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JOURNAL OF Environmental Management

PRACTICAL AND CURRENT INFORMATION FOR ENVIRONMENTAL, HEALTH AND SAFETY PROFESSIONALS

ARIZONA

**EXCITING
DEVELOPMENTS
AT TURNER
LABORATORIES** Pg 6



**NANCY TURNER,
TURNER
LABORATORIES, INC.**

**THANK GOODNESS
FOR ORPHAN DRUGS**
IT'S ALL ABOUT CHEMISTRY
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The GRR planning committee would like to invite you to submit an abstract for a topic to be presented at the conference. We are especially interested in topics presented from the industry perspective that may apply to a multitude of different industries (i.e., air quality, pollution prevention, regulatory issues etc.). Some examples of topics that have been suggested for the conference are listed below.

TOPIC EXAMPLES

- Air Quality / Water Quality
- Stormwater / Wastewater
- Greenhouse Gas Issues
- Alternative Energy/Sustainable Business Practices
- Emergency Planning & Response
- Pollution Prevention
- NEPA/Wildlife Considerations
- Auditing Techniques/Self Assessment
- Pharmaceuticals and/or other
Emerging Drinking Water Concerns

DEADLINE

The submission deadline is December 15, 2011. The abstract should be one page or less and include a title, author and affiliation. Please keep in mind that speakers will be asked to register for the event (the day of their presentation at a minimum) which will include lunch, attendance at other talks and keynote presentations, vendor interaction, networking and other scheduled events. We plan to notify presenters of acceptance on or before January 15, 2012.

Please email or fax your abstract to: Michael Ford, 2012 Program Chair
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For more information on GRR 2012 visit: www.epaz.org or www.thunderbirdchmm.org

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FROM THE EDITOR



One of the most rewarding aspects of serving as Editor of the Journal for nine years has been the opportunity to meet & work with so many of the exceptionally nice people in Arizona's environmental management community. I may not stop and think about that often enough, because it is easy to get overwhelmed with the work-load of running a business in this tough economy. But in work, just as in life, when you look back what stands out is not just what you accomplished financially or in your work-product, but in how you treated the people around you and how people may remember you when you are not there.

This brings to mind a few thoughts. First, in this issue (*see Pg 6*) we have an article on some of the exciting plans Nancy Turner has for Turner Laboratories as she advances the company into the future. But the message that really comes through in the article is the impact Nancy has had on the community, on her employees, and on those who have worked with her over the many years. You hear it in her respect for and concern for her employees, her memories of building Turner Laboratories into the highly qualified respected business it is, and from the comments of her long-time associates. That is a real accomplishment!

I also want to add best wishes to another outstanding member of the environmental community, Pamela Beilke (*see Pg 15*) who has taken a new position in Wichita, KS. At the SAEMS luncheon meeting last month, Pamela's friends & colleagues gave her a warm and emotional goodbye and good wishes for her future.

Until next issue, thank you for reading the Journal & continue to let me know if you have articles, photos, or events you would like to promote in the Journal.

Sincerely,
Jim Thrush, M.S. Environmental Management
Editor & Publisher

JOURNAL OF Environmental Management ARIZONA

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Above: The Nissan Leaf All-Electric Vehicle (Photo courtesy Barbara Ricca)



SAEMS 2011 P2 SEMINAR

At Right: The P2 Seminar Committee, L to R: Heather Shoemaker, Ken Asch, Barb Ricca, Lisa Cuestas - missing from photo are Frank Bonillas, Gerardo Mayoral, Tracy Dutton, and Dave Mack (Photo courtesy Barbara Ricca)



The Southern Arizona Environmental Management Society hosted the 2011 P2 Seminar, "Sustainability: A Key Ingredient to Being a Successful Business" on September 28th at the Manning House in Tucson, Arizona.

Over 60 attendees heard presentations, shared lunch, and had an opportunity to network with other environmental professionals at the annual event.

For information on this and other SAEMS events visit www.saems.org.

At Right: The Alliance Panel on Sustainability Initiatives at ADEQ and the State Legislature. L to R: Rep. Amanda Reeve, Ian Bingham, Dr. Nick Hild (Journal Staff Photo)



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Photo: Nancy Turner and Michael J. McGovern

EXCITING DEVELOPMENTS AT TURNER LABORATORIES, INC.

Nancy Turner, President and Co-Founder of Turner Laboratories, Inc., has been an active part of the southern Arizona environmental community for decades, and many Arizona businesses and environmental professionals rely on her and the Turner Laboratories staff for the professional services they provide. Nancy is one of the “pillars” of the Arizona environmental community. But change comes—even to pillars—as Nancy recently announced that she has reached agreement to sell Turner Laboratories to Tucson businessman Michael J. McGovern.

Journal staff had an opportunity to speak with Nancy and Mike about these developments, and they provided us with the following interview.

First, Nancy wanted to emphasize, “I’m not going anywhere! I’m going to be here to help with sales and assist with the knowledge base of our people and what we do.”



