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"CHMMunity" VOLUNTEER OUTREACH PROJECT

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BUILDING A P2 BASED EMS *See pg 18*

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From the Editor



Mark your calendar for two environmental conferences coming up early next year: the Gatekeeper/Regulatory Roundup which will be held in Phoenix on Jan. 28-29, 2008 (see page 3) and the EIA 2008 Southwest Regional Conference will be held in Las Vegas on Feb. 20 - 22, 2008 (see page 27).

Thanks to Glynis Coulter and Richard Carter, both founding members of SAEMS, for their article describing the fortuitous origin and some of the notable accomplishments of the organization over the past 20 years (see page 8). SAEMS has contributed a great deal, in education, networking, and community service, to the environmental community in Arizona and both Glynis and Richard, and many, many others from SAEMS should be commended. Thanks also to Matt Jacobs for the article and photographs on T-Bird ACHMM's inaugural "CHMMunity" volunteer cleanup drive in a section of the Rio Salado Habitat Restoration area. If you are considering implementing an Environmental Management System, and wondering where to start, read J. Andy Soesilo's "Building a P2 Based EMS System" (see page 18). Do you have materials at your facility that you currently dispose of as waste, but you think may be reusable or recyclable? Read "WWW.ReUseAZ.ORG" (see page 22) to learn how you can get free assistance in locating potential users for your reusable materials.

Have you moved lately? Be sure to let us know your new mailing address - just call or make the change on-line at www.ehshomepage.com. As always, thank you to all contributors, readers, and advertisers.

Jim Thrush, MS, Environmental Management
Publisher & Editor

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Journal of Environmental Management Arizona

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MAILING ADDRESS: Journal of Env. Management Arizona, 3145 E. Chandler Blvd, Suite 110-641 Phoenix, AZ 85048. Phone & Fax: 480-422-4430

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JOURNAL OF Environmental Management

ARIZONA

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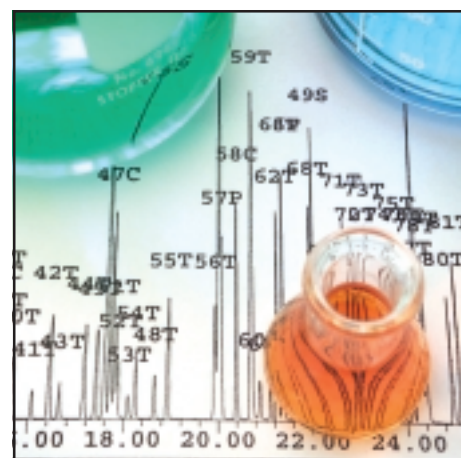
"CHMMunity"

*Volunteers remove
tons of debris
from Rio Salado*

Inaugural "CHMMunity" Event Draws Local
Environmental Professionals

by Matt Jacobs, CHMM

Early on a hot Saturday morning, July 28, 2007 a group of die-hard environmental and safety professionals gathered just south of Sky Harbor International Airport to kick off the inaugural "CHMMunity" volunteer clean up as part of a new Arizona beautification program. The Thunderbird Chapter of the Academy of Certified Hazardous Materials Managers (ACHMM) will be organizing and sponsoring such events



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throughout Arizona several times a year in support of the national ACHMM CHMMunity Program. The CHMMunity Program is a way for all environmental, health and safety professionals, including Certified Hazardous Materials Managers (CHMM) to give back to their communities. Certain criteria of such events must be met in order for the ACHMM to recognize and sponsor a CHMMunity event. ACHMM is the premier accrediting and membership organization for environmental, health and safety professionals throughout the United States.

With more than 9,000 members nationally, ACHMM provides a strong network of support and opportunities to such professionals. This particular event, in coordination with Arizona Department of Environmental Quality, Maricopa County Flood Control District, City of Phoenix, and the Army Corps of Engineers, focused on a stretch of the Rio Salado Habitat Restoration Area. This restoration area, owned by the City of Phoenix, along the banks of the Rio Salado River from 28th Street to 19th Avenue in Phoenix is being

Continued on page 20



ACHMM CHMMunity Volunteer Outreach Project! Rio Salado Habitat Restoration Area



The Condensed History of the: Southern Az Environmental Management Society

by Richard Carter
and Glynis Coulter

The year 2007 is an auspicious one for a very special organization. The Southern Arizona Environmental Management Society, Inc. (SAEMS) celebrates its twentieth anniversary! It is with a great sense of pride that, as two of the co-founders, we have the opportunity in this article to look back

at the many activities and accomplishments of this organization over the years.

Glynis recalls:

"I said it twenty years ago and will say it again: SAEMS is a classic example of an idea whose time has come". She further states: "It seemed like a good idea at the time, and continues to be, as evidenced by the extraordinary and accomplished people who have become dedicated members and who brought energy and their myriad of perspectives and expertise into the mix".

Who would have guessed that this all began between bites of a Monte Cristo sandwich and a "wouldn't it be something if" question? We figured that if all our colleagues felt as lost as we did in the regulatory jungle, getting together to share, learn, laugh and commiserate together, would really help. It would appear that it has!

The first society planning meeting was held in the evening at Richard's home on November 3, 1986. Other enthusiasts such as John Egan volunteered their homes for the next few



Richard Carter
SAEMS Co-Founder



Glynis Coulter
SAEMS Co-Founder

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meetings. This is where the first momentous decisions by the founding members were made:

- The name SAEMS was decided upon from the list of options.
- The newsletter was named “Haz-matters” and its first volunteer editor was founding member John Egan.
- A logo was selected.
- The Mission, Goals and Direction were established and finalized:



PHOTOS: At top: Training session from SAEMS RCRA 2005; Above, left: ADEQ Director Steve Owens speaks at SAEMS P2 2006, Above, right, SAEMS Members at SAEMS RCRA 2007.

- ◆ Speakers pool of members and various other groups.
- ◆ Sponsor technical and regulatory seminars.
- ◆ Publish Haz-matters newsletter (Vol. 1 published Jan. 1987).
- ◆ Develop a state-wide mailing list.
- ◆ Educate/Interface with regulatory and response agencies at all levels; include the media, where appropriate.
- ◆ Conduct/attend tours of local manufacturers, wastewater treatment facilities, city, county and state facilities, and other locations.
- ◆ Disseminate SAEMS' activities to the community.
- ◆ Employment - job openings and the people to fill them.
- ◆ Calendar of Events - publish in monthly Haz-matters.
- ◆ Society dues were proposed at \$25/year to cover costs.
- ◆ Develop By-Laws and Articles of Incorporation.
- ◆ Establish a bank account to handle funds.

Looking back over the twenty years, SAEMS has remained true to this original vision while the membership continues to shape and expand its services and accomplishments.

On June 27th of this year, SAEMS held its annual luncheon meeting. Each June, the newly elected Executive Board takes office. This year, as in all past years, included the passing of the SAEMS gavel (known as the “golden bung wrench of power”) to the newly elected President. Jeff Christensen, U of A Risk Management.

