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**SAFETY TEAMS:**  
AN IMPORTANT KEY TO CULTURE CHANGE!  
BY CHUCK PAULAUSKY, CHMM *Page 6*

DECEMBER / JANUARY 2014/15 Vol 12 No. 6

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## KEYNOTE SPEAKERS

Feb. 3<sup>rd</sup> Charles E. Ester, Manager, Water Resource Operations, Salt River Project.  
TOPIC: "Update on AZ Drought Conditions and Impacts of the Monsoon Flooding in AZ"  
Feb. 4<sup>th</sup> Jim Paxon, AZ Game & Fish and Spokesman for the AZ State Forestry Div.  
TOPIC: "Living with Fire"

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(see EPAZ website for full agenda):

Feb. 3<sup>rd</sup> - Barton Day on EPA's Final Rule for Revised Solid Waste Definition; ADEQ Division Updates, Achieving RCRA Compliance; ADEQ's Site Investigation Guidance Manual; Waste Treatment for Mexican Metal Plating; Revised Ozone Standard & Impact on Offsets Generation; Greenhouse Gas Regulation of Existing Power Plants; ADEQ Pollution Prevention Program's Current & Past Successes; Small Community Environmental Protection Plan; Innovative Remediation Technologies.  
Feb. 4<sup>th</sup> - Highway HazMat Lessons Learned; Risk Assessment Methodology for Chemical Facility Protection; Tier 2 Updates; FS and Treatment Design for Reopening a Uranium Mine; Successful Waste Minimization/P2 Strategies for Chemical-Based Industries; Lessons Learned on a variety of topics: RCRA & TRI Audits, Maricopa County Air Rule 241, OSHA Updates; Environmental Crime 101: Investigation Techniques, Methodologies, & Future Trends.



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We will also be holding two training courses and one CEU course prior to the meeting on Sunday, February 22, 2015. There will be four additional training courses will be held after the meeting, starting on Wednesday, February 25, 2015. The meeting will run concurrently with our Exhibitor Expo.

SAVE THE DATE

2015 SAEMS ANNUAL RCRA SEMINAR  
[www.saems.org](http://www.saems.org)

## SAEMS and RCRA: TARGETED COMPLIANCE

# MAY 14, 2015

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For more information please contact Lisa Cuestas or Heather Shoemaker at [Lisa.Cuestas@tucsonaz.gov](mailto:Lisa.Cuestas@tucsonaz.gov) or [HShoemaker@Kleinfelder.com](mailto:HShoemaker@Kleinfelder.com).

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## FROM THE EDITOR



**W**ith the new year comes new opportunities, in life and in business! As the Journal completes our 12th year of publication, our best wishes to you in both realms!

### EVENTS

2015 starts off with several upcoming environmental and safety professional events that you will want to consider attending. First, for those facilities with air quality permits, is the Jan. 21, 2015 Pinal County AQ Permit Compliance Assistance Seminar. Visit [www.azalliance.org](http://www.azalliance.org) for details! Next up is the Gatekeeper Regulatory Roundup held Feb. 3 to 4 (see pg 3) followed by the Auditing Roundtable's 2015 Winter National Meeting & Expo Feb. 23 to 25 (pg 4), the SAEMS Annual RCRA in Tucson on May 14th (pg 4), and the Arizona Health & Safety Summit April 16th (pg 15).

### THE "LONG REACH" OF ADVERTISING

You wouldn't expect to receive returns on an advertising investment 63 years into the future, would you? In 1951, Carnation Evaporated Milk was heavily advertised in episodes of the "George Burns and Gracie Allen Show", which are now available on YouTube. I've been watching these episodes, and George, Gracie, and the other actors always use Carnation Evaporated Milk in their coffee and then talk about how great it tastes. It sounded so good I purchased a case of the product and started using it myself (it actually is good). Later, I had guests over and they noticed I was serving Carnation Evaporated Milk with the coffee, and said that they too started using it recently -- because they saw it advertised on the 1950's George Burns and Gracie Allen Show.

I wouldn't suggest that Journal advertisers can expect returns on their investments that far into the future, but every Journal issue including every advertisement, starting with the first issue 12 years ago, is still available online and the articles can be (and are) found by readers searching Google (which links them to PDF copies of the original issues). Happy New Year!