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BACKGROUND

Nancy and her husband Woody Turner started Turner Laboratories, Inc. on March 15, 1984. At this time Nancy worked at Analytical Technologies in Phoenix. In 1988, Nancy decided to quit the long drive each day to Phoenix and develop Turner Laboratories. She became President, and the company grew, and it grew quickly, to 23 people in 1993. During this time Nancy also participated actively in the environmental community. She was one of the founding members of the Southern Arizona Environmental

Management Society (SAEMS), and in 1986 was a founding member of the Environmental Laboratory Advisory Committee to the Director of the Department of Health Services. She also was a co-founder of the Arizona Laboratory Association in 1978.

During the early years, Turner Laboratories went through some bumps, Nancy said, “but from that we’ve recovered and we have a terrific staff. Terri Garcia is our Lab Director, Dawn Weyer is the Project Manager, and we have a full complement of analysts in the laboratory.”

DEVELOPMENTS FOR THE FUTURE

NANCY: We have 13 employees now and are thinking towards the future, wanting to do things that are coming down the pipe like pharmaceuticals in water and waste water, and doing more of the synthetic organic compounds testing in the laboratory. We are going to try to bring that in house. We will be adding more instrumentation, and of course we will need some talented people to do those tests, so we will be adding people and equipment. Room for growth is no problem, because fortunately we have a great landlord, and we can expand in this building really nicely if we want to.

Mr. McGovern reached out to me, and he is now minority owner of Turner Laboratories—he purchased Woody’s shares. In the future he’s going to own this laboratory. But I’m not going anywhere! I’m going to be here to help with sales and assist with the knowledge base of our people and what we do.

JOURNAL STAFF: That sounds like a major step.

NANCY: It’s a huge step. Mike’s background is in mechanical contracting, and he was the chief financial officer for a large company; he knows all the financial parts of our company. The technical part is where we both depend on Terri and our staff of analysts.

We are here to get the word out to potential clients and people that know me from a long time ago . . . I’m still here! That’s what I’m going to be doing for Mike, the sales effort and the marketing, client contacts. Who else to better sell this laboratory than me?

JOURNAL STAFF: How did you and Mike meet, and how did you come to the agreement to sell Turner Laboratories?

NANCY: We met on April 25th this year. I talked to a national search firm to locate someone to purchase the laboratory. I did not want to sell it to a network laboratory. Being a locally owned and operated business

and small business is very important to me. This has been a business that we nurtured and brought along, and a lot of people have worked here and gone on to greater and bigger things, like Shari Baumann going to the EPA, and others, scattered all over Phoenix and Tucson and California, former employees who have done a great job for us and helped us grow this company. Mike and I have a mutual friend who is our IT guy, David, and he comes to visit us on Wednesdays and he used to visit Mike on Tuesday's and take care of our servers and so forth. David mentioned our search to Mike. Then finally after a couple months we broke the ice, had lunch, talked & now he's here.

MIKE: My background is a financial background, in mechanical contracting for 25 years, with arguably the 2nd largest mechanical contractor in southern AZ. I did that for a long time, and I've always wanted to work for myself. So a year and a half ago I started looking for a business to buy and I talked to people, asking if anyone was looking to retire or sell their business. I looked at a half dozen different companies before I met Nancy, and I thought I would just jump in here. The rest is history. I'm a native of Tucson and I know a lot of people in Tucson, but our paths had never crossed. [Nancy and I] know some of the same people, and we know a lot of different people, and I think that will help to grow the business.

NANCY: I did not want someone to come in and buy the business and take the equipment and ship it to another place and have nothing left for the people that are employed here to do. We've been the only full-service laboratory for 27 1/2 years here in Tucson—the term “only” is important—and I wanted to see that continue. We have competitors that have their store fronts here, the 3 biggies, but we still compete very well against them and with them and use them as subcontractors. We have a good relationship with our competition that I've really worked hard to have, but on the other hand I want to let people know that we're here, locally owned and operated, and we contribute greatly to the economy in Tucson. There aren't too many small companies with the kind of sales that we have that can employ this many people and offer the benefits that we offer as well.

JOURNAL STAFF: And they are good quality jobs

NANCY: Yes, that's right, and high tech jobs like ours don't grow on trees. And we have a lot of contact with the University of Arizona,



Nancy Turner, President and Co-Founder, Turner Laboratories, Inc.

the Chemistry Department. A lot of our folks are graduates of the U of A Chemistry Program which is recognized world-wide as a great college. We want to keep that relationship going as well, it is important to us.

JOURNAL: The technical experience of your employees is a core value of the laboratory, and the many years invested in building relationships. I'm sure Mike that was part of what you considered when you looked at purchasing Turner Laboratories?

MIKE: Absolutely. It's an impressive bunch starting at the top. I can't tell you how impressed I am with what Nancy's done and the quality of the organization. I mean the detail that's gone into it, it's pretty amazing.

JOURNAL: The Turner reputation in the community is very high, and I know that means a lot to your clients who want to stay with you in the future, and not go to your competition.