During this year's June meeting, the Society was honored by Governor Janet Napolitano through a formal State Proclamation presented to its Founding Members by ADEQ Deputy Director, Patrick Cunningham. Henceforth, June 27, 2007 will be known as “Southern Arizona Environmental Management Society Day”. The Governor's Proclamation formally acknowledged some of the many activities and accomplishments of SAEMS over the years, none of which would have been possible without dedicated

leadership and a hard-working involved membership:

- Annual Pollution Prevention Seminars: co-sponsored with ADEQ.
- Scholarship Program: 50-75 U of A environmental engineering students compete each year for two full-time scholarships.
- Haz-matters newsletter: over 230 volumes published.
- Annual RCRA Seminar: SAEMS' largest fund-raiser event of the year through educating the regulated community on hazardous wastes.
- Illegal dump site cleanups: includes Adopt-A-Highway.
- Children's Nature Park (1988): funding and construction of a two-acre env. study area adjacent to the Aqua Caliente Elementary School.

Another notable SAEMS contribution was the active participation in supporting the design and development of the nationally recognized Tucson/Pima County Household Hazardous Waste Program, as well as continuing to be a source of volunteers for monthly outreach collections.

The accomplishments of SAEMS today have far exceeded anything imagined at its inception. We are grateful for the opportunity to share with you a history of this wonderful organization. A great debt of gratitude is owed to the many committee and Board members, conference and event organizers, and countless friends in Southern Arizona and across the state that have contributed so much to the benefit of so many. It is an understatement to say that it has been an honor to be part this organization for so many years.

Richard Carter is President of Carter Affiliates, Inc., “Resources for the Environment” (CARE) and can be reached at 520-323-1100 or by email at richard@cartercare.com.

Glynis Coulter is a co-founding member of SAEMS and has worked in the environmental field in Arizona for over 20 years. She continues to live, work and play in Tucson, and periodically can be found at SAEMS monthly meeting venues, and volunteering at the Household Haz Waste Main Site.

For more information about SAEMS, visit www.saems.org.

news briefs

Phoenix Home Builder Fined \$155,000 to Settle Dust Violations

❖ The U.S. Environmental Protection Agency recently announced Richmond American Homes of Arizona, Inc. was fined \$155,000 for alleged dust violations that occurred at five residential construction sites in Maricopa County.

The violations were discovered during routine inspections from 2003 to 2005 conducted by the Maricopa County Air Quality Department.

"Maricopa County's particulate air pollution continues to be a serious problem, and companies not complying with fugitive dust control laws are one of the causes," said Deborah Jordan, the

EPA's Air Division director for the Pacific Southwest region. "The EPA works closely with the Maricopa County Air Quality Department to enforce these laws and send the message that noncompliance will not be tolerated."

From November 2003 to January 2005 Richmond allegedly failed to comply with Maricopa County rules during earth moving and dust generating operations at construction projects. Maricopa County inspectors discovered the following violations:

- failure to use a suitable control device to remove dirt from vehicle tires exiting construction sites,
- failure to immediately clean up dirt tracked out 50 feet beyond the site,
- failure to spray disturbed surface

areas with water while conducting earth moving operations on an acre or more, and

- failure to implement approved control measures while conducting a dust generating activity.

"The resolution in this case is a step in the right direction in improving air quality in Maricopa County and our quality of life," said Daniel G. Knauss, U.S. Attorney for the District of Arizona.

As part of the settlement, all current and new company employees involved in dust-generating activities must complete dust-control training, the company must certify every six months that training is up-to-date, and employ a qualified dust control coordinator at all Maricopa County sites equaling or exceeding 50 acres in disturbed surface area.

One of the primary causes of particulate pollution in the Phoenix area is wind blown dust from construction and home development sites, road building activities, unpaved parking lots and roads, disturbed vacant lands, and paved road dust.

Shasta Beverages, Inc. Fined \$11,900 for Chemical Reporting Violations

❖ The U.S. Environmental Protection Agency recently announced it has fined Shasta Beverages, Inc., over violations of the federal Emergency Planning and Community Right-To-Know-Act at its soft drink manufacturing facility, located at 301 S 29th Street in Phoenix, Ariz.

To settle the case, Shasta Beverages, Inc., will pay a penalty of \$11,900 for failing to file annual chemical inventory forms with state and local emergency response agencies for chlorine and ammonia stored at its facility in 2003 through 2005.

"It is essential that facilities storing hazardous chemicals provide timely and accurate information about the risks posed by these chemicals," said Daniel Meer, branch chief for emergency response prevention and preparedness for the EPA's Pacific Southwest region. "Without this information, state and local emergency planners and responders cannot be adequately prepared to protect our communities in the event of an accidental or intentional release of those chemicals."

Following the inspection, the S. 29th Street facility filed the required forms and brought the company into compliance with their reporting requirements.

Enacted in 1986, the Emergency Planning and Community Right-to-Know Act requires facilities report on-site chemicals to ensure emergency responders take proper precautions in the event an accidental or intentional release occurs.

For more information on the Emergency Planning and Community Right-To-Know-Act, visit EPA's web site at: <http://yosemite.epa.gov/oswer/ceppoweb.nsf/content/EPCRA.htm>.

Unprecedented Air Quality Resolution Adds 91 New Positions to Maricopa County Air Quality Department

❖ A resolution of unprecedented magnitude has been approved by the Maricopa County Board of Supervisors. The Board committed to 38 measures of the Maricopa Association of Governments' (MAG) Five Percent Plan, designed to reduce

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PM 10 emissions by five percent per year until the EPA standard is met. The increased staffing and funding dedicated to improving the quality of our air is monumental, indicating the Board's commitment to battling this severe issue.

\$11 million dollars have been committed to this effort for this year and \$13 million for next year. The measures include public education and outreach, dedicated enforcement for unpaved roads and parking, mobile monitoring and notification of high-pollution days.

"These are critical and complex issues," says Chairman of the Board of Supervisors, Fulton Brock, "and we rely on the joint efforts of the entire community to succeed."

A key measure approved by the Supervisors adds 91 new positions to the Maricopa County Air Quality Department. 51 of those positions are dust inspectors, which brings the total number of dust inspectors to 81. With the number of inspectors in the field more than doubled, more enforcement and education can be accomplished. The new employees will be hired in phases and the Air Quality Department hopes to complete all hiring and training by June 2008.

Director of the Maricopa County Air Quality Department, Bob Kard, says, "These inspectors will be trained to take enforcement action whenever a violation is seen and they will also be able to provide even more on-site dust control training. Furthermore, we will assign inspectors to go out at various hours of the night and on weekends to ensure we know just what is going on in this region."

According to the federal Clean Air Act, Maricopa County has been classified as a serious non-attainment area for PM 10 particulate matter. Maricopa County has responded by creating an Air Quality Department and developing and expanding efforts to clear the air via inspections, enforcing compliance, education and outreach. The Bring Back Blue skies campaign is a part of the comprehensive plan. To find out more, please visit www.bringbackblue.org.

Maricopa County Air Quality Violators Pay Over \$524K in Settlements in August

✦ The Maricopa County Air Quality Department recently announced \$524,488.10 in air quality violation settlements made during the month of August 2007.

A list of all settlement cases for the month is posted at www.maricopa.gov/pr_detail.aspx?releaseID=625. The following were the three highest settlement cases for the month.

Fulton Homes signed a \$180,000 settlement agreement on August 1st for 27 alleged air quality violations.

