

Elements

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Challenge Update

CEF Gears Up for National Competition

The National *You Be The Chemist* Challenge competition is fast approaching! Six students who have won Challenges at the local level will travel to Philadelphia, PA, for the June 3 competition where one contestant will win the title of National *You Be The Chemist* Challenge Champ!

CEF will fly each contestant and a chaperone to Philadelphia for two days of educational and fun activities and a Challenge! In addition to the academics of the Challenge, participants will be able to relax and have some fun as they tour the Chemical Heritage Foundation (<http://www.chemheritage.org/>) and visit the Franklin Institute (<http://sln.fi.edu/>) where they will be able to explore the many wonders of chemistry and other sciences.

Participants and winners are eligible to win some cool prizes!

Winner:

- \$2,000 Educational Savings Bond
- \$500 gift certificate to the Discovery Channel Store
- CHEM C100 chemistry kit

Runner-up:

- \$1,000 Educational Savings Bond
- \$250 gift certificate to the Discovery Channel Store
- CHEM C100 chemistry kit

All contestants:

- \$50 gift certificate to the Discovery Channel Store
- CHEM C100 chemistry kit

You Be The Chemist Challenges Take Off!

Three sites have successfully completed the local level round of the *You Be The Chemist* Challenge competition to date! Tracey Martinez, Maggie Leake, and James Brown, all 8th graders from the Chicagoland, Illinois Valley, and North-Central Kentucky Challenge sites, respectively, were named champions of their local Challenge. For all of their hard work, the contestants each won an educational savings bond. Each contestant will now advance to the National Competition in Philadelphia on June 3, 2005!

The two remaining Challenges, to be held in Texas and Illinois, will take place in the next few weeks!

2005 Vanguard Award Nominations

Help us honor an industry leader who elevates industry product stewardship awareness and endorses the benefits and safe handling of chemicals among the public, government officials, and members of the chemical industry. Please consider nominating someone you consider worthy of this industry-recognized Award!

What's New on the Web site

Educators and students will soon have two additional educational resources for chemistry education!

The kid's page of CEF's Web site, www.chemed.org/kids, now boasts a new Did You Know section. This new section will educate users on how common chemical reactions occur, such as why onions make you cry or why sugar tastes sweet.

As an addition to the *You Be The Chemist* kit, CEF will post Assessment Sheets on the Web site. Each Assessment Sheet will directly correspond with each of the experiments available in the kit. This tool will offer educators an easy way to evaluate their students' understanding of key objectives, concepts, and terms covered in each of the exciting experiments!

CEF plans to strengthen the network of organizations with which it works by linking to their Web sites on CEF's site as a resource for CEF contributors and educators alike. These organizations will also link back to CEF to broaden the network of those working to improve the "chemistry with our communities." Over the next month such two-way URL connects are planned with SOCMA & CACD.

CEF Honors Chemical Industry Leader

Each year CEF presents the Vanguard Award to honor a leader in the chemical industry. The Award is given to an individual who actively provides his or her community with outreach tools that encourage chemistry education, explain the benefits of chemicals, and educates on the importance of chemical safety awareness.

The 2004 Vanguard Award winner, Michael Campbell, Chairman, President & CEO of Arch Chemicals Inc. and 2005 President of the American Chemistry Council, exemplifies what the Award is all about. Mr. Campbell and Arch Chemical are true leaders in the industry and are making a difference in their community to advance a greater understanding of chemistry, the benefits of chemicals, and the importance of chemical safety awareness.

Mr. Campbell's commitment can be seen in his work on behalf of the chemical industry to provide educational programs and publications to many constituents, and also in his creation of educational and industry partnerships in Arch communities nationwide. His educational outreach efforts include sponsoring chemistry curriculum enhancement, securing funding for teacher development, distributing educational material on the benefits of chemistry to partnering schools, and establishing scholarships for students pursuing a career in science.

Mr. Campbell was presented the Award in December 2004 at the Annual Meeting of the National Association of Chemical Distributors in Dana Point, CA. In his acceptance speech, Mr. Campbell credited CEF with its product stewardship bulletins and *You Be The Chemist* kit for enabling Arch to provide teachers, students, first responders, and citizens in Arch communities with valuable educational materials.