NANCY: Our reputation is very important to me and I wanted someone, [Mike], who was aware of our reputation and impressed with it to be sitting there (as she points to Mike's chair) and to be able to carry on because Mike is buying our name, Turner Laboratories. It's going to continue as Turner Laboratories and will well into the future I hope.

JOURNAL STAFF: Any other thoughts for the future or plans? Do you want to keep things as they are, expand, make some changes?

MIKE: We're making changes as we see fit, there have been a few things done already, but going forward we need to grow the business and Nancy talked about a couple of those things. I think the



TURNER LABORATORIES, INC.

CONTINUED FROM PG 7

chief thing is to subcontract less work and do [more] in-house. That requires buying equipment and maybe more staff, so we'll look at that; if it's profitable to do that we will do that. Yes, we want to grow the business, and that's one of the reasons that Nancy is going to stay on to help do that. It's all about getting a little bit bigger.

NANCY: And still be locally owned & operated—we're Tucson's lab!

MIKE: I'm a native of Tucson, and I've got a lot of interest in this town

JOURNAL STAFF: Is there anything else you would like to add?

NANCY: I want to be sure it is clear that I'm still here—there is no big change in management other than Mike coming along, and he is taking care of financial management etc., but we're going to continue to grow the technical side of the laboratory. And if anyone wants to talk to Nancy Turner they just have to pick up the phone and call me or email me — I'm here! I'll be traveling to Phoenix more often too. I think I still know the way up there—I can find it!

We appreciate our loyal long-time customers and they are of course our first concern, we continue to provide the services we provided for many years. Some clients have been with us from the

QUOTE

"One early morning in 1984, out of the cold blue, a cheery-voiced Nancy Turner telephoned me from Tucson and asked if she could visit me in Phoenix for five minutes. She said she wanted to discuss how her company, Analytical Technologies, could provide my company with exemplary environmental laboratory testing services. I politely responded, 'So, you're going to drive all the way from Tucson to visit me for just five minutes?' And she replied, 'Oh, yes, David. And I pinky-finger promise that I will not take any more than five minutes of your valuable time. Besides, I really like to drive on Interstate 10 and back-and-forth past Picacho Peak; it makes me feel like a real woman.' Not wanting to deny Nancy another coveted Picacho Peak experience, and being the true gentleman that I was (that's the way I always was back then), I agreed to meet with her in my Phoenix office. Truth be told, 27 years ago when she made that cold call; I thought Nancy said she liked Machu Picchu. And that's probably the only reason why I first agreed to meet with her for 'just five minutes.' 'Anyway, to make a long, long story short, which I always like to do, Nancy has always kept her word and honored her pinky-finger promises. And we have been very good friends with each other, ever since that very first Picacho Peak Moment. With the founding of Turner Laboratories in 1988, Woody and Nancy created a credible and an incredible environmental laboratory business, which gives personal service and great value to every one of the company's clients. With the addition of Mike McGovern, Turner Laboratories is certain to grow and prosper. And all of its clients will continue to benefit from the personal, professional, and local services that have become trademarks of Turner Labs. Congratulations, Mike, and Woody, and Nancy!!!! Onward to Machu Picchu and beyond - - with Dr. Nick's future children's, children's, children, and the rest of us."

David L. Kirchner

very beginning . . . 27 1/2 years ago . . . and the 28th is coming up in March!

JOURNAL STAFF: Thank you Nancy, and thank you Mike, and best wishes from the Journal for the continued success of Turner Laboratories!

Nancy Turner, President, and Michael McGovern, Executive Vice President, can be reached at Turner Laboratories, Inc. at 520-882-5880. Nancy's email is nturner@turnerlabs.com. Mike's email is mmcgovern@turnerlabs.com. For info visit: www.turnerlabs.com

QUOTE

"One of the things I remember about Nancy Turner comes from the early days of the WQARF program (late 1980's) when I was a VP and Principal at Earth Technology and we were one of two WQARF contractors chosen by ADEQ to investigate more than a dozen sites around Arizona that were impacted by hazardous waste in the soils and groundwater."

I met with Nancy when we needed to have Analytical Laboratories in southern Arizona, central Arizona, and Northern Arizona who were EPA-certified, to do the soils and water analysis when we did Phase II sampling on those WQARF sites."

Nancy was the FIRST lab to step up and meet the EPA certification criteria to become the go-to lab in southern Arizona, even though at the time, it meant spending a lot of money to put the QA/QC procedures in place, hire qualified chemists, and be forever under the EPA's microscope and inspection programs. Other labs that we approached at the time did not see how they could profit by becoming certified just for the "WQARF" work, when there was no guarantee that work would actually be provided to them."

So, when Nancy became qualified, she also embraced the whole hazardous waste remediation contractor's community that grew up around RCRA and WQARF work in the late 1980's."

Nancy has been a great resource for the environmental community in Arizona and hopefully the new owner of Turner Lab will continue to walk in her footsteps."

Dr. Nick

(Nicholas R. Hild, PhD)

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SUSTAINABILITY AND SUSTAINABLE DEVELOPMENT

Nicholas R. Hild, PhD.