Those violations include: failure to install, maintain and use a suitable trackout control device; failure to immediately clean up trackout; failure to post a project information sign; failure to maintain a daily log of dust control measures; failure to obtain a permit; failure to operate a water application system onsite; allowing dust to exceed 20% opacity and failure to implement dust control measures. Fulton Homes paid its settlement in full on August 1st and has received no Notices of Violation thus far in 2007. They are also running a well-conceived web-based training program and has made great strides in dust control since

Continued on page 24



Laboratory Tips

by Dianne Frydrych

Don't let contamination invalidate your sampling results:

6 Common Sources of Contamination

1. Sample Containers.

If preservatives are used do not overfill or spill from the container. Your lab supplies sterile, ready for use sample bottles with an exact amount of preservatives. Bring extra bottles to the field in case of spills or excessive fills.

2. Sample Equipment

Use an effective method to decontaminate tubing, pumps, etc., in-between sampling events.

3. Shipping

Keep caps tightly sealed.

4. Personnel Diligence

Avoid contamination from sneezing, coughing, or touching the inside of the bottle or bottle cap.

5. Weather Conditions

Protect bottles (use an umbrella) or re-schedule sampling during rain or strong winds.

6. Preservatives

Be familiar with the preservatives used and protect yourself - your skin, eyes, lungs, etc. Gloves, goggles, and other PPE are imperative for your safety on the job. Gloves should be changed often throughout the sampling event and from site to site.

Dianne Frydrych is Sales and Marketing Manager for Legend Technical Services, Inc., and has 5 years experience in environmental laboratory management. Dianne can be reached at 602-324-6121 or by email at dfrydrych@legend-group.com.



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Sustainability and Sustainable Development

Nicholas R. Hild, PhD.

Seeing Spots in the Big Picture

Harvey Mackay recently told the story of a fellow motivational speaker who was hired by a group of discouraged business people to speak to them on ways to improve business. The consultant opened his seminar by unrolling a large sheet of white paper and tacking it to the wall. Then he carefully withdrew a large Sharpie pen from his pocket and made a small black spot on the paper. Turning back to his audience, he asked a man in the front row what he had just seen.

The man replied promptly, "A black spot."

The speaker then asked every person in the meeting the same question and each replied, "A black spot."

Speaking slowly and quite seriously, the consultant said, "Yes, there *is* a little black spot, but none of you saw the big sheet of white paper. You didn't concentrate on the whole picture, just the little spot. That's my advice to you on how you can go about improving your businesses."

That little story got me thinking about all the little issues we get bogged down in when we are trying to encourage the implementation of sustainability strategies at the local level to help minimize the global impact of our own actions on this planet. And, further, it caused me to take another look at some of the sustainable **practices** that some of our environmental "experts" have suggested we should be doing, in a different light.

For instance, one 'strategy' that almost always gets discussed are the many techniques that can be used to reduce energy consumption within our work places. Just the other day, a top administrator within the university sent an email to all employees, saying in effect, that (paraphrasing with

emboldened words)

*"...this year, **our** combined efforts will be focused on making our University operate more sustainably, by reducing the amount of energy **we** consume for heat and air conditioning... **we** will turn the thermostats down in the winter and turn them up in the summer... and together, **we** will reduce our carbon footprint and reduce our dependence on fossil fuels... etc... etc."*

The language of the epistle on saving energy at the University, sounded very much like an **edict**—and, it didn't sound a whole lot like '**we**' were going to make it a **team** effort at all—but what struck me most was that the focus was clearly on that one little black spot that Mackey's story illustrated and not on the myriad of methods we can use to successfully reduce our energy use (i.e. the white sheet of paper). Predictably, the response to the **edict**, at least at the worker-bee level where most of us reside, is a (yawn) hearty, ho-hum. A response that, under Mackey's illustration, is entirely predictable when people are told to focus on saving energy by turning down the thermostats in the winter and turning them up in the summer—ho hum....as if anyone at the worker-bee level has any control over thermostats in the first place! Even the facilities department(s) can't 'control' energy consumption by simply turning thermostats up or down; the whole internal structure of the 'low bidder-built' HVAC "system" would have to be redesigned first.

The point here is, just because we have *implicitly* agreed to seek ways to make the our respective workplaces more sustainable, the places where those '**practices**' have to be implemented are at the level within the hierarchy where the operators have the least control. In almost all University buildings, thermostats in individual rooms are not actually hooked up (i.e. do you think they'd actually allow students access to the HVAC systems?). And, even if you find one that actually "works," resetting it only causes the "system" zones to become totally 'unbalanced' causing it to demand *more* energy, until changes are implemented that require software and/or hardware installations to remedy—

Of course, there is no money in the budgets (i.e. a classic illustration of a trickle-down, unfunded mandate within a University system), so worker-bees and students will be too hot in some areas and too cold in others, and inefficiency of the unbalanced system guarantees energy use will climb!

So, the question is, in a hierarchical system where managers get to **edict** and worker-bees get to **implement** (or not), should the focus be on the black spot or should it be on the big sheet of white paper? The only people who will know for sure sometime down the road, are our children's, children's, children.

Nicholas R. Hild, PhD., Professor, Environmental Technology Management, Arizona State University College of Technology and Applied Sciences, has extensive experience in Environmental Management in the southwestern U.S. Dr. Hild can be reached at 480-727-1309 and by email at DrNick@asu.edu.

Associations Pages



www.azind.org

AAI holds monthly Environment Committee Breakfast Meetings on the second Wednesday of each month at the Fiesta Inn located on Broadway and Priest in Tempe. Go to

AAI's web page at www.azind.org for more information or contact Jeff Homer at jeff.homer@gdc4s.com or 480-441-6672

AAI

AAI held its annual Environmental Summit and Golf Tournament at Lowes Ventana Canyon Resort in Tucson on Sept. 20th and 21st. The Conference was attended by environmental professionals from all over Arizona and featured speakers on a variety of timely topics including regulatory issues associated with air, waste and water, enforcement and inspections, and Climate Change. AAI and its board wishes to express appreciation to all of those who participated and contributed to this very successful event.

Jeff Homer,
EHS Committee
Chairman



AAI's Environment Committee is continuing its partnership with Maricopa County's Air Quality Dept. in holding monthly Brown-bag Forums beginning in Oct. addressing air compliance topics in Maricopa County. Events are scheduled for 10/18/07, 11/15/07, 12/13/07, 01/17/08, 02/21/08 and 03/20/08. All Brown-bag Forums will begin at 11:30 AM and will be held at Maricopa County Air Quality Dept. offices located at 1001 N. Central Ave, Phoenix, AZ 85004 in the 5th floor conference room. A call in number will be provided for those wishing to call in. Monthly notices will be sent out via email announcing the meeting times and topics. Topics planned for these events include HAPS, the NOV to Enforcement Settlement Process, NSPS Subpart IIII Standards of Performance for Stationary Internal Combustion Engines, SB 1552 and the 5% Reduction Plan, Dispersion Modeling, Rule 310/300 Revisions and others.

AZ Chapter Semiconductor Environmental Safety & Health Association

For Info about a
SESHA Membership
please visit us at:
www.seshaonline.org

The Semiconductor Environmental Safety and Health Association (SESHA) on August 9th, 2007 held a national planning committee teleconference. Topics covered during this planning session included national and chapter growth initiatives, along with possible diversification into other emerging technologies. SESHHA has seen a steady growth over membership the past couple of years and is expected to continue as both the economy and technology rebounds from the downturn over the past several years.