Sincerely,  
Jim Thrush, M.S. Environmental Management  
Editor & Publisher 480-422-4430 x42

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# SAFETY TEAMS: AN IMPORTANT KEY TO CULTURE CHANGE

*According to the February 6, 1955 Des Moines Tribune, "The State Senate of Illinois yesterday disbanded its Committee on Efficiency and Economy, for reasons of efficiency and economy."*

Des Moines Tribune, February 6, 1955.  
From the book "Life and Times of the  
Thunderbolt Kid – A Memoir" by Bill Bryson

By Chuck Paulausky, CHMM

There are lots of articles out there about Safety Committees. Meriam Webster defines a committee as "a body of persons delegated to consider, investigate, take action on, or report on some matter." For me over the years, the word "committee" has developed certain connotations as being a group of people that meets too often for too long to discuss too much without getting a lot done. I have taken a different approach to these groups for a couple years and tend to call them "teams", defined by Meriam Webster as "a group of people who work together." You will get better results with a "team" than with a "committee."

I've been working in the Environmental, Health and Safety field for more than 25 years and have developed Safety Teams for a number of companies. My last corporate position was with an international company, with responsibility for employee safety at multiple facilities across the globe. I couldn't be everywhere at once, so it was necessary to have people at each facility to be my "eyes on." These Safety Teams performed a number of functions, and without them, I couldn't have effectively done my job.

Since then, I've encouraged my clients to develop a Safety Team as a way of getting the employees in-

olved in the Safety program. Other benefits include:

- Demonstrating management concern for the employee's well-being
- Increasing employee Safety awareness
- Making changes to reduce injuries and cut the related costs, including Worker's Compensation.
- Improving employee morale
- Reducing the risk of OSHA citations and penalties

The purpose of a Safety Team is to bring workers and managers together to promote and maintain a safe, healthful workplace. A Team ensures that safety is treated as an integral function of the company. Participants can vary based on the type of facility. Some companies have Team members from the EH&S Department and production workers. Others include members from engineering, quality, and management. Whatever the make-up, teamwork is the key. Each member must have assigned tasks and responsibilities, and the opportunity to contribute.

Safety Team functions can vary depending on the specific needs of the company and the safety program. Some possible functions may include:

- Making recommendations for change
- Detecting hazards through facility inspections
- Analyzing and solving problems
- Reviewing new chemicals and maintaining Safety Data Sheets
- Conducting accident investigations and analyzing injury trends
- Reporting findings and making recommendations to management
- Performing safety equipment inspections, i.e. fire extinguishers, eyewash/safety showers, spill kits, etc.
- Taking lead roles in emergency response and evacuations

Critical elements in developing a Safety Team include:

## 1. ESTABLISHING A FOUNDATION

- Get management commitment to both the time necessary and to implementing necessary and feasible recommendations
- Establish a common objective
- Establish an effective method of communication between the Team, Management and the employees



- Set clear expectations and reasonable objectives
- Develop an effective corrective action system that ensures that corrections are followed through in a timely manner

## 2. RECRUITING TEAM MEMBERS

- The first question to consider is how many members does your team need. You don't want the Team to be too large, but it should have some representation from your primary departments. As a rule of thumb, if your company has less than 200 employees, plan on no more than 10 members; with more than 1000 employees, you should look at multiple Teams for adequate coverage.
- Look first for volunteers. These employees want to be there and are more likely to attend and contribute.
- When possible, include members from all levels of the organization:
  - Managers can help communicate needs to upper management, make needed decisions, and be more effective in getting funding, where needed.
  - Supervisors play a key role in communication with the workers and in implementing changes.
  - Employees on the Team will send a message to all the workers that the Team values their involvement and input on Safety issues.
  - Facilities and Human Resource presence on the Team can be crucial to being effective and getting things done.

## 3. TEAM FORMATION

- Team leadership. Select someone to lead the Team with knowledge, dedication to Safety and the ability to interact with the others towards effective results.
- Establish clear and practical goals for the Team.
- Clearly define the functions that the Team and its individual members will perform, and provide training, as needed to perform those functions.

## 4. SAFETY TEAM MEETINGS

- Establish a set meeting frequency, but be flexible. I recommend monthly meetings to start. Once the Team is functioning, you may find that you can adjust this to every other month, or quarterly, as long as this gives your Team adequate time to be effective. Quarterly meetings should be a minimum.
- Set the meeting schedule for the same time and date each month, e.g., the first Wednesday of each month at 1:00 PM. Allow adequate time for the meetings, but try not to exceed one hour. Set the

*Continued on page 8*



meeting using a company network calendar, like Outlook, so that these meetings will show up on everyone's calendar.

- Prepare a format for meeting agendas and minutes. Keep good records and documentation of the meetings, including recommendations, assigned tasks, and corrective actions.
- Use the meetings to assign responsibilities and target dates for new Safety issues, review status on past issues, discuss projects, Team inspections, etc.