Mr. Campbell, like the list of Vanguard Award winners before him, has willingly made himself personally accountable for the image and relationship of the chemical industry and the community. The results of Arch's outreach endeavors under his leadership are impressive.

Previous Vanguard Award Winners

1995- John Johnstone, Retired CEO and Chairman of the Board, Olin Corporation

1996- John R. Hess, III, Chairman, John R. Hess & Company, Inc., and

Jean Bélanger, Retired President, Canadian Chemical Producer's Association

1997- Robert A. Roland, Retired President, Chemical Manufacturers Association

1998- Ernest W. Deavenport, Chairman & CEO Eastman Chemical Company

1999- A. Wayne Tamarelli, Chairman & CEO of Dock Resins Corporation, and

G. Stephen Robins, President of G.S. Robins and Company

2000- J. Roger Hirl, President & CEO of Occidental Chemical Corporation

2001- Mark Kramer, Senior Vice President - Industrial Chemicals East, Vopak USA

2002- M. Blouke Carus, Chairman of Carus Corporation, and

Audley C. Harlow, (ret.) Executive Director of the Canadian Association of Chemical Distributors

2003-Laura Dornbusch, President, Expo Chemical Company

2004-Michael Campbell, President, Chairman, & CEO, Arch Chemicals Inc.

2005 Award Schedule

We encourage you to get members of your community involved and win some awards! Call Laurel Brent for details at 703/527-6223 ext. 106.

You Be The Chemist Challenge Competition

June 3 – National Challenge Competition,
Philadelphia, PA

September 1 – 2005 – 2006 Challenge Competition
Begins

Community Awards for Chemical Safety

March 14 – Submissions Accepted

July 25 – Deadline for Submissions

August 18 – Winners Announced

September 15 – Award Presentation, San Jose, CA

You Be The Chemist Lesson Plan Competition

March 14 – Submissions Accepted

October 21 – Deadline for Submissions

November 14 – Winners Announced

Vanguard Award

June 13 – Submissions Accepted

October 10 – Deadline for Submissions

November 2 – Winner Announced

December 1 – Award Ceremony, Miami, FL

Please e-mail us if you would like information on this year's competitions at www.chemed.org.

New Bulletins Are Coming Soon

Soon you will be able to check out the two newest additions to CEF's Bulletin series!

The updated CEF *Solutions* Bulletin, *The Safe Handling and Disposing of Paint*, offers tips consumers should keep in mind as they purchase, store, and dispose of household paint. The Bulletin also describes the proper way to remove lead paint. CEF created this Bulletin in partnership with the National Paint and Coatings Association.

CEF's new *Product Stewardship* Bulletin, *Responsible Packaging Management*, describes best practices associated with the proper emptying and post-use management of empty industrial packaging for chemical distributors. This bulletin was created in partnership with the Reusable Industrial Packaging Association.

The new Bulletins will be available for distribution in your community in late March! Contact Jennifer Boyd for more information at 703/527-6223.

Tell Us About It...

CEF is interested in hearing from you! We'd like to hear the great ideas you have on how to educate your community on the benefits of chemicals, chemistry, and chemical safety. We're also here to help – let us know if you have an event that you would like us to help promote in your local area! We are always eager to find new ways to help you utilize CEF programs.

Board of Trustees Update

Pam Butcher Named as Acting President of CEF

As most of you are aware, Patrick J. Marantette, President of CEF and the E.T. Horn Company, recently suffered a serious stroke. He continues to make progress in his recovery, but the indication is that he will not be able to return to work for several months. In the interim, Pam Butcher, CEF's Vice President, and Business Vice President, Specialty Chemicals with Dow Chemical, has generously agreed to serve as the Acting President of CEF in Pat's absence. We are extremely grateful for Pam's continued commitment to the Foundation.

Welcome to the Board

CEF would like to welcome three new members to the Board of Trustees!