Marty Fekete,
President



In addition, the Arizona Chapter will be hosting its annual one-day mini conference scheduled for November (TBD). The mini conference will host diverse speakers on all topics related to environmental, health and safety, with an emphasis on semiconductor and nano-technology. Everyone is welcome to participate and attend this one-day technology conference. Continuing education credits are available. For more details contact local chapter officers Martin Fekete at phaseone@q.com or John Bucciarelli at j.bucciarelli@freescall.com or www.seshaonline.org

Arizona Environmental Strategic Alliance



www.azalliance.org

www.reuseaz.org

Phone: 480-422-7392

The Alliance recently completed a very successful grant year period for project ReUseAZ, with a documented weight of materials reused/recycled during this period at over 17,203 lbs with a dollar value of approximately \$36,696. This is a significant increase over the documented amount reused/recycled in the previous year, under the Arizona Resource Exchange project. (See related article in this issue on page 22).

Help Wanted — Do you know a qualified person needing part time work? The Alliance has decided to expand our ReUseAZ "direct assistance" service by bringing on two additional Program Administrators to assist businesses and organizations with reuse and recycling. These positions will be contract-based, working 10 hours per week. We would like to find candidates with a background in reuse and recycling, but a good candidate with wide industrial or organizational contacts would also be considered. This is a self-starter position! Candidates location can be Tucson, Phoenix area, and we would consider Flagstaff. If you know someone or are interested contact us at 480-422-7392.

The Alliance will hold its annual meeting in November. Officers for the upcoming year will be elected, and some members will present their annual environmental report presentations.

Rob Barnett,
Chairman





Jeff Christensen,
President

The August luncheon meeting expanded SAEMS horizons. Carla Bitter, the Education & Public Outreach Manager for the Phoenix Mars Mission, enthusiastically updated attendees on the expectations and technological capabilities of the Phoenix Mission to Mars. In September, we returned

to earth and learned about our own back yard. Peter Griffiths of the USGS talked about the effect of floods and debris flows on Sabino Canyon.

After much discussion and brainstorming it was decided that the 20th Anniversary celebration will be held on Wednesday, 12/12/07 as part of the monthly meeting. Sponsors and past organization leaders will be recognized during the meeting. Go to www.saems.org for updates and accounts of all of SAEMS's activities.

SAEMS



Jeanie Merideth
Society Manager

This past month has been busy for AHS as we just held our Annual Regional Water Symposium. The event in conjunction with Southwest Hydrology was a smashing success. There was a record attendance at over 500 individuals. The AHS Annual meeting was held during the conference and AHS

members were brought up to date on the happenings from the last year in the Society. Jacob Wesley Sprinkle and Mohammed A. Keshta were awarded scholarships. Jeff Gawad was presented with Halpenny Intern Award from the Tucson Chapter and Vicki Mills received the Bouwer Intern Award from the Phoenix Chapter.

No rest for AHS as we are busily working on the ISMAR6 event coming up Oct. 28-Nov. 2nd in Phoenix. How often do you have the chance to attend an international symposium? This one is in our own back yard. Please visit www.ismar2007.org for more info. and to register.

Arizona Hydrological Society



please visit the AHS web
site: [http://
www.azhydrosoc.org](http://www.azhydrosoc.org)



Chuck Paulausky,
Board Member

Applications for the ACHMM Thunderbird Chapter Scholarships are now available through the ASU, UofA, and NAU scholarship offices, as well as from the Thunderbird Chapter website. The Thunderbird Chapter will be awarding three scholarships for the 2008 Spring semester.

If you know someone who is working on a degree in the environmental sciences at an Arizona school, be sure to pass on the word.

The Thunderbird Chapter will be offering a course next Spring on the "Essentials of Hazardous Materials Management," a great course for all EHS professionals, as well as good preparation for CHMM candidates. Watch for ads in the Journal!

Don't forget the Thunderbird Happy Hour on 1st Thursdays, 5:30 PM - ??

The ACHMM/EPAZ monthly lunch meetings are held at the ASU MERCADO, 502 E. Monroe Street (SE of 7th St & Van Buren) from 11:30 ~ 1:00 on the second Thursdays of each month. Meeting details: www.thunderbirdchmm.org or www.epaz.org.

ACHMM Thunderbird



Calendar Items:

- Nov 1 - T-Bird Happy Hour,
Sonoran Brewhouse
322 E Camel back, Phoenix
- Nov 8 - Luncheon Meeting,
Workplace Violence,
Officer Monty Woods,
Phoenix PD
- Dec 6 - T-Bird Happy Hour,
Old Chicago, Alma School
& Superstition Freeway,
Mesa
- Dec 13 - Luncheon Meeting,
TBA
- Jan 28-29 - Gatekeeper
Reg. Roundup
Chaparral Suites,
Scottsdale

Association Pages continued on next page.

EIA-AZ



EMAIL:
info@eia-az.org.

Please visit our web site at
<http://www.eia-az.org> or
call 602-437-3737 ext. 123
for information on all
upcoming events sponsored
by EIA-AZ.

The Arizona Chapter of the Environmental Information Association held EPA AHERA seminars in Santa Fe, New Mexico and Windowrock, Arizona in August. Both seminars were well attended by local and Federal regulators, business/property owners, consultants, and general and specialty contractors. Particular compliance concerns for renovation and demolition projects proceeding without proper asbestos surveys and government notification seemed true in both locations.

The last quarterly dinner meeting was held at the Sheraton Phoenix Airport Hotel in Tempe, AZ on September 26, 2007. The meeting topic was "Understanding Pandemic Influenza In The Modern World" presented by David Naylor, Vice-President of Aramsco. This presentation was of particular interest to persons in the medical fields and emergency response.

An 8-hour, free Regulatory Seminar was held October 12, 2007 in Casa Grande. Speakers addressed current regulatory issues regarding asbestos, lead-based paint, and mold.

Bill Caveness,
President



EPAZ



EPAZ luncheon meetings are
the 2nd Thur. of the month
from 11:30 am to 1:00 pm.

Cost: \$20 members/\$30 non-
members. EPAZ also gathers
on the last Wed. of the month
for a casual cocktail mixer.

Visit www.epaz.org for more
details or contact Eddie
Martinez at (602) 708-9179.

Our October meeting featured many speakers, Mike Ford from Bryan Cave and ACHMM Thunderbird Chapter president gave us an AZPDES Update and gave a presentation on ACHMM's community outreach project where they cleaned up a portion of the Rio Salado. ACHMM Scholarship Winner's gave presentations on Research Projects; Fernando Javier Alday, graduate program in Environmental Engineering at University of Arizona presented on Developing a New Arsenic Leaching Test for Water Treatment Residuals; Shahrzad Badvipour, graduate program in Environmental Technology Management at ASU-Polytechnic presented on NIMS Compliance and the ASU EOC Center; and Matt Tomanek, graduate program in Environmental Engineering at University of Arizona presented on PBDE Flame Retardants - Health Affects, Wastewater Treatment, and Applications. They all did a great job.

Our November speaker will feature Barton Day from Bryan Cave and as we were writing this article the topic of his presentation was not determined.

