"As a society, we have to celebrate outstanding work by young people in science at least as much as we do Super Bowl winners. Because superstar biologists and engineers and rocket scientists and robot-builders... they're what's going to transform our society."

—President Obama
Over 95% of our daily lives are touched by science. From the air we breathe, to the food we eat and the products we buy, our lives are built with chemistry. Chemical Educational Foundation® (CEF) has worked tirelessly to ensure K-8 students understand the great impact chemistry has on their lives and the potential it can have on their futures.

I am proud to share that 2016 rounded out four years of explosive growth for CEF. In 2012, the You Be The Chemist® programs were introduced to just over 100,000 students. In 2016, we reached nearly 1 million learners, introducing the world of chemistry and the benefits of its power to society! For many years our Board has hoped to impact one million students and I'm thrilled to say your contributions made it possible to achieve this goal. We are sharing the joy of chemistry with so many young minds and expanding their understanding of the world around them in the process.

Every student impacted by our programs uses critical thinking skills and comes away with an increased awareness of chemistry's impact on their life. Through these successes, we continue to build and inspire future innovators to solve our world’s biggest questions. The next generation of scientists will be faced with everything from finding a cure for cancer to establishing a more sustainable society, and we hope to empower young dreamers to rise to the challenge.

CEF has surpassed even the internal goals the Foundation’s Board set for our programs this year, and that is due directly to your support. From the volunteers who give countless hours of their personal time to many who generously support our programs financially, to the countless others who introduce our programs to students and teachers in a multitude of ways; we say thank you. On behalf of our entire Board of Trustees, I am honored that you have entrusted us to fulfill this vital mission. As we look to the future, I hope that you’ll continue along this journey with us as we enhance science education among every generation, beginning with our youth.

Sincerely,

Bruce H. Schechinger
President, Chemical Educational Foundation
President, BHS Marketing, LLC
WHO WE ARE

The Chemical Educational Foundation® (CEF) is a national organization committed to enhancing science education! CEF was founded by the National Association of Chemical Distributors (NACD) in 1989 and became a distinct entity under our current name in 1997. Our popular You Be The Chemist® programs are geared towards grade K–8 educators and students. By focusing on these grade levels and emphasizing the central role of chemistry in all the sciences and in our everyday lives, CEF strives to inspire our future leaders to pursue science-related careers and to improve the overall understanding and appreciation of chemistry.

OUR STAFF

ERIC BYER
Secretary and Acting Executive Director
EBYER@NACD.com

SUZETTE BUCHER
Director of Strategic Partnerships & Engagement
SBUCHER@CHEMED.ORG

EMILY BELSON
Senior Manager, Communications & Marketing
EBELSON@CHEMED.ORG

LISETTE GALLEGOS
Senior Manager, STEM Content
LGALLEGOS@CHEMED.ORG

KATIE WETSTONE
Manager, STEM Content
KWETSTONE@CHEMED.ORG

AVERY KEESE
Manager, Outreach & Events
AKEESE@CHEMED.ORG

ARIEL SIMONS
Manager, STEM Education
ASIMONS@CHEMED.ORG

CAROLYNE BANKS
Coordinator, Outreach
CBANKS@CHEMED.ORG

ELLYN SCHUETTE
Coordinator, Outreach
ESCHUETTE@CHEMED.ORG
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As of January 1, 2017

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Thank you to the following for serving as trustees in 2016:

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Global Business Director
FMC Corporation
OUR IMPACT

942,835
total students reached across our programs

You Be The Chemist®
ESSENTIAL ELEMENTS™

1,705 educators
243,301 students reached

112 PROFESSIONAL DEVELOPMENT WORKSHOPS

You Be The Chemist®
ACTIVITY GUIDES

9,303 distributed
649,260 students reached

DISTRIBUTED ONLINE
+ FLASH DRIVES

You Be The Chemist Challenge®

664 schools
50,274 students participated

122 LOCAL CHALLENGE SITES

37 STATES
PLUS THE DISTRICT OF COLUMBIA AND PUERTO RICO

*numbers reflect the 2015-2016 cycle

942,835 total students reached across our programs

4 CHEMICAL EDUCATIONAL FOUNDATION | www.chemed.org
OUR PROGRAMS

You Be The Chemist® Activity Guides

CEF’s award-winning You Be The Chemist Activity Guides℠ offer a variety of exciting, hands-on science lesson plans and activities for grades K-8. Whether they are used in the classroom, at home, or at STEM fairs, the Activity Guides are a great way to bring hands-on science to students everywhere!