### 5. COMMUNICATION

- Post names of the Safety Team members throughout the facility, and let the employees know that these are contacts for them, if they have safety concerns. Also establish a method that the employees can use to make suggestions or voice concerns, e.g., suggestion boxes. And bring these concerns up at the Team meetings. These concerns need to be taken seriously, and deserve a response, even if the answer is no.
- Use the agenda and minutes to communicate with the Safety Team members. The minutes can also be posted for all employees to see that the Team is working to their benefit. Copy managers and supervisors when you send out the minutes, so they know what's happening and how it might affect them, their departments and employees.
- Periodically acknowledge the Team members for their contributions.

Like any other company function, Safety Teams can pose some challenges. These are some pitfalls to avoid:

- Make sure that it's clear to all the employees and management that the Safety Team doesn't bear total responsibility for Safety at your company. Safety takes effort by everyone, from upper management to the custodian and everyone in between.
- Try not to limit Team membership to only specific levels or groups within the organization.
- Don't expect overnight results. Culture change takes time.
- Avoid "assigning" members to the Team. Volunteers make more valuable members.
- Avoid complacency. Rotate members periodically to get a fresh perspective.
- Realize that not all safety concerns brought to management will be addressed.
- Don't waste time and effort. Assess risk to set priorities.
- Maintain confidentiality when discussing employee injuries.
- Don't assign Team members to perform Safety inspections without some training and guidance. Like anything else, they can't do the job as effectively if they don't know how.
- Stay on track. Document everything, including meetings, decisions, recommendations, and follow-up for corrective actions.
- Be willing to go outside the company for the right resources.

Note that while there are currently no Federal requirements for Safety Committees, most states do have requirements in one form or another. Be sure to check with your state to see what is or isn't required. Also note that the CalOSHA IIPP require-

ments include Safety Committees, and that OSHA is considering adopting similar requirements on a Federal level.

Other strategies that you should consider for your safety program:

- Monthly Supervisor training topics
- Plant meetings
- Group employee meetings
- Safety alerts and newsletters
- Safety incentive programs
- Near miss reporting and evaluation

Safety Teams are critical to developing and maintaining a safe workplace. An effective Safety Team can reduce workplace injuries, and the costs that directly affect a company's bottom line. Employees will recognize that the company is serious about safety and will gradually become more safety-aware, which will contribute to a positive change in your company's safety culture.

---

*Special thanks to Laura Malone, who I worked with on this topic several years ago.*

Chuck Paulausky, CHMM, is President of CPSE LLC, a consulting firm specializing in OSHA and EPA compliance and loss control for small to medium-sized businesses. Chuck is active with several professional and business organizations and is an AHMP Champion of Excellence Award winner. For over 25 years, Chuck has been providing safety, environmental, and worker's compensation support to companies in Arizona, Texas, California, Minnesota, Washington, Utah, Europe, and Asia. Chuck can be reached at: 480-694-1975, cpaulausky@cpsafety.net, www.cpsafety.net

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Larry Olson, PhD.

## IT'S ALL ABOUT CHEMISTRY

# CHEMISTRY CHANGING THE WORLD

In honor of the 90<sup>th</sup> anniversary of the publication of *Chemical and Engineering News*, the editors identified 9 areas in which chemistry has had a profound effect on our world – mostly for the better, but not always (C&EN, 91(36) 2013).

The first, and maybe most fundamental area, was the development of theories of chemical bonding and how bonds are related to the Periodic Table. From the straightforward concepts of electron dot structures of Gilbert Lewis, to the revolution in quantum mechanics, to the ability to actually visualize electron density in a bond via atomic force microscopy our concepts of chemical bonds continue to evolve to this day, and with it our ability to understand how our physical world is constructed.

Maybe the most consequential application of chemical bonding was the elucidation of the chemical structures of molecules found in living organisms like proteins and DNA. Leaning heavily on new instrumentation such as x-ray diffractometers, the world of biology was so transformed by a fundamental knowledge of the molecular basis for cellular reactions that it bears little relationship to what biologists did 90 years ago. Other instruments from something as ubiquitous as a pH meter to magnetic resonance spectrometers, DNA sequencers, and laser spectrometers are now essential tools since scientists in all fields seek to push their understanding to a molecular level. Of course, all this new data couldn't be handled with slide rules and manual calculations (I was the last generation that depended on slide rules). Computers have so fundamentally altered instrument design, manipulation and storage of data, and the ability to complete complex calculations that non-specialists are now able to produce results that would have been unthinkable even a short while ago.

If a chemist is known by the general public for anything, it is likely the ability to synthesize molecules – to make new materials

that are useful. Today, in most cases involving industrial scale, this requires the use of catalysts. 90 years ago the first catalysts that could “crack” crude oil were still 10 years from development. The first petroleum refinery was constructed in the early 1930s and along with a handful of other industrial processes that made sulfuric acid or alcohols, this was the focus of catalytic research until after World War II. Now we depend upon catalysts for everything from new polymers to removing air pollutants from car exhaust. Engineered nanomaterials may represent the ultimate ability to manipulate materials on an atomic scale and we are just at the dawn of this new revolution. It's hard to even envision where this may take us.