A SONIC BOOM IN SUSTAINABILITY

You probably didn't hear the news that General Motors made recently because the political debate about solving our nation's economic problems pretty much relegated it to being a "local" Detroit story. That is unfortunate because GM has succeeded in turning stimulus monies into building a production factory that produces "...the only subcompact car assembled in the US at a state-of-the-art, environmentally conscious, production facility..." (Automobile Magazine, October 2011). For a sticker price under \$15k, you get a turbocharged hatchback, with a six speed manual transmission that provides quick acceleration and freeway-comfortable-cruising—all while achieving 40 mpg. And, safety features that rival luxury class automobiles—ten (count 'em!) airbags that ensure a margin of safety for all 5 occupants.

GM engineers adapted Corvette engineering technologies for tuning the ride and handling characteristics while delivering driver and passenger comfort not found on even most mid-sized cars—and all the latest gadgetry is available for playing those iPods and cell phone apps—just like top of the line GM offerings that command much higher prices.

If you were a car-crazy kid in the late '50's or early '60's, (pre-internet) urban legends ran the gamut about the Big Three automotive manufacturing companies (in those days, there were only three: GM, Chrysler, and Ford) who made sure that automobile mileage never exceeded 10 or 12 mpg by buying up every itinerant inventor's carburetor design that came along. It was also a time before fuel injection, turbochargers, and blowers were available, so carburetors were the internal combustion engine's equivalent to today's microprocessors and it was common knowledge (urban legend?) that the Big Three collectively knew how to make those carbureted engines of the day achieve 100 mpg but it was not in their best interest—considering their 'partnership' with Big Oil companies—to provide cars that got better mileage. Of course, that was before government regulations (i.e. EPA-required mileage goals) and we all know what has happened since fuel costs rampaged to become 10 times what the pump price was in the late '60's.

So, here we are today with regulation-driven mileage goals that the Big Three (and, now

foreign car makers, too), are exceeding with hybrid and turbo-charged, computer-controlled behemoths never envisioned in those horsepower-driven days gone by. But, not in the subcompact class that the \$15k Sonic occupies today—a clear example of stimulus funding that simultaneously targeted jobs and carbon emissions reduction in the automotive industry.

But, wait! There's more to this story: The best news about this Sonic 'Boom' is really about how this little car came to be built. In the spirit of ISO 14001 and Environmental Management Systems (EMS) planning, GM brought stakeholders to the table: owners of dilapidated and decaying buildings in metro-Detroit came together to spend more than two years with GM's sustainability planners in coming up with a manufacturing facility design that rivals the most sophisticated green-built manufacturing facilities anywhere. As a result, the new Sonic is manufactured in a state of the art, \$545 million Orion Assembly Center in metropolitan Detroit, and features green technologies throughout—lighting, water reuse, water-based paint robots, noise cancellation systems, and electricity-conserving technologies designed specifically for auto manufacturing. All this while bringing back 1,700 permanent jobs, while promoting the opening of spin-off businesses, long-closed retail stores, and restaurants in the area—bringing jobs and reinvigorating a sense of community back to the economically devastated downtown area.

You would think that *stimulus-nurtured* sustainability like this would have been headline news in the congressional debate about the added value to our economy of that \$787 Billion stimulus package. But, except for the Detroit area, most of this great story has been relegated to the back pages of newspaper's business sections and to the automotive industry trade journals. And, that is a shame, because to answer the critics who said GM should never have been bailed out with taxpayer dollars: in *sustainability* terms, the new fuel-sipping Sonic and its green-built Orion Center manufacturing facility sets a new bar for automobile production—a very *green* bar. And it should be a template for how communities can come together to bring back jobs while simultaneously softening a company's environmental footprint—while truly being a win-win for taxpayers and the economy, too.

It remains to be seen whether or not other car makers will follow GM's lead with their new Sonic factory and innovative approach to adding more quality to our lowest priced autos. But, one thing is certain: GM's efforts *will* be noticed by the general public and those efforts will clearly benefit our children's children's children.



© GM Corp

Nicholas R. Hild, PhD., Professor and Associate Chair, Department of Applied Sciences and Mathematics, Environmental Technology Management program, Arizona State University College of Technology and Innovation, 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

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.AZHYDROSOC.ORG

With the wonderful and informative 2011 AHS Symposium in the Pines (Flagstaff) behind us, the chapters are gearing up for a great Fall. Tucson will be hosting Dale Mason in Nov. to talk about the ADWR Tucson AMA model updates and in Dec. they have a real special treat, Dr. Richard Greenberg will discuss Water Potential on Europa. Dr. Greenberg's new book is "Unmasking Europa." The Flagstaff chapter is excited about Marvin Glotfelty's sneak preview of his 2012 McElhiney Lecture: Life-Cycle Economic Analysis of Water Wells—Considerations for Design and Construction on Tuesday, Nov. 8 at 3:45 in Room 103 of the Geology building at NAU. In Phoenix we are gearing up of the 2012 symposium—please check out our web site for more upcoming events and opportunities to engage the water community.