Activity Guides in Action

This year, CEF teamed up with a variety of partners to share its Activity Guides with communities across the country, bringing hands-on science to everything from museums to baseball games. CEF worked with Brenntag Great Lakes and Betty Brinn Children’s Museum in Milwaukee, Wisconsin, to host a Hands-On Chemistry day for over 100 preschool- and elementary school-aged students. The support of Clariant brought CEF’s Activity Guides to a Charlotte Knights’ baseball game in Charlotte, NC. Closer to home, CEF exhibited at Koshland Science Museum in Washington, DC, for a “STEM Family Night” and as part of Smithsonian magazine’s “Museum Day Live!”

Download the Activity Guides for FREE or purchase a flash drive at www.chemed.org.
CEF’s You Be The Chemist Essential Elements℠ professional development workshop program is designed to provide K–8 educators—our “essential elements” in education—with methods for teaching chemistry concepts through hands-on learning and real-world connections. This year marked exponential growth in the program with 112 workshops reaching 1,705 educators and a whopping 243,301 students!
This past spring, the South Cook County Local Challenge received a special appearance from Congressman Dan Lipinski who gave a welcome speech in which he praised the participants for their academic achievements and championed his support for STEM education programs.

At a press conference on education held by West Virginia’s Governor Earl Ray Tomblin, Governor Tomblin hailed the Challenge program for making STEM education accessible for young students. He also recognized The Dow Chemical Company and West Virginia State University for their efforts to bring the program to West Virginia and congratulated 2015 National Challenge West Virginia participant, Craig Flowers, for his achievement.
For the second year in a row, CEF’s National You Be The Chemist Challenge® Champion was invited to attend the White House Science Fair! Since 2009, the White House Science Fair has celebrated scientific accomplishments of young Americans. In April, Daniel Liu, the 2015 National Challenge winner, traveled to Washington, D.C. with his parents to attend the event. Daniel met President Obama, mingled with fellow young scientists, and even got a selfie with Bill Nye the Science Guy! When asked to describe his day in one word, Daniel chose “excellent,” and said that his favorite part of the day was shaking the President’s hand. We are thrilled that Daniel was honored for his accomplishment at the White House and hope future Challenge participants continue to be recognized in this exciting way.
In October of 2016, CEF held its first Content Development Conference in Washington, D.C. Members of the Content Development Team joined CEF staff to discuss the future development of CEF’s educational and scientific program content. The two-day conference included various discussions about methods to continue the development of content, specifically for the YBTC Challenge. CEF was glad to bring together such an experienced group of volunteers who are enthusiastic about enhancing science education nationwide.
COMMITTEES

FUNDING & INVESTMENT COMMITTEE
An experienced team of high-level industry executives who guide the Foundation in its current fundraising and investment activities and explore new funding opportunities.

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East Coast Sales Director, ICL Performance Products LP

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Consultant, All In Advisors, LLC

Mr. Terry Hill
President, APEX Distribution Consulting

Mr. Robert Moser
Senior VP-Global Accounts, Director of Global Affairs, Brenntag AG

Mr. Bruce H. Schechinger
President/CEO, BHS Marketing LLC

Mr. Robert Vallentine
Director, Corporate Citizenship, The Dow Chemical Company and President, The Dow Chemical Company Foundation

Ms. Lisa Vienna
Senior Director, Finance & Business Management, National Association of Chemical Distributors

Mr. Bart Whitaker III
President/CEO, Whitaker Oil Company

EDUCATION COMMITTEE
This group applies their education and science backgrounds in overseeing the educational aspects of CEF’s programs.