But an honest review of chemistry's impact must also look at the effect of unintended consequences and the editors of *Chemical and Engineering News* didn't flinch from that. I can remember in the '60s disposing of organic solvents down the drain in the lab, as well as “cleaning solution” that was made from concentrated sulfuric acid and chromic acid [Cr(VI)]. This went on at an industrial scale as well, creating Love Canal and thousands of other hazardous waste sites, heavily polluted rivers, and accidents on the scale of Bhopal. Not until Rachel Carson published *Silent Spring* in 1962 did people take seriously the idea that technological progress could seriously threaten the balance of nature. She was one of the first to explain to the general public the way in which pesticides could bioaccumulate and affect species other than the intended target. In many ways her book was the beginning of the environmental movement that really gained traction in the 1970s.

We've seen the effect of unregulated chemical activity. Air pollution from steel mills and zinc works in Donora, Pennsylvania in 1948 made half the town sick and resulted in one of the first government air pollution departments in the country. The Cuyahoga River fire in 1969 in Cleveland epitomized the link between industrial development and pollution and began to change public perception of what was acceptable. The Clean Water Act of 1972 fundamentally changed the way we treat water pollutants from point sources and has dramatically improved the quality of our surface waters. Other major environmental laws regulating chemicals included the Emergency Planning and Community Right to Know Act (EPCRA) in 1986 that established the Toxics Release Inventory and the Resource Conservation and Recovery Act (RCRA) of 1976 that established a cradle to grave management requirement for hazardous wastes. These laws have undeniably improved the quality of our environment, but are a complex, expensive and cumbersome way to manage the impact of chemicals. The Green Chemistry movement and the concept of sustainability, first picking up steam in the 1990s, represent an effort to go beyond just regulatory compliance.

As a chemist, I'm proud of the role chemistry has played in improving our lives in the last century. But there are important lessons to learn from our past mistakes and we should never stop wondering if there is a better way.

## SUSTAINABILITY AND SUSTAINABLE DEVELOPMENT



Nicholas R. Hild, PhD.

### CFLS & LEDs: REVISITING LIGHTING SUSTAINABILITY

As of Jan. 1, 2014, 40- and 60-watt incandescent light bulbs are no longer permitted to be manufactured in the U.S. as part of efficiency standards signed into law by President George W. Bush in 2007. These same regulations phased out 70- and 100 watt bulbs over the last few years, but this ban will be much more widely felt in the future since 40- and 60-watt bulbs are more frequently used in homes. So far, the ban has gone fairly unnoticed, since stores still have incandescent bulbs in stock. But, as time goes by, fewer incandescent bulbs are going to be available and EH&S professionals can play a role in helping consumers make choices that are more energy efficient and less costly now than ever before.

Selecting replacements for incandescent bulbs pretty much comes down to choices between compact fluorescent bulbs (CFLs) and Light Emitting Diodes (LEDs), both using considerably less energy than incandescent bulbs and both lasting significantly longer. Given that CFLs have been around now for a decade or more, and LED bulbs have more recently been found to also be an efficient and cost effective way to reduce energy use in residential and automotive applications, and the fact that incandescent bulbs are being rapidly phased out, it is time to reemphasize that today's lighting options will help consumers greatly reduce their energy use and their personal environmental footprint and save them money over time.

According to federal EPA studies, lighting accounts for 12 to 30 percent of all energy use in the U.S. You only have to view one of those YouTube satellite videos of the earth all lit up at night to realize just how much we depend on electricity around the world! To put this into perspective at the household level, 12 to 30 percent is more energy than the combined use of a refrigerator, dishwasher, and clothes washer! In a commercial building, that 30 percent is on par with what the air conditioning system uses, although in the desert southwest, heating, ventilating, and air conditioning (HVAC) systems account for more than 50% of energy use for at least five months of the year, but it is true that lighting takes a huge bite out of residential energy bills all year 'round.

The Federal EPA (<http://www2.epa.gov/cfl>) has made choosing CFL or LED lighting a little easier by setting Energy Star

standards for both categories of bulbs. And, as it should be, it has been the Energy Star standards that lighting (design) companies have looked to whenever they introduce new CFL or LED fixtures so consumers can be assured that, going forward, they will have consistent standards and guidelines that will ensure that their choices are backed by EPA Energy Star labels.

Now, with improved appearance, improved 'starting' technology, and a wider selection of models that contain dimmers, there is an ENERGY STAR certified CFL to meet almost every need. And what was once the expensive and remote possibility of LED lighting being competitive with CFL or even conventional incandescent bulbs, is now becoming a viable option for general purpose lighting needs. LED light bulb efficiency is on track to surpass CFLs, and with the help of ENERGY STAR, performance and quality have come a long way.