As we mentioned in the last Journal we installed new officers and wanted to thank Lisa Culbert with IES Southwest, INC. for her dedication to EPAZ and her 10+ years on serving on the board. And we also want to thank Julie Hoskin with ADEQ and her 3+ years of serving on the board. Even though they are not on the board they will still stay active on several committees. THANK YOU.

Eddie Martinez,
President



Regulatory Developments:

Legal News You Can Use
Will Return Next Issue!

Mike C. Ford, Attorney



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It's All About Chemistry

What's New at Your Dry Cleaners?

Larry Olson, PhD.



Most of us drop off clothes at the dry cleaners without thinking much about what happens before we pick them up again. The process of dry cleaning may date back to the Greeks. Fullers were professional clothes cleaners who used fuller's earth and sands to remove spots from clothing. By the early 19th century organic solvents such as turpentine, benzene, naphtha, and gasoline were being used. Jean-Baptiste Jolly reportedly opened the first "dry cleaning" store in Paris in 1845. The first dry cleaning machines were introduced in Scotland in 1869 and by the early years of the twentieth century dry cleaning establishments were widespread in the U.S.

Of course, using gasoline in an enclosed environment created significant fire hazards and early dry cleaners had to be located away from populated areas because they kept burning up. A mixture of alkanes, cycloalkanes, and aromatics called Stoddard solvent was developed as a somewhat less flammable alternative by an Atlanta dry cleaner named William Stoddard and this became the dry cleaning standard by the late 1920's.

Chlorinated solvents, such as carbon tetrachloride, trichloroethylene, and perchloroethylene were introduced as dry cleaning fluids in the 1930's and became popular because they were non-flammable and were very powerful degreasers. Of the more than 34,000 dry cleaners in the U.S. currently, over 80% are using perchloroethylene ("perc").

This widespread use of perc has resulted in a number of environmental problems. Prior to the Solid Waste Disposal Act of 1965 and the Resource Conservation and Recovery Act of 1976, solid waste disposal had always been considered a local issue. Consequently, disposal of hazardous wastes such as perchloroethylene was largely unregulated and many cases of groundwater contamination resulted. In addition, air emissions of perchloroethylene were not controlled until the Clean Air Act Amendments of 1990 classified it as a hazardous air pollutant (HAP). EPA developed standards for source categories of HAP's and in 1993 a NESHAP was issued for Dry Cleaners (40 CFR 63 Subpart M). On July 27, 2006 this standard was revised for new and existing dry cleaning facilities. Compliance with the new standard is required by July 2008.

Major sources of HAP's are required to install MACT (Maximum Achievable Control Technology) to reduce air emissions. But only about a dozen dry cleaning facilities in the U.S. are major sources. The average shop is considered an area source and is subject to GACT (Generally Achievable Control Technology). The new rule prohibits the use of transfer dry cleaning machines (where clothes are washed in one machine and dried in another). New area sources must use non-vented dry-to-dry machines which have refrigerated condenser units and secondary carbon adsorbers. Many new machines have a sensor device so the door cannot be opened unless the concentration of perc is below a certain value. Effectively, therefore, they act as sealed units with very little exposure to employees or to ambient air. In addition, the new standard requires enhanced Leak Detection and Repair (LDAR) using halogenated leak detectors.

Many times you hear complaints about burdensome regulations on business and crazy environmentalists interfering with commerce. The dry cleaning business is an example, however, of reasonable laws, enhanced technology, and greatly improved worker safety and environmental protection. Perc emissions are down by over 80% in the last 20 years, primarily due to improved techniques driven by regulations, and no one thinks about dumping waste solvent out the back door anymore. Even those in the industry shudder when they think about going back to the "good old days."

Larry Olson, PhD., Associate Professor, Arizona State University Environmental Technology Management Program. Dr. Olson holds a Ph.D. in Chemistry from the University of Pennsylvania, and is an environmental chemist with interests in remediation technologies and international env. mgmt. He can be reached at 480-727-1499, or by email at Larry.Olson@asu.edu

Builing a P2 Based EMS

Creating an environmental
management system:
You probably already have the three
components you need to implement a
P2 Based EMS.

by J. Andy Soesilo, PhD, REM
Western International University

In Arizona, some companies are required to file pollution prevention (P2) plans with the Arizona Department of Environmental Quality (ADEQ) on a regular basis. If your company has a P2 plan, then you already have a basis from which to implement an environmental management system (EMS). However, whether or not your company is a required P2 plan filer, it is likely that you already have three components from which to implement an EMS.

1. Environmental Policy

First, your company may have an environmental "policy" which provides direction and guidance on how the company should manage its environmental affairs. The policy developed by a P2 plan filer puts pollution prevention as a core commitment, while the policy developed by a non-P2 plan filer can range from a commitment to achieve regulatory compliance to commitment to go above and beyond compliance. The policy may take a formal written format or it may exist simply as a verbal communication from the upper management.

2. Environmental Laws and Regulations

Second, your company may be subject to some provisions of environmental laws and regulations. Because of this, your company may have some sort of "system" to manage its environmental program. At a minimum, it should have documentation of regulations and actions needed for regulatory compliance. Typically, the documentation includes a compilation of the requirements of the law, the procedure to comply with the requirements, the related best management practices, forms and checklists to be used, and other pertinent information including the designation of the company's responsible person for regulatory compliance.

3. Pollution Prevention Practices

Third, your company may have already implemented pollution prevention practices. These P2 activities would be spelled out by a P2 plan filer in its plan. A non-P2 plan filer may also have taken pollution prevention actions, such as (1) conserving natural resources through energy saving practices, reducing water consumption or chemical use; or (2) preventing pollution through the recycling of wastes or secondary materials, waste minimization, reuse and reclamation, as well as source reduction, substitution of material

and product or process change resulting in reduction in quantity or toxicity of a particular pollutant.

If your company has these three components in place you are in a good position to implement a P2-based EMS. An EMS is a management system to organize the way to do business environmentally. Management desire to implement an EMS must be translated into a formal commitment in the company's written environmental policy along with the designation of an EMS coordinator. The coordinator may be the company's responsible person for regulatory compliance. The environmental policy required by EMS standards must contain a commitment to pollution prevention, regulatory compliance, and continual improvement. This policy establishes the starting point.

Preparation

EMS as a management system is designed as an integration of top-down and bottom-up strategies. In other words, management's commitment to implement EMS must be strengthened by employee's participation in the system. Employees will participate if they know what's going on and what's expected from them. At this juncture, it is important that the EMS coordinator understands how internal communication is conducted, what procedures and documentation are available, and what barriers exist to effective communications. It is also important to determine the level of employee awareness on environmental issues and the training they received. This includes the type of training, the trainers, training audience, training frequency and documentation.

To help explore existing internal communications and current employee environmental training, requires the EMS coordinator to form a facility wide EMS committee. The committee should consist of representatives from different functions within the company. The committee will go further in this preparatory stage by searching for the location and storage of records and regulatory documents. They need to know where to access records and documents, who are the employees responsible to keep them and what record keeping procedures are currently utilized.

The committees itself needs to be trained on EMS topics. Training is also given to most employees to make them aware of the potential environmental footprints of their jobs: about the link between each of their particular jobs to the consumption of water, energy, or chemicals and the generation of waste, waste water discharge, or air emissions. This training will facilitate employee realization that each can play a part in reducing the consumption of resources and preventing pollution, thereby the improving facility's environmental performance.