Ms. Lauren Anderson, Customer Service Manager and eBusiness Leader, Dupont Flouoroproducts, Wilmington, Delaware

Lauren has been with DuPont for more than twenty years. She began her career there as a chemist and has also served as Senior Product Specialist for Refinishing, Senior Consulting Engineer for Nylon Intermediates, and Section Supervisor for the Engineering Field Program. In March 2004, she assumed leadership roles in customer service and eBusiness. Lauren is a member of CEF's Program Committee and has been involved in numerous outreach and community service programs to educate children.

Mr. Stephen J. Jones, Vice President and General Manager, Industrial Chemicals Division, Air Products and Chemicals, Inc., Allentown, Pennsylvania

Steve joined Air Products in 1992 as an attorney in their Law Group, representing a number of different business areas and functions, including the Energy and Process Industries Division, of which he was later appointed Area Manager and in charge of the company's profitable hydrogen activities on the West Coast. Steve assumed his current position in December 2003 and is responsible for the profitability of the methlamines and syngas polyurethane intermediates and higher amines businesses on a global basis.

Mr. Edmund "Ted" Burke, President, Callahan Chemical Company, Palmyra, New Jersey

Ted joined Callahan Company in 1976 as a salesperson. He has held several positions in the firm since that time including customer service, sales management, Branch Manager, and Vice President. He was elected President in September 1994. Ted is an active member of the National Association of Chemical Distributors (NACD) and recently served as President of the NACD Northeast Region.

The CEF staff looks forward to working with you!

CEF on the Road

To expand our promotion of programs and publications, the CEF staff has hit the road to attend educational and chemical industry conferences in 2005! The following list highlights a few of the conferences we have attended in 2005.

INFORMEX®, Las Vegas, Nevada, January 17-20: The CEF staff kicked off 2005 by attending this conference sponsored by the Synthetic Organic Chemical Manufacturers Association (SOCMA). CEF staff were able to display our programs and publications to upwards of 4,000 attendees and conduct meetings with trade publications. Thanks to SOCMA and its staff for their generous support and help at the conference! Joe Acker, SOCMA's President, is a Trustee of the Foundation, and SOCMA is a valued contributor to the Foundation's educational efforts.

Association of Teacher Educators (ATE), Chicago, Illinois, February 12-16: More than 2,000 educators from around the nation attend this annual conference for teachers who teach future teachers. ATE was founded in 1920 and is the only national organization devoted solely to the improvement of teacher education for both school and campus-based teacher educators. ATE members represent over 650 colleges and universities, 500 major school systems, and the majority of the states' Departments of Education.

American Association of Colleges for Teacher Education (AACTE), Washington, DC, February 20-23: Administrators of educational departments from universities around the country attended this meeting looking for materials to aid their faculties as they educate future teachers. AACTE is a national voluntary organization, based in Washington, DC, of colleges and universities that work to prepare the nation's teachers and other educational personnel.

Association for Childhood Education International (ACEI), Washington, DC, March 23-26: Teachers, parents, and others concerned with promoting good educational practices for children attend this meeting in Washington, DC. The *You Be The Chemist* kit and CEF's other educational programs and publications will be on exhibit alongside other exhibitors who are also dedicated to the education and well-being of children in school, at home, and in the community!

Link Your Community to CEF

Further improve your community relations by linking CEF's Web site, www.chemed.org, to your Web site! As a contributor to the Foundation, you can easily introduce customers and community members who visit your company's Web site to your involvement in educational outreach initiatives on behalf of the chemical industry. Information on the benefits of chemistry and chemicals is just a click away! Call Jennifer Boyd for more information at 703/527-6223 ext. 116.

Thank You! *You Be The Chemist* Kits Distributed Nationwide

CEF thanks the following educational organizations and Foundation contributors for their active support with the distribution of the *You Be The Chemist* kit through schools and other programs in their communities!

Elementary students in California's Norwalk-La Mirada school district were given a unique introduction to the fascinating world of chemistry thanks to a donation of YBTC kits by the **E.T. Horn Company** of La Mirada, California.

Charkit Chemical Corporation worked with the Johnston County, North Carolina School System to distribute over 700 kits! Every 3rd – 8th grade educator in the county received a kit. To learn more, see page 5.