And, the best news is, as more improvements are made, costs are dropping also, so we need to spread the news: selecting more energy efficient lighting is now yet another cost-effective way that consumers can reduce their personal environmental footprint and save money at the same time.

As environmental professionals who have the 'technical' knowledge about how to make CFL and LED choices, we have an obligation to educate consumers about how easy it is to make lighting choices that are right for their budgets and right for the environment. Here's an example of how we might help consumers understand that making lighting choices has never been easier--utilizing the "T" numbers for making the correct CFL choice:

The EPA ([www.epa.gov/cfl](http://www.epa.gov/cfl)) offers FAQs on their 'lighting' info section, where they pose and answer question such as, 'What is the 'T' rating on CFLs and how does that help us choose the best CFL that screws into your lighting fixture?' Here's their answer; The 'T' stands for 'tube' size and relates to efficiency of the CFL. For instance, the difference between a T2 and a T3 is the size (more precisely, the diameter) of the tubing. T2 is 2/8 (1/4) of an inch, T3 is 3/8 of an inch, T4 is 4/8 (1/2"), T5 is 5/8" and so on. The larger (thicker diameter) tubes used in offices are usually T5 (5/8") or T8 (1 inch) or T12 (12/8" in diameter), or 1.5"). Generally, the smaller the tube size (T number), the more efficient the CFL so the T number provides one potential measure of energy efficiency that should help in deciding on which CFL to purchase.

So, here's where environmental professionals (like you) can help by informing consumers that, choosing the right CFL is a matter of looking for the 'T' number on the package where, the rule of thumb is, the thinner the tube the more efficient the lamp, although other factors can affect the efficiency. For CFLs, the T2 bulbs allow manufacturers to make smaller bulbs often marketed as "micro minis" and more useful in residential applications or for desk top lights in the workplace.

The good news is, lighting systems are getting more and more energy efficient and if we all do our part and keep passing along our collective expertise to general consumers, we will all be able to demonstrate, generations from now, that we made a conscious effort to make the world a little better for our children's, children's, children.

Nicholas R. Hild, PhD., is an Emeritus Professor and Sustainability Scientist in the College of Technology and Innovation and the founder of the Environmental Technology Management program at Arizona State University. Dr. Hild has extensive industrial environmental engineering and management experience as well as continuing to be a consulting environmental engineer for the past 40+ years. Reach him at [www.worldsleadingexpert.com](http://www.worldsleadingexpert.com) or email at [drnick@asu.edu](mailto:drnick@asu.edu).

# ASSOCIATIONS PAGES

The Journal of Environmental Management Arizona invites environmental, health and/or safety organizations in Arizona to contribute news articles about their associations. Contact the editor at 480-422-4430 x42.



WWW.AWMA-GCS.COM

**H**appy New Year! The Air and Waste Management Association-Grand Canyon Section had our final meeting of the year on December 9, as a joint holiday mixer with the Arizona Association of Environmental Professionals (AZAEP) and the Environmental Professionals of Arizona (EPAZ) at Terroir Wine Pub in Scottsdale. The mixer drew over 50 people and was a great success! Thanks to those who helped organize, and those who brought food to donate to St. Mary's Food Bank!

We are currently developing our program for 2015 and do not have a meeting planned as of this writing. However, in addition to our normal meeting schedule, we are planning to host several "happy hour" mixers following one that we had late last year that generated a lot of interest. All environmental professionals are welcome, regardless of membership in AWMA. The next happy hour will be at 5 pm on Thursday, January 29, at Angel's Trumpet downtown. The event is free, but please RSVP to me at [msonenberg@swca.com](mailto:msonenberg@swca.com) so we can have an accurate head count.

Meeting information will be posted on our website when it becomes available. For more information about AWMA-GCS, please visit us at <http://awma-gcs.com>.



Mike Sonenberg  
Chair



**T**he Arizona Hydrological Society wishes everyone a great New Year and lots of fun things to do in 2015! And you can start by joining one of our local chapter meetings!

The next meeting of the Tucson Chapter will be held on Tuesday, January 13, 2015, 6:00 PM, at the offices of Errol Montgomery and Associates, 1550 E. Prince Road. At the January meeting, Alison Jones will present "Grand Canyon Geology: Rafting through 2 Billion years of Earth History." The Phoenix Chapter will meet Wednesday, January 14, at the SunUp Brewery, 322 E. Camelback Rd. in Phoenix, for the annual planning meeting and free dinner! Social hour starts at 5:30 PM.