Identifying Footprints

In essence, EMS is a system. Therefore, any attempt to develop an EMS requires the delineation of the boundary of the system. It is the responsibility of the EMS committee to define which units of operation of the company will be included in the EMS. For example, the company may designate (1) receiving, (2) warehousing, (3) manufacturing, (4) maintenance, and (5) distribution facilities in the company as the units of operation in the EMS.

Functionally, these five selected operations are interconnected. The best way to describe the connectivity is to create a flowchart for each of the units. A flowchart is a visual aid for picturing work processes which show how inputs (material, energy, water), processes (which occur within a unit of operation), and outputs (products and services, waste, discharge, and emission) are

connected. To facilitate the flowcharting task, the committee will need to review any available process diagrams and talk to employees familiar with each of the work processes to ensure that no activity or output is overlooked.

The flowcharts provide important guidance in identifying elements of the facility's activities, processes, products, services and wastes that can or does interact with the environment. These elements are called "environmental aspects." Once an aspect is identified, the next inquiry is to find out what kind of impact this aspect has on the environment. The use of energy as an aspect will result in an environmental impact in the form of the depletion of energy resources. Similarly, air emissions as an aspect will impact the environment by degrading the air quality.

The flowcharting and the identification of the company's environmental footprints, i.e., the environmental aspects and their respective environmental impacts, provide the EMS committee with valuable information regarding the direction the EMS program will be heading. These environmental footprints are the areas that the committee needs to address in the EMS program.

Targeting Actions

Environmental footprints are environmental aspects which adversely interact with the environment. Because the P2-based EMS program is intended to promote resource conservation and pollution prevention, the target of the program is to eradicate all footprints as far as the company is able to do so. Budget constraints, however, sometimes prohibit overly ambitious undertakings. Therefore, in developing an EMS plan of action, the committee will not target all of the identified aspects, but only look at aspects with "significant" impacts to the environment.

The determination of significance can be done through a rating system developed by the EMS committee. The rating can be as simple as high-medium-low, or can be done by using numerical values. Other than the degree of adversity in its impact to the environment, an aspect can also be rated based on the cost to mitigate the impact, the frequency of occurrence, or any other parameters deemed necessary for the facility.

As stated in its environmental policy, an EMS company has also a commitment to environmental compliance. This requires the company to include the regulatory component in reviewing the significance of an aspect. If an aspect is regulated, a high rating should be applied to this aspect. The rating of aspects will result in a list of aspects with significant impacts.

The list will be used by the EMS committee to focus its effort in developing EMS objectives. An objective is a narrative goal that the facility sets to achieve in order to reduce or eliminate significant impacts. An example of an objective is "to install a holding tank, piping, and

pumping system in order to reuse treated wastewater."

Each objective must be translated into a detailed goal with quantitative measurement and a time schedule. An example of the respective target of the above objective is "to reduce water use by 30 percent over baseline in a 12-month period." Included in the EMS target is the assignment of staff responsible for achieving the target.

Program Continuity

The flowcharting, the identification of aspects and impacts, the regulatory requirements, the determination of significance, and the development of objectives and targets, represent the interconnected components of EMS planning activities. This planning process must be repeatable, consistently conducted, and be documented. The purpose of such documentation is to ensure program continuity. One of the benefits of the documentation is that the effect of the turn-over of employees to the EMS program can be minimized.

The documentation also serves its function in meeting facility's commitment for continual improvement, which is the first document that needs to be written is the EMS development procedure. Such a procedure is necessary for consistency, particularly in doing an EMS annual review. The review will reconfirm significant aspects of the facility's operation and evaluate progress made against the stated objectives and targets. The review can trigger ideas to improve the facility's environmental performance.

A typical EMS development procedure consists of the purpose and scope of the procedure. The purpose of the procedure highlights the intent of the facility to identify aspects with significant impact and to develop objectives and targets for reducing those impacts. Items delineated in the scope of the procedure may include: who will do the identification of aspects and impacts, what rating criteria will be used to determine significance of impacts, who will do the ranking of aspects, who will develop objectives and targets, and who will monitor the progress of objectives and targets.

Other topics to be included in the procedure are the description of responsibilities of the EMS coordinator, the EMS committee, and management; the definition of key concepts; the protocol describing the flow of activities from the flowcharting to the development of objectives and targets; the time frame for updates and reviews; and the list of records generated from the EMS development procedure. The procedure must have the signatory approval from management and the date of issuance. Eventually the procedure itself needs to be updated.

J. Andy Soesilo, PhD, REM is a Professor at Western International University, and has over 20 years experience working in the environmental field and pollution prevention in Arizona. Andy can be contacted at jasoesilo@wiu.mailcruiser.com.




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"CHMMunity" Outreach Project:

Matt Jacobs, CHMM

continued from Page 7

restored to enhance flood control and protection, construct a riparian habitat, and provide much needed recreational trails for walking and biking along the river bottom.

For more than six hours, all greatly appreciated 21 volunteers collected metal debris, broken glass, tires, car batteries, aerosol cans, wood, paper and other general trash from a section of the restoration area at 24th Street and the Rio Salado south bank. "In just over six hours of hard work, the aesthetic difference is like night and day for the area" commented Mr. Chris Treesh, a volunteer from BELFOR-RMCAT Environmental Services. Another volunteer and CHMM, Mr. Jeff Page, with Arizona Department of Transportation, noted "It was great to work side by side with many of the folks in the environmental community. It was a treat to get my hands dirty and clean up something for our community. What a gratifying morning!" The group of volunteers did accomplish a substantial amount of debris removal from the small area of focus. A total of **2,120 pounds of metal debris was collected and recycled** at Metal Management in Phoenix. Another **4,520 pounds of other non-hazardous debris was also removed and disposed of** at Allied Waste Southwest Regional Landfill in Buckeye, AZ. All tires and hazardous materials were managed directly through the City of Phoenix.

Future events are being planned for this Fall and Spring 2008. These events will be advertised as soon as exact dates are determined. The Thunderbird Chapter of ACHMM would like to specifically thank the following companies for all their assistance and contributions to the success of this event: Allied Waste, Bryan Cave LLP, CP Safety & Environmental, Metal Management, Ninyo & Moore, PSC – Philip Services, and BELFOR-RMCAT Environmental Services. Most of all, we owe our sincere gratitude to the following individuals that donated their much valuable time, hard work, and sweat to support this event: Cindy Duncan, PSC; Tom Curry, CAP; Jeff Page, ADOT; Mike Lillis, BELFOR-RMCAT; Gino Fernandes, BELFOR-RMCAT; Chris Treesh, BELFOR-RMCAT; Dave Matson, EBI Consulting; Heather Matson, Goodman's Landscaping; Amanda Reeve, Bryan Cave LLP; Laure Preston, Great American Insurance; Mike Ford, Bryan Cave LLP; Frank Sanchez, PSC; Dave Giles, PSC; Dwight Clark, Ninyo & Moore; Stephen Scheufler, ASU; Laura Adams, Allied Waste; Donn Stoltzfus, City of Phoenix; Paul Mason, FlipChip (photographer); Dan Smith, BELFOR – RMCAT Environmental Services; & Chadd Hendon, BELFOR – RMCAT Environmental Services.