The **Cumberland County School System**, headquartered in Fayetteville, NC, distributed 60 YBTC kits to the K-5 classrooms in area schools. The kits were distributed in support of a Chemical Hygiene Plan program and used as a fun and educational way to demonstrate to students the importance of chemicals and chemical safety awareness!

Approximately 2,800 students in Pennsylvania now have a chance to become junior chemists thanks to a YBTC kit donation made by **XL Insurance's** environmental underwriting unit. The Exton, Pennsylvania-based office presented the kits to Downingtown and Lionville Middle Schools.

Dow Chemical will soon distribute 300 YBTC kits nationwide! Educators in twelve communities where Dow operates will receive the YBTC kits for use in their Hands on Science Program. Through this program, Dow sponsors distribution of chemistry kits and necessary supplies to facilitate the teaching of and encouraging an interest in chemistry.

Dupont sponsored the distribution of 50 YBTC kits to K-8th grade schools that participated in the 14th Annual Dr. Martin Luther King, Jr. Days of Celebration! The schools, located in the Delaware Valley, participated in art, essay, and science contests for elementary and secondary grade students. The various contests sought to increase the involvement of the community and to promote the educational development of youth through science and technology. The celebration was capped off by a key note speech delivered by Dr. Mae Jamison, the first African-American woman in space.

Others who have distributed kits in their community include:

- **Air Products and Chemicals, Inc., Allentown, PA**
- Ashland Chemical, Commerce, CA
- Chesterton Montessori School, Chesterton, IN
- **Columbus Chemicals, Columbus, WI**
- D & F Distributing, Inc., Dallas, TX
- Elk Island Public Schools, Partners for Science Program, Alberta, Canada
- Harbor Pointe Primary, Mukiliteo, WA
- Kansas Science Teachers Association, Wichita, KS
- Minnehaha Academy, Minneapolis, MN
- Polyguard, Inc., Tampa, FL
- **PVS Nolwood Chemicals, Detroit, MI**
- Saint Stephen's Episcopal School, Bradenton, FL
- Science Companion, Salinas, CA
- Vivion Inc., San Carlos, CA

Let us know how kits are being utilized in your area. We'd love to write about it!

The organizations in **bold** are Foundation contributors.

And the Winners Are...

What do Sea Blubber, a Safety Safari, and Glue Adhesives have in common? They are all winning lesson plan topics in the 2004 *You Be The Chemist* Lesson Plan Competition!

CEF awarded five innovative educators for creative lesson plans, appropriate for kindergarten through eighth grade audiences, submitted in one of three categories: Scientific Inquiry, Structure of Matter, and Safety and Recycling.

Educators submitting first-place lesson plans received \$1,000 and runners-up in each category received \$500 in prize money! Their award winning lesson plans are posted on the CEF Web site at www.chemed.org.

The purpose of the competition is to encourage the dissemination of some of the best chemistry-focused lesson plans out there! Each year the Foundation rewards the best of this fun and exciting collection and posts them as a resource for other educators as well!

The competition also serves as a great way for the chemical industry to get involved in their communities and help educators engage students in exciting science learning experiences. Let chemistry educators in your community know how much CEF values their creativity and innovative teaching methods! **See page 2 for a list of 2005 Competition dates!**

Scientific Inquiry Awards

- **1st place: Tammy Sergejev**, Chalfont, PA, *Blubber in Sea Mammals*
- **Runner-up: Deborah Reinemann**, Dover, MA, *A Fair Test*

Structure of Matter Awards

- **1st Place: Mary Harris**, St. Louis, MO, *All About Water*
- **Runner-up: Kenneth O'Konis**, South Windsor, CT, *A Sticky Situation – The Chemistry of Everyday Glues and Adhesives*

Safety and Recycling Award

- **1st place: Karen Skophamer**, Fort Dodge, IA, *Safety Safari*

What's Being Said About CEF...

"CEF offers some really great programs that not only encourage students to study chemistry and teachers to teach the subject, but also parents to become more knowledgeable about the sciences in general."