The Flagstaff AHS Chapter is still in hiatus since the 2014 symposium but will be reconvening in the New Year. Visit the AHS web site for additional information and details at [www.azhydrosoc.org](http://www.azhydrosoc.org).



Christie O'Day  
Executive Director



**ARIZONA ENVIRONMENTAL STRATEGIC ALLIANCE** [AZALLIANCE.ORG](http://AZALLIANCE.ORG)

**T**he Alliance and the Pinal County Air Quality Department are co-hosting a one-day Air Quality Permit Compliance Assistance Seminar in Casa Grande on January 21, 2015.

**MORNING SESSION:** Dr. Nick Hild, Introductions. Pinal County AQ Dept Presentations on Permitting (Kale Walch and Anu Jain); Compli-

ance Inspections (Bob Farrell); Enforcement Procedures (Josh Dezeuw); Particulate Matter State Implementation Plan Update (Mike Sundblom). Pinal County Q&A Session.

**AFTERNOON SESSION:** Strategic Permitting (Tim Sturdavant, Global Environmental Leader, Hexcel); "What we have here is a failure to communicate" (Mitch Klein, Snell & Wilmer LLP); Legislative Update on Environmental Issues (Amanda Reeve, Snell & Wilmer LLP).

**NEW:** One-on-One Help Sessions with Regulators. Meet privately with regulators for facility-specific permit compliance assistance. Limited availability, so please request a session when you register to reserve your spot. Check the Alliance website for agenda updates.

Register online at [www.azalliance.org](http://www.azalliance.org).



Neal Brown  
Chair



WWW.EPAZ.ORG

**T**he 11th Annual Gatekeeper Regulatory Roundup is just around the corner and our Early-Bird rates for attendees has been extended until January 25, 2015.

#### UPCOMING EVENTS:

March 12, 2015 luncheon will feature a presentation by Amanda Reeve from Snell & Wilmer. Amanda will bring us up to speed with what's been happening at the Arizona State Capital with her AZ State legislature update.

April 9, 2015 luncheon will feature a safety topic presentation from ETC Compliance Solutions.

EPAZ hosts monthly luncheon meetings on the second Thursday of the month from 11:30 AM to 1:00 PM at the SRP PERA Club.

For the most up to date information, event details and reservations please visit our website at [www.epaz.org](http://www.epaz.org).



Lisa Culbert  
Association Manager



WWW.SAEMS.ORG

**S**AEMS would like to wish everyone a safe and prosperous new year!

In lieu of our January luncheon, SAEMS will partner with the Pima County LEPC to host the Hazardous Materials Safety Workshop on January 28. For more information and registration, please visit [www.pima.gov/lepc](http://www.pima.gov/lepc). Topics will cover facility safety, transportation safety, and regulatory updates. This event is a must for all professionals in the hazmat and EH&S fields.

Our December luncheon featured Ms. LoriAnne Barnett, Education Coordinator for the National Phenology Network. Her presentation focused on citizen science and Nature's Notebook, an online program where amateur and professional naturalists record observations of the natural world.

Our annual RCRA seminar will take place in May. Please see our Save the Date announcement in this issue of the journal on page 4. If you are interested in joining SAEMS or attending an upcoming event please visit our website at [www.saems.org](http://www.saems.org). You may also find us at [www.facebook.com/saems.org](http://www.facebook.com/saems.org).



Patrick Harrington  
President



AZ.ASSE.ORG

**T**he New Year will shake up Arizona ASSE's usual pattern of monthly luncheons with a half-day joint session of the construction and general groups on January 9th at the GateWay Community College Copper Room of the main Integrated Education (IE) building.

The first session from 7-8:30 a.m. features Charles Keller who specializes in OSHA/MSHA law to confront the myths of OSHA inspections.

At 9 a.m. Jenny Mandeville will speak about "Supervisor Assessment of Worker Readiness", readying supervisors to assess fatigue, drug affects, alcohol use, training comprehension and proficiency in association with hazardous jobs.

12-1 p.m. will be the regular luncheon with ADOSH Assistant Director Jessie Attencio speaking. February's regularly scheduled - at 11:30 a.m. on the first Friday of every month - falls on Feb. 6 and features Darrin Perkins the current safety director at Central Arizona Project and former ADOSH director. An executive forum and safety panel of business executives is planned for March. These meetings return to GateWay's South Building (SO 1330).

Additional information for these and other upcoming events for the monthly morning ASSE Construction meetings will be added to the Arizona ASSE Events Calendar when they are available at <http://az.asse.org/>.