Christie O'Day
Executive
Director



WWW.AZAEP.ORG

AZAEP was excited to have over 30 participants at our first professional training workshop held Sept. 9th, where Dr. Marty Rozelle and John Godec gave excellent instruction on the latest public involvement techniques.

Four university students were selected out of 34 applicants this year to receive a \$1,000 scholarship from AZAEP. This brings our total scholarship awards to over \$18,000 since the program began in 2007. The winners include Aletris Neils, Aimee Kessler, Katherine Weingartner, and Skyler Jackson.

AZAEP's September meeting featured Roger Ferland, environmental attorney, speaking on disturbing trends in environmental law. Our October 25th meeting will feature Garry Cantley presenting on the Archaeological Resources Protection Act. The Nov. 15th meeting will be in Tucson (a week early, due to the holiday) and our 4th annual golf tournament will be held on Nov. 18th. AZAEP is co-hosting a holiday mixer with the Air & Waste Management Association-Grand Canyon Section on Dec. 15th.

If you are interested in finding out more about our organization, please attend the mixer as a guest, or attend one of our meetings which are normally held on the fourth Tuesday of every month at Grimaldi's Pizzeria in Old Town Scottsdale. Updated information on these and other events is on our website.

Michael Zorba
President



WWW.SAEMS.ORG

Pamela Beilke, a most dedicated advocate for many years for the environment in Tucson and southern Arizona, moved to Wichita to accept a corporate

sustainability position with Koch Industries. At the Aug. 31st meeting, Pamela was presented with an etched glass bowl with a heartfelt message: "From your friends at SAEMS and Tucson Earth Day Festival ... Your leadership and dedication have created a lasting benefit to the Tucson and Southern Arizona environment." We wish her the best.

The SAEMS Adopt-A-Highway volunteers gathered Sept. 10th to kick off the fall season of clean up activities, enjoying brunch afterwards at the Triple T Truck Stop. On Oct. 8th, we took the challenge of cleaning up an illegal dump site on BLM-owned land on the southwest fringes of Tucson. Buffelgrass, the stubborn adversary for many volunteer activities in the Tucson area, was also targeted. The next Adopt-A-Highway cleanup is scheduled for Nov. 12th.

Attendees at the 2011 SAEMS P2 Seminar on Sept. 28 heard presentations on sustainability, reducing the carbon footprint and water conservation. All-electric cars was the subject of speakers from the Pima Association of Governments and Tucson Electric Power, describing the development of a solar charging infrastructure and the siting of charging stations for what is likely to become a common mode of transportation.

Ken Asch
President



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WHY PARKS & OPEN SPACE MATTER. THE ECONOMIC IMPACT OF ARIZONA'S NATURAL ASSETS

Arizonans value their parks and open space, consistently ranking them as key quality of life indicators. A recent survey of residents statewide shows that 87 percent visit a park or recreation area at least once a year, with 23 percent doing so on a weekly basis. In addition, parks and open spaces create thousands of jobs and billions of dollars in revenue.

Multiple land ownerships and funding mechanisms have produced parks and open space issues that are complex, confusing and sometimes controversial. The survey further revealed that most residents (80 percent), rate their knowledge of how state and local parks are funded as very low or in the middle range.

Recognizing the need for public education on the subject of parks and open space issues, Arizona Forward, a new statewide environmental/business coalition launched by Valley Forward earlier this year, developed a comprehensive report to provide unbiased facts, background information and answers to frequently asked questions about state and federal lands as well as county and municipal parks.

The user-friendly reference guide described as 'parks and open space 101' is designed to enhance awareness of and interest in solving Arizona's parks issues. An electronic copy can be downloaded at arizonaforward.org.

Diane Brossart
President



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of Commerce and Industry

The Arizona Chamber and Manufacturer's Council is in the process of developing the organization's public policy priorities for 2012. The Environment Committee is the venue for submitting and vetting environmental legislative and regulatory issues of concern on behalf of member companies. Anyone wanting to recommend an environmental issue for consideration should contact Jeff Homer at 480-441-6672 / jeff.homer@gdc4s.com.

The Environment Committee continues to host breakfast meetings on the second Wednesday of each month at the Phoenix Sheraton Hotel located at 1600 S. 52nd Street Tempe, AZ 85281. The Arizona Chamber continues to host a number of other key events focusing on various aspects of business and industry in Arizona. Two upcoming events include an Eggs and Breakfast meeting featuring Congressman David Schweikert scheduled for Oct. 20th and the 2012 Legislative Forecast Luncheon scheduled for Jan. 5, 2012. Go to www.azchamber.com for registration information.

Jeff Homer
Chairman
Environment
Committee



AMERICAN SOCIETY OF SAFETY ENGINEERS

The Southern Arizona Chapter of the American Society of Safety Engineers celebrated its 40th anniversary at its Sept. 13 meeting. There were several former Chapter Presidents in attendance, including Mo Holland and Bruce McDermid. It was great fun to hear how the "Tucson Section" was established under the Arizona Chapter (Phoenix) and how it was brought up to full "Chapter" status through the hard work of people like Carlton Schoolcraft, Bern Gazzaway, George Schuller and Don Snover. David MacCallum, P.E., CSP, former ASSE national president and ASSE Fellow, reminded us of the strides safety professionals have made over the years.

