer School, which will take place June 23 - 25, 2016, in Limoges, France.



Kathleen Richardson, ACerS past president poses with Carmen Baudin, Instituto de Cerámica y Vidrio, Charlie Spahr, ACerS executive director, and students from the 2015 ECerS summer school

## Ceramic and Glass Career Center

To address the growing need for qualified ceramic and glass engineers, researchers, and scientists, the CGIF created the Ceramic and Glass Career Center—the premiere online resource for matching talented, qualified job and internship seekers with the best career opportunities at leading organizations in the ceramic and glass industry.

The Ceramic and Glass Career Center website at [careers.ceramics.org](http://careers.ceramics.org), provides a user-friendly interface and easy-to-navigate search tool that helps job seekers find the right opportunities. Companies and organizations can take advantage of the site's straightforward platform to post comprehensive job and internship openings to ensure they're targeting and attracting the most qualified candidates.

## A Lifetime of Teaching, Travel, and Sharing

Dr. and Mrs. Semler (Charlie and Darlene) have spent their professional lives involved in teaching--primary, university, and industrial. Dr. Semler's work has included research, publishing, and consulting in various fields of ceramic engineering. He has been a member of ACerS since 1963, and considers his purchase of a lifetime membership in ACerS many years ago – at \$240 - as one of the best investments he ever made!

Dr. Semler, an international expert in industrial refractories, explained that both his ACerS membership and his work in the ceramic field have been very rewarding, as well as fun. The Semlers have been able to travel the world, (all U.S. states and 102 countries), and are grateful for all of the wonderful experiences they have shared, many of which have related to ACerS activities and friends, as well as work projects. One nagging concern, however, “is that very few people seem to know what Ceramic Engineering is,” says Dr. Semler. “I have worked throughout the U.S. and in many countries during my 48-year career. And whether I am in the United States or in a foreign country, the term ‘Ceramic Engineering’ and its critical importance and countless, diverse opportunities, are little known by most people.”

Because of that, the Semlers have become generous supporters of the Ceramic and Glass Industry Foundation (CGIF), and its outreach work. Given



Darlene & Charlie enjoying dinner at the Bellagio Hotel in Las Vegas

the options of donating cash or stock, they opted to make a donation to CGIF in the form of stock, based on a conversation with Marcus Fish, Development Director of the Foundation. The Semlers found that the stock donation method of giving to CGIF was very efficient and easy, as Marcus had suggested. In addition to being a tax benefit, their stock donation was timed to quadruple the value contributed, based on a 4x multiplier that was available through ACerS prior to the end of 2015.

Both Dr. and Mrs. Semler have been educators who are firmly committed to teaching students and the public alike about the field of Ceramic Engineering. When asked why they would encourage others to believe in and support the work of the Foundation, they explained that the value of education cannot be overstated. “We in ceramics need to promote and support the field. Much of the time, people think that refractories involve boring, dirty, and uninteresting work, and that is absolutely wrong. The Foundation needs to get the word out so that

people know the truth.” Mrs. Semler added that it is never too early to introduce the basic concepts related to ceramic and glass science. “Children need to be taught early on about the many opportunities in different fields. And we need to provide a better understanding of the different aspects of engineering, and especially the many exciting and rewarding career paths available in ceramics and refractories.”

### Giving a Gift of Stock

A gift of appreciated stock or other securities has benefits for the CGIF and you. It provides the resources necessary to attract and train the next generation of ceramic and glass professionals. Also, it provides you with a charitable gift income tax deduction and avoids capital gain tax on appreciated securities.

If you would like to learn more about how easy it is to give a gift of securities to the CGIF, please contact Marcus Fish, Development Director at 614-794-5863.