Matt Jacobs, CHMM, is Treasurer of the Thunderbird Chapter of ACHMM, and is General Manager of BELFOR-RMCAT Environmental Services. Matt can be reached at 480-632-2119 or by email at matt.jacobs@us.belfor.com.



Stay Safe

SOP's: SAFETY Operating Procedures

Chuck Paulausky, CHMM

The FAA has long maintained standard operating procedures for a wide variety of emergencies, but in 1987, an unusual collision at the Juneau, Alaska airport resulted in a change to these procedures. It seems that an Alaska Airlines 737 collided in midair with a 12-18-pound salmon! A bald eagle was surprised by the plane and dropped its dinner, which impacted the plane's windshield. The pilot called the tower and reported colliding with a fish, and requested further instructions. This was a first. Once the tower stopped laughing, they could find nothing in the FAA manuals about collisions with fish. Thanks to the Juneau airport, the FAA now categorizes fish as midair collision risks.

Most companies have Standard Operating Procedures (SOP's) that define the steps needed to perform production processes. SOP's are also a great way to establish your company safety requirements. OSHA requires you to assess the various hazards involved in each process, including machinery, chemical, ergonomic, and any other risks.

Once you identify the safety requirements for a process, such as PPE, engineering or administrative controls, write them into your SOP's. This way, your operators will receive safety training along with the operations training, and will have a constant reminder of the safety requirements each time they review the SOP's.

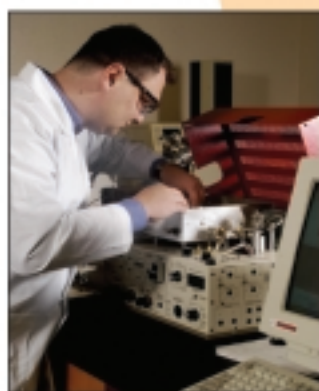
Link this to your Job Safety Analysis program, which requires review whenever there's a change or problem with a process, and make necessary changes to the SOP's, as well. This way, you'll always be on top of process changes and can reduce the risk of injuries and be better prepared for other events, like fish coming through the windshield.

Stay Safe! Chuck Paulausky

Chuck Paulausky, CHMM, CPSE LLC, has specialized in EHS compliance and loss control for 18 years. Chuck is a 2006 ACHMM Champion of Excellence Award winner, and can be reached at: 480-694-1975, cpaulausky@cpsafety.net.

ENVIRONMENTAL MANAGEMENT

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Dr. David Edwards, (480) 727-1493, DAE@asu.edu, or Dr. Larry Olson, (480) 727-1499, Larry.Olson@asu.edu

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Contact: Dr. Danny Peterson, (480) 727-1100, DrP@asu.edu

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www.ReUseAZ.org

Would you like free assistance with
your reuse and recycling needs?
The Arizona Environmental Strategic Alliance
has a program for you!

by Journal Staff

The Arizona Environmental Strategic Alliance (the Alliance) has launched “ReUseAZ”, a program to help Arizona businesses and consumers reuse and recycle otherwise wasted material and manufacturing by-products. ReUseAZ, built upon an earlier reuse program, combines free materials “matching” assistance with a new user-friendly website (www.reuseaz.org).

Background

The Alliance conceived the plan to create a reuse/recycling website project several years ago. The goal was to reduce the amount of materials sent to Arizona landfills by creating a materials exchange

website that would allow users to post and view materials. The original program, called the Arizona Resource Exchange, was launched in 2005, supported in part by a Waste Reduction Assistance (WRA) Grant from ADEQ. The website

followed along the lines of many reuse/recycling websites starting up about that time across the country.

Initial activity on the first website seemed promising, however, after a year use of the site was dwindling, and the Alliance wanted to know why. An informal study of recycling and waste-exchange websites across the country revealed that this was a common phenomena. Further study showed there were 3 reasons more people were not using the site: (1) the site was not user friendly, (2) other websites now competed for listings (i.e., www.craigslist.com and www.ebay.com), and (3) many business-users did not have time to use the site, which involved determining what materials were available, making postings and responding to inquiries. While little could be done about competition (issue #2), the Alliance went to work to address issues 1 & 3, and ReUseAZ is the result.

ReUseAZ Direct Assistance

ReUseAZ “direct assistance” solves the time problem for many busy businesspersons. A ReUseAZ program administrator is available for telephone consultation, or can visit an organization’s site and perform a waste stream assessment to help determine what materials may be reusable by others. The program administrator will make reuse recommendations and will work with businesses to locate specific users for materials, or help find materials needed. Speakers are available to address organizations on reuse and recycling options.

New ReUseAZ website

The all-new website, www.reuseaz.org, is now user friendly and instantly lets a user do what he/she wants to do -- view postings or just get information.

How is it working?

ReUseAZ has already helped a number of Arizona businesses and organizations find users or suppliers of materials. (See examples on these pages.)

Steel Drums Reused

A local business contacted ReUseAZ for help with good, reusable 55-gallon steel drums. The company could not find a local user to take these drums, so was forced to dispose of them as waste. ReUseAZ found a local business that needed the drums, and currently is reusing all 8 drums per month. To-date, 64 drums have been reused, and approximately 2560 lbs of material diverted from landfills.

(Above photo shows similar steel drums)



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The documented weight of materials reused/recycled as a result of ReUseAZ during the past year was 17,203 lbs. The total dollar value of reused/recycled materials is approximately \$36,696.

Need Lime?

Above photo illustrates one of the postings at www.reuseaz.org. "Free for the asking: 1000 lbs of Chemstar Type S Lime. Must be picked up or pay for shipping." This poster also has available 2250 lbs of high calcium hydrated lime.

Conclusion and Future Plans

Alliance efforts for the upcoming year of the program will center on promotion and marketing of ReUseAZ direct assistance services and the new ReUseAZ website. For more information visit www.ReUseAZ.org or call 602-325-4705.

Program Sponsorship

ReUseAZ is sponsored by the Alliance and was made possible by a Waste Reduction Assistance Grant from the Arizona Department of Environmental Quality, and receives funding from a grant from Earth Protection Services, Inc. For more information on the Alliance, its mission, membership, and opportunities to join, call 480-422-7392 or visit www.azalliance.org.



APRONS FROM SCRAP CANVAS!

ReUseAZ helped match up an Arizona non-profit teacher's organization needing materials with a local manufacturer that generates a large supply of end-cut canvas material. Previously the canvas material pieces, in perfect condition, but too small to be used for the original purpose, were scrapped to a land fill. The teacher's organization has begun putting some of this material to good use, for example, in creating colorful and protective aprons for both young students and teachers! Now even more creative uses are being discovered, such as bean bags, desk mats, mini parachutes, and wall decor. Over 5,200 pounds of this material has been used.



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their settlement agreement.

Henry Products Inc. was fined

\$175,000 on August 20th by the Environmental Protection Agency [EPA], the U.S. Department of Justice and the Maricopa County Air Quality Department for emitting volatile organic compounds [VOC's] into the air. The EPA and Maricopa County jointly inspected Henry Products in February 2004 and found the violations. Later that year when operations at Henry

Products remained unchanged, the EPA ordered Henry Products to submit a plan for permanent air pollution controls to be installed. After Henry Products failed to submit a plan, the U.S. Department of Justice took over the case. Henry Products then designed and installed a new air pollution control device to reduce 95 percent of its VOC emissions and obtained a revised permit from the Maricopa County Air Quality Department. The Air Quality Department is due to receive \$87,500 from the total settlement fine for the company's alleged violations.