October's meeting included a tour of the NIOSH Mining Training Center on October 11th. Following the tour, the regular meeting was held at the El Parador Restaurant, Tucson, AZ, where John Caylor, Vice President, Occupational Health and Safety, Freeport-McMoRan Copper and Gold spoke on their safety management systems as well as the regulatory climate in the mining industry.

Alexis
Westin
Secretary



WWW.EPAZ.ORG

At our September luncheon, Tim Skarupa of Salt River Project informed us about the impact that forest fires have had in the past and are anticipated to have on water running off from the impacted areas. Not only water quality, but

the quantity of runoff is affected, causing more erosion and siltation of storage reservoirs.

The topic of our October luncheon was closure of abandoned mines in Arizona. Budget limitations have reduced the number of closures of abandoned mines, but with help from volunteers, more mines are being closed. The closure process involved for one mine near Globe was described. EPAZ is looking into ways to become more involved in this process.

EPAZ elections for officers was held in October. The results are to be announced during the November meeting, with installation of a new president, vice-president, and treasurer to be performed. The November meeting will be devoted to hearing from the new officers and their vision for the organization.

EPAZ normally holds monthly luncheon meetings on the 2nd Thursday of the month from 11:30 am to 1:00 pm at the SRP PERA Club. For details and reservations, please go to our website. EPAZ also gathers on the last Thursday of the month for a casual cocktail mixer at various locations throughout the valley. Visit our website to find the location of our next mixer or contact Mannie Carpenter at (480) 829-0457 for more information.



Mannie
Carpenter
President



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Dan Casiraro (L) presents Certificate of Membership to Greg Heard, Arlington Valley Energy LLC

The Alliance was pleased recently to welcome Arlington Valley Energy, LLC, as our newest official member! Accepting the Membership Certificate for Arlington Valley was Greg Heard (see photo). Arlington met Alliance membership standards by successfully passing a rigorous review of the organization's

environmental leadership characteristics, regulatory compliance history, and adherence to the Alliance Environmental Principles. We look forward to working together with Greg and Arlington Valley Energy!

An Alliance Speaker's Panel, with Advisory Council members Rep. Amanda Reeve (AZ House of Rep.), Ian Bingham (ADEQ), and led by Dr. Nick Hild (ASU) had the privilege of speaking at the September 28th SAEMS P2 Seminar on the topic, "Sustainability Issues Being Pursued by ADEQ and the State Legislature".

For information on the Alliance see our website or call 480-422-7392.



Dan Casiraro
Chair



AHMP
THUNDERBIRD

WWW.THUNDERBIRDCHMM.ORG

It's one of our favorite times of year here at the Thunderbird Chapter – Scholarship Season! We get to award 3 students from Environmental disciplines scholarships ranging from \$2,500 to \$1,000. It's a rare privilege, and we enjoy it.

The down side is that we get more applications than we have Scholarships, so we have to choose ... which is tough. Very tough. There are some strong Environmental students in Arizona!

The scholarships are for graduate or undergraduate students in an environmental field, with a 3.0 GPA, and several other requirements. Benefits include a complementary one-year Thunderbird Chapter membership and free attendance at Gatekeeper.

For more information, contact Chuck Paulausky at 480-694-1975 or cpaulausky@cpsafety.net.

Jeff Page
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Larry Olson, PhD.

IT'S ALL ABOUT CHEMISTRY

THANK GOODNESS FOR ORPHAN DRUGS

A few weeks ago, my 19 month old granddaughter was visiting and was asleep in the crib when she awoke screaming and couldn't be consoled. Nothing seemed to calm her and she began to throw up a clear, bubbly liquid. At that point we headed for the emergency room at Good Samaritan. Within 30 seconds after a very astute ER nurse first saw her, she said, "I think she has been stung by a scorpion."

Our family was now experiencing a trauma that occurs about 8000 times a year in Arizona and maybe a quarter million times a year in Mexico. That seems like a lot, but actually it's not enough. Although there are many types of scorpions, the only one in North America whose venom can cause significant nerve damage or death in humans is the genus *Centruroides* or bark scorpions. Since most of bark scorpions in the U.S. are found in Arizona, these 8000 scorpion stings simply don't represent a large enough market to provide a profit for an American manufacturer. So until last August, just a couple of weeks before my granddaughter was stung, there was no FDA approved antivenin for scorpions. (Antivenins refer to a serum derived from animals).