*Ms. Ginger Shattuck, Superintendent
Norwalk-La Mirada Unified School District
Norwalk, California*

"Through interaction with the Chemical Educational Foundation and use of its programs, YOU can make a difference: One student, one teacher, one parent, and one community at a time!"

*Dr. Aziz Asphahani, President/CEO
Carus Chemical Company
Peru, Illinois*

"I believe students need to know as much about items in their physical world as they can. Through the tools available in the study of chemistry, students can make connections they never saw before. I appreciate the opportunity CEF provides by sponsoring these programs. They certainly encourage creative and constructive approaches to chemistry education."

*Mr. Ken O'Konis, 8th Grade Educator
South Windsor High School
South Windsor, Connecticut*

"The Chemical Educational Foundation also provides valuable educational and community outreach tools. I sincerely believe, for example, that the CEF's *You Be The Chemist* kit for students and teachers is simply the best curriculum enhancement guide in the entire industry."

*Mr. Michael Campbell
President, Chairman and CEO, Arch Chemicals, Inc.
President, American Chemistry Council*

Are You Up for the Challenge?

We want your area represented in the 2005-2006 *You Be The Chemist* Challenge! Get organizations and schools in your community involved in this exciting educational competition!

Contact Laurel Brent or Jennifer Boyd at 703/527-6223 to find out how your area can host a local Challenge!

Contributor Spotlight

Charkit Chemical Corporation: Chemistry Education Hits Home

Johnston County, NC, is overflowing with *You Be The Chemist* (YBTC) kits! More than 700 3rd-8th grade educators were provided with CEF's YBTC kit and can now engage the county's students in the exciting chemistry learning experiences found in this easy-to-use educational tool!

Distribution of the kits was organized by Charles and Bryant Hinnant, President and Vice President of Charkit Chemical Corporation of Darien, CT. The brothers, who grew up in Johnston County, are related to a long line of educators and administrators in the Johnston County school system.

Like all CEF contributors and National Association of Chemical Distributors members, Charles and Bryant received a kit last August upon its release. They immediately thought of their former school system and contacted the Johnston County School Board. "We recognized right away the value of the YBTC kit as a tremendous teaching aid for science teachers," stated Bryant Hinnant. His brother, Charles, added, "Being able to bring the YBTC kit message to 15,000 school children as part of Charkit's Community Awareness program is a very gratifying experience."

Designed for grades K-8, the YBTC kit includes 30 lesson plans that explore many different chemistry topics. There are engaging activities, projects, and grade level extensions that correspond with each lesson plan, and an animated DVD featuring scientists Kelvin and Newton as they guide viewers through important chemistry concepts, lab safety, and historical discoveries through lively and entertaining experiments.

Johnston County is a large rural county east of Raleigh and the Research Triangle Park area of North Carolina. The population of the area is rapidly increasing with new residents being drawn to the area by the proximity of the Research Triangle Park and the success of the county's school system. Student achievement in the district ranks within the top ten percent of North Carolina school districts.

Like all school systems, Johnston County school administrators constantly seek new ways to interest students in learning, especially by providing educators with hands-on teaching tools such as the YBTC kit. "In today's educational world, the emphasis must be on 'authentically engaging' learning opportunities for the student learner. The YBTC kit provides this authentic engagement," stated Johnston County Secondary Curriculum Coordinator Dr. Chris Godwin. He added, "Through its inquiry-based science approach, students are actively engaged in exploring their world. The Johnston County Schools are excited to provide all 3rd-8th science teachers with this program and look forward to observing our students as 'real' learners."

In addition to distributing YBTC kits, Charkit also sends out CEF Bulletins to local organizations and schools, contributes Emergency Response Guidebooks to local fire departments, and donates used office equipment to civic and non-profit organizations.

On March 21, CEF Managing Director John Rice and Charkit President Charles Hinnant traveled to Johnston County and met with Dr. Godwin and educators who received the kit.

A long-time supporter of the Foundation, Charkit offers a wide variety of products to the imaging, personal care, food, flavor, fragrance, water treatment, metal treatment and pharmaceutical industries, as well as producing fine and specialty chemicals. The company also offers custom sourcing, manufacturing, technical assistance, and product development services.