Engle Homes signed a settlement agreement for \$36,000 on August 14th to resolve seven alleged air quality violations. Those violations include: failure to implement control measures before, while and after conducting a dust generating operation; failure to install, maintain and use a suitable trackout control device; failure to clean trackout; allowing dust to exceed 20% opacity and failure to comply with an approved dust control plan. The company paid its settlement fines in full on Aug. 13th.

Brent M. Borchers, P.E. Named Senior Associate

❖ Terracon Consultants, Inc., recently announced that Brent M. Borchers, P.E., has been named a Senior Associate. He has been with the firm since 1996 and has over 10 years of geotechnical and environmental project management experience. Brent can be contacted at 520-770-1789. Terracon maintains a website at www.terracon.com.



Brent M. Borchers, PE
Senior Associate,
Terracon Consultants, Inc.

Linda Christopherson Joins ETC Compliance Solutions

❖ It was recently announced that Linda Christopherson has joined ETC Compliance Solutions as a training and consulting associate. Linda has 16 years of experience as a former ADOSH Compliance Officer/Trainer and Manager of Occupational Safety & Health for American West/US Airways, and brings a unique perspective to compliance in the



Linda Christopherson
Training & Consulting Assoc.,
ETC Compliance Solutions

"real world" of business, said an ETC spokesperson. "In addition to performing site inspections and risk assessments to identify and control hazards, she has effectively mitigated OSHA compliance citations to reduce or eliminate penalties."

Linda is well known in the Arizona EHS community as an outstanding instructor and consultant for



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environmental and safety topics. She began teaching in 1988 and holds accreditations from the ADEM, OSHA and IAFF.

Linda can be contact at 602-928-9673. ETC Compliance Solutions provides Safety and Environmental open enrollment and on-site training, consulting and management services, and maintains a website at www.e-t-c.com.

Lisa Culbert Signs On With IES Southwest

❖ Lisa Culbert has recently accepted a position at IES Southwest as a sales representative. IES Southwest represents manufacturers specializing in Process Equipment, Chemical Feed Systems, Odor Control Systems and Instrumentation for the Water & Wastewater Industry. Lisa can be contacted at (602) 332-3174 or by email at lisa@iessouthwest.com.



Lisa Culbert
Sales Representative,
IES Southwest

South Phoenix Industry Challenge Meets Environmental Goals Ahead of Schedule

❖ US EPA Region 9 announced recently that industry members of the South Phoenix Industry Challenge/Good Neighbor Partnership have reduced over 37,000 pounds of air pollution, adjusted to production, exceeding the original goal by 140 percent.

The S. Phoenix Industry Challenge/Good Neighbor Partnership is a voluntary partnership between industries operating in the South Phoenix area, community leaders and government agencies. It was launched in March 2005 and runs through spring 2008. Twenty-one companies signed on as charter members.

"South Phoenix has the highest childhood asthma rates in Arizona. Also, several large accidental chemical releases have occurred here," said Nancy Lindsay, acting director of the Waste Management Division for the Pacific Southwest region. "That's why we have targeted South Phoenix for this partnership with the goal of providing cleaner air for the community while supporting the industrial base of the city."

The Industry Challenge/Good Neighbor Partnership has two main goals: (1) Reduce routine air emissions of priority pollutants by 20% 2002-2007, adjusted to production, and (2) Reduce the number and severity of accidental releases.

"The South Phoenix area has historically been the home of heavy polluters, but through our program we're changing that," explains Mary Rose Wilcox, Maricopa County Board of Supervisors. "This year alone our partners were able to keep more than 37,000 pounds of air pollution from escaping into the air we breathe."

Eight companies contributed to the 2006 air emission reductions: Chem Research, Inc., Marlam Industries, Earl's Fiberglass, ON Semiconductor, Sanmina SCI, Schuff Steel Company,

Super Radiator Coils and UCSC, Inc.

National Gypsum, Phoenix Brickyard, Rinker Materials and Western States Petroleum have set air emission reduction goals as part of the partnership, but have not achieved them yet. Emission reductions are tracked and reported annually through the end of the partnership in 2008.




"These twelve companies have established reduction goals for 21 chemical air emissions," explained Trace Terrin, Management Analyst at the Maricopa County Air Quality Department and chairperson of the IC/GN Emission Reduction Workgroup. "The average air emission reduction goal for the 21 chemicals is 31 percent, adjusted to production. Thirty-one percent, adjusted to production, is a lot to reduce, and these reductions involve some high priority/high toxicity chemicals, chemicals like formaldehyde, hydrochloric acid, perchloroethylene and xylene."


"All large S. Phoenix area companies that emit pollutants were invited to join the ICGN Partnership, but not all agreed to do so," said Steve Thorne, former Health and Safety manager at Sanmina and the IC/GN Communications Workgroup co-chairperson. "The companies that are participating in this partnership are to be commended for their participation, environmental leadership and success. Also, many of these companies are growing, so it's important that each of them emit less pollution per unit of growth than they would have if we hadn't created the partnership. These companies have shown that they want to be good neighbors, and are proving it through their actions."

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Get Connected!



We were recently in the market for website design services. After soliciting referrals from friends and colleagues and emailing several companies, we cut the list to three and emailed a Request for Proposal with a generous lead-time before the due date. An amendment was issued based on questions asked by one vendor, but as the due date approached I realized two vendors never confirmed receipt. So I called both to check in.

One never returned my call, but I was able to reach the other. However, he was shocked that I called. He seemed uneasy and when asked if it was a good time to talk, he responded with "Uh, sure, I guess so." "Are you sure?" I asked. He snipped, "Yeh, it's fine. It's just that we usually do this through email." A sales rep that isn't eager to talk to a prospective client? Something wasn't right. As the conversation progressed I learned that he rarely (almost never) actually speaks to prospects or clients, and almost all their business is conducted through email. I understand that the website development business lends itself well to relying on email, but it got me thinking about communication in today's business environment as a whole.

Business people have become alarmingly reliant on email, and personal connections are becoming easier and easier to avoid. How many times have you sent an email to the person in the office or cubicle next to you? Or, chose to deal with a sensitive situation with email instead of handling it face to face? Or, sent a broadcast email to a batch of clients instead of calling each one? To me, this is a troubling sign of our times. But it also presents an opportunity for those of us still willing to make the effort to connect with those we work with (and want to work with). It has never been more difficult to deliver your company's message to prospective clients through the overwhelming barrage of emails they face daily. And, marketing departments are scrambling for ways break through. Maybe, just maybe, the tried and true sales and marketing tactics that were effective long before Google are poised to be the "next big thing" in effectively reaching new clients and developing your business. Is there is an opportunity to standout by stepping back? Email and the internet are powerful tools and I support technology as a vital piece of any sales & marketing program, but nothing replaces the confidence gained by a strong handshake, a personal connection and a hand written thank you note.

In our case, we selected the company that made the effort to connect with us. And, by the way, they were the highest bidder.

Joe Holmes is National Director of Sales & Marketing with Environmental Data Management. Joe can be reached at 480-315-0227.

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