Dr. Ann Abraham
Kent State University

Ms. Theresa Comilla
Grosse Pointe Public Schools

Dr. Mike Davis
Truman College

Ms. Michele Flores
Deer Isle Stonington Elementary School

Dr. Brenda Nixon
Louisiana State University

Ms. Nancy Olenchek
The McCallie School

Dr. Paul Russo
Georgia Institute of Technology

Mr. Steven Scappaticci
Cranton Public Schools

Dr. Larry Sernyk
YBTC Coordinator and Certified Instructor

Ms. Janice Trainer
Christina School District

YOU BE THE CHEMIST CHALLENGE® ORGANIZER COMMITTEE
A group of educators and industry professionals who represent over 100 other Challenge Organizers in guiding You Be The Chemist Challenge® activities and program development.

Ms. Molly Borst
Science Education Specialist, BASF Corporation

Ms. Barbara Ferri
8th Grade Earth Science Teacher, John Glenn Middle School

Ms. Michelle Gilles
Marketing and Sales, The Dow Chemical Company

Ms. Kim Keith
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Mr. Douglas A. Nafis
Senior Development Specialist, UOP, LLC/A Honeywell Company

Mr. Bryan Page
Key Account Executive, Brenntag North America, Inc.

Mr. Greg Roop
Regulatory Compliance Manager, Horn
COMMITTEES

CONTENT DEVELOPMENT TEAM
The Content Development Team (CDT) is a group of volunteers including scientists, educators, and other science professionals dedicated to maintaining the scientific integrity of CEF’s content. CDT members work with CEF staff to develop and review program materials and to ensure that they meet the high-quality standard of CEF’s educational resources.

Elvin Alemán
Associate Professor, Department of Chemistry, California State University, Stanislaus, Turlock, CA

Lauren Amable
Staff Scientist, National Institute on Minority Health and Health Disparities, National Institutes of Health, Gaithersburg, MD

Christina Boville
Graduate Student, Department of Biochemistry, University of Colorado Boulder, Boulder, CO

Mike Davis
Professor of Chemistry & Education, Truman College, Chicago, IL

Dilip Dias
Senior Scientist, BD Technologies, Durham, NC

Marcia Gillette
Senior Lecturer in Chemistry, Indiana University Kokomo, Kokomo, IN

Thomas Holme
Professor, Chemistry Department, Iowa State University, Ames, IA

Steven Jacobs
Chief Scientist, Faraday Studios, Wichita, KS

Kathleen Koziski
Retired Chemist, The Dow Chemical Company, Salem, MA

Georgina Little
Instructor, Department of Chemistry & Physics, Southeastern Louisiana University, Hammond, LA

Johanna Mazlo
Adjunct Assistant Professor, Chemistry & Biochemistry, The University of North Carolina at Greensboro, Greensboro, NC

Steve Miller
Assistant Professor, Gustavus Adolphus College, Saint Peter, MN

Mike Murray
Retired Plant Biotechnologist, Dow AgroSciences, Rio Ranch, NM

Richard Myers
Director, Kemin Industries, Des Moines, IA

Douglas Nafis
Senior Development Specialist, UOP, LLC, Des Plaines, IL

David Norwood
Associate Professor, Department of Chemistry & Physics, Southeastern Louisiana University, Hammond, LA

Rishikesh Pandey
Assistant Professor, Department of Pediatric UConn Health, Farmington, CT

Chad Park
Analytical Biophysics Director, Department of Chemistry & Biochemistry, University of Arizona, Tucson, AZ

John Perona
Professor of Biochemistry and Biophysics Portland State University, Portland, OR

Rosalyyn Quiñones-Fernández
Assistant Professor, Department of Chemistry Marshall University, Huntington, WV

John Rakus
Assistant Professor, Department of Chemistry, Marshall University Huntington, WV