On August 3, 2011 the FDA approved a drug called Anascorp as the first antidote to bark scorpion stings. It is used primarily in children because they receive a larger dose from a sting due to their lower body weight and so the effects are more dangerous to them. The drug was developed by a Mexican company, Instituto Bioclon, and has been in use in Mexico for a

dozen years. But it was not available in the U.S. until Dr. Leslie Boyer, Director of the Venom Immunochemistry, Pharmacology and Emergency Response (VIPER) Institute at the University of Arizona's College of Medicine heard about it and arranged for clinical trials in Tucson. She published the results in the *New England Journal of Medicine* in 2009. Additional studies at more than two dozen Arizona hospitals have confirmed the efficacy of the drug in reversing the effects of the scorpion sting within a matter of hours. As the nurses told us that night, "it's a miracle drug."

Anascorp received priority review by the FDA Office of Orphan Products Development which focuses on drugs and biologics for treatment of rare diseases that affect fewer than 200,000 people in the U.S. In these circumstances it is difficult for companies to recover the costs of developing and marketing a new drug. Since 1983, the program has helped bring more than 350 new drugs or treatments to the market, compared with less than ten in the previous decade. According to Dr. Boyer, this is the first time that the FDA has approved a drug that was completely developed in a Latin American country.

Prior to Anascorp the only treatment for scorpion stings was an antivenin made from goats by an ASU microbiologist named Marilyn Bloom. She took it upon herself to make enough for Arizona hospitals, but it was never approved by the FDA because it was not sold outside of the state. When she retired in 1999, the supply ran out.

Anascorp differs from the Bloom antivenin because it is made from horses that have been progressively injected with scorpion venom. They receive a first dose equivalent to one half of a scorpion sting. By the end of six months they receive the equivalent of 100 stings. The horses respond by producing antibodies specific to the scorpion venom. Blood plasma from the horses is further treated to separate proteins that can cause allergic reactions and this distinguishes Anascorp from Bloom's goat antivenin that had significantly more side effects.

Does it work? By the time we had received clearance for our granddaughter to receive Anascorp and she had been transported by ambulance to Phoenix Children's Hospital where the drug was available, she was experiencing the full impact of the scorpion venom. Within 30 minutes after infusing the drug, all of her symptoms had been resolved and within an hour she was asleep. The nurses were right. It is a miracle drug.

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 environmental management. He can be reached at 480-727-1499, or by email at Larry.Olson@asu.edu

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I WANT YOUR SUCCESS STORY



When I sat down to key in this edition of Prospecting, it occurred to me that each time I do so I think of other business development professionals and the stories they might be able to tell. Being somewhat of a study of our profession, I'm interested in what contributes to the success of others and what lessons are learned from struggles encountered along the way. Plus, I'm sure you've become bored by my musings and new content for the column would be a welcomed change. I've been considering this idea for some time and think it might be fun to see what experiences others have to share.

This is your chance to brag about a unique sales and marketing strategy that worked or describe lessons learned from something gone terribly wrong. Think of a particularly significant event in your career and look closely at sales and marketing components that contributed to it, then write it down and send it in! Submit your entry to me by email at joe.holmes@atcassociates.com and keep it to about 200-300 words. The chosen essay will not only be published in the next issue of the Journal, but I'll reserve a portion of the column space for a short promotion of the company the winner works for. As added incentive, there's a \$50 gift card in it for the person submitting the winning success story.

Thank you and good luck!



Joe Holmes is the Regional Manager of Business Development at ATC Associates. He can be reached at joe.holmes@atcassociates.com.

Joe C. Holmes

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NEWS BRIEFS

BTZ, INC. TO PAY \$110,000 PENALTY TO RESOLVE ASBESTOS AND AQ VIOLATIONS IN YUMA COUNTY

❖ ADEQ and the Arizona Attorney General's Office announced recently that BTZ, Inc. has agreed to pay a \$110,000 penalty for asbestos and air quality violations from its demolition activities and asphalt plant that occurred in Yuma County.

ADEQ conducted inspections of BTZ's hot mix asphalt and crushing and screening plants in 2008. At the asphalt plant, several holes in the bottom of the plant's stack were observed and BTZ had not conducted a stack test on the plant to verify that the facility was meeting its emission limits. The company's vehicles also were generating excessive dust at the site.

ADEQ investigators discovered that the crushing and screening plant was operating equipment without a permit. ADEQ also observed excessive dust emissions from equipment due to an inoperable pollution control device. Two Notices of Violation (NOV) were issued to BTZ for the violations. The company corrected those problems and returned to compliance in early 2010.

BTZ, Inc. also received a Notice of Violation in the summer of 2008 for not complying with state regulations for handling asbestos during its demolition of a section of Kofa High School. A follow-up inspection again found BTZ conducting demolition work prior to having the asbestos abated. An NOV was issued to BTZ for disturbing the asbestos materials during demolition, not properly marking the asbestos

transport vehicles and improperly packaging the materials in a dumpster. BTZ returned to compliance from those violations later that year.

"Companies involved in road-building and demolition activities need to do the proper pre-planning to insure that they have environmental compliance," ADEQ Director Henry Darwin said. "But the company came into compliance promptly after the violations were identified."

"Arizona companies must comply with the requirements that protect our air quality," said Arizona Attorney General Tom Horne. "This settlement is a reasonable resolution for a company that operated improperly."