Wayne Carroll  
President



WWW.AZCHAMBER.COM

**ARIZONA CHAMBER**  
of Commerce and Industry

**T**he Arizona Chamber's Environment Committee will hold its February 2015 breakfast meeting on February 11, 2015 at the Phoenix Sheraton Airport Hotel located at 52nd and Broadway in Tempe. Speakers will be from the Central Arizona Project and will focus on environmental issues associated with the operation of the CAP canal system. To register, go to [AZchamber.com](http://AZchamber.com) and click on events. The Arizona Chamber's Environment Committee continues to maintain three technical subcommittees focusing on Waste, Water and Air. These subcommittees meet routinely to discuss environmental regulatory issues associated with their respective medias.

If you wish to joint one of these subcommittees, please contact Jeff Homer at [jeff.homer@gd-ms.com](mailto:jeff.homer@gd-ms.com).



Jeff Homer  
Chairman  
Environment Committee

# NEWS BRIEFS

## HILL BROTHERS CHEMICAL COMPANY FINED \$12,000 FOR VIOLATIONS OF FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT TRIAx TURBINE FINED \$12,000 FOR RCRA VIOLATIONS

❖ The U.S. Environmental Protection Agency recently fined Triax Turbine Components for violations of the hazardous waste law and, in a separate action, Hill Brothers Chemical Company for violations of pesticides law. These actions support EPA's commitment to protecting public health and the environment in Indian Country.

Triax Turbine, a manufacturer of turbine parts, was fined \$12,000 for violations of the Resource Conservation and Recovery Act at its Chandler facility, located on the Gila River Indian Reservation. Routine inspections at the facility in 2013 uncovered violations of federal standards governing the handling and storing of hazardous waste. Among the violations were mislabeled or unlabeled containers, lack of an emergency response plan and inadequate staff training.

Under the EPA's RCRA program, hazardous substances must be stored, handled and disposed of using measures that safeguard public health and the environment.

Hill Brothers Chemical Company, based in Orange, Calif., was fined \$12,000 for violations of the Federal Insecticide, Fungicide, and Rodenticide Act for selling mislabeled, industrial-use pesticides on the Ak-Chin Indian Community in 2013. Hill Brothers sold two products without providing the complete use instructions to the water reclamation facility on the tribe's land in Maricopa. The violations were discovered by the tribe after it inspected the facility following an incident involving an accidental release of chlorine gas.

Under FIFRA, labels must include directions for use and precautionary statements that are designed to minimize the risks associated with the product. Consumers are required to follow pesticide label directions for proper use and should look for the EPA registration number printed on product labels.

## ADEQ CELEBRATES SAFE DRINKING WATER ACT 40TH ANNIVERSARY WITH STORIES EXAMINING IMPROVEMENTS IN STATE'S WATER

❖ The Arizona Department of Environmental Quality recently celebrated the 40th anniversary of the national Safe Drinking Water Act with a series of stories on ADEQ's website illustrating ADEQ's successes in protecting the state's drinking water.

Among the subjects addressed:

1. A national overview of the significance of the Safe Drinking Water Act.
2. How Arizona's Source Water Protection Program has been protecting the drinking water since 2008 of more than 12,000 students in 30 schools that have their own public water systems.
3. ADEQ's Monitoring Assistance Program (MAP) has assisted nearly 700 small public water systems in the state conduct proper monitoring since 1999 to ensure that their drinking water meets state and federal safe drinking water standards.
4. The Operator Certification Program of ADEQ has conducted nearly 250 free workshops since 2001 on a variety of topics for more than 11,000 operators of drinking water and wastewater systems in 14 municipalities throughout the state.

These stories are posted on ADEQ's website at [http://www.azdeq.gov/environ/water/dw/safe\\_dw\\_act\\_40.html](http://www.azdeq.gov/environ/water/dw/safe_dw_act_40.html).

"ADEQ's mission is to protect public health and the environment and providing safe drinking water is a critical part of that mission," said ADEQ Director Henry Darwin. "I encourage everyone to read the stories that we post on our web site this week to familiarize themselves with, and take advantage of, the services that we offer."

## ADEQ AWARDS \$63,450 BROWNFIELDS GRANT TO FLAGSTAFF SCHOOL

❖ A \$63,450 Brownfields grant has been awarded to the Pine Forest Education Association, Inc. for abatement of lead-based paint and asbestos issues at the former St. Pius X Catholic Church site in east Flagstaff, Arizona Department of Environmental Quality officials announced recently.

The association bought the vacant building, located at 2257 E. Cedar Ave., in October as part of the planned expansion of Pine Forest School (PFS) charter school. PFS plans to redevelop the old church and expand the K-8 curriculum for its more than 350 students. The additional space will allow expanded music and athletic programs along with collaborations with other schools and community events.

A Phase I environmental site assessment last year at the property indicated the need to abate both lead-based paint and asbestos before any renovations could be done at the former church.