Sean Reid
Science Teacher, Walt Whitman High School, Washington, DC

Paul Russo
Professor of Materials Science and Engineering & Chemistry, Georgia Institute of Technology, Atlanta, GA

Thomas Sommerfeld
Associate Professor, Department of Chemistry & Physics, Southeastern Louisiana University, Hammond, LA

Conrad Stanitski
Professor of Chemistry, Franklin & Marshall College, Lancaster, PA

Yiftah Tal-Gan
Assistant Professor, Department of Chemistry University of Nevada, Reno, Reno, NV

Quan Yuan
Scientific Editor & Study Abroad Consultant, Bridge Bright Future Consulting LLC, Austin, TX
2016 FINANCIALS

FINANCIAL STABILITY FEEDS PROGRAM GROWTH

CEF is a not-for-profit 501(c)(3) charitable entity. Our financial position remained strong in 2016 thanks to a network of committed corporate and individual donors (listed on pages 13 through 16). Our programs are growing at an exponential rate, which would not be possible without the support of our valued contributors.

In 2016, over 85% of CEF’s total expenses were used for the development, implementation, and marketing of the You Be The Chemist® programs to enhance science education opportunities for students and educators nationwide.

<table>
<thead>
<tr>
<th></th>
<th>FY2016*</th>
<th>FY2015*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Revenue</strong></td>
<td>$1,554,315</td>
<td>$1,648,344</td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Programs – Outreach &amp; Development</td>
<td>$1,405,184</td>
<td>$1,131,006</td>
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<tr>
<td>Marketing &amp; Communications</td>
<td>$169,107</td>
<td>$183,939</td>
</tr>
<tr>
<td>Fundraising &amp; Administrative</td>
<td>$286,931</td>
<td>$250,572</td>
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<tr>
<td><strong>Total Expenses</strong></td>
<td>$1,861,222</td>
<td>$1,565,517</td>
</tr>
<tr>
<td><strong>Change in net assets</strong></td>
<td>($306,907)</td>
<td>$82,827</td>
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<tr>
<td><strong>Net assets, beginning of year</strong></td>
<td>$2,212,990</td>
<td>$2,130,163</td>
</tr>
<tr>
<td><strong>Net assets, end of year</strong></td>
<td>$1,906,083</td>
<td>$2,212,990</td>
</tr>
</tbody>
</table>

*The CEF fiscal year runs from July 1–June 30.
CORPORATE CONTRIBUTORS

CEF thanks the following companies and organizations for their generous support of CEF and our mission of fostering a greater understanding of the science and value of chemistry. This list includes companies whose contributions were received between January 1, 2015 and the present. Companies highlighted in yellow have distinguished themselves as members of the CEF President’s Club.

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Royal Chemical Company
Royale Pigments and Chemicals, Inc.
S.P. Morell & Company, Inc.
SA Services
Sal Chemical
Sea-Land Chemical Co.
LEVERAGING LOCAL SUPPORT

McCullough & Associates and Akrochem Corporation implemented successful Local Challenges in the Atlanta Metro Area and Summit County, Ohio, respectively, building relationships with schools, planning exciting events, and partnering with other companies and community partners to make their Challenges outstanding!

Thank You!
CEF thanks the following individuals for their generous support of CEF and our mission of fostering a greater understanding of the science and value of chemistry. This list includes individuals whose contributions were received between January 1, 2015 and the present.

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Robert C. Becker
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Bruce L. Whetter
Bart Whitaker III
Victoria Whitaker
Richard A. White
Betsy Witteman
Don Witteman

Thank You!
Thank you [to] the CEF staff for three amazing years of fun and inspiring work and opportunities… the You Be the Chemist Challenge® has opened many doors for me and has carved a path towards higher education and a profession in the sciences. I cannot thank you …enough."

–Garrett Thornton, three-time National Challenge participant from Oklahoma
“You Be The Chemist® opened his eyes to the amazing world of chemistry and the endless opportunities to find better solutions and solve real problems. He is more confident and more passionate to pursue a career in science.”

— You Be The Chemist® parent