The consent judgment is subject to court approval.

KEN HOOKER APPOINTED OMBUDSMAN AND SMALL BUSINESS ASSISTANCE LEAD / MCAQ

❖ The Maricopa County Air Quality Department announced recently the selection of a department Ombudsman and Small Business Assistance [SBA] lead with the promotion of employee Ken Hooker.

"The Ombudsman/SBA serves a critical role in the department by supporting small and large businesses, trade associations, public interest groups and individual community members with all aspects of the regulatory process," stated Air Quality Department Director Bill Wiley. "Strong investigative skills, impartiality and knowledge of air quality rules and regulations are key to the success of this position."

Ken comes to the position with nine years of direct air quality experience within the agency. He started with the Air Quality Department in 2002 as an Inspector and moved into the position of Compliance Inspector Supervisor in 2005. Earlier this year, he stepped in to serve as the Enforcement Division Supervisor.

The selection process for the position of Air Quality Ombudsman/SBA was highly competitive and began with 43 well-qualified internal and external candidates.

STAR VALLEY VETERINARY CLINIC, P.C. AGREES TO \$65,000 SETTLEMENT TO RESOLVE BIOHAZARDOUS MEDICAL WASTE VIOLATIONS

❖ ADEQ and the Arizona Attorney General's Office announced recently that Star Valley Veterinary Clinic, P.C. has agreed to a \$65,000 settlement in a consent judgment for biohazardous medical waste violations in the Town of Star Valley in Gila County.

The clinic will pay a \$5,000 penalty and conduct a \$60,000 Supplemental Environmental Project in which veterinarian services will be used to treat animals for the Humane Society of Central Arizona. In addition, information will be provided about the proper management and disposal of biohazardous medical waste in the animal care industry.

An inspection by ADEQ's Solid Waste Inspection and Compliance Unit in June 2009 determined that the clinic had disposed of untreated biohazardous medical waste syringes contaminated with blood in regular solid waste containers that were dumped in the Gila County landfill between 1999 and 2009.

The clinic received a notice of violation from ADEQ in September 2009 for improperly packaging, storing, labeling, and disposing of untreated biohazardous medical waste.

"These are serious violations that went on for many

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PAMELA BEILKE ACCEPTS POSITION WITH KOCH INDUSTRIES

Pamela Beilke, formerly with Apache Nitrogen Products, recently accepted a out-of-state corporate sustainability position with Koch Industries in Wichita, KS. Pamela will be greatly missed by the Arizona environmental community, especially by those who have known and worked with Pamela for many years through her volunteer activities with SAEMS. Ken Asch, SAEMS President, presented an honorary award to Pamela (see above photo) at the August 31st SAEMS luncheon meeting at the Manning House in Tucson. On September 17th, friends met with Pamela at Nimbus Bistro for a farewell Happy Hour! Best wishes to Pamela in her new position!

years,” said ADEQ Director Henry Darwin. “But this is also a very creative settlement that will allow many abandoned pets and other animals in the Payson area to receive medical treatment while at the same time educating animal owners about the proper disposal of this medical waste.”

“All veterinary clinics and other medical providers need to rigorously comply with state standards to protect the health of our citizens and our environment,” Attorney General Tom Horne said.

The consent judgment is subject to court approval.

SOUTH YUMA COUNTY LANDFILL, LLC TO PAY \$70,000 PENALTY TO RESOLVE AIR QUALITY VIOLATIONS AT ITS YUMA COUNTY FACILITY

❖ ADEQ and the Arizona Attorney General’s Office announced recently that South Yuma County Landfill, LLC (SYCL) has agreed to pay a \$70,000 penalty for failure to obtain an air quality permit at its municipal solid waste landfill in Yuma County from 2000 until 2009.

SYCL was cited after a 2009 ADEQ inspection determined that it underestimated the amount of methane and other gases released when it calculated its design capacity and amount of waste it would be receiving at the landfill, located 25 miles southwest of Yuma on the Mexican border.

The design capacity calculation determines if a facility is subject to federal air pollution requirements for municipal solid waste facilities. Facilities over a certain size must obtain a major source air permit, which contains provisions for monitoring the level of gas generation associated with decomposing waste.

Municipal solid waste facilities generate methane and non-

methane organic compounds as waste decomposes. The methane and non-methane gases can pose a surface or subsurface fire risk, if enough gas is generated by the waste. Municipal solid waste facilities that are subject to the federal regulations are required to monitor the level of gas being generated on-site to prevent fires from occurring.

On Jan. 12, 2010, SYCL was issued an air quality permit for the landfill and returned to compliance.

“Landfill companies need to do the proper pre-planning to insure that they have environmental compliance,” ADEQ Director Henry Darwin said. “But the landfill came into compliance promptly after the violation was identified.”

“Arizona companies must comply with the requirements that protect our air quality,” said Arizona Attorney General Tom Horne. “This settlement is a reasonable resolution for a company that operated improperly.”

The consent judgment is subject to court approval.



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