"This is an excellent example of how our Brownfields program makes Arizona's communities better," said ADEQ Director Henry Darwin. "In this case, a large benefit comes from a limited investment of money and will allow a well-respected, growing charter school to use the additional space it has acquired in a key area of east Flagstaff."

A Brownfield is an abandoned or under-used property with an active redevelopment potential that suffers from known or perceived environmental contamination. ADEQ receives its Brownfields funding from the U.S. Environmental Protection Agency in order to assist local governments and nonprofits in addressing suspected contamination issues.

More information on Brownfields is available at: <http://www.azdeq.gov/environ/waste/cleanup/brownfields.html>.

## BUDGET & FINANCE DIRECTOR BRIANT, AND OTHER ADEQ EMPLOYEES HONORED FOR STELLAR WORK DURING ANNUAL AWARDS CEREMONY

❖ Arizona Department of Environmental Quality Budget and Finance Director David Briant received the Director's

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Excellence Award and 10 other individuals and four teams were also honored for their outstanding job performance during 2014 at ADEQ's annual awards event at its Phoenix headquarters.

"We have been incredibly lucky to have David on our team during these reduced budget years," ADEQ Director Henry Darwin said. "His expert advice and eye for available budget resources have really made a difference."

Other individual award winners were:

- Stacie Cameron of Office of Budget and Strategic Management for her above and beyond efforts in getting the agency's annual Executive Budget Request completed by deadline.
- Hazel Cox of ADEQ's Southern Regional Office in Tucson for finding a way to show graphically how exposure pathways could be eliminated in work at state superfund sites.
- Jade Dickens of Water Quality Division for beginning use of electronic, fillable forms for water quality data entry in the field, saving much time with the process improvement.
- Ginger LaBine of the Human Potential Office for leading the agency's greatly improved training and employee engagement efforts with an enthusiastic attitude.
- Jonny Malloy of Air Quality Division for identifying and pioneering new tools that allow dust storms to be viewed in three-dimensional graphics.
- Jaelyn Palermo of Waste Programs Division for greatly increasing the number of waste facilities in compliance with environmental regulations.
- Craig Pearson of Air Quality Division for effective oversight of the agency's air pollution monitors and compliance with EPA requirements.
- Tara Rosie of Waste Programs Division for her oversight efforts in developing improved methods resulting in faster cleanups of leaking underground storage tanks.
- Deborah Schadewald-Kohler of Water Quality Division for developing spreadsheets and checklists that make drinking water inspections more efficient.
- Alex Talladen of Office of Communications and Outreach for creating visually compelling graphics and publications that enhance the agency's brand.

The winning teams were:

- Solid Waste Inspections and Compliance team of Heather

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Blanchard, Jaelyn Palermo, Ramon Rivera, Lori Plato, Ethan Leiter, Daniel Salzler, Anthony Stone and Joshua Li.

- Stormwater and General Permits Unit team of Sandra Francis, Nicole Coronado, Joanie Rhyner, Christopher Henninger, Lavinia Wright, Jennifer Widlowski and Spencer York.
- Human Potential Office of Christina Vega, Chris Weakland, Yadira Price, Enrique Guillen, Alicia Pollard, Elizabeth Thorson and Trinity Madrid.
- Air Quality Inspections and Field Services Unit of Brian Jones, Tracy Neal, Pamela Nocola, Travis Behrens, Michael Smith, Timothy Trestrail, Adam Bankhead, Emily Bonanni and Robert Verville.

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## 2015 GATEKEEPER REGULATORY ROUNDUP

11th Annual Gatekeeper Regulatory Roundup to be held at the: Chaparral Suites Resort, 5001 N. Scottsdale Rd., Scottsdale, Arizona. See advertisement in this issue of JEMA on page three or visit our website for more information!

**MARCH 12, 2015**  
**11:30 AM - 1 PM**

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## LUNCHEON FEATURING: AMANDA REEVE

Amanda Reeve, Snell & Wilmer  
Topic: AZ Legislative Update  
Location: SRP Pera Club, 1 E. Continental Drive, Tempe, AZ 85281

**APRIL 9, 2015**  
**11:30 AM - 1 PM**

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## LUNCHEON FEATURING:

Speaker TBA, ETC Compliance Solutions  
Topic: Safety (TBD)  
Location: SRP Pera Club, 1 E. Continental Drive, Tempe, AZ 85281

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### Golf Tournament May 29th

A Golf Tournament will be held at the McCormick Ranch Golf Resort benefiting the ASSE Scholarship Foundation.

### Questions?

If you have questions on the Arizona Health & Safety Summit, e-mail us at [asse@asseaz.org](mailto:asse@asseaz.org) or call Erika May directly at 661.472.6592.

REGISTRATION: To register or for more information visit [asseaz.com](http://asseaz.com)



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