

The Communicator – November 2012

In this issue:

- Thank you for SHARE-ing
- Craig Taatjes and David Osborn receive David A. Shirley Award
- It's time to share the holiday spirit
- Spread the spirit of Thanksgiving
- Congressman Dan Lungren visits Sandia/California
- Sandia/CA and LLNL receive NNSA Pollution Prevention Awards
- A security reminder

Thank you for SHARE-ing

A huge thank you to everyone who participated in this year's SHARE campaign. So many people contributed in a variety of ways – serving on the planning committee, organizing the kickoff and SHARE Thursdays, sharing personal stories about nonprofit agencies, attending SHARE Thursdays to hear those stories, and contributing financially. Together we've raised \$2XX,XXX, which includes over \$3,800 through the silent auction and tamales sales to benefit Make a Wish Foundation. In addition, outside of your financial contributions, we've collected 132 coats, 13 bicycles and 10 sleeping bags to benefit One Warm Coat, Cycles for Change, and the Livermore Homeless Shelter, respectively.

Share coordinators Stephanie Beasley (8521) and Cathy Branda (8623) would like to acknowledge the contributions of: LIST TO COME.

[Note to R&A reviewers: the exact number raised and people to be acknowledged will be filled in prior to publication]



Rick Stulen addresses the site at the SHARE kickoff.



Julie Fruetel (8114) visits with a canine representative of Valley Humane Society.

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Craig Taatjes and David Osborn receive David A. Shirley Award

At the 2012 Advanced Light Source (ALS) User's Meeting, Combustion Research Facility researchers Craig Taatjes and David Osborn (both 8353), Carl Percival of the University of Manchester, and Dudley Shallcross of the University of Bristol were awarded the David A. Shirley Award for Scientific Achievement. The award recognized their accomplishments in making the first direct measurements of the reactions of Criegee intermediates, and showing that their impact on tropospheric chemistry and climate may be substantially greater than previously assumed.

The research team conducted studies of gas phase Criegee intermediates using a multiplexed photoionization mass spectrometer (MPIMS) at the ALS. Percival explained in a presentation of the research on that "scientists have always postulated that Criegee intermediates play a major role, but this was the first direct measurement of rates of reaction and product."

This work was described in an article titled *Direct Kinetic Measurements of Criegee Intermediate (CH_2OO) Formed by Reaction of CH_2I with O_2* that was published in the Jan. 13, 2012 issue of *Science*. See the Jan. 27, 2012 issue

[<http://www.sandia.gov/news/publications/LabNews/archive/12-27-01.html>] of *Sandia Lab News*.

David Shirley (now retired) was a Professor of Chemistry at UC Berkeley and Director of LBNL from 1980 to 1989, and was instrumental in having the ALS built. The David A. Shirley Award is given for Outstanding Scientific Achievement at the ALS.

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It's time to share the holiday spirit

The Holiday Spirit Gift and Grocery Campaigns are held during the holiday season in each year as an opportunity for Sandians and contractors to give to those less fortunate in our local communities. It is a part of the Sandia Helps and Reaches Everyone (SHARE) activities held at the site each year.

The **Holiday Spirit gift** campaign kicks off today. Sandia employees and contractors are invited to donate holiday gifts for those less fortunate in our local communities.

Holiday Spirit cards are available through Friday, Nov. 16 in the building 915 (DISL) lobby from 11:30 am to 1 pm each day. Each card is a wish list from a needy individual or family. Participants, either as individuals or teams, buy and wrap gifts from the card.

This year gifts should be returned to mobile 29/106 (Avis mobile conference room) between Nov. 26 and Dec. 5 where they will be stored. This is a change from previous years to alleviate the need to move the gifts from a drop-off location to a storage site. The gifts are then delivered to the appropriate agency in time for the holiday season.

Agencies that usually participate in the Holiday Spirit gift campaign are: the Boys and Girls Club, Tracy; Friends Outside, Modesto; Livermore Families, Livermore; and Marilyn Avenue Food Bank, Livermore.

The **Holiday Spirit grocery** campaign kicks off on Nov. 12 and will run through Dec. 14. This year's grocery campaign encompasses two separate food drives, one for Thanksgiving and another for Christmas.

Our goal is to collect one ton (2,000 pounds) of food for the needy. It's as easy as dropping a sack of food in a decorated drop-off receptacle located at most entry points throughout the site. The food will be given to several food pantries in the Livermore and San Joaquin valleys.

Items most needed: canned meats, fruits, vegetables packaged rice, beans, instant potatoes, stuffing mix, dry milk, soups, prepared meals (canned or instant), sugar, flour, bake mix, pasta, sauces, snacks, crackers, cookies, cereals, baby food, and formula.

Don't feel like doing the grocery shopping? Here's the plan for you.

- 1) Make a cash donation to the Holiday Spirit Grocery Campaign Account at the Sandia Credit Union Account# 2283860-90-04.
- 2) Drop in your extra coins in a *Care with Coins* container located in the 915 Sandia Café Lounge in Building 915 (DISL)

Questions? Call Karelyn Baker (8210) at 4-3597 or Kristy Sibert (8522) at 4-2075 for the gift campaign; or Mike Kurtzer (89551) at 4-4590 for the grocery campaign.

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Spread the spirit of Thanksgiving

On Nov. 15, you have the opportunity to make a family's holiday season a little brighter with the annual "Bring a Turkey to Work" drive. Frozen turkeys can be dropped off between 6 am and 1 pm at post 1. The donated turkeys will go to Shepherd's Gate [<http://www.shepherdsgate.org/>] and local military families. Questions? Contact Michele Clark (8005) at 294-2885.

Heather Egtervanwissekerke (8511) is leading the site's first ever basket brigade to help military families in need celebrate Thanksgiving. Volunteers are needed on Saturday, Nov. 17 to help assemble the baskets, which will feed 4-6 people. Donations are also needed to fill the baskets: turkey pans, frozen turkey, laundry baskets, canned goods (cranberries, green beans, corn), bags of potatoes, ready to eat dinner rolls, dessert mix, instant coffee, Martinelli's, juice boxes, bags of apples or oranges and stuffing mix.

"Since this is our first year, we've started with the modest goal of providing five deserving families with dinner baskets," says Heather. "Can you imagine the relief they will feel when they open their door to a basket filled with all the fixings for their Thanksgiving meal? We plan to do all we can for our military community during the holiday season. If we are able to make more than five baskets, that will be a tremendous success for our first year."

Packing day is Saturday, Nov. 17 from 10 am to 1 pm at 444 Benjamin Place in Manteca. Please RSVP for Wednesday, Nov. 14 to Heather (4-3160) or Michele (4-2885).

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Congressman Dan Lungren visits Sandia/California

On Sept. 5, Congressman Dan Lungren (CA-3rd) visited Sandia/California to see how the Department of Homeland Security is leveraging Sandia's capabilities, specifically in cyber, critical infrastructure, and biodefense.

First, Lungren learned about several of Sandia's cyber programs. Casey Deccio (8966) explained his visualization tool DNSViz, which helps networking administrators within the federal government and global IT community better understand and troubleshoot Domain Name System Security (DNSSEC). Robert Hutchinson (8960), program manager for cyber infrastructure security, explained how cyber researchers create virtual environments to study malicious computer networks in the Internet Environment Test Facility.

Pablo Garcia (6920) gave a briefing on how Sandia uses science and technology for disaster response, including the National Infrastructure Simulation and Analysis Center (NISAC) and Sandia's Standard Unified Modeling, Mapping and Integration Toolkit (SUMMIT), which FEMA has used for several National Level Exercises.

At the Applied Biosciences Laboratory, Cathy Branda (8623) gave an overview of Sandia's biodefense work. Lungren also saw prototypes of the Rapid Threat Organism Recognition (RapTOR) tool and SpinDx, a lab-on-a-disk platform with potential applications in radiation biodosimetry and toxin diagnostics.

Lungren represents the Sacramento area, chairs the Committee on House Administration, and sits on the House Committee on Homeland Security and the House Committee on the Judiciary. He has served in the House of Representatives for 18 years, first representing a Southern California District from 1979-1989 and then being elected to represent California's 3rd District, the seat he now holds, in 2004. He served as California Attorney General from 1991 to 1999.



Duane Lindner (8120), left, discusses Sandia's work in chemical and biological security. On Lungren's right is Peter Davies (8100), director of Homeland Security and Defense System. (Photos by Dino Vournas)



Robert Hutchinson (8960), program manager for cyber infrastructure security, explains how cyber researchers create virtual environments to study malicious computer networks in the Internet Environment Test Facility.

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Sandia/CA and LLNL receive NNSA Pollution Prevention Awards

At the Sandia/California Farmer's Market in September, Karin King, environmental engineer in the Laboratory Site Office (LSO), presented four National Nuclear Security Administration (NNSA) Pollution Prevention (P2) awards to Sandia and LLNL. The recipients were the Fresh @ the Labs project, the hydrogen shuttle bus, administered by the Office of Energy Efficiency and Renewable Energy's Fuel Cell Technologies Program; Innovative Green Cleaning at the National Ignition Facility, and the High Performance Computing Innovation Center.



Karin King presents the NNSA P2 awards. (Photos by Randy Wong)



Bob Glass (LLNL), on left, Lenny Klebanoff (8367), center, two members of the Hydrogen shuttle bus project team with Phil Hill, NNSA Technical Deputy for Safety, Security and Operations. This program was administered by the Office of Energy Efficiency and Renewable Energy's Fuel Cell Technologies Program, and supported the early market adoption of these technologies.



Sandia and LLNL collaborated on Fresh@ the Labs that brings locally sourced fruits, vegetables, nuts, grains, and more to both sites at a monthly Farmers Market. The pilot effort saw more than 2,000 attendees with 20 local vendors.

A security reminder

Earlier this summer, protestors breached the perimeter of the Y-12 facility at Oak Ridge, Tenn. and vandalized the exterior walls of sensitive facilities there. This incident, as well as other threats specific to LLNL and even SNL/CA, has put security across the DOE complex in the spotlight and underscores the importance of a robust security posture that involves all members of our workforce in the protection of the assets entrusted to the national labs.

Today business, public, and government sector security organizations increasingly rely on the assistance of employees, visitors, and passers-by to provide timely security and emergency response. By virtue of the knowledge they have of the environment in which they live and work, the likelihood that members of our workforce would be the first to detect anomalies within their sphere of operations is extremely high.

Post 9/11, the nation upgraded its security awareness and response in all areas, in large part, by involving everyone in the security effort. No one knows your area better than you do. Your attention to your surroundings could help prevent a security or safety incident. Sandia's protective force asks each of you to be involved.

Should you see or hear anything that "doesn't look or sound quite right," or if you have that "I'm not sure" feeling about any anomaly within your area or anywhere around the site, notify your supervisor and call the Central Alarm Station at 4-2300. Thank